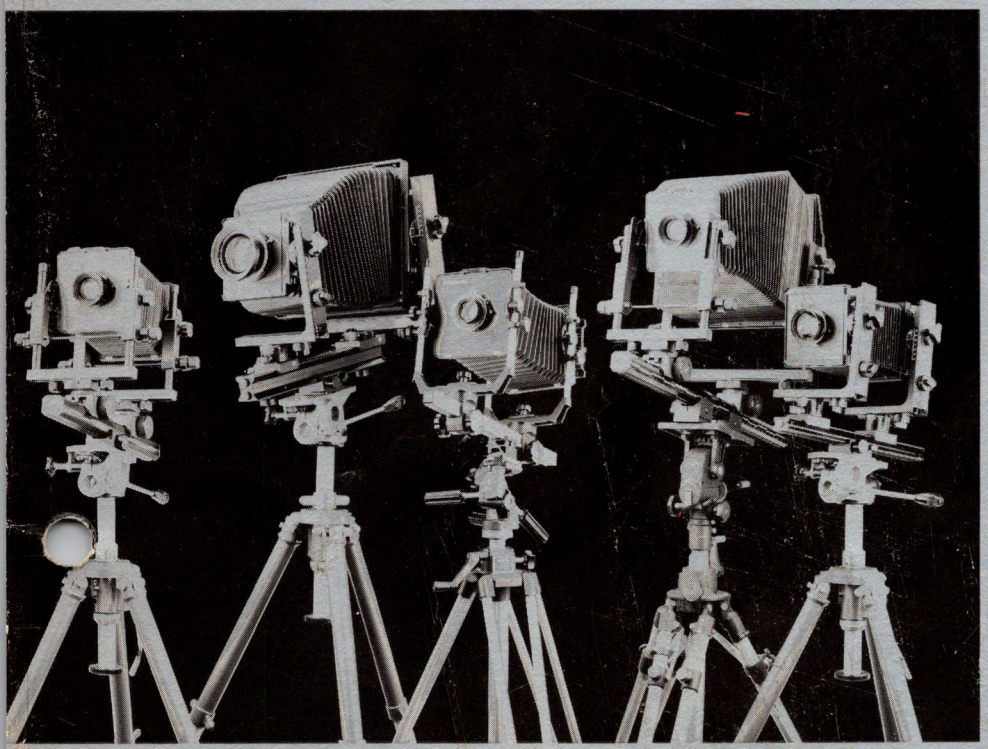
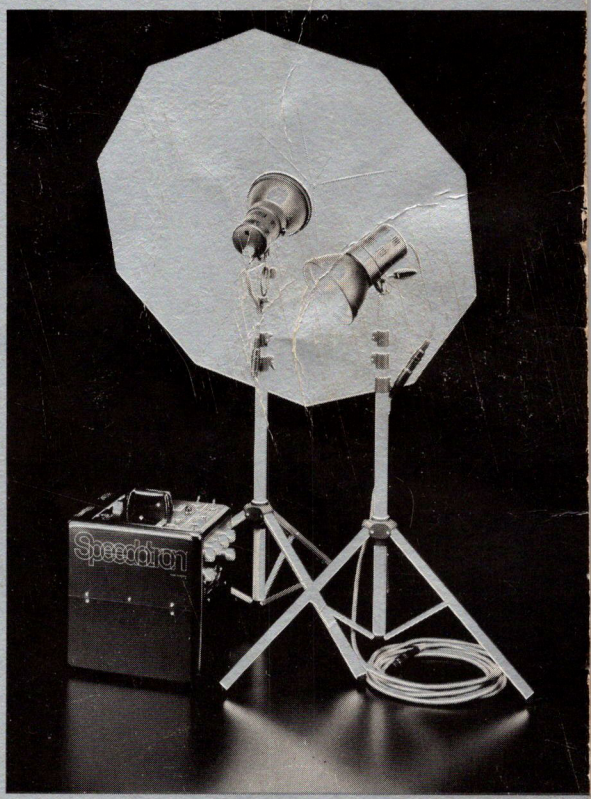
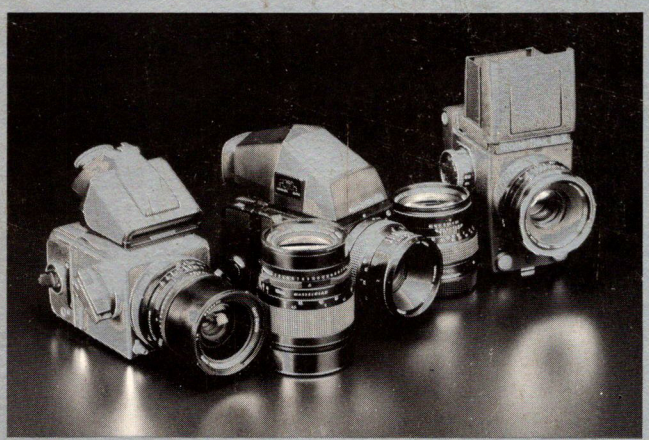
THE PHOTOGRAPHER'S CATALOG

Second Edition
July 1985

$3.00







Calumet
PHOTOGRAPHIC INC.

Calumet
PHOTOGRAPHIC INC.

890 Supreme Drive
Bensenville, Illinois 60106

312/860-7447
TWX 910-222-0271

ROBERT F. MOLITOR
PRESIDENT

An apology to all Calumet Customers!

Dear Calumet Customer,

You may have experienced problems getting through to Calumet during the past several months when you have called the 800-CALUMET number. Frankly we were unprepared to handle the level of orders that you have given us. We sincerely apologize to those of you who have been inconvenienced. However, we are happy to report that several steps have been taken to alleviate these problems.

A. Calumet has recently installed one of the most sophisticated telephone switching systems available along with additional WATTS lines, including a new 800-225-8601 number for customers within Illinois. This system allows your calls to go directly to the technical sales department without handling by a switchboard operator and will reduce the chance of getting a busy signal.

B. A new dedicated Customer Service line (312-860-7448) has been established to allow you direct access to this problem solving department.

C. We have recruited and trained additional technical sales representatives. Since people are the key to any successful organization, we will continue to select and train our personnel to be the best in the business.

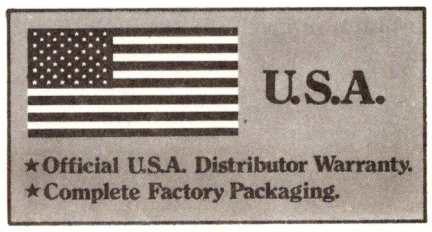
D. Calumet has also added a new IBM System 38 to our computer installation. This will allow us to stay well ahead of our continued growth and provide the prompt service you have come to expect from Calumet.

E. Technical Sales Department hours are now 9:00 am to 6:00 pm (C.T.). This will allow you an extra hour to call, which should be especially helpful to those on the West Coast.

You will also find that we have implemented a simplified freight policy which allows you to determine your exact shipping, handling, and insurance charge quickly, without guessing or finding out later that you were billed additional charges. If you "need it yesterday" you will also find a new Guaranteed Same Day shipment program. See the inside back cover for details.

The Calumet/Finelight seminar series which we initiated last May was well received. In response to the overwhelming praise given the seminar by the attendees, Calumet is proud to sponsor another series of these programs in eight additional cities this fall. See the facing page for details.

Unfortunately, there are a number of products which have been plagued by the deceptive practices of a few unscrupulous retailers. Customers who purchase these products can lose certain rights and privileges including: warranty service, rebates, professional support programs, and other distributor promotions. Calumet has steadfastly refused these practices. We have created the following logo as a clear notice of products where deceptive practices are prevalent:



We hope that you will enjoy this latest edition of The Photographer's Catalog. Please take note of the "Soft Goods" section at the back of this catalog which includes professional film and supplies. If you have not received a copy of the "Soft Goods Catalog" please request one on your next order.

Thank you for your continued support.

Robert F. Molitor

Robert F. Molitor

CALUMET PHOTOGRAPHIC EDUCATION

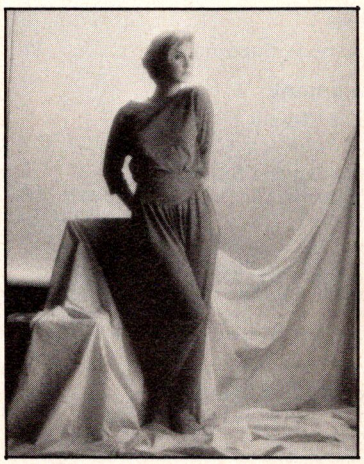
CALUMET

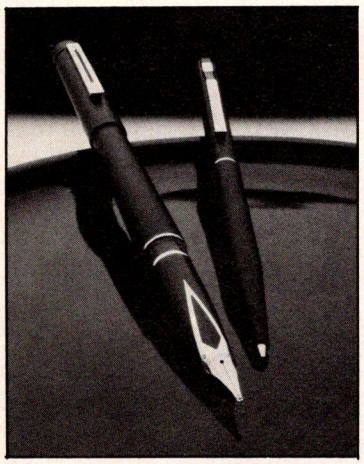
FINELIGHT

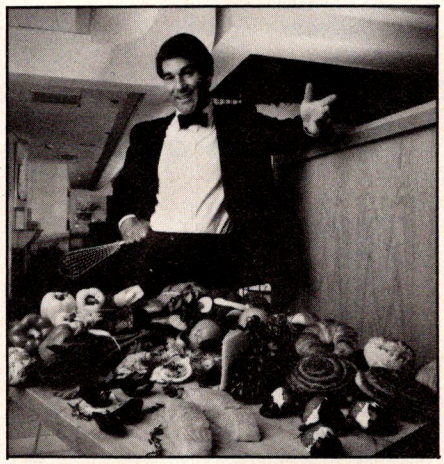
1985

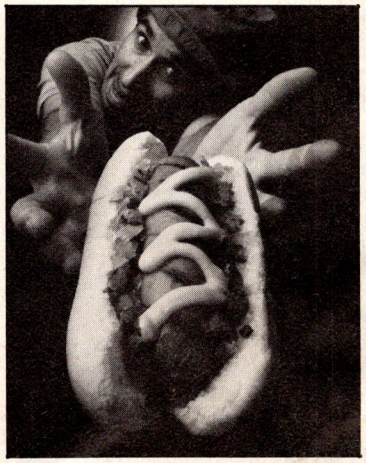
SEMINARS

EDUCATIONAL









Early in 1985 Calumet teamed up with Finelight Productions to produce the first in a series of professionally oriented lighting seminars. These seminars are a genuine learning experience—rich with information for even the most advanced professional. This is a unique opportunity to learn the latest in lighting theory and techniques.

The heart of the Finelight Seminar is a sophisticated, multi-image slide presentation which walks you through the setups of over a dozen illustrative photographs. Using dissolves and image blending you can clearly see the effects achieved through various lighting techniques. Emphasis is placed on creative problem solving and practical applications which can be put to use immediately in a variety of situations.

Fall 85 Series Schedule:

Seattle	**Sunday**	**Oct. 13**
Cleveland	**Sunday**	**Oct. 20**
Dallas	**Saturday**	**Oct. 26**
Austin	**Sunday**	**Oct. 27**
Washington DC	**Saturday**	**Nov. 2**
Boston	**Sunday**	**Nov. 3**
Atlanta	**Sunday**	**Nov. 10**
Los Angeles	**Sunday**	**Nov. 17**
Los Angeles	**Monday**	**Nov. 18**

Seminars will be held from 10:00 AM to 5:30 PM.

As an additional feature to each seminar, a selection of Calumet equipment will be available for demonstration during the breaks and immediately following the program.

Seminar registration fee is $85.00. This fee includes all seminar support materials and lunch. All seminars are held in easily accessible major hotels.

Registration is strictly limited to 400 persons per location and fees are non-refundable for cancellations made less than two weeks prior to the seminar date. No registrations will be accepted at the door.

To register, please use the attached form and envelope, or call 312-860-7458 between 9-4 (C.S.T.)

Confirmation and tickets will be mailed upon receipt of your registration. This will include a map and details for your seminar location.

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The 1985 Photographer's Catalog: 2nd Edition

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- Large Format Accessories
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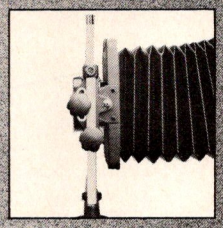
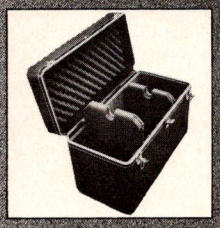

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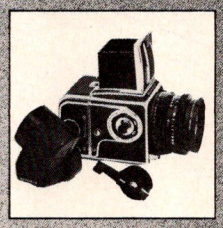
- Leica, Nikon and Widelux
- Complete System Accessories



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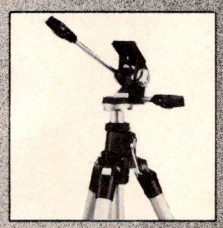
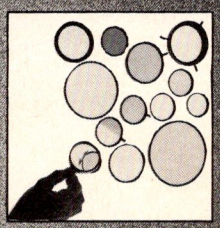

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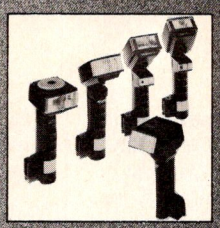
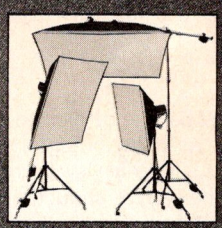

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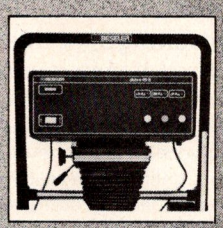
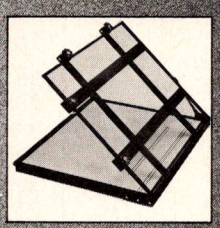

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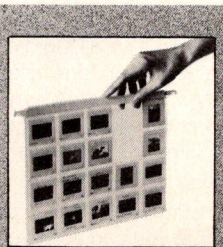
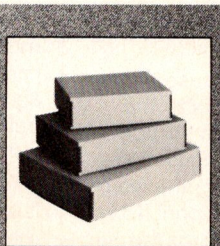
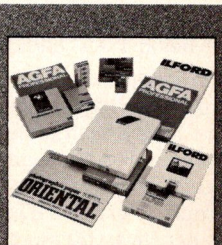

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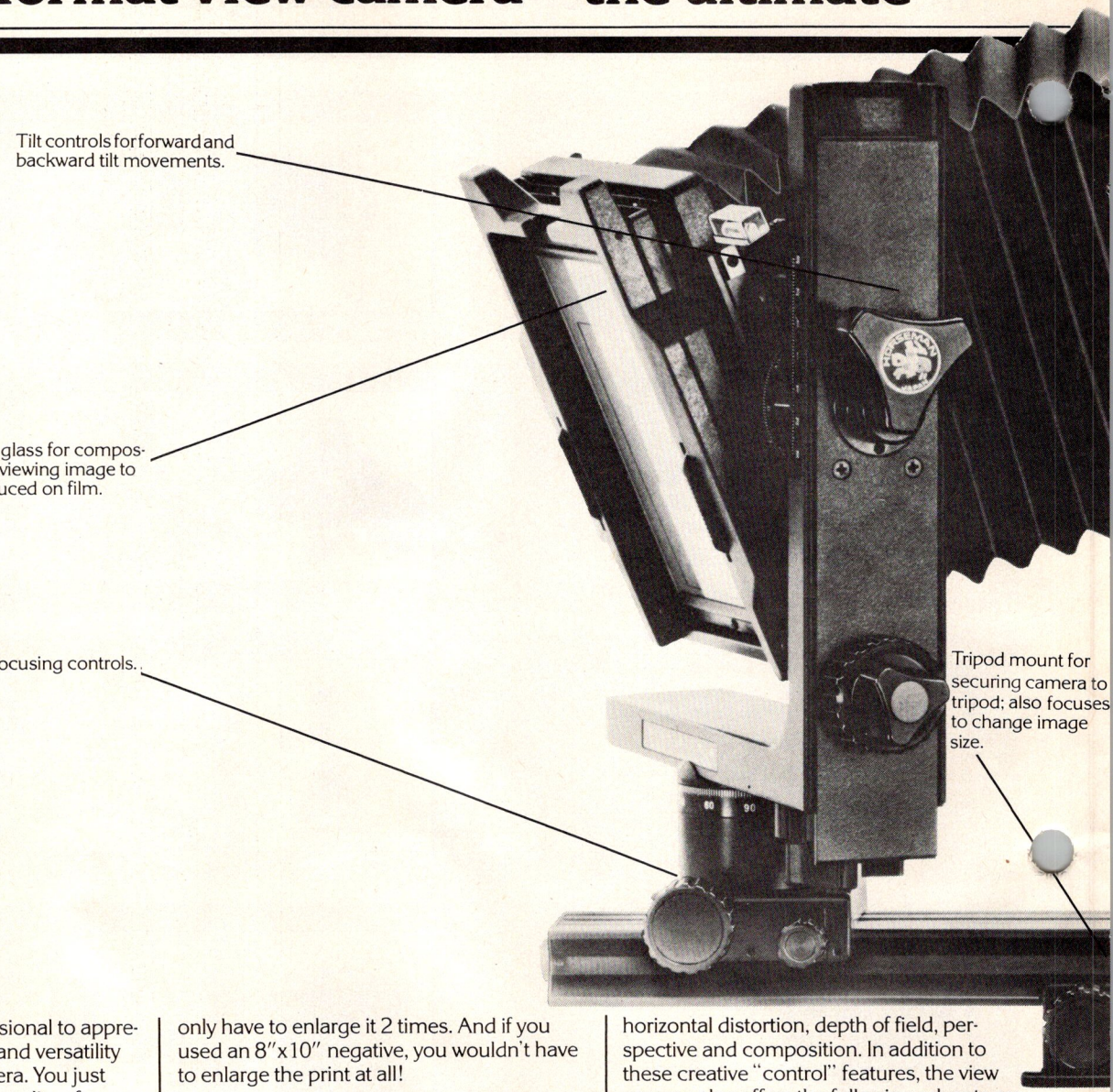
The large format view camera—the ultimate



You don't have to be a professional to appreciate the reliability, precision and versatility of the large format view camera. You just have to be serious about the quality of your photography. If you are, there's no limit to what you can achieve once you understand a few basic principles behind the techniques and capabilities of large format photography. It could open up an exciting new world of creative freedom for you... a richly rewarding, thoroughly satisfying world you could never reach with the limited capabilities of the small, rigid 35mm or 2¼" camera.

Large format—what it is and what it does.

The term large format simply means big film size. Large format cameras use sheet film sized 4" x5" or larger, with the most common film sizes being 4"x5" and 8"x10."

Why such a large film size? Because in photography, the bigger the film size, the better the quality. A larger negative produces better quality prints because it requires less magnification than a smaller negative would. For example, to create a 8"x10" print from a 35mm negative, you must enlarge the print **8 times.** If you had a 4"x5" negative, you'd only have to enlarge it 2 times. And if you used an 8"x10" negative, you wouldn't have to enlarge the print at all!

In addition, a larger negative offers a much greater range of tonal values and less apparent graininess due to the greater number of silver halides on the negative.

The advantages of the large format view camera

Although large format cameras come in many different sizes and designs, the most popular version is the view camera. This is due to its unlimited versatility, coupled with some very special features that make the view camera unique among all cameras for quality photography.

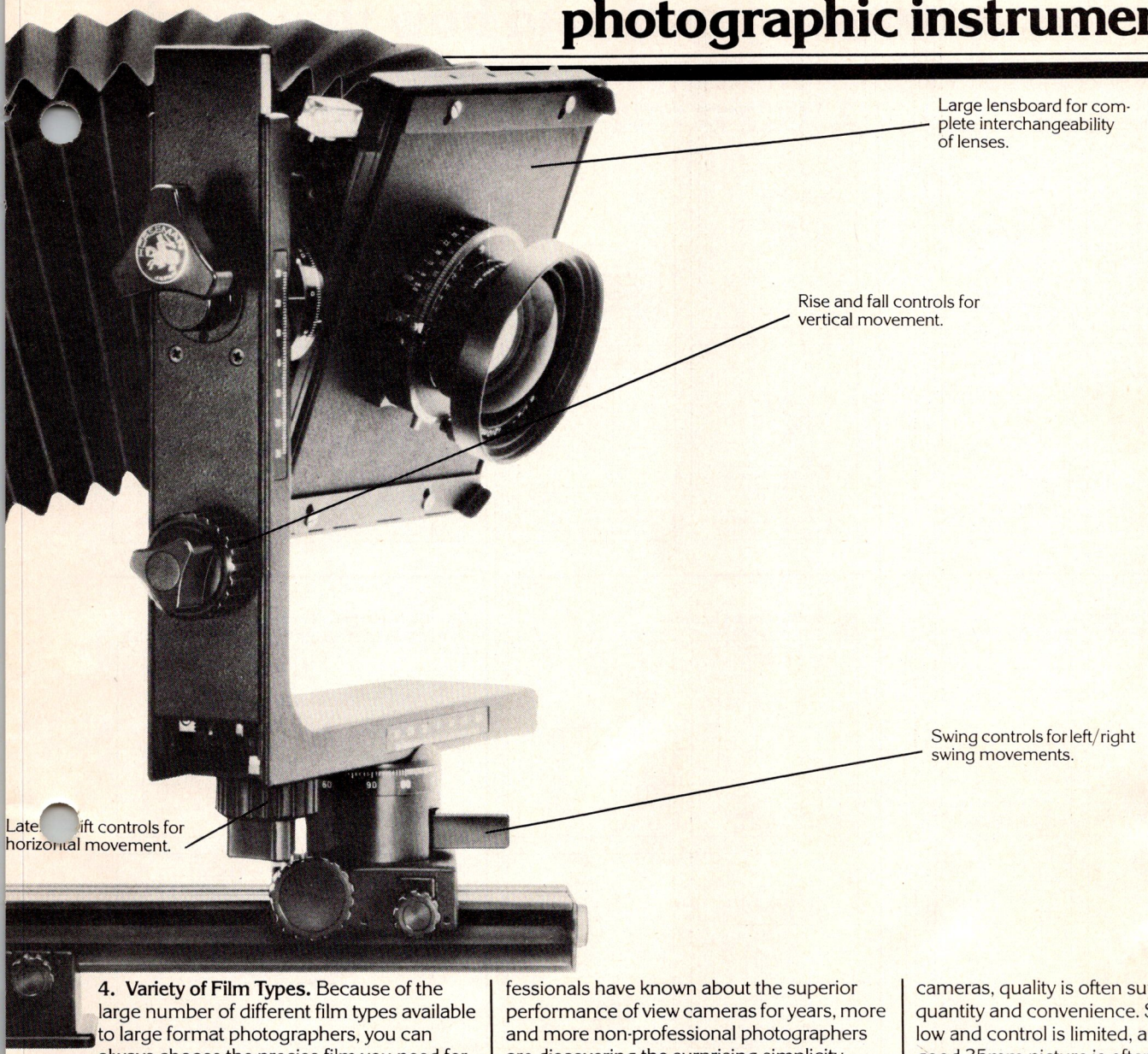
The key feature of the view camera is that **it moves.** Unlike small, rigid cameras, the view camera moves up, down, left, right, forward and back. These camera movements (illustrated on the following page) are called tilts, swings, lateral shifts, rising/falling front and rising/falling back.

It is by using these unique camera movements that you can achieve the total creative freedom needed to control vertical distortion, horizontal distortion, depth of field, perspective and composition. In addition to these creative "control" features, the view camera also offers the following advantages over smaller, rigid cameras:

1. **Complete interchangeability of lenses.** The view camera takes all standard normal, wide angle and telephoto large format lenses, in a range from 65mm to 1000mm and longer in focal length. The simple lens mounting system means virtually any lens can be used, regardless of size or focal length.

2. **Multi-format versatility.** Although a 4"x5" view camera normally uses 4"x5" sheet film in cut film holders, the system can be easily adapted for the use of 120 roll film in 6x7cm or 6x9cm formats and instant films as well.

3. **Zone System Exposure Determination.** Only a large format camera allows you to expose one piece of film at a time. By thus controlling the amount of exposure and development for each shot, you can achieve optimum shadow, middletone and highlight detail... something you can not do with a roll film camera.



4. Variety of Film Types. Because of the large number of different film types available to large format photographers, you can always choose the precise film you need for your purposes.

5. Macro Applications. Large format cameras permit macro or close-up photography without adding supplementary bellows or extension tubes. Most view cameras can achieve anywhere from a 1:1 magnification with a 210mm lens, up to 4:1 ratio with a 90mm lens. Yet if additional magnification is needed, usually a supplementary bellows can be added or a shorter focal length lens can be used.

6. Ground Glass Viewing. Unlike 35mm cameras, the view camera allows you to view the **exact** image you wish to produce on the ground glass back. This allows you to preplan your composition for individual or multiple exposures by simply outlining your subject on the ground glass with a grease pencil.

Should you be using a large format view camera?

The answer depends upon the kind of photography you wish to do. Although professionals have known about the superior performance of view cameras for years, more and more non-professional photographers are discovering the surprising simplicity and ease of operation this most sophisticated of photographic instruments offers.

A view camera is indeed big and bulky. But its size and weight are necessary, both to accommodate the large size film and to allow the kind of movements you need to work with unlimited creativity. Because of its size, a view camera requires a sturdy tripod and is not recommended for fashion, photojournalism or sports photography. But, if you are looking for the finest photographic quality in your scenics, still lifes, portraits, or product illustrations, the view camera is the best investment you can make in your photographic future.

View Camera Discipline

When evaluating the potential role of the view camera in your photographic endeavors, there is one final point to consider. It's called photographic discipline, and it reflects the way you think about and approach photography.

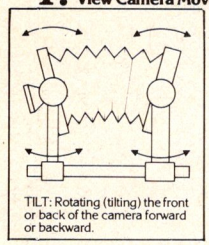
Because of the limitations of small roll-film cameras, quality is often superseded by quantity and convenience. Since film cost is low and control is limited, an exceptionally good 35mm picture is often a "happy accident" resulting from trial and error shooting, rather than a planned expression of photographic creativity.

View cameras, on the other hand, require time, careful planning and an understanding of photographic principles. But it is precisely these factors that make the view camera the best possible "teacher" you could ever have. It can teach you subject awareness, subject evaluation, controlling exposure and development for optimum shadow and highlight detail, lighting and many other factors. Because a view camera offers so much more, you can begin to appreciate the true meaning of photographic quality. And you can begin to personally develop those techniques necessary to achieve the kind of quality you always wanted but couldn't achieve with a small camera.

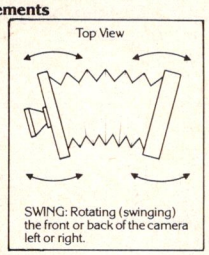
If you care about photography as an art, as well as a skill, the best way to both expand your creative horizons and learn about the exciting world of true quality photography, is with a large format view camera.

View Camera movements and how they work

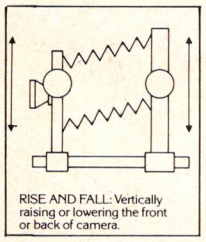
1. View Camera Movements



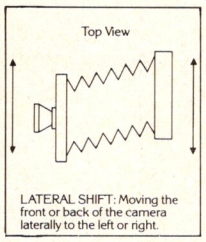
TILT: Rotating (tilting) the front or back of the camera forward or backward.



SWING: Rotating (swinging) the front or back of the camera left or right.



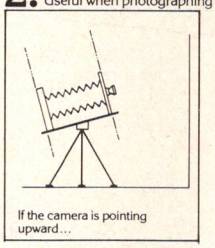
RISE AND FALL: Vertically raising or lowering the front or back of camera.



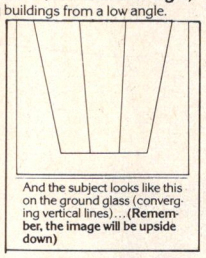
LATERAL SHIFT: Moving the front or back of the camera laterally to the left or right.

2. Vertical Perspective Control (Low Camera Angle)

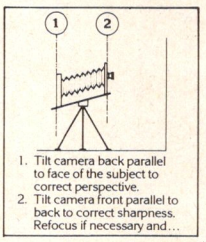
Useful when photographing buildings from a low angle.



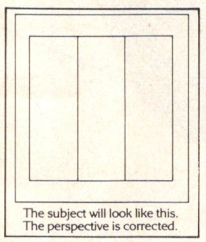
If the camera is pointing upward...



And the subject looks like this on the ground glass (converging vertical lines)... **(Remember, the image will be upside down)**



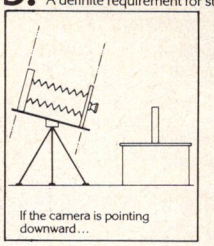
1. Tilt camera back parallel to face of the subject to correct perspective.
2. Tilt camera front parallel to back to correct sharpness. Refocus if necessary and...



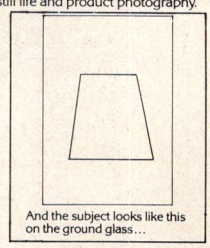
The subject will look like this. The perspective is corrected.

3. Vertical Perspective Control (High Camera Angle)

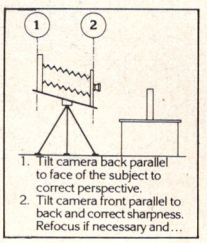
A definite requirement for still life and product photography.



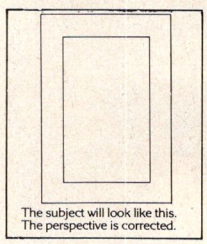
If the camera is pointing downward...



And the subject looks like this on the ground glass...



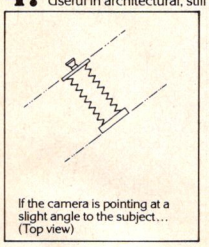
1. Tilt camera back parallel to face of the subject to correct perspective.
2. Tilt camera front parallel to back and correct sharpness. Refocus if necessary and...



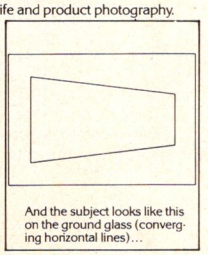
The subject will look like this. The perspective is corrected.

4. Horizontal Perspective Control

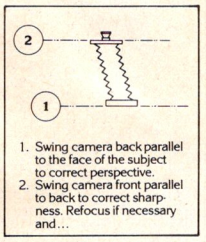
Useful in architectural, still life and product photography.



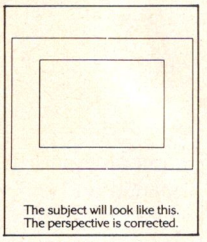
If the camera is pointing at a slight angle to the subject... (Top view)



And the subject looks like this on the ground glass (converging horizontal lines)...



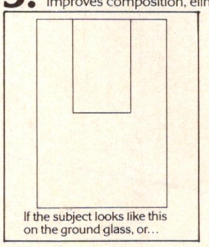
1. Swing camera back parallel to the face of the subject to correct perspective.
2. Swing camera front parallel to back to correct sharpness. Refocus if necessary and...



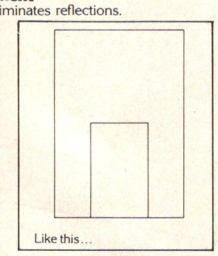
The subject will look like this. The perspective is corrected.

5. Vertical Image Placement

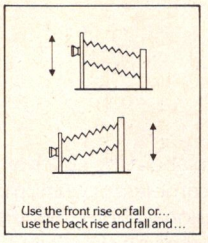
Improves composition, eliminates reflections.



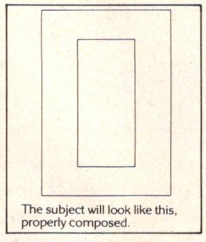
If the subject looks like this on the ground glass, or...



Like this...



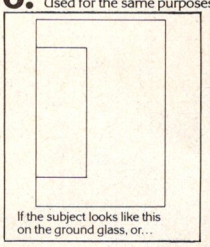
Use the front rise or fall or... use the back rise and fall and...



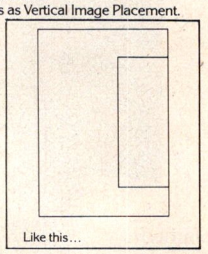
The subject will look like this, properly composed.

6. Horizontal Image Placement

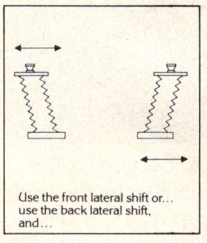
Used for the same purposes as Vertical Image Placement.



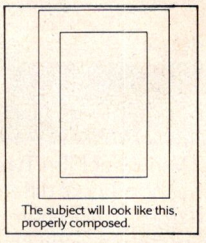
If the subject looks like this on the ground glass, or...



Like this...



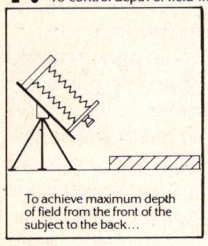
Use the front lateral shift or... use the back lateral shift, and...



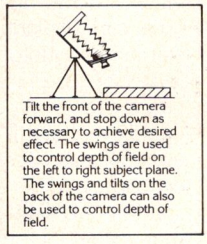
The subject will look like this, properly composed.

7. Depth of Field

To control depth of field with the camera.



To achieve maximum depth of field from the front of the subject to the back...



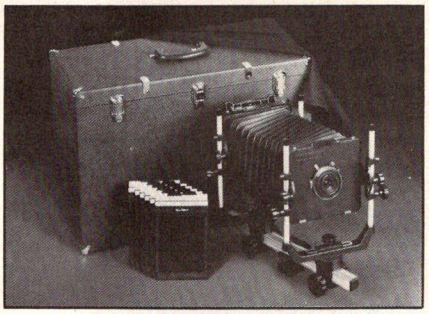
Tilt the front of the camera forward, and stop down as necessary to achieve desired effect. The swings are used to control depth of field on the left to right subject plane. The swings and tilts on the back of the camera can also be used to control depth of field.

For further information...

The above examples illustrate all the most commonly used view camera movements, which can be used individually or in conjunction with each other. There are many view camera books available which will provide detailed discussions about camera movements.

What do you need for large format photography?

The equipment requirements for large format photography are really quite simple. Here's all you'll need:



1. 4"x5" view camera
2. Large format lens
3. Six or more sheet film holders
4. Sturdy tripod or stand
5. Focusing cloth or hood
6. Focusing magnifier or lupe 5x to 6x
7. Carrying case
8. Hand-held light meter
9. The 4"x5" film of your choice
10. Cable release

If you already own some of the above items, such as a sturdy tripod or light meter, your initial expenditure will be proportionately reduced. For additional information about large format photography, equipment or accessories, feel free to write or call Calumet Photographic. We'll be glad to answer any questions or to advise you about our equipment.

For more information, call or write:

Calumet Photographic, Inc.
890 Supreme Drive
Bensenville, IL 60106

1-800-CALUMET (225-8638)
(In Illinois, 1-800-225-8601)

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The Calumet 540 4 x 5 View Camera

The World's Best Value in 4 x 5 View Cameras

As the leading manufacturer of view cameras, Calumet has long understood and successfully met the rigorous requirements of the most exacting professionals. The ALL NEW Calumet CC540 4 X 5 view camera has been designed to meet all of these requirements and offer a complete range of accessories for all studio and location conditions. Best of all, the CC540 was designed to be economical beyond compare. Never before has such a full featured, metal constructed 4 x 5 view camera offered so much at this incredibly low price.

- Solid Metal Construction
- Interchangeable Bellows
- 360° Revolving Back
- Full View Camera Movements
- Complete Accessory System including: Wide Angle Bellows, Compendium Lenshood, Reflex Viewing Hood, In-Line Viewing Hood, Fresnel Lens, Roll Film Adapters, Cases, etc.

Free Lensboard and Lens Mounting
with purchase of any large format lens.

Calumet CC540 4 X 5 Camera
Includes: Camera body, bellows tripod mount, and ground glass. Lens and lensboard not included.

CC5400. . . . . **Catalog Price $249.95**

Less Rebate $70.00

Now Only $179.95*

*Offer expires Sept. 30,1985

Calumet 540 Features and Specifications

FEATURES:

- All structural parts are made of die-cast aluminum alloy.
- Interchangeable Bellows—accessory wide angle bellows available
- Extendable Monorail System—extra long monorails and monorail coupling device available
- 360° Revolving Back—horizontal and vertical detents provided with positive lock in any off axis position
- International Lock Spring Back—compatible with 4X5 international lock accessories
- Reversible Front and Rear Standards—permits extra 2½" bellows extension
- Dual Axis Spirit Level
- Large 6⅜" Lensboard—accommodates nearly all shutters and lenses
- Extensive Accessory System Available

SPECIFICATIONS:

- Tilt: 60° with center detent (front and back) front tilt on optical axis
- Swing: Unlimited with center detent (front and back)
- Rise and Fall: 3¾" (front and back)
- Lateral Shift: 2" (front and back)
- Maximum Extension: 18" with normal bellows unlimited with extension bellows and monorail sections
- Minimum Extension: 2.6" with recessed lensboard
- Lensboard Size: 6⅜ x 6⅜
- Weight: 8 lbs.

Calumet 540L

SPECIAL FEATURES:

- Extra long 22" monorail.
- Full view camera movements.
- Complete compatibility with the entire Calumet/Cambo accessory system.

SPECIFICATIONS:

- Maximum bellows extension: 22½".
- Other camera movements are the same as the Calumet 540 standard view camera.

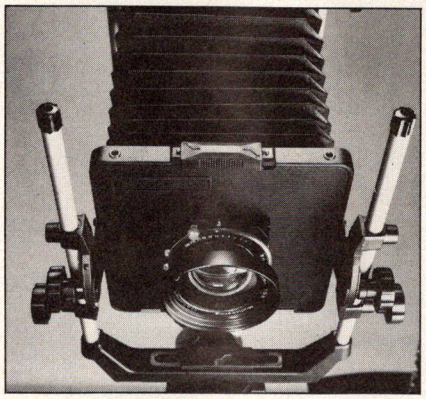
Calumet 540W

SPECIAL FEATURES:

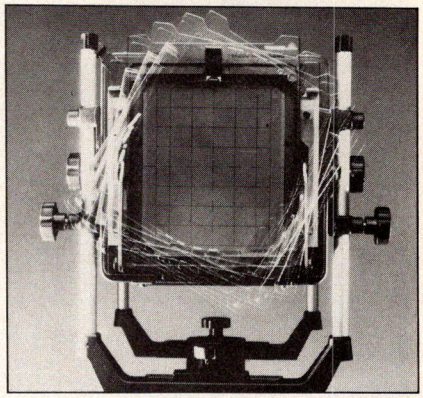
- Flexible bag bellows.
- Short, portable 11½" monorail.

SPECIFICATIONS:

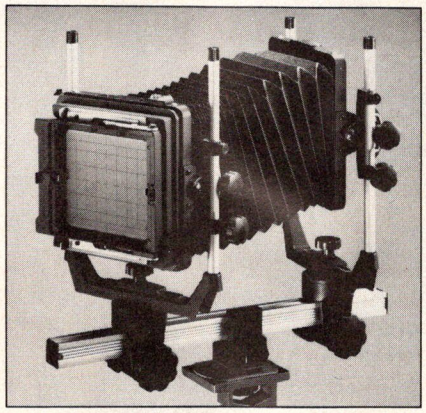
- Minimum bellows extension: 2⁷⁄₁₆" (with recessed lensboard and tripod block mounted behind rear standard.)
- Maximum bellows extension: 9⅛" (with flat lensboard.)



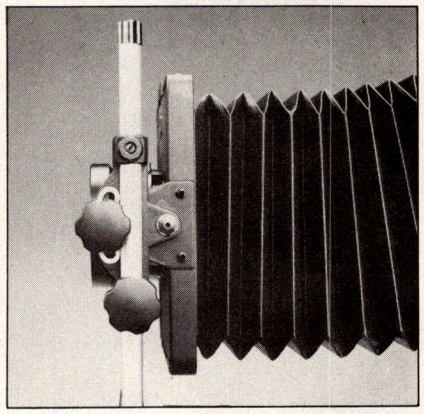
Extra large 6⅜" lensboard accommodates nearly all lens sizes. Positive slide lock system for convenient removal of lensboard and interchangeable bellows.



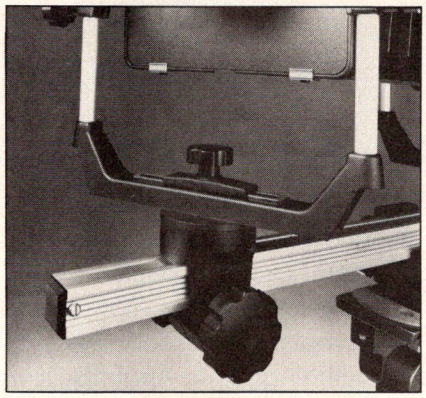
Revolving back revolves 360° with locking detents at horizontal and vertical positions. Composition can be quickly aligned without moving camera.



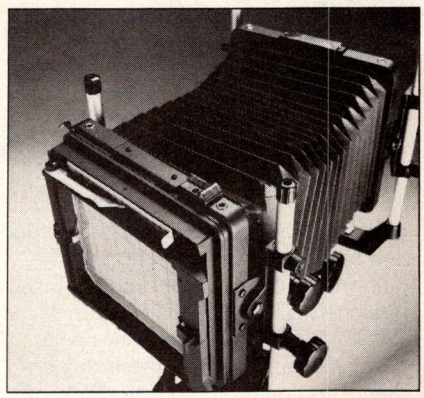
Camera movements are identical front and back allowing for complete perspective and depth of field control. Long monorail provides 18" bellows extension. Heavy duty metal tripod mount combines with the square monorail for optimum rigidity.



Tilt and swing movements on optical axis. Dual lock knobs for tilt and rise and fall movements. All locking knobs provide maximum stability with minimum pressure.



Easy to use single lock system controls lateral shift and swing movements. Friction drive focusing system on both front and rear standards has tension adjustment for smooth positive operation. Focus lock mechanism provides maximum locking without focus creep.



International back accepts standard sheet film holders, Polaroid 545, 550, 405 backs, and Calumet C-2 roll film holders without removing ground glass. Also accepts Horseman and other international roll film backs and accessories with use of international slide locks. Dual axis spirit levels for horizontal and vertical camera alignment.

Specifications subject to change without notice.

Calumet 540W and 540L View Cameras

Calumet 540W

This Wide Field 4 x 5" view camera is ideal for architectural, interior, and landscape photography where short focal-length lenses and maximum view camera movements are required.

SPECIAL FEATURES:

- Flexible bag bellows.
- Short, portable 11½" monorail.
- Full view camera movements.
- Complete compatibility with the entire Calumet/Cambo accessory system.

SPECIFICATIONS:

- Minimum bellows extension: 2 7/16" (with recessed lensboard and tripod block mounted behind rear standard).
- Maximum bellows extension: 9⅛" (with flat lensboard).
- Other camera movements are the same as the Calumet 540 standard view camera.
- Weight: 7 lbs. 4.5 oz.

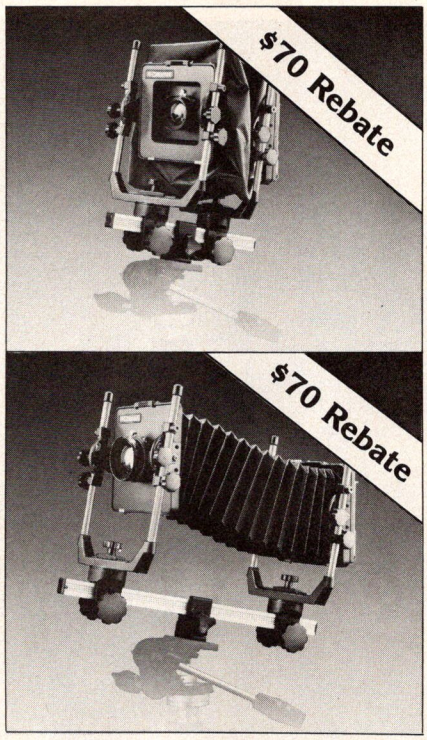
Calumet 540W 4 x 5 Camera

Includes camera body, bag bellows, tripod mount, and ground glass. Lens and lensboard not included.

CC5402 . . . . . Catalog Price **$299.95**

Less Rebate **$70.00**

Now Only $229.95*



Calumet 540L

This long monorail view camera is designed expressly for closeup and macro applications which require longer focal-length lenses and extended bellows draw.

SPECIAL FEATURES:

- Extra long 22" monorail.
- Full view camera movements.
- Complete compatibility with the entire Calumet/Cambo accessory system.

SPECIFICATIONS:

- Maximum bellows extension: 22½".
- Other camera movements are the same as the Calumet 540 standard view camera.

Calumet 540L 4 x 5 Camera

Includes camera body, bellows, tripod mount, and ground glass. Lens and lensboard not included.

CC5404 . . . . . Catalog Price **$269.95**

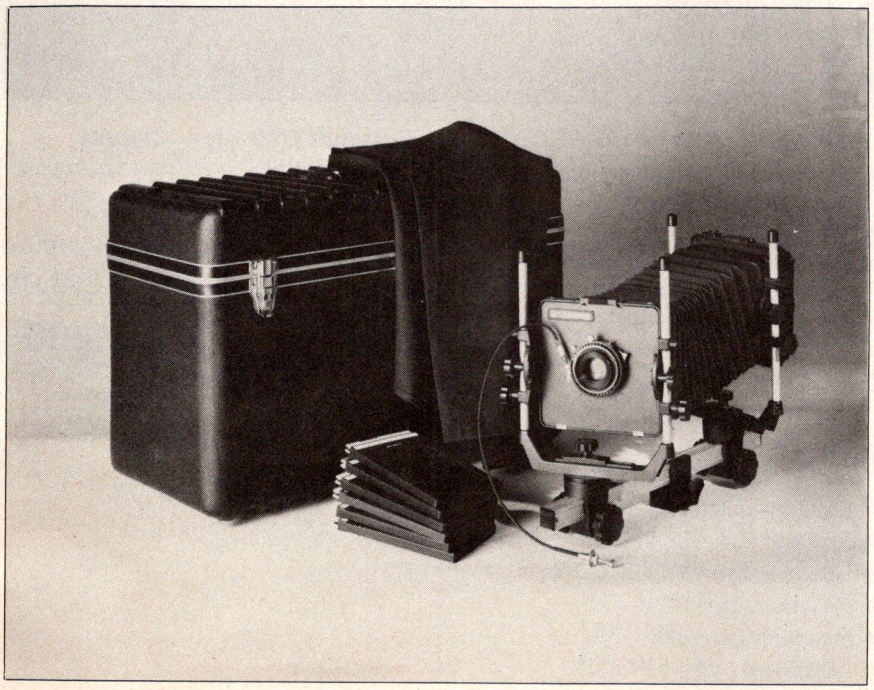
Less Rebate **$70.00**

Now Only $199.95*

*Offer expires Sept. 30, 1985

Free lensboard and lens mounting with purchase of any large format lens.

Calumet 540 Camera Package

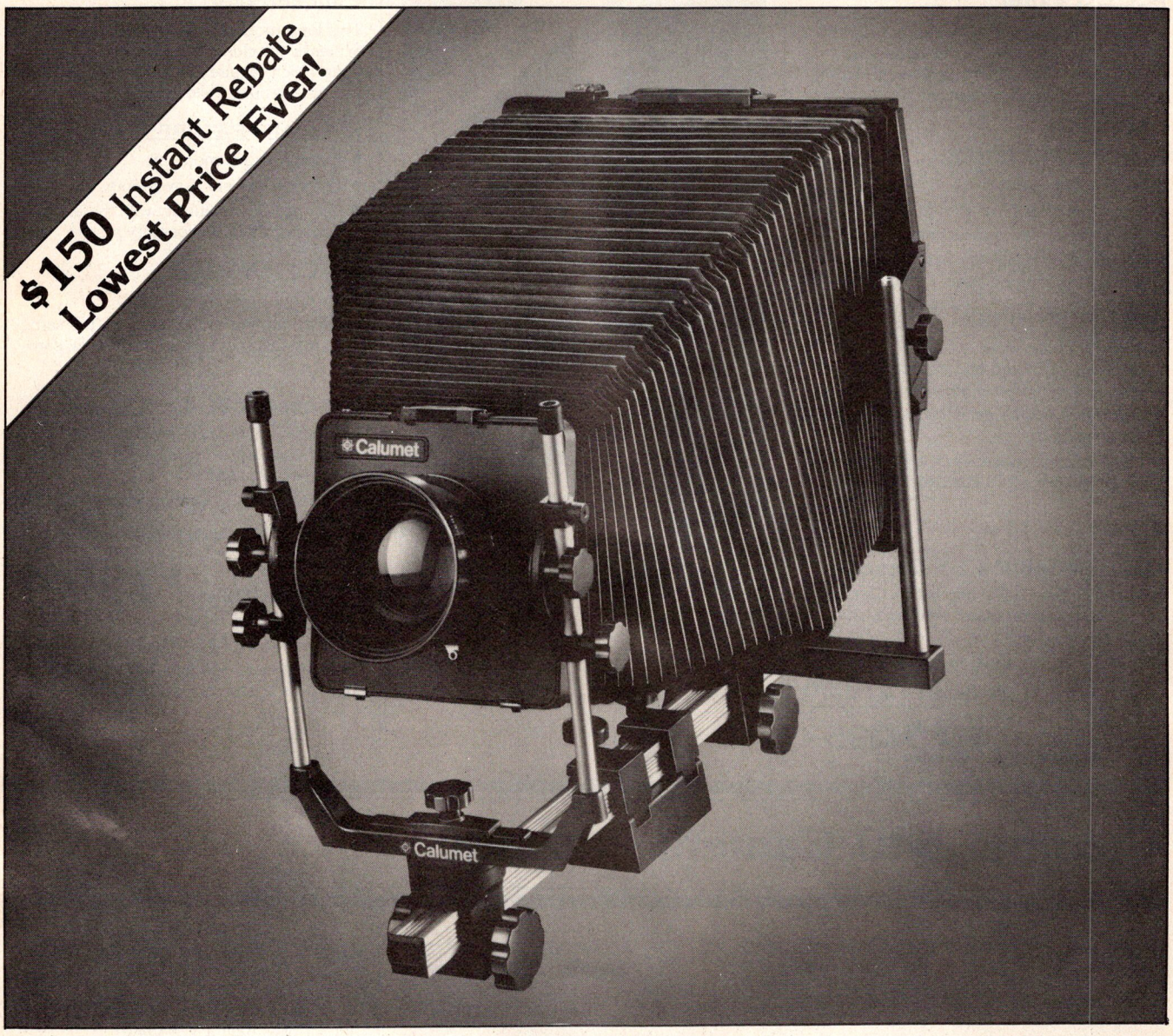


Calumet 540 Package includes:

	Regular Catalog Price
1 Calumet 540 4 x 5 View Camera	**$249.95**
1 Caltar 210E Lens	**$199.95**
6 Lisco 4 x 5 Sheet Film Holders	**$42.00**
1 Calumet Standard Focusing Cloth	**$12.95**
1 Calumet Professional Cable Release	**$12.95**
1 Calumet Deluxe View Camera Case	**$129.95**
1 Calumet Lensboard and Mounting	**N/C**
	$647.75
SAVE OVER 20%	**−$149.75**

Total Package Price $498.00

The Calumet 810 View Camera



The Calumet 810 offers maximum versatillty at a moderate price. You no longer need to spend thousands of dollars for full 8 x 10 flexibility. The Calumet 810 is the newest member of the Calumet/Cambo view camera family, and features the same dependable design, rugged metal construction, and complete accessory selection. Now, for the first time, you can have full studio view camera movements in an 8 x 10 which is also light enough to be a logical choice for field and location work. In the time tested Calumet tradition, here is a camera that outperforms its price.

FEATURES:

- All structural parts made of die-cast aluminum alloy.
- interchangeable bellows
- Flexible Monorail system—monorails from 11.5″ to 30″ are available as well as monorail coupling capabilities.
- Full Systems Capabilities

SPECIFICATIONS:

- Tilts—Front: 30° on optical axis with center detent. Rear: 25° w/detent.
- Swings—Unlimited
- Rise and Fall—Front: 3¾″
- Lateral Shift—2″ Front and Rear
- Maximum Extension—30″
- Minimum Extension—3¾″
- Lensboard Size—6⅜″ x 6⅜″
- Weight—13 lbs. 11½ oz.

Calumet 810 View Camera
Includes: camera body, bellows, tripod mounting block, and ground glass. Lensboard and lens not included.

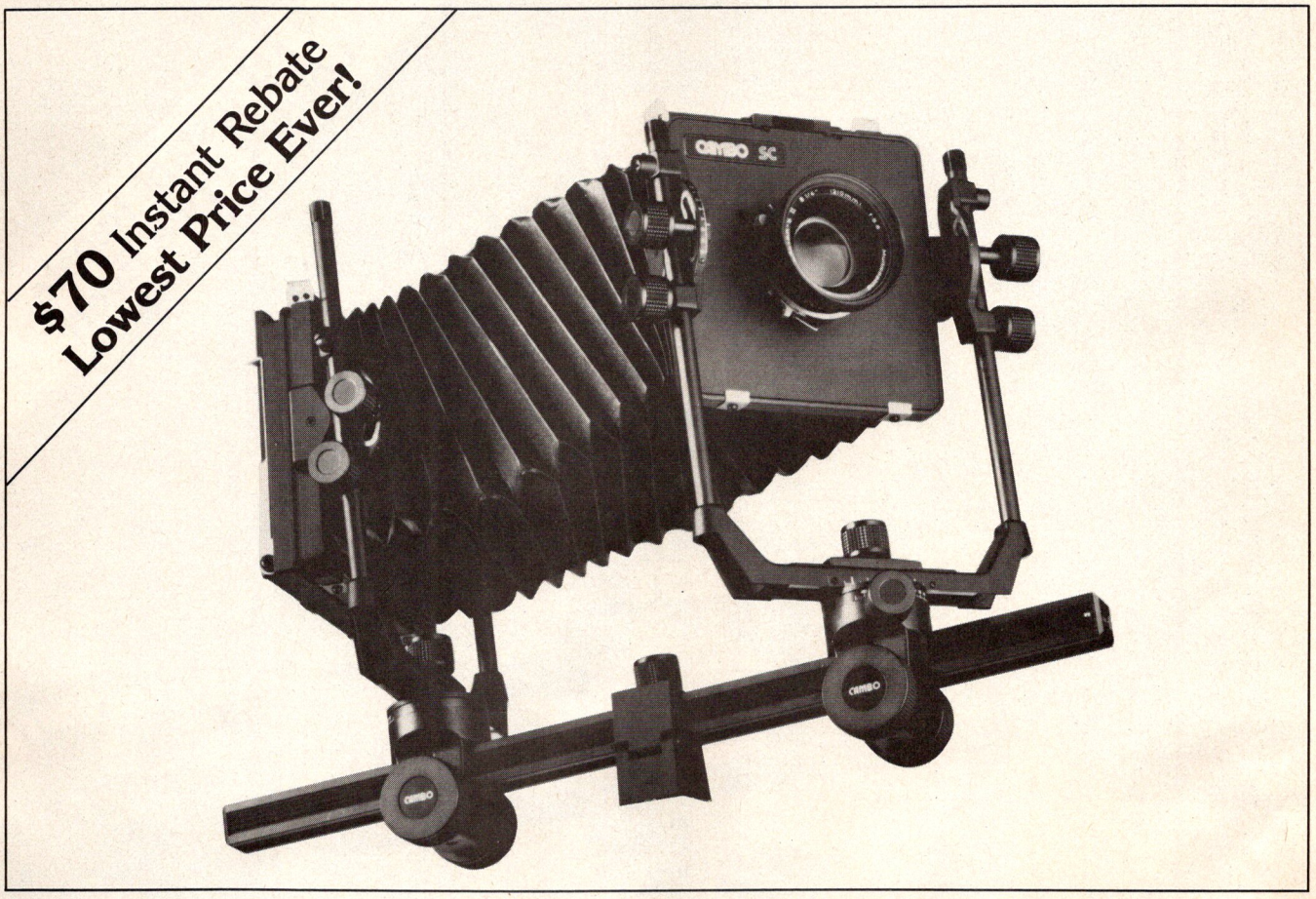
CC8101 . . . . . Catalog Price $899.00

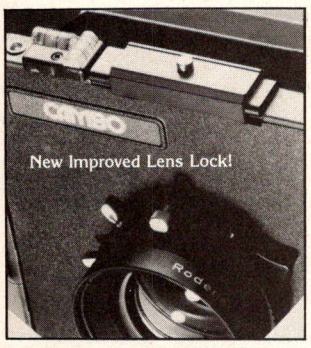
Less Rebate $150.00

Now Only $749.00*

*Offer expires Sept. 30, 1985

The Cambo SCIIR View Camera





Cambo has refined the world famous SCII 4 x 5 view camera for greater ease of operation. The Cambo SCIIR camera utilizes the same basic design as the SCII, but with some new and important refinements. A primary feature of the new system is the revolving back.

The revolving back feature makes the change from vertical to horizontal format safe and easy. No more dropped backs and broken ground glass! Simply release the locking lever and turn to the desired position. Detents are provided for quick location of horizontal and vertical axis.

New larger movement, and focusing knobs are more convenient to use and operate with smooth precision. A cover plate has been designed for added protection of the tilt pivot bearing resulting in a more durable camera. Both the front and rear standards incorporate a new detent system for quick, accurate zeroing of the rise and fall. The SCIIR retains Cambo's traditional all metal construction for maximum stability.

SPECIFICATIONS

- Construction: Die-cast aluminum alloy
- Finish: Non-reflective black
- Tilt: 60° (front and back)
- Swing: Unlimited (front and back)
- Rise and Fall: 95mm (3¾″) front and back
- Lateral Shift: 50mm (2″) front and back
- Maximum Extension: Standard Bellows 500mm (19.7″); unlimited with extension bellows and monorail sections
- Minimum Extension: With recessed lensboard, 47mm (1.9″)
- Lensboard: 162mm x 162mm (6.37″ x 6.37″)
- Split Levels: 4
- Weight: 8 lb. 15 oz.

Free Lensboard and Lens Mounting
with purchase of any large format lens.

LIST OF FEATURES

- systems capability from 6 x 9cm to 8 x 10
- interchangeable bellows and monorail sections
- international ground glass back, with cm square calibrations
- reversible front and rear standards
- positive locking controls
- four spirit levels for convenient alignment
- click-stop detents

Cambo SCIIR View Camera

Includes: Camera body with bellows, tripod mount, revolving back, and ground glass. Lens and lensboard not included.

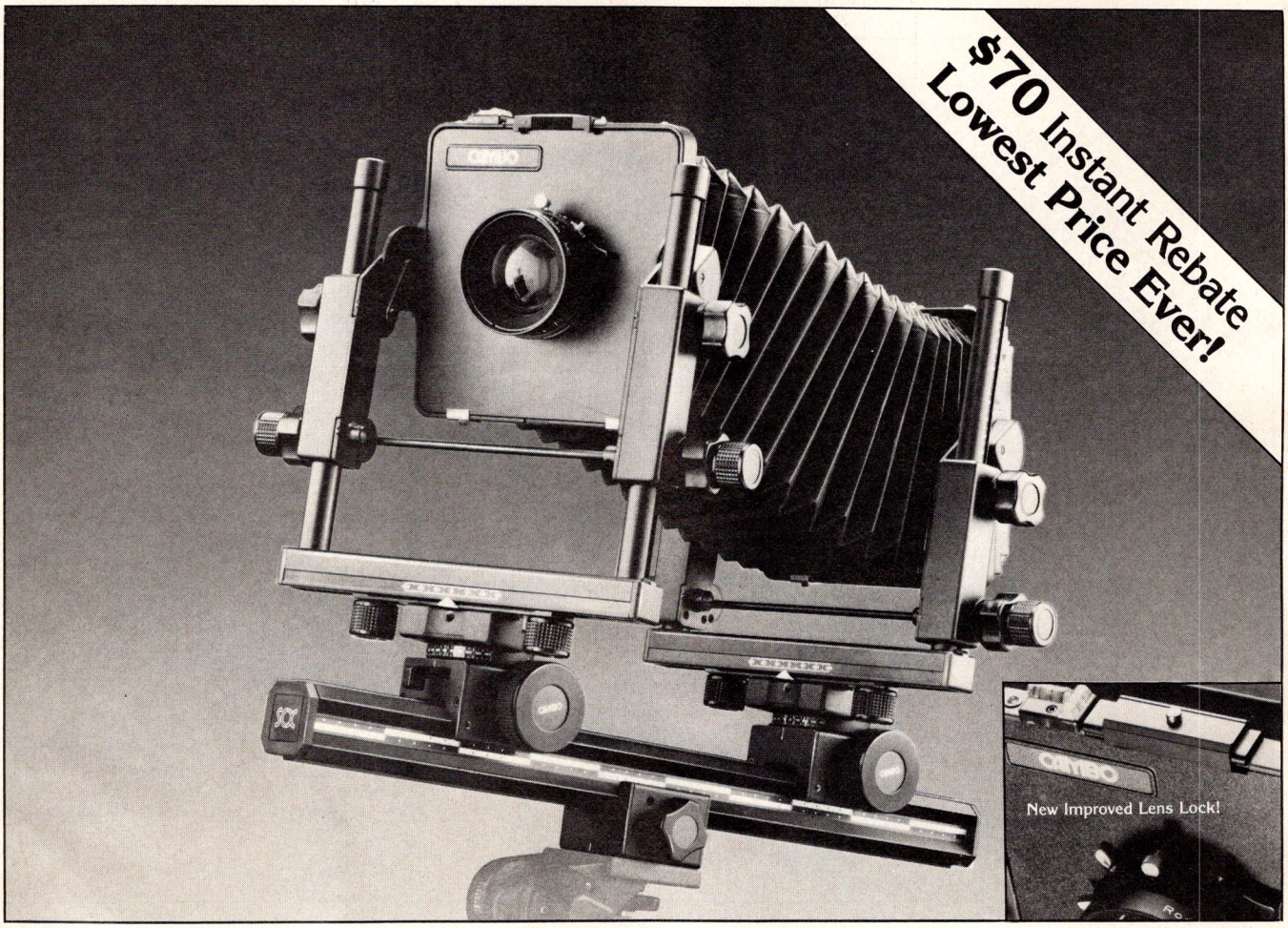
CB0198 . . . . . **Catalog Price $369.95**

Less Rebate $70.00

Now Only $299.95*

*Offer Expires Sept. 30, 1985

The Cambo SCX 4 x 5



Cambo SCX

Designed for even the most critical studio photographers, the Cambo SCX offers an optimal combination of quality and performance. The design parameters for the SCX were to provide the highest degree of stability and precision without sacrificing ease of handling. This has been achieved through a totally new monorail and standard system which utilizes Cambo's extensive line of existing backs, accessories and lensboards.

Features:

- New maximum stability, calibrated monorail with precision rack and pinion focusing over the entire length. Coarse sliding focus also provided
- Calibrated lateral shift and swing movements with zero position click stops. New independent precision locking mechanisms
- Precision rack and pinion mechanism for rise and fall and lateral shift, with calibrations and zero position click stops

Prices and specifications subject to change without notice.

- Heavy duty die cast metal construction
- Single-handed operation of rise and fall and tilt movements
- 5 x 7 and 8 x 10 conversion capability
- Revolving back (standard on 4 x 5 model) rotes 360° with zero position click stops can be locked in any position
- Camera backs provided with connection for Prontor Professional Shutter System

Cambo SCX 4 x 5 Specifications:

- Tilt: 70° front and back—front standard tilts on optical axis
- Swing: 40° front and back
- Lateral Shift: 50mm front and back
- Rise and Fall: 100mm front and back
- Maximum extension (standard bellows): 19 in. Unlimited with extension bellows and monorails.
- Minimum extension (with recessed lensboard): 2⅞ in. (73mm)
- Weight: 13 lbs. 6 oz.

Cambo SCX 4 x 5 View Camera

Includes: Camera body with bellows, tripod mount, ground glass. Lensboard and Lens not included.

CB1001 . . . . . Catalog Price **$599.95**

Less Rebate **$70.00**

Now Only $529.95*

*Offer expires Sept. 30, 1985

Free Lensboard and Lens Mounting with purchase of any large format lens.

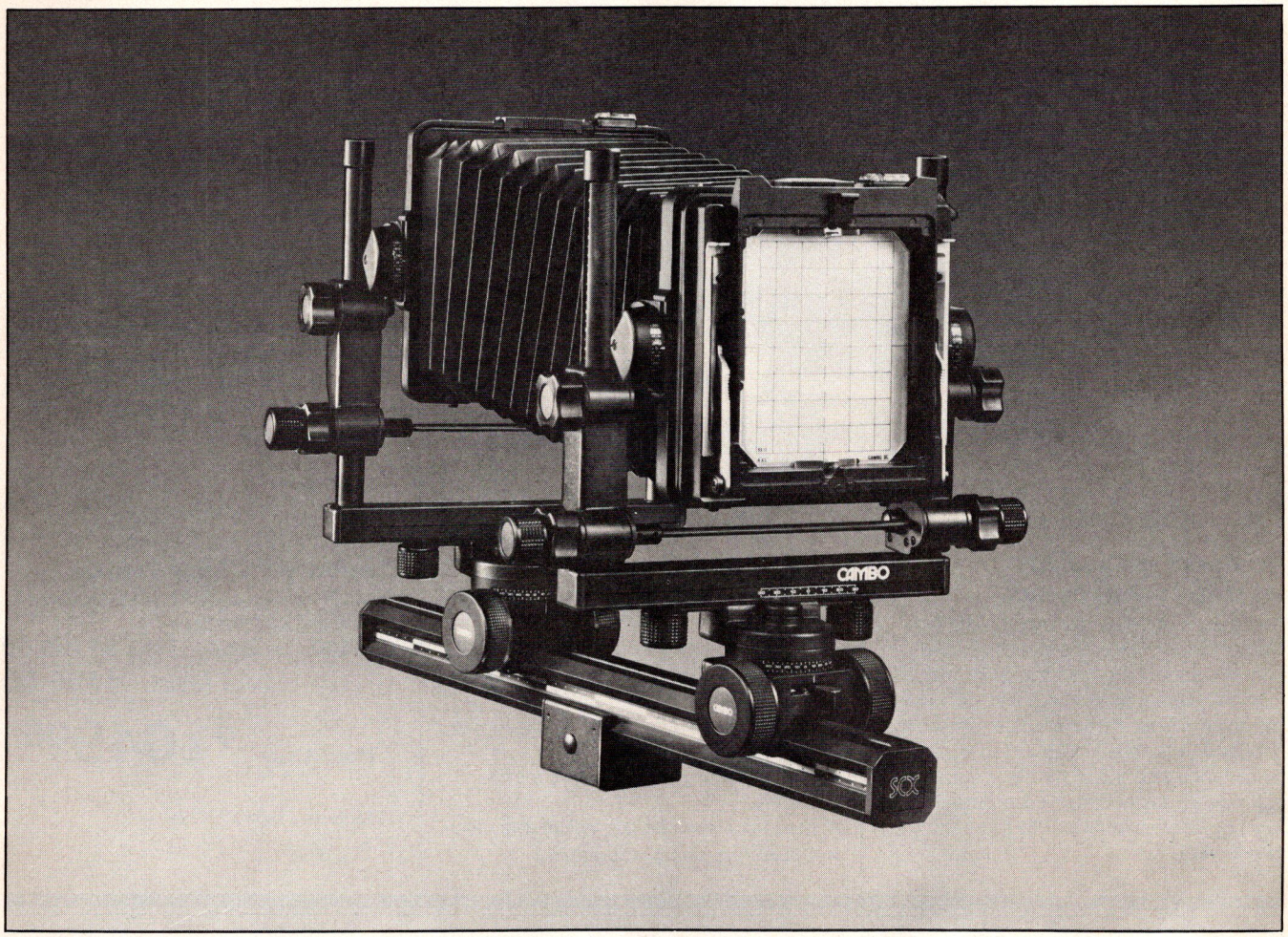
For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

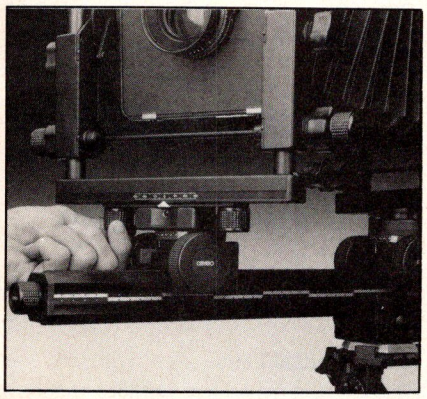
(In Illinois, call: 1-800-225-8601)

Precision Geared Movements

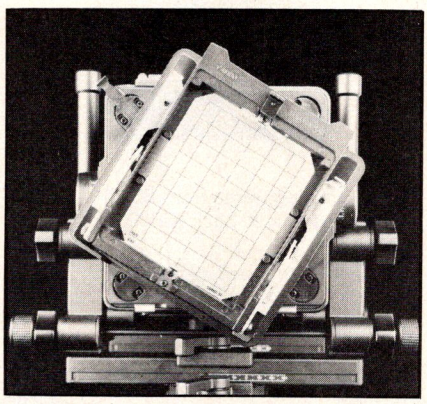


The overall design incorporates a sliding tripod mounting block. Identical front and rear standards for maximum versatility and operating convenience. Wide range of professional accessories available for every application.

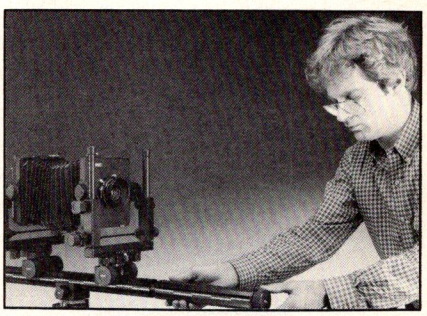
See pages 14 thru 17 of the *Photographer's Catalog* for details of the extensive accessory system for the Cambo SCX.



Massive double "V" monorail provides unprecedented stability. Calibrated in centimeter and 5 centimeter increments. Continuous rack and pinion focus over the entire monorail. Individual swing and shift locks, calibrated in degrees and millimeters.



Built-in 360° revolving back locks in vertical or horizontal position. The international back has built-in provision for the Prontor shutter system. Quick release standard block for easy conversion to 5 x 7 and 8 x 10 formats.



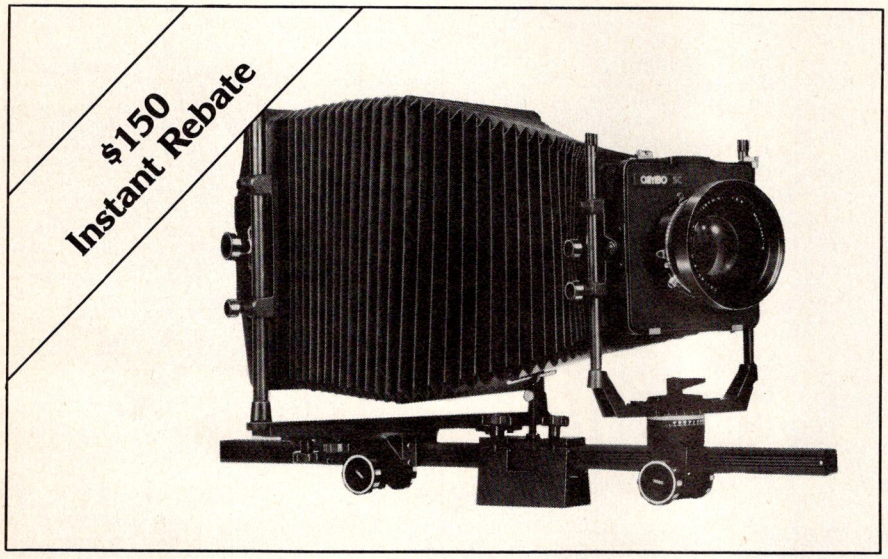
New SCX Monorail Extensions

Available in 25 and 50 cm. lengths, these new extensions attach by simple insertion into the standard SCX rail. Extremely rigid for precision close-up photography.

SCX 25-cm. extension
CB1610 ..... **$89.95**
SCX 50 cm. extension
CB1615 ..... **$99.95**

Prices and specifications subject to change without notice.

Cambo SCIV 8 x 10 View Camera



A superb realization of large format design.

Consistent quality, systems versatility, multi-format flexibility, precision and value have established the SCIV and all Cambo cameras as the finest examples of professional camera development in Holland. It is this dedication to quality, excellence and value that has earned Cambo its justly deserved reputation among professional photographers worldwide.

FEATURES

- Systems capability from 8" x 10" to 6 x 9cm
- Precision engineered metal construction
- Interchangeable bellows and monorail sections
- Factory installed calibration scales for precision movements
- Positive locking controls on all movements
- Four spirit levels for convenient alignment
- Optical axis camera movements
- 8" x 10" spring back with cm square calibration grid
- Non-reflective professional black finish
- Click-stop detents on all movements for easy "zeroing"

SPECIFICATIONS

- Construction: Die-cast aluminum alloy
- Finish: Non-reflective black
- Tilt: 60° (front and back)
- Swing: Unlimited
- Lateral Shift: 50mm (2") front and back
- Rise & Fall: 95mm (3¾") front and back
- Maximum Extension: 705mm,(27.75")
- Minimum Extension: (without recessed lensboard) 105mm (4.13")
- Lensboard: 162mm x 162mm (6.37" x 6.37")
- Spirit Levels: 4
- Swings and Tilts: Optical axis
- Weight: 8.18 kgs (18 pounds)

Cambo SCIV View Camera

Includes: camera body with bellows tripod mount, and ground glass.

CB0400 . . . Catalog Price $1199.00

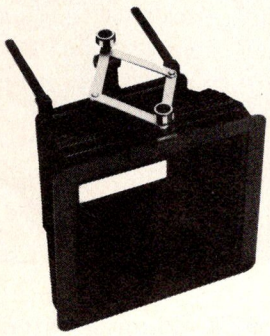
Less Rebate $150.00

Now Only $1049.00*

*Offer expires Sept. 30, 1985.

Calumet Cambo and SCX 8 x 10 Accessories

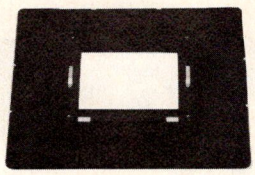
Accessories for Calumet 810, Cambo SCIV and SCX 8 x 10



C339 Compendium, for use with 360mm lens **CB0408** **$269.95**

C326 Wide angle bellow imitation leather
CB0405 . . . . . **$229.95**

C336 Normal bellows for Calumet 810, Cambo SCIV and Cambo SCX 8 x 10
CB0403 . . . . . **$299.95**



C206 Reducing frame from 8" x 10" to 4" x 5", requires 4" x 5" Back (CB0235)
CB0413 . . . . . **$199.95**

Cambo 4" X 5" International Back.
CB0201 . . . . . **$119.95**

Revolving International back 4" x 5"
CB0235 . . . . . **$149.95**

C40 Roll film adapter back fits C206 II
CB0202 . . . . . **$299.95**

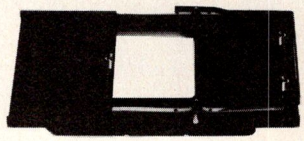
C207 Reducing frame from 8" x 10" to 5" x 7", requires 5" x 7" Spring back (CB0301)
CB0414 . . . . . **$254.95**

C11 Spring back 5" x 7"
CB0301 . . . . . **$189.95**

C39 Aluminum carrying case for Calumet 810 and SCIV only. Inner sizes 79.6 x 43 x 50.5cm **CB0407** **$299.95**

C34 Bracket for focusing cloth
CB0409 . . . . . **$18.95**

C54 Ground Glass, ruled
CB0418 . . . . . **$39.95**



C387 Split back for Calumet 810, SCIV and SCX 8 x 10 (2-5" x 8" on 8" x 10" film
CB0402 . . . . . **$499.95**

8x10 Frensel Lens

This low cost frensel lens provides bright edge to edge viewing. For Calumet 810, Cambo SCIV, and Cambo SCX 8 x 10 cameras. **CB0419** **$99.95**

Lensboards

Flat Lensboard, **CB0508** **$29.95**

Deep-Recessed Lensboard
CB1508 . . . . . **$34.95**

Cambo SCX 8 x 10 View Camera

The quality of the Cambo SCX system is perhaps best demonstrated by the SCX 8 x 10 Camera. Each of the movements operates with the smoothness and precision found on only the finest of view cameras. This precision and ease of operation has been achieved without sacrificing stability, one of the most important factors in view camera construction. In fact, the 8 x 10 Cambo SCX is one of the most stable view cameras available anywhere at any cost. As with the other formats of the SCX system the 8 x 10 camera is very economically priced.

SCX 8 x 10 Features:

- All metal, die cast construction including all knobs and locking levers
- New maximum stability, calibrated monorail with precision rack and pinion focusing over the entire length—coarse sliding focus also provided
- Calibrated lateral shift and swing movements with zero position click stops
- Precision rack and pinion mechanism for rise and fall with calibrations and zero position click stops
- Single-handed operation of rise and fall and tilt movements
- Full system of accessories including reducing and split backs (see page12)
- Built-in Bellows Support

Cambo SCX 8 x 10 Specifications:

- Tilt: 70° front and back—front standard tilts on optical axis.
- Swing: 40° front and back.
- Lateral Shift: 50mm front and back.
- Rise and Fall: 100mm front and back.
- Bellows extension: 738mm maximum. 88mm minimum with recessed lensboard.

Cambo SCX 8 x 10 View Camera

Includes: Camera body, bellows, tripod mounting block, ground glass. Lens and lensboard not included.

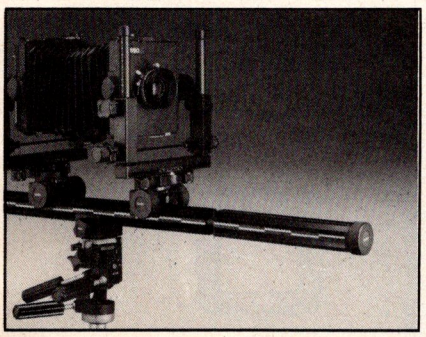
CB1401 . . . . catalog price **$1499.00**

Less Rebate **$150.00**

Now Only $1349.00*

*Offer expires Sept 30, 1985

Cambo SCX Accessories



New SCX Monorail Extensions

Available in 25 and 50 cm. lengths, these new extensions attach by simple insertion into the standard SCX rail. Extremely rigid for precision close-up photography.

SCX 25cm. extension
CB1610 . . . . . **$89.95**

SCX 50cm. extension
CB1615 . . . . . **$99.95**

Tripod Mounting Block
For SCX **CB1600**. **$39.95**

Bellows Connecting Frame
For SCX **CB1630** **$279.95**

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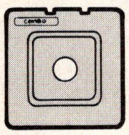
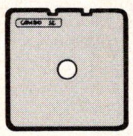
Calumet/Cambo System Chart

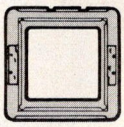
Accessories For All Calumet/Cambo Cameras



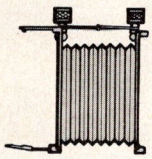
Recessed Lensboard • **CB1508**



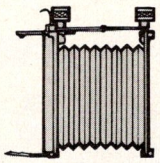
Flat Lensboard • **CB0508**



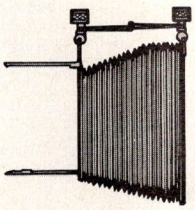
Lensboard Adapter for Horseman/Sinar • **CB0517**
Calumet 4"x4" • **CB0516**



Compendium Lens Shade • **CB0501**



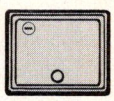
Compendium Lens Shade w/Filter Drawer • **CB0502**



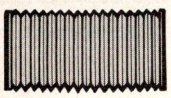
Compendium Lens Shade for 360mm • **CB0408**

Calumet/Cambo 4x5 Accessories

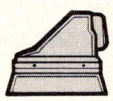
Fresnel Lens (4x5) • **CB0218**



Folding Focusing Hood • **CB0226**

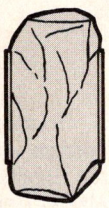


Standard Bellows (4x5) • **CB0207**

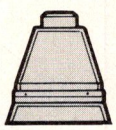


Reflex Viewing Hood • **CB0220**

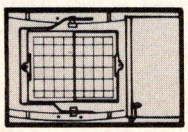
Sliding Roll Film Adapter (not shown) • **CB0202**



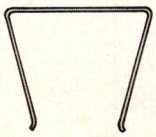
Wide Angle Bellows (4x5) • **CB0209**



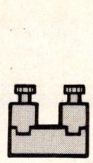
In-Line Viewing Hood • **CB0221**



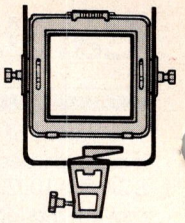
4x5 Split Back • **CB0206**



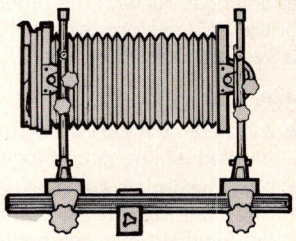
Focusing Cloth Bracket (4x5) • **CB0219**



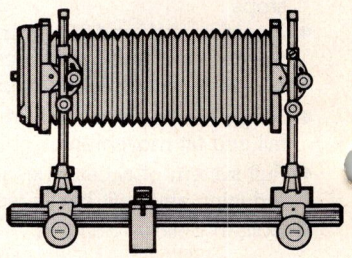
Monorail Connecting Clamp • **CB0522**



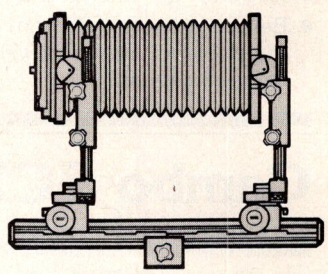
Bellows Connecting Frame • **CB0525**



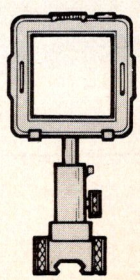
Calumet 540 • **CC5400**



Cambo SCIIR • **CB0198**

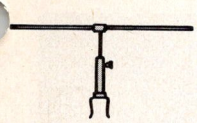


Cambo SCX 4x5 • **CB1001**



Bellows Coupling Standard for SCX • **CB1665**

Calumet 540, 810/Cambo SCIIR, SCIV Accessories

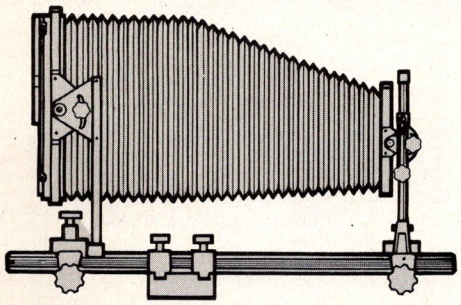


Bellows Support • **CB0406**

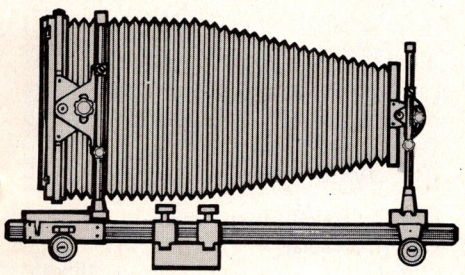
11.5" Monorail • **CB0119**

21.5" Monorail • **CB0311**

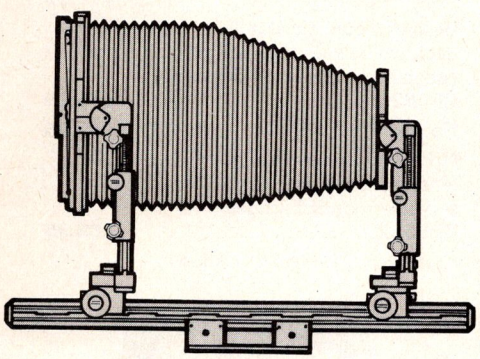
30" Monorail • **CB0411**



Calumet 810 • **CC8101**



Cambo SCIV • **CB0400**



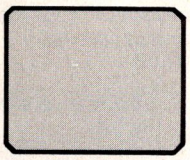
Cambo SCX 8x10 • **CB1401**

Cambo SCX Accessories

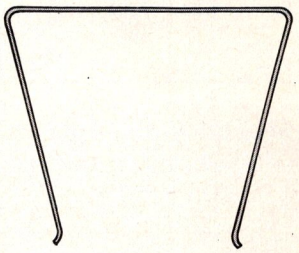
25cm. Monorail Extension for SCX • **CB1610**

50cm. Monorail Extension for SCX • **CB1615**

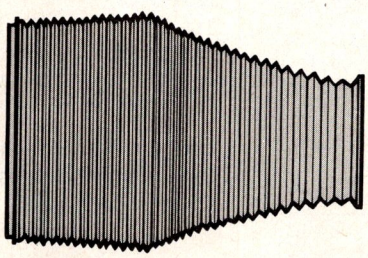
Calumet/Cambo 8x10 Accessories



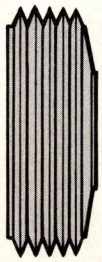
Fresnel Lens (8x10) • **CB0419**



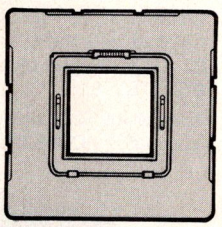
Focusing Cloth Bracket (8x10) • **CB0409**



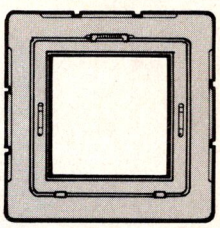
Standard Bellows (8x10) • **CB0403**



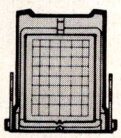
Wide Angle Bellows (8x10) • **CB0405**



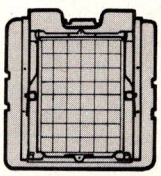
4x5 Reducing Frame • **CB0413**



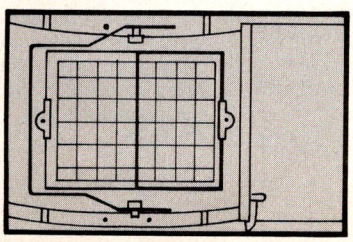
5x7 Reducing Frame • **CB0414**



4x5 International Back • **CB0201**

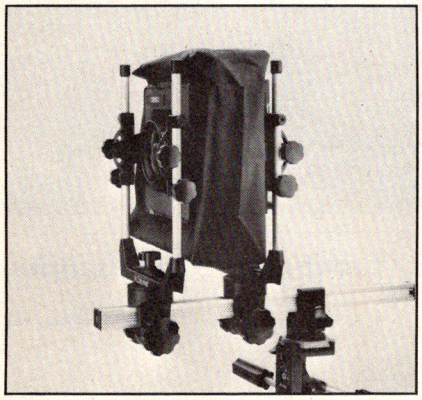


5x7 Spring Back • **CB0301**



8x10 Split Back • **CB0402**

Calumet 540 and Cambo SC Accessories



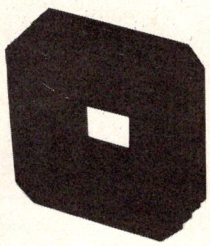
Special Wide Angle Package

Add a wide angle lens with recessed lensboard and this accessory kit to your Calumet 540 or Cambo 4 x 5 camera to make a full featured Wide Angle 4 x 5 View Camera. This combination will allow for convenient operation of movements to the full extent of the lens coverage, making the camera ideal for architectural and interior photography.

Wide Angle Package includes:

- Wide Angle Bellows
  CB0209 . . . . . **$129.95**
- 11.5 in Short Monorail
  CB0119 . . . . . **$44.95**
- Fresnel Lens
  CB0218 . . . . . **$34.95**

Reg Component Price **$199.85**
Less Package Discount **49.90**
Complete Package **$149.95**



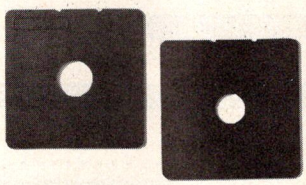
Wide Angle Bellows

Commonly referred to as a "bag bellows," the wide angle bellows is used with lenses 90mm or shorter in focal length. The special flexible design permits full use of all movements when using these short lenses. The wide angle bellows may also be used for normal lenses up to 150mm focal length if close up photography is not desired. The addition of a short 11.5 in. monorail with the wide bellows makes a compact, full movement view camera ideally suited for field work with short lenses.

Wide Angle Bellows made of durable, synthetic construction. **CB0209** **$129.95**

Leather Wide Angle Bellows with genuine leather construction. **CB0208** . . . **$199.95**

Wide Angle 11.5 in. Monorail.
CB0119 . . . . . **$44.95**



LENSBOARDS

Flat Lensboard

For lens focal lengths of 135mm or longer (00 copal opening)
CB0508 . . . . . **$29.95**

Recessed Lensboard

For lens focal lengths of 90mm or shorter (00 copal opening)
CB1508 . . . . . **$34.95**

Free Lensboard and Lens Mounting
with purchase of any large format lens.

New! Swivel Cable Release Adapter

This is the newest and best device we have found to attach cable releases to lenses in recessed lensboards. Also ideal for air releases. **CB2400** **$14.95**

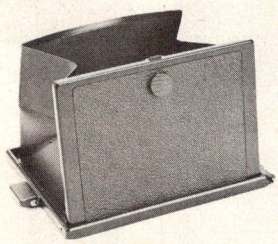
Flextip Cable Releases for Recessed Lensboards

10" flextip **CC9055** **$9.95**
20" flextip **CC9056** **$12.95**

Lensboard Adapters

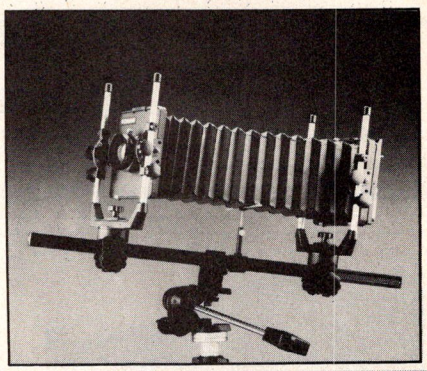
Adapter for Calumet 4 x 4 Lensboards. Will adapt the standard 4 x 4 lensboards from Calumet Series 400 cameras to fit the New Calumet 540 and Cambo SC cameras. Not for use with 4 x 4 recessed lensboards.
CB0516 . . . . . **$39.95**

Adapter for Sinar or Horseman 4 x 5 lensboards **CB0517** **$189.95**



Calumet 540/Cambo Folding Focusing Hood

Ideal for location photographer or in situations where a focusing cloth is not practical. When the focusing hood is extended, it provides enough shading for good ground glass viewing under most conditions, especially when used in conjunction with a fresnel screen. When folded, the hood literally takes up no extra space when stored on the back of the camera.
CB0226 . . . . . **$59.95**



Extension Bellows Kit*

Use this extension kit with a Calumet 540 or Cambo SCII camera for close up photography up to 2.5 times magnification with a 210mm lens.

Extension Kit Includes:

- Extra Long 30° Bellows
  CB0205 . . . . . **$139.95**
- 30" Monorail*
  CB0411 . . . . . **$79.95**
- Bellows Support*
  CB0406 . . . . . **$49.95**

Reg. Component Price **$239.85**
Less Package Discount **49.90**
Complete Package **$189.95**

Close Up Accessories

21.5 in. Monorail*
CB0311 . . . . . **$69.95**

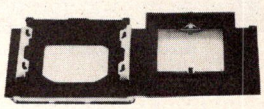
Extra Long 30 In. Monorail* Permits maximum extension of normal bellows to 24 in. Further extension requires additional bellows. **CB0411** **$79.95**

Bellows Coupling Standard* Used to connect two bellows together for high magnification and close up photography.
CB0525 . . . . . **$179.95**

Normal 4 x 5 Bellows **CB0207** . . . **$89.95**

Monorail Connection Clamp* Used to extend monorail length by connecting two separate monorails together.
CB0522 . . . . . **$89.95**

*Not compatible with SCX cameras



Sliding Roll Film Adapter

Allows the photographer to change from ground glass viewing to film ready position by simply sliding the back. Back adapter rotates for either vertical or horizontal use.
CB0202 . . . . . **$299.95**

4 x 5 Dividing Back

Provides a means of taking two separate exposures side by side on one 4 x 5 film.
CB0206 . . . . . **$399.95**

Calumet 540 and Cambo SC Accessories

Compendium Lenshood/ Filter Holder

The Compendium Lenshood/Filter Holder is indispensable to the serious photographer. It can actually improve image quality by reducing flare caused by stray light entering the lens. The flexible bellows allows the hood to be adjusted for maximum shading effect.

The Gel filter holder is adjustable so that the filter may be positioned relative to the front of the lens. Metal filter frame for standard 4 x 4 gel filters is included. 3 x 3 filters may be used by placing them in Calumet 4 x 4 filter frames for 3 x 3 filters (CC9036).

Compendium Lenshood/Filter Holder.
CB0502 . . . . . **$159.95**

Metal 4 x 4 in. Gel Filter Frame (replacement) **CB0503** **$24.95**

Calumet 4 x 4 Filter Frames for 3 x 3 Gel Filters. Pack of 24 **CC9036** **$15.95**

Compendium Lenshood

Similar to the Compendium Lenshood/ Filter Holder, but without filter holder.

Compendium Lenshood
CB0501 . . . . . **$119.95**

Reflex Viewing Hood

The Reflex Viewing Hood is designed to make viewing image on the 4 x 5 ground glass more convenient. When used with the fresnel lens, the Reflex Viewing Hood allows the entire image area to be viewed from one position without moving the head from corner to corner. An added benefit is that the image appears right side up which can make composition easier.

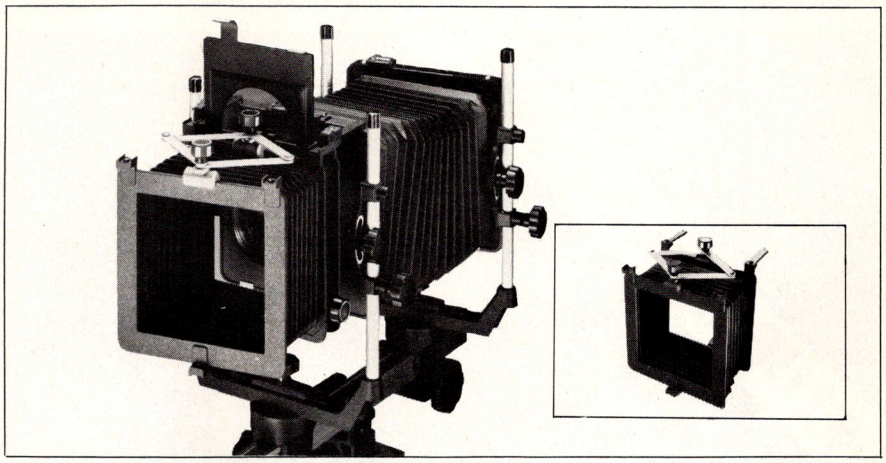
The Reflex Viewing Hood features a unique rotating design which allows it to be used in either the horizontal or vertical position without being removed from the camera back. Compact, lightweight (only 10 oz.) construction permits the user to leave the hood on the camera while inserting a film holder. The monocular type 2.5 x eyepiece is protected by a soft rubber eye cup for comfortable use with or without eyeglasses. Size: 5½ x 5½ x 4½ in.

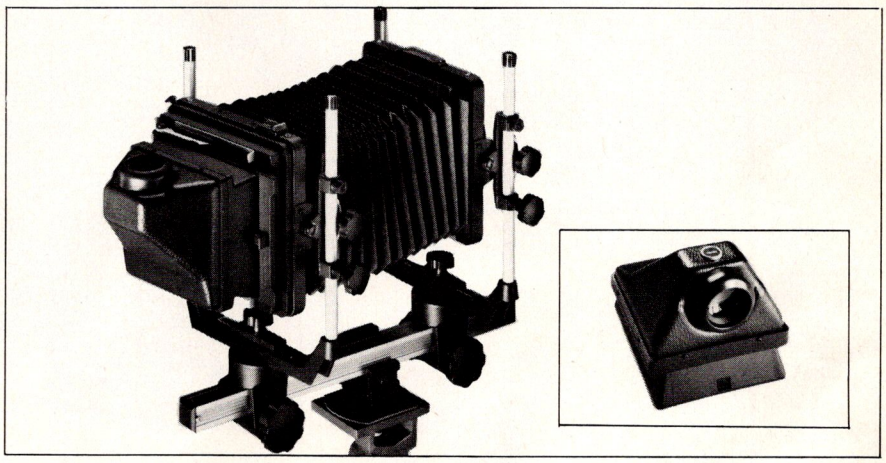
Reflex Viewing Hood
CB0220 . . . . . **$139.95**

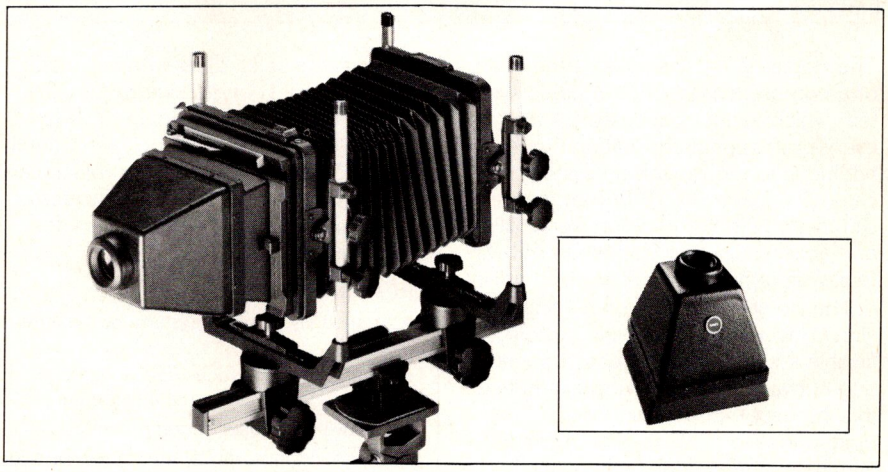
New Super Sharp Focusing Screen

The new Calumet Super Sharp screen is the sharpest view camera focusing screen we have ever tested. When combined with a fresnel screen the Super Sharp produces an extremely bright and incredibly sharp image. Even under focusing lupe magnification, there is practically no grain and no annoying fresnel lines to destroy critical detail. The Super Sharp Screen must be used with the fresnel lens for best results. Super Sharp Screen for current Calumet/Cambo 4 x 5 cameras
CB0250 . . . . . **$69.95**

Save $15.00 purchase both the Super Sharp Screen and the Calumet/Cambo Fresnel lens. Both for only $89.90







In Line Viewing Hood

An excellent alternative to the conventional focusing cloth is the In Line Viewing Hood. When using the In Line Viewing Hood the image will appear reversed and upside down as it normally does on the ground glass. Use of the fresnel lens with the In Line Viewing Hood permits the photographer to view the entire 4 x 5 image area from one position directly behind the camera. Size: 5½ x 5 x 6 in. Weight: 8 oz.

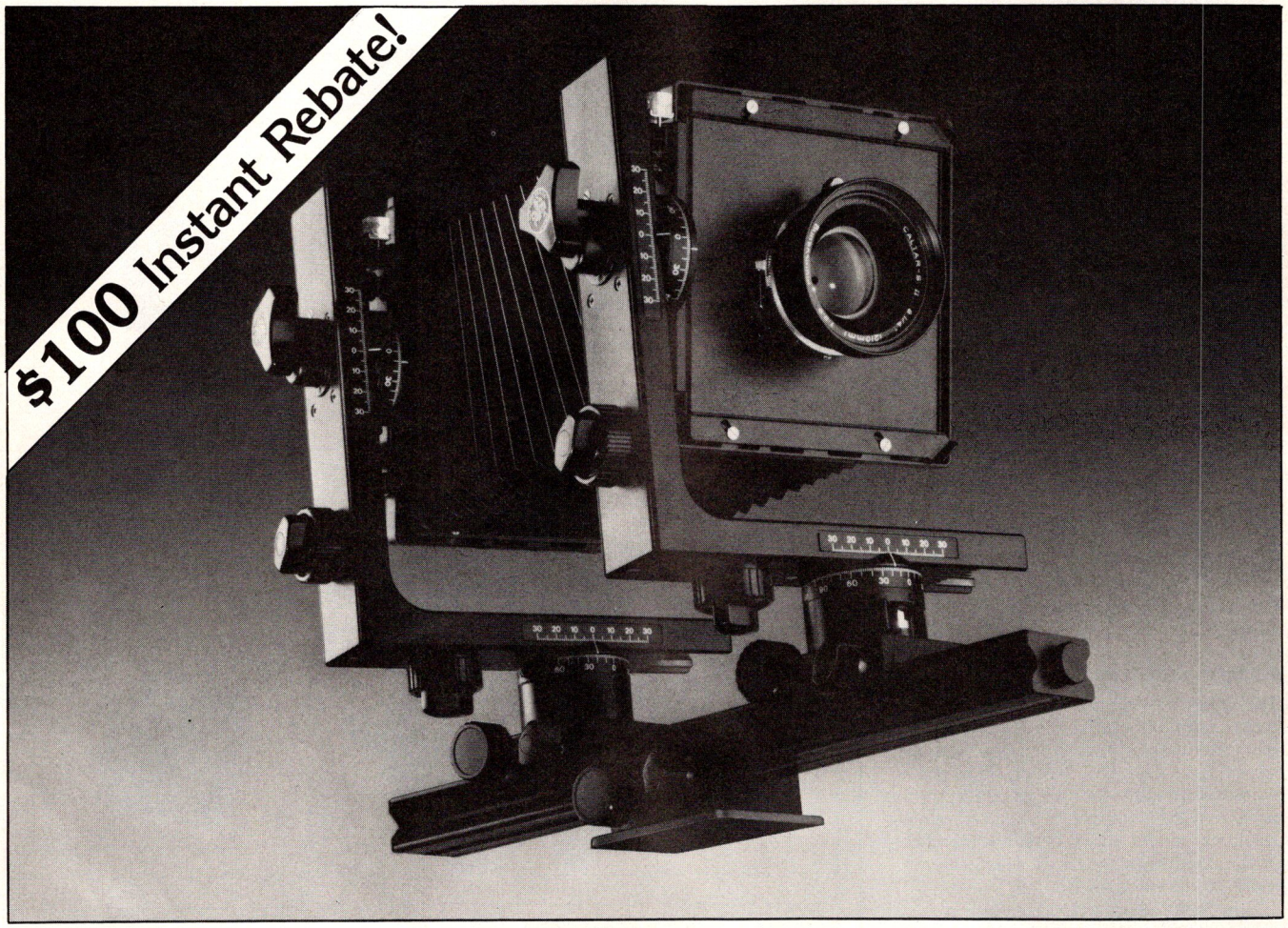
In Line Viewing Hood
CB0221 . . . . . **$99.95**

Fresnel Lens

The Fresnel Lens is necessary for use with either the In Line or the Reflex Viewing hoods. It should also be used with a focusing cloth for brighter full area viewing. The Fresnel Lens is snapped onto the outside of the ground glass using the ground glass retaining clips.

Fresnel Lens
CB0218 . . . . . **$34.95**

The Horseman 450 4 x 5 View Camera



The Horseman 450 serves as the heart of a comprehensive photographic system which includes accessories for every professional application. Recent additions to the Horseman system include 5 x 7 and 8 x 10 format conversion sets. With its precision, versatility and accessories, the Horseman 450 virtually offers performance beyond price.

The Horseman 450's underlying design concept was to provide a most flexible system of unsurpassed operating convenience. A striking example of this concept can be found in the unique focus retention system which eliminates the need for refocusing when the film plane is tilted or swung, because the swing and tilt axis remain on the film plane. The fact that all controls can be conveniently assembled on either the left or right hand side also points out this overriding concern with increased operating efficiency.

From the solid, diecast tripod block and the rigid H-on-its-side monorail with double rack and pinion drive to the positive positioning locks and duplicated, clearly legible white-on-black calibration scales, every detail indicates painstaking concern with truly professional standards.

FEATURES

- Rugged "L" support system for maximum stability.
- Rack and pinion focus, rise and lateral shift for fluid focusing and movement.
- Positive locks offer fingertip control.
- On-axis swings and tilts designed for minimum refocusing.
- Modular design for quick set-up.
- Uses lenses as short as 65mm without recessed lensboard.
- Movement calibrations are easy to see from the front or back.
- Compact size allows it to be carried in an attache-type case.
- Interchangeable bellows and monorail
- Calibrated monorail

Free Lensboard and Lens Mounting with purchase of any large format lens.

SPECIFICATIONS

- Construction: Die-cast aluminum alloy
- Finish: Non-reflective, matte black
- Tilt: 360° (unlimited)
- Swing: 360° (unlimited)
- Rise and Fall: 60mm (front and back)
- Lateral Shift: 60mm (front and back)
- Maximum Extension: 390mm (15.75")
- Minimum Extension: 60mm (2.36")
- Spirt Levels: 2 (rotating)
- Swings and Tilts: on axis
- Back: International with cm square ruled ground glass
- Weight: 10.6 lbs.

Horseman 450 View Camera

Includes Camera body with bellows, tripod mount, ground glass, and fresnel lens (Lens and lensboard not included.)

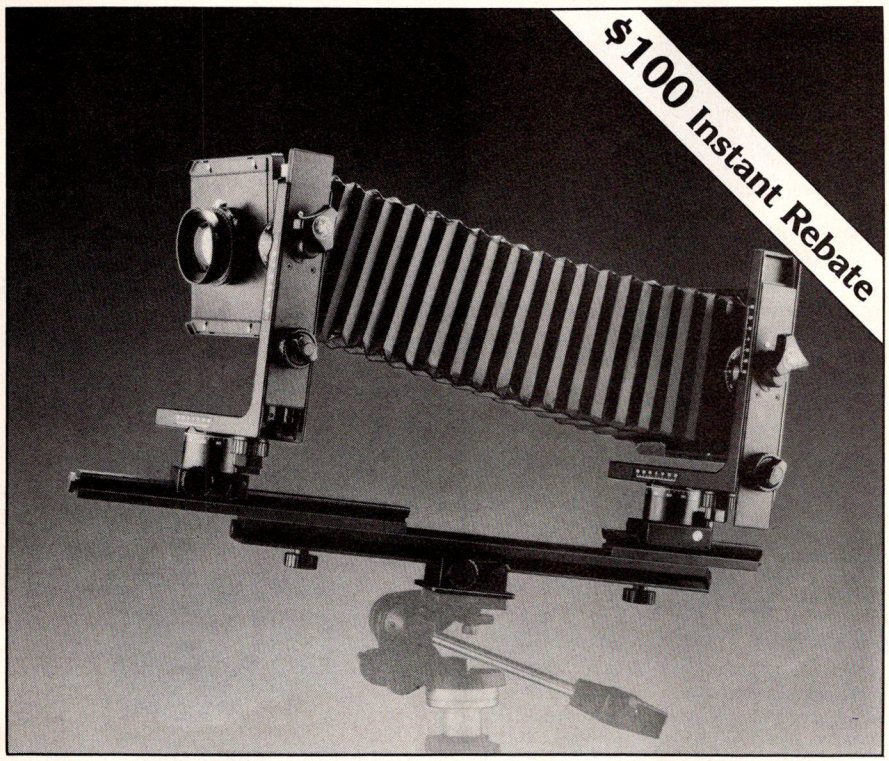
HR4500 . . . . . Catalog Price $899.00

Less Rebate $100.00

Now Only $799.00*

*Offer expires Sept. 30, 1985.

The Horseman 450EM - Expandable Monorail



Horseman 450EM View Camera

The 450EM is ideal for studio photographers who require maximum bellows extensions. This camera offers the unique expandable monorail combined with all of the standard Horseman 450 features. The monorail can be expanded from a standard length of 500mm to an extended length of 700mm. The normal bellows is capable of 22in. of extension, therefore the addition of the accessory extra length bellows may be desired.

Horseman 450EM View Camera

Includes: Camera body with bellows, tripod mount, ground glass, and, fresnel lens. Lens and lensboard not included.

HR4505 Catalog Price **$999.00**

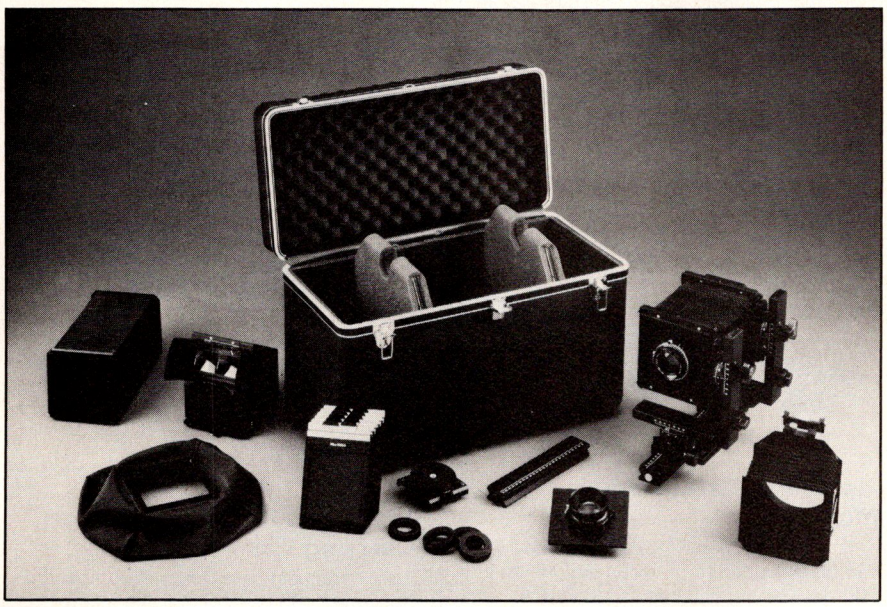
Less Rebate **$100.00**

Now Only $899.00*

*Offer expires Sept. 30, 1985.

Extra Long Bellows 28in. maximum extension **HR4605**..... **$189.95**

Horseman Image Builder



The Horseman 450, Plus . . . All You Need to Get the Picture

At $2695, the Horseman Image Builder includes the remarkable Horseman 450 Extendible Monorail camera, which has most of the features found on the world's most expensive view cameras, including on axis film plane tilts and swings. Included in the package is an impressive complement of accessories to meet the needs of nearly every studio photographer—including two lenses which, after all, really create THE image.

The Horseman Image Builder includes the following:

- Horseman 450EM 4 x 5 camera
- Fresnel Screen
- Folding Focusing Hood
- Wide Angle Bellows
- Extended Length Bellows
- Binòcular Reflex Viewer
- Calumet Deluxe View Camera Case
- Driving Aids (4)
- Lens Shade with Filter Drawer
- Short 9.75 in. Monorail
- Quick Mount Shoe
- Lisco 4 x 5 Film Holders (6)
- Lensboards and Mounting (2)

AND your choice of one of the following two-lens packages:

- Schneider—210mm f5.6 Symmar S with 90mm f8 Super Angulon
- Rodenstock—210mm f5.6 Sironar N with 90mm f6.8 Grandagon
- Nikkor—210mm f5.6 W with 90mm f8 SW

Total Package Price $2695.00

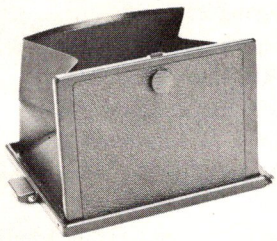
Horseman 450 Accessories

Much of the appeal of a view camera lies not only in the camera itself, but also in its accessories which complete the system. The Horseman 450 is fast becoming recognized as the best value in an ultra-sophisticated system view camera. Supporting this system is a wide range of practical and useful accessories.

Horseman Bellows Lens Shade with Filter Holder.

Considered by many to be the most important view camera accessory, the compendium lens shade is the only accessory that can have a direct effect on image quality. The Horseman bellows lens shade is one of the lightest compendiums available for any view camera. Its compact size when folded also means that it takes up minimal space in the accessory case. The mounting hardware is very positive, yet the convenient hinge design makes it extremely easy to flip up the shade to make lens adjustments and cock the shutter. The shade is supplied with three different filter masks for 3 x 3, 4 x 4, and 5 x 5 gel filters. The front of the shade is also slotted for use as a matte box or for additional special effect filters. The shade will accommodate lenses up to 125mm in dia.

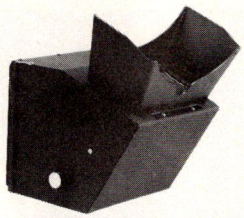
Horseman bellows lens shade and filter holder
HR4640. . . . . **$229.95**



Horseman Folding Focusing Hood

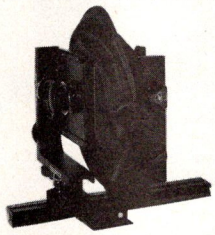
The Horseman folding focusing hood is an excellent accessory for the location photographer. It is operated much the same way as the folding hoods on the old Graflex type cameras. When extended the hood provides enough shading for good ground glass viewing under most conditions, especially when used with a Fresnel screen. When folded the hood literally takes up no extra space when stored on the back of the camera making it ideal for those using the Horseman attache carrying case. The folding focusing hood is also hinged so that it can be swung out of the way while a lupe is easily placed on the ground glass for precise focusing without removing the entire hood.

Horseman folding focusing hood
HR4609. . . . . **$69.95**



Horseman Mirror Reflex Viewer

Eliminates the need for a focusing cloth Full vision viewing binocular system with 1.5X magnification. Lets you view ground glass image right side up. Adjustable mirror for optimum image brightness.
HR4610. . . . . **$239.95**



Horseman Wide Angle Bellows

The wide angle or "bag" bellows is used with lenses 90mm or shorter in focal length. This bellows is especially suited for architectural and interior photography where short lenses and maximum movements are necessary. An ideal companion accessory to the wide angle bellows is the 9.75 in. short monorail.
HR4606. . . . . **$139.95**

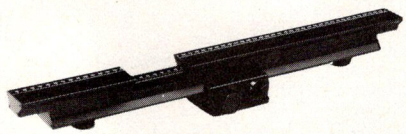
Horseman 9.75" Short Monorail
HR4684. . . . . **$69.95**

Horseman Standard Square Bellows—22 in. maximum extension
HR4603. . . . . **$149.95**

Horseman Extra-Long Bellows

28" maximum extension
HR4605. . . . . **$189.95**

Horseman Bellows Connecting Frame
HR4627. . . . . **$179.95**



Horseman Extendable Monorail

This unique monorail for the Horseman 450 can be expanded from a standard length of 500mm (20") to an extended length of 700mm (27¼"). Ideal for close-up and macro photography. Note: The normal bellows is capable of 22" of extension, therefore the addition of a bellows coupling standard and an extra bellows may be desired.
HR4619. . . . . **$179.95**

Horseman Lensboard

Horseman Lensboard for 450, 570, 810.
HR4695. . . . . **$29.95**

Horseman 450 Adapter Lensboards

Accepts Calumet 4" x 4" Flat Lensboard
HR4698. . . . . **$109.95**

Accepts Linhof Technika and Wista 45 DX Lensboards
HR4696. . . . . **$139.95**

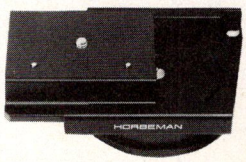
Accepts Horseman VH-R Lensboard
HR4697. . . . . **$139.95**

Ground Glass

Horseman standard ground glass
HR4612. . . . . **$19.95**

Horseman aerial image ground glass
HR4615. . . . . **$114.95**

Horseman Fresnel focusing screen
HR4616. . . . . **$49.95**



Horseman Quick Shoe

Heavy Duty Rapid Tripod Mounting System. Quick shoe with adapter.
HR4800. . . . . **$99.95**

Cases for Horseman 450

For complete information on these view camera cases, and others, turn to pages 32 and 33 of this catalog.

Calumet Deluxe View Camera Case

For details on this versatile and durable case, see page 33.
CC4525. . . . . **$129.95**

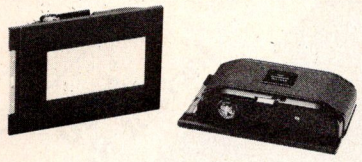
Horseman Attache Carrying Case

A slim compact case designed to hold the Horseman 450 camera only. Perfect for photographers who prefer 1 case for the camera and a second case for accessories. **HR4650**. **$129.95**

Heavy Duty Aluminum Case for 450

For details on this rugged new case for the Horseman 450, see page 26.
CC4530. . . . . **$229.95**

Horseman 450 Accessories



Horseman Roll Film Holders for cameras with 4 x 5 International "Graflock" System

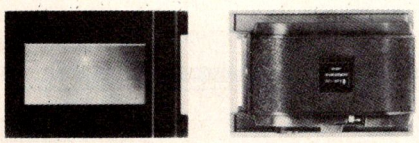
Horseman roll film holders combine the creativity of view camera movements with the economy and convenience of roll film. These precision made backs are not only an excellent match to the Horseman 450, but are also usable on any camera designed with the 4 x 5 international locking system. The roll film holders are available in 6 x 7 and 6 x 9cm sizes in both 120 and 220 film sizes. The newest and possibly most exciting roll film back is the 6 x 12cm 120 holder. This 6 x 12cm roll holder offers new possibilities with its 2:1 width to height ratio. This holder is ideal for wide angle or panoramic use. For example: with a 65mm lens the field of view covers 88 degrees of arc.

Horseman 6 x 7cm 120 Roll Film Holder
HR4637..... **$179.95**

Horseman 6 x 9cm 120 Roll Film Holder
HR4634..... **$179.95**

Horseman 6 x 7cm 220 Roll Film Holder
HR4639..... **$199.95**

Horseman 6 x 9cm 220 Roll Film Holder
HR4638..... **$199.95**

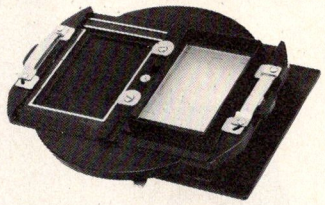


Horseman 6 x 12cm Roll Film Holder

Ideal for architecture, panoramas and shots where narrow vertical or horizontal panels are required. Fits all 4 x 5 cameras with international backs. 6 exposures on 120 roll film. **HR4630**..... **$399.95**

Horseman Split Image Adapter

Makes two separate images on one 4 × 5 film. Features two 135mm f4.5 lenses mounted with integral shutter.
HR4690..... **$499.95**

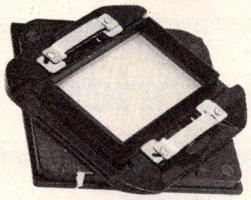


Horseman Rotary Back Model III

The Model III Rotary Back differs from the Model II back in that it is designed specifically for use on the Horseman 450. This dedicated design reduces the rear film plane extension to 18mm. The rotary back is ideal for photographers that make extensive use of roll film. This accessory allows for quick and easy switching from roll film back to ground glass without using a dark slide. The rotary back is supplied with a ground glass screen and utilizes the same 2¼ x 3¼ international lock system as the Horseman VH-R. VH-R accessories such as roll film backs and the optical angle viewer are, therefore compatible. International locking backs of this size other than the Horseman VH-R holders may also be used. For instance, Mamiya RB-67 roll film backs can be utilized although the dark slide must be removed.
HR4633..... **$299.95**

Horseman Rotary Back Model II

Features rotating glass screen and opening for 6 x 9cm international lock accessories. Ground glass rotates into position for easy focusing, then the film holder or roll film back rotates into position for exposure without using dark slide. **HR4632**... **$299.95**

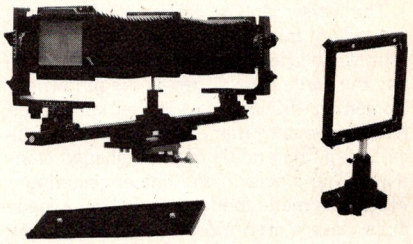


Horseman 6 x 9 Revolving Back

A reducing back from 4″ x 5″ to 6 x 9cm that accepts the following Horseman VH-R accessories: Roll Film backs HR9310, HR9320, 9330, 9340; 6 x 9cm sheet film holder HR9305; Polaroid back HR9360. Supplied with slide lock type 6 x 9cm ground glass back. **HR4649**..... **$239.95**

Horseman Focusing Magnifier

7X magnification with dioptric adjustment. 3 lens element in two groups. Complete with case and neck strap.
HR4611..... **$32.95**



Horseman Extra Long Monorail Conversion Kit

For those requiring high magnification close up capability, the extra long monorail conversion kit is available. This kit contains several components including: a 1 meter long monorail, an additional standard Horseman bellows (390mm), an intermediate bellows connecting frame, 1 additional tripod block, and a support base.

When using the camera in this configuration the original tripod block is used with the additional block to provide the necessary support for such a long monorail. The two tripod blocks are mounted to the support base which is then mounted to the tripod or stand. This arrangement preserves the precise focusing ability of the Horseman 450 by allowing the entire 1 meter rail assembly to be moved, via rack and pinion, back and forth relative to the tripod mounting position. Each of the components of this kit is also available separately.
HR4629..... **$549.95**

Horseman Monorails and Accessories

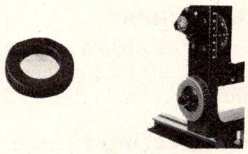
9.75 in. wide angle monorail
HR4684..... **$69.95**

22 in. close up monorail
HR4618..... **$119.95**

1 meter macro monorail
HR4620..... **$169.95**

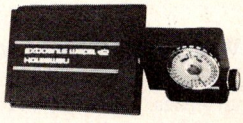
Horseman tripod mounting block
HR4624..... **$49.95**

Horseman Support Base
HR4625..... **$125.95**



Horseman Driving Aid

A black rubber wheel that fits over rise and fall knobs. Provides larger gripping surface for easier operation. Ideal for photographers who have arthritis. **HR4621**..... **$6.95**



Through-The-Lens Exposure Meter

Horseman 4″ x 5″ through-lens optical exposure computer.
HR4680..... **$289.95**

Horseman 8 x 10 View Camera

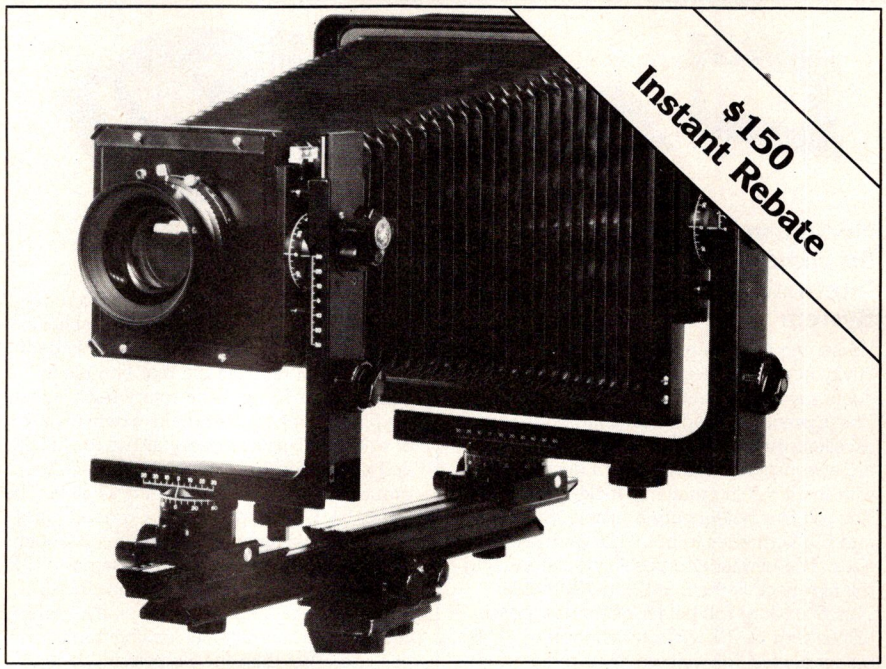
The Horseman Optical Bench View camera system has been expanded to the 8 x 10 format. The Horseman 810 view camera offers the same advantages as the renowned Horseman 450 including Horseman's focus retention system made possible by the optical axis swing and tilt of the L-shaped standards. The precision and fine engineering which has made the Horseman 450 a leader in its class is even more evident in this new, larger model.

Most of the Horseman 450 components and nearly all of its accessories are compatible with the Horseman 810. The modular design permits practical conversion of Horseman 4 x 5 cameras to the 8 x 10 format.

One of the outstanding features of the Horseman 810 is the extendable monorail. This new rail extends from an original length of 500mm to 700mm, and is inter changeable with other Horseman models.

Horseman 810 Features:

- Rugged "L" support system for maximum stability
- Rack and pinion focus, rise and lateral shift for fluid smooth focusing and movement
- Positive locks offer fingertip control
- On-axis swings and tilts designed for minimum refocusing
- Modular design for quick, convenient set-up
- Movement calibrations are easy to see from the front or back
- Interchangeable bellows and monorail sections
- Calibrated extendable monorail



Horseman 810 Specifications:

- Construction: Die-cast aluminum alloy
- Finish: Non-reflective, matte black
- Tilt: 360° (unlimited) on axis
- Swing: 360° (unlimited)
- Rise and Fall: Front—60mm down; Rear—60mm up
- Lateral Shift: Front—30mm left and right; Rear—30mm left and 60mm right
- Weight: 8.5 Kilograms (18.7 lbs.)
- Extension: Max. 700mm Min. 70mm

Horseman 810 View Camera

Includes: Camera body with bellows, tripod mount, ground glass. Lens and lensboard not included.

HR8100 . . . . . Catalog Price **$1899.00**

Less Rebate **$150.00**

Now Only $1749.00*

*Offer expires Sept. 30, 1985.

Horseman 810 Accessories

Horseman 8 x 10 to 4 x 5 Reducing Frame

Requires use of HR4598 4 x 5 connecting frame and HR4596 4 x 5 ground glass back **HR8109** **$169.95**

4 x 5 Connecting Frame

For use with 8 x 10 to 4 x 5 reducing frame. **HR4598** **$45.95**

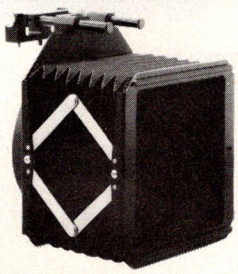
4 x 5 Ground Glass Back

For use with 4 x 5 Connecting Frame.
HR4596. . . . . **$109.95**

8 x 10 Wide Angle Bellows

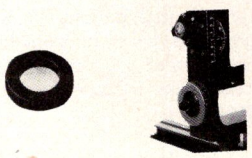
Provides greater flexibility when using short focus length lenses. **HR8111** . . . **$299.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.



Horseman Bellows Lens Shade with Filter Holder.

The Horseman bellows lens shade is one of the lightest compendiums available for any view camera. The convenient hinge design makes it extremely easy to flip up the shade to make lens adjustments and cock the shutter. The shade is supplied with three different filter masks for 3 x 3, 4 x 4, and 5 x 5 gel filters. The front of the shade is also slotted for use as a matte box or for additional special effect filters. The shade will accommodate lenses up to 125mm in dia.
HR4640. . . . . **$229.95**



Horseman Driving Aid**

A black rubber wheel that fits over rise and fall knobs of front standard. Provides larger gripping surface for easier operation. Ideal for photographers who have arthritis.
HR4621. . . . . **$6.95**

**For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time**
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Horseman 45HF Field Camera

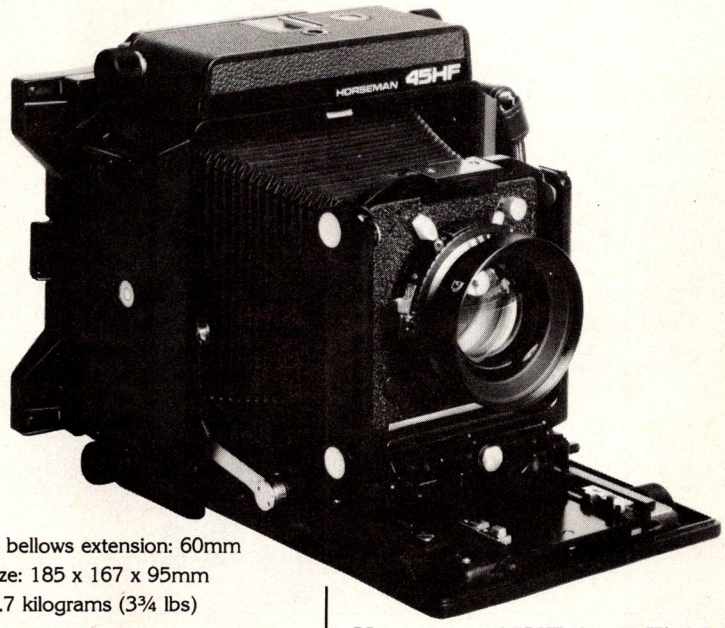
The new Horseman 45HF field camera offers a new standard of excellence in the area of 4 x 5 folding field cameras. The 45HF combines the compact size and portability of conventional field cameras with the strength and precision of Horseman die-cast and machined construction. The flat bed design is patterned after the popular Horseman VH roll film cameras. The back of the 45HF is compatible with all of the viewing and focusing accessories of the Horseman 450 system. The 45HF uses Horseman VHR lensboards found on page 43.

FEATURES:

- Flat bed folding technical field camera
- Full 4 x 5 format
- International lock 4 x 5 ground glass back with fresnel lens compatible with Horseman 450 accessories
- Construction: Die cast aluminum alloy
- Finish: Non-reflective matte black

SPECIFICATIONS (front movements):

- Bed Drop: 15°
- Rise: 28mm
- Swing: 15° right or left
- Tilt: 10° forwards, 15° backwards
- Shift: 30mm left or right
- Back: 4 way swing/tilt possible
- Maximum bellows extension: 260mm



- Minimum bellows extension: 60mm
- Folded Size: 185 x 167 x 95mm
- Weight: 1.7 kilograms (3¾ lbs)

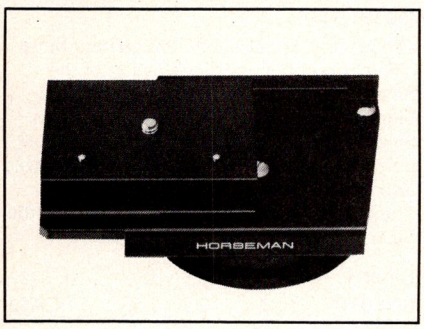
Includes: Camera body, bellows and ground glass.

Free lensboard and lens mounting with purchase of any large format lens.

Horseman 45HF 4 x 5 Field Camera

Lens and lensboard not included.
HR4502 ..... **$699.00**

Horseman Heavy-Duty Quick Shoe



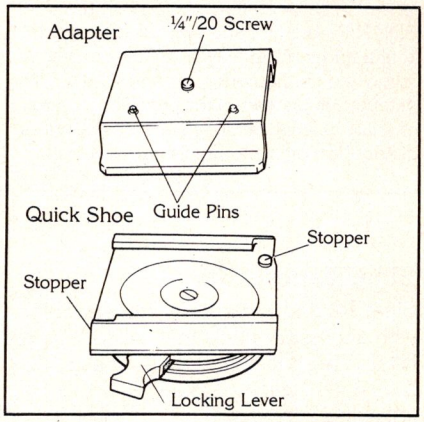
The Horseman Heavy-Duty Quick Shoe is a must for quick and safe mounting of any large format camera to your tripod. No longer is it necessary to grapple with the task of holding onto your view camera for dear life while you try to locate the threaded recepticle for the tripod bolt. The Horseman Quick Shoe permits quick, one-touch mounting of even the heaviest camera on your tripod, and is characterized by three major features:

1. Operational Safety and Stability
Spring-loaded stoppers (studs) prevent the camera from dropping out even when the lock lever is released. Positioning pins, also spring-loaded, securely hold the drop-bed type camera body in place. Precision engineering and heavy duty metal construction keep your camera firmly mounted.

2. Quick, One-Touch Mounting from Either Side
With the adapter attached to the camera body, the camera can be slipped into the shoe in one smooth, simple action. This can be done from either side.

3. Universally Adaptable to Any Camera
Whereas conventional tripod shoes were designed for use only with smaller format cameras, perhaps up to 6x6cm, the Horseman shoe provides secure mounting of even the largest view camera. It's basically simple, heavy-duty construction.

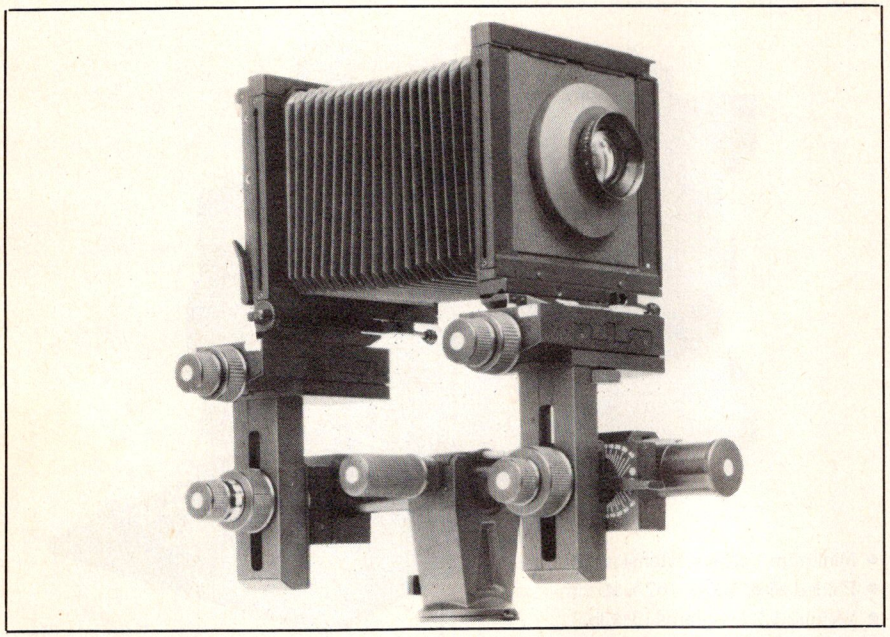
Dimensions:
Main body-90 x 118 x 31 mm (WxDxH)



Adapter-80 x 82 x19 mm (WxDxH)
Weight:
Main body-500 g
Adapter-120 g
Tripod thread: ⅜" and ¼"

Horseman Heavy-Duty Quick Shoe
with Adapter **HR4800** **$99.95**
Adapter for Quick Shoe
HR4801 ..... **$27.95**

SINAR



New Sinar P2

The P2 is fully compatible with the SINAR system established for over 35 years. Every component and every accessory that fits the current SINAR camera remains usable with the SINAR P2. Format changing is quick and straightforward in the usual SINAR manner.

The SINAR P2 is flexible. It takes every kind of lens and shutter system—from the latest electronic SINAR exposure control system with Digital shutter, modules and SINARSIX-digital, through the mechanical SINAR/COPAL behind-lens shutter to conventional lenses in between-lens shutters. In the SINAR P2 the tilts and swings about horizontal and vertical axes in the film plane follow the configuration of the SINAR P. The patented adjustments for precision control of sharp planes, perspective and sharpness distribution offer the precision, speed and especially logical and straight-forward operation always associated with SINAR.

Sinar P2 4 x 5
SN1040 . . . . . **CALL**

Sinar P2 4 x 5 Expert Kit
SN1050 . . . . . **CALL**

Sinar P2 8 x 10
SN1140 . . . . . **CALL**

Sinar P2 8 x 10 Expert Kit
SN1150 . . . . . **CALL**

Sinar Mentor Program
SAVE $200.00 on Sinar P
SAVE $100.00 on Sinar C
SAVE $50.00 on Sinar F
Call for details.

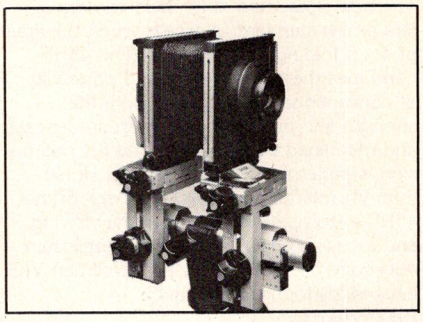
Sinar Expert Kits

Sinar P2 and P cameras are available with accessory packages called "Expert Kits". These kits contain the basic 4 x 5 or 8 x 10 camera along with the following accessories:

- 18" Rail Extension
- 6" Rail Extension
- Lighthood with Lightdrop
- Binocular Magnifier Board
- Filter Holder Rod 10"
- Filter Holder Rod 6¼"
- Filter Holder Rod 4¼"
- (2) Bellows Holders
- 4 x 5 Multipurpose Bellows
- Multipurpose Standard I
- Bellows Hood Mask
- Universal Camera Holder
- Camera Support Platform
- Wide Angle Bellows
- Fresnel Lens Mounted
- Heavy Duty ATA Case

U.S.A.

★Official U.S.A. Distributor Warranty.
★Complete Factory Packaging.



Sinar P

The advantage of the Sinar P is its supreme ease of handling. Precision micrometer drives permit rapid one-handed adjustment of all parallel displacements, swings and tilts.

The unique and patented asymmetric tilt system of the Sinar P locates the horizontal and vertical tilt axes exactly in the film plane. With the Sinar P you can control sharpness distribution or adjust perspective without refocusing. This system makes precise sharpness control fully straightforward. On the Sinar P even the image format can be matched to any assignment without complex conversion.

Sinar P 4 x 5
SN1020 . . . . . **CALL**

Sinar P 4 x 5 Expert Kit
SN1030 . . . . . **CALL**

Sinar P 8 x 10
SN1120 . . . . . **CALL**

Sinar P 8 x 10 Expert Kit
SN1130 . . . . . **CALL**

Sinar C

The Sinar C is not a different camera but a different component combination of the Sinar system. Essentially it is a simplified Sinar P. The rear standard is that of the Sinar P, while the lens standard is the multipurpose standard I of the Sinar system, used also in the Sinar F.

The Sinar C is convertible at any time to the Sinar P or to the light-weight Sinar F.

Sinar C 4 x 5
SN1010 . . . . . **CALL**

Sinar C 8 x 10
SN1060 . . . . . **CALL**

Sinar F

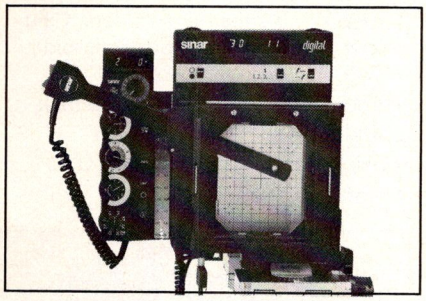
The Sinar F, a further combination within the Sinar system, is a genuine light-weight high-performance Sinar.

This less expensive camera provides an entry into the Sinar system on a more modest budget. It can be converted to a Sinar C or Sinar P at any time.

Sinar F 4 x 5
SN1000 . . . . . **$599.00**

Sinar F 8 x 10
SN1100 . . . . .SAVE $500.00 . . . . .**CALL**

Sinar Accessories

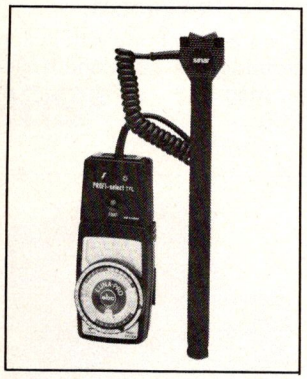


Sinar Electronics Package

Everything you need to make the ultimate Sinar! This package includes the Sinar Digital Shutter with the Module II for completely consistent exposures controlled from behind the camera when used with DB mounted lenses. Also included is the Sinar Six Digital Exposure Meter with battery pack and rapid charger. The complete system comes in a custom fitted case for easy, safe transport.
SN3052 . . . . . **$6695.00**

Sinar Auto-Aperture Shutter

This behind the lens mechanical shutter has several practical advantages including: automatic shutter cocking, automatic diaphram control, consistent exposure from all lenses, and complete reading and operation from behind the lens. The exposure range is 1/60 to 8 sec. plus B, and f5.6 to f45. Lenses used with this shutter must be DB mounted.
SN3000 . . . . . **$979.95**



Profi-select TTL

This attachment provides through the lens spot metering at the film plane when used with the Gossen Ultra Pro or the Gossen SBC meters (purchased separately). Can be used with current metering back Sinar cameras or with any camera equipped with the lightmeter cassette (see below).
SN3036 . . . . . **$549.95**

Sinarsix Lightmeter Cassette

Adapts older Sinar cameras and all cameras with international 4 x 5 backs for use with the Profi-select TTL. **SN2212** . . . **$129.95**

Sinar Photo Know How

A complete step by step course on view camera techniques using the Sinar system.
SN3302 . . . . . **$24.95**

Sinar Lens Shade

A simple compendium style lens shade is made by connecting a universal multipurpose bellows to the front standard with one of the filter holder rods and a bellows holder.

Filter Holder Rod 4¼″
SN3250 . . . . . **$11.95**

Filter Holder Rod 6¼″
SN3252 . . . . . **$12.95**

Filter Holder Rod 10″
SN3254 . . . . . **$16.95**

Bellows Holder
SN3260 . . . . . **$17.95**

Gelatine Filter Holder
SN3266 . . . . . **$109.95**

Sinar Bellows

Universal Multipurpose Bellows
SN2050 . . . . . **$159.95**

4 x 5 Wide Angle Bellows
SN2056 . . . . . **$149.95**

8 x 10 to 4 x 5 MB Tapered Bellows
SN2058 . . . . . **$469.95**

8 x 10 MB Wide Angle Bellows
SN2046 . . . . . **$369.95**

Sinar Monorails

Rail Extension 6 in.
(Silver) **SN2082** **$69.95**

Rail Extension 12 in.
(Silver) **SN2084** **$89.95**

Rail Extension 18 in.
(Silver) **SN2086** **$124.95**

Rail Extension 6 in.
(Black) **SN4006** **$74.95**

Rail Extension 12 in.
(Black) **SN4008** **$76.95**

Rail Extension 18 in.
(Black) **SN4004** **$149.95**

Sinar Cases

Standard Camera/Accessory Case

Vinyl covered fabricated case for 4 x 5 or 8 x 10 cameras. May also be used as an accessory case. 11.6 x 17.1 x 20.6 in.
SN3504 . . . . . **$239.95**

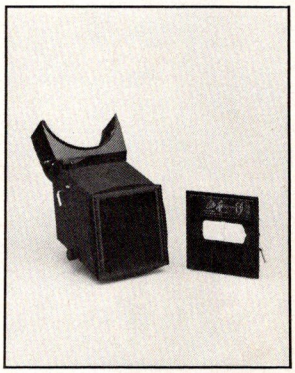
Sinar Expert Case

For 4 x 5 and 8 x 10 Expert Kits. Molded construction, ATA approved. 14 x 18.1 x 23 in. with casters. **SN3500** **$429.95**

Sinar Accessory Kit

Includes: 6″ extension rail, Wide Angle Bellows, 4 x 5 Fresnel lens with holder, and ⅜ to ¼ 20 reducer bushing.
SN2120 . . . . . **$309.95**

Sinar Viewing Accessories



Binocular Reflex Magnifier Housing for upright screen viewing (4 x 5) requires Lighthood with lightdrop.
SN3074 . . . . . **$429.95**

Binocular Magnifier.

Provides 2.5 X viewing of the ground glass. Requires use of the 4 x 5 wide bellows and lighthood with lightdrop.
SN3076 . . . . . **$129.95**

Lighthood with Lightdrop.

Screens off stray light when used with the Binocular Magnifier Board or the Reflex Magnifier Housing. **SN3086** **$89.95**

Ground Glass 4 x 5 ruled
SN2100 . . . . . **$24.95**

Ground Glass 8 x 10 ruled
SN2104 . . . . . **$53.95**

4 x 5 Fresnel with Holder
SN3068 . . . . . **$124.95**

8 x 10 Fresnel
SN3064 . . . . . **$179.95**

8x10 to 4x5 Reducing Adapter.

Used to reduce format without changing the format frame. Swing and tilt axes are not in the film plane and wide-angle performance is restricted. Requires use of 4 x 5 MB back. **SN2208** **$709.95**

Sinar Camera Mounting Accessories

Sinar Pan/Tilt Head

Requires rail clamp. **SN3130** . . . **$339.95**

Sinar Base Plate

Adds extra support for 8 x 10 or long extension 4 x 5 setups. Requires two rail clamps.
SN3166 . . . . . **$139.95**

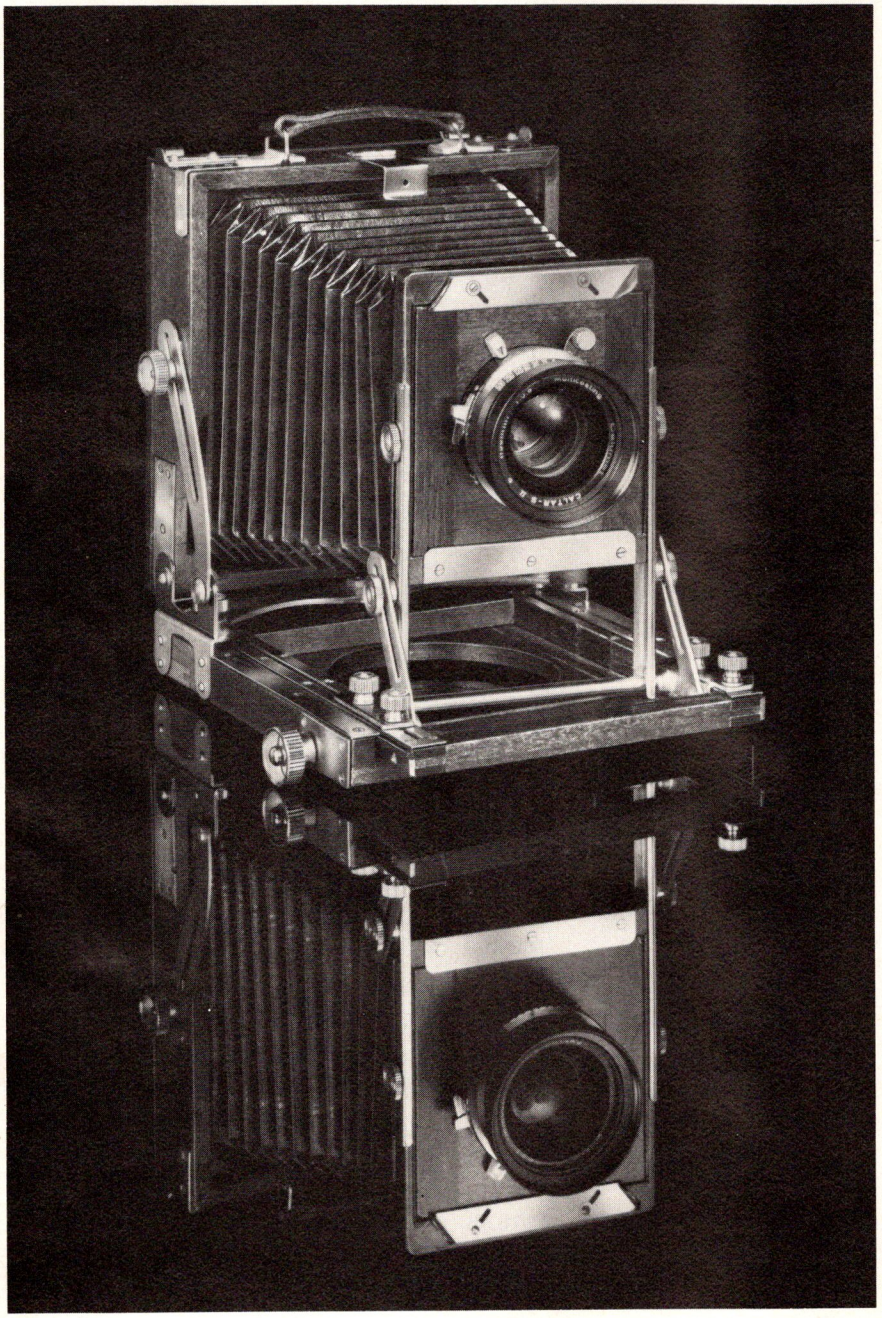
Sinar Rail Clamp

(Standard) **SN2095** **$119.95**

Sinar Clamping Stand Set

Used to mount camers (⅜″) to ladders, window frames, railings, etc.
SN3150 . . . . . **$429.95**

The Calumet Wood-Field 4 x 5



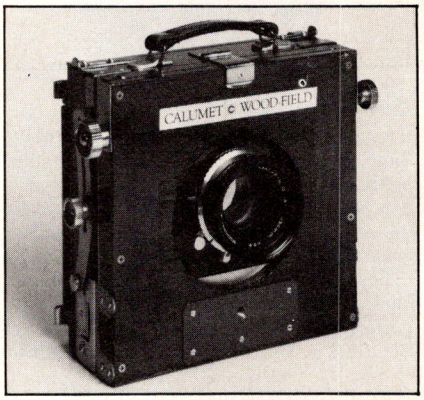
The Calumet Wood-Field is a unique combination of quality craftsmanship and economical value. This rugged and lightweight field camera is constructed of solid cherry wood with brass colored controls and accents. Made by one of the worlds major wooden field camera manufacturers, the Calumet Wood-Field is both well constructed and affordable.

The camera comes completely assembled and includes the ground glass back.

Free lensboard and lens mounting with purchase of any large format lens.

SPECIFICATIONS

- Construction: Lacquered cherry wood with brass colored metal controls and accents.
- Maximum bellows length: 11.5 inches (292mm)
- Minimum bellows length: 2⅛" (54mm)
- Front tilt: 80° forward, 15° backward
- Rear tilt: 45° forward, 15° backward
- Front swing: ±10° total
- Rear swing: ±10° total
- Front rise: 1¾" (45mm)
- Weight: 2¾ lbs.
- Horizontal/vertical back accepts standard 4 x 5 sheet film holders, Calumet C-2 roll film holder, Polaroid® 545, 550, and 405 holders.
- Focusing: flat bed dual track rack and pinion
- Tripod mnt: ¼-20 standard U.S.
- Carrying strap included

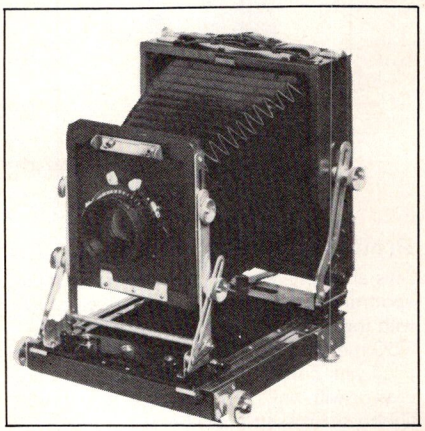


The 90mm circular opening in the bed means the camera can be folded and carried with most lenses up to 150mm in place. We think you will agree that this economical camera is an excellent choice for all general field applications.

Calumet Wood-Field 4" x 5" Field Camera

Includes: Camera body with bellows, and ground glass. Lens and lensboard not included.

CW1000 ..... **$269.00**



New Woodfied DX

This newly designed field camera features beautifully hand-crafted construction plus rear standard swings and shift. For more technical data and availability, please call.

CW2000 ..... **$399.95**

Calumet Compact— The Portable View Camera!

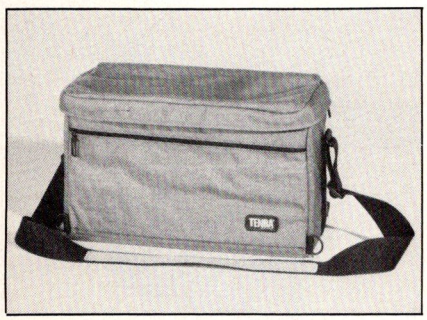
The New Calumet Compact: "The Portable View Camera"

This new, lightweight view camera is ideal for the field photographer who requires maximum control with minimal bulk! The Calumet Compact features metal stability, monorail design for full view camera movements and backpack compactability.

The newly designed Calumet Compact weighs just over 3 pounds and features a disconnecting rear bellows frame which allows you to store the camera flat without dismanteling the monorail. Locking knobs offer ease of operation and positive locking for front tilt and rise and fall, as well as for rear tilt movements.

Easy interchangeability from horizontal to vertical formats is obtained by a simple slide-lock mounted on the top of the rear standard. The Calumet Compact also features an International "Graflock" back, which allows the use of a wide range of roll-film backs. The back is designed to accept Cambo Reflex and In-Line Viewing Hoods for quick and easy compositions.

The Calumet Compact will work effectively with all view camera lenses between 65mm and 210mm, with either 135mm or 150mm considered to be "normal" focal lengths.



Tenba Field Camera Bag

This 16″ x 10″ x 8″ Tenba Field Camera Bag is ideal for storing and transporting your field camera and all its necessary accessories. This case will hold your field camera, several lenses, six sheet film holders, a light meter, Polaroid Film holder, reflex viewing hood, and a number of smaller accessories. Also features zippered, gussetted front pocket, adjustable shoulder strap, and adjustable dividers.

TE6000 . . . . . **$89.95**

Field Camera Accessories

Recommended Field Camera Lenses

150mm f/5.6 Caltar II
CL2150 . . . . . **$199.95**

90mm f/6.8 Caltar II
CL2901 . . . . . **$369.95**

210mm f/6.8 Caltar II-E
CL4210 . . . . . **$199.95**

Roll Film Backs

Horseman 6 x 7cm 120 Roll Film Holder
HR4637 . . . . . **$179.95**

Horseman 6 x 9cm 120 Roll Film Holder
HR4634 . . . . . **$179.95**

Horseman 6 x 12cm Roll Film Holder
HR4630 . . . . . **$399.95**

Miscellaneous Accessories

Cambo Reflex Viewing Hood
CB0220 . . . . . **$139.95**

Cambo In-Line Viewing Hood
CB0221 . . . . . **$99.95**

Calumet Compact Specifications:

- Construction: All metal black finished body with weatherized vinyl clad bellows.
- Tilt Movements: Front and Rear Tilts are unlimited, restricted only by bellows.
- Swing Movements: Front and Rear Tilts are unlimited, restricted only by bellows.
- Front Rise: 2¼″
- Front Shift: 1⅞″
- Bellows Extension: Maximum - 12″ Minimum - 1.75″
- Focusing: Front Standard - friction wheel
  Rear Standard - slide
- Movement Locks: Knob - Front focus, tilts and front rise and fall. Allan Wrench - Front swing and shift Rear-swing and focus
- Monorail: 2-piece (total length: 12½″)
- Dimensions: 9″(H) x 8¾″(W)
- Weight: 3 pounds 2 oz.

Calumet Compact 4″ x 5″
CC1000 . . . . . **199.95**

Instant I.D. Cameras

Cambo I.D. Cameras

These metal constructed cameras are built for extreme reliability to produce optimum service for passports, club memberships, licenses, student cards, employee cards, or "just a picture". Cambo's are easy to use.

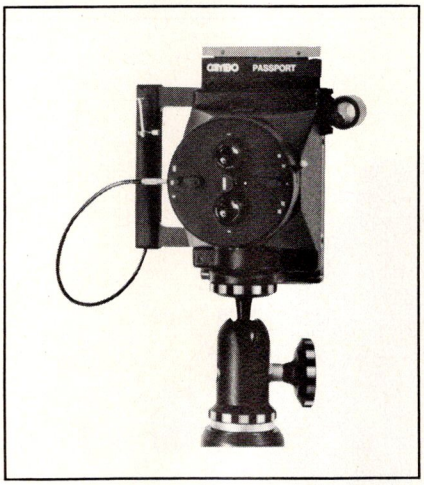
All models feature shutter-speeds of 1/50 and 1/100 sec. plus 'B' for time exposures and 'X'-synchronization for electronic flash. Five aperture settings are available, between f/8 and f/32; with simultaneous setting for both lenses. A lens selector knob allows you the choice of making two or four identical photos taken simultaneously, or two or four photos taken in sequence on a single film sheet.

Accessories for Cambo I.D. Camera

Supplementary Lens Set

Required to adapt image size of PP20 and PP25 cameras to meet U.S. Passport specifications. Set of two lenses.
CB0621 . . . . . **$19.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

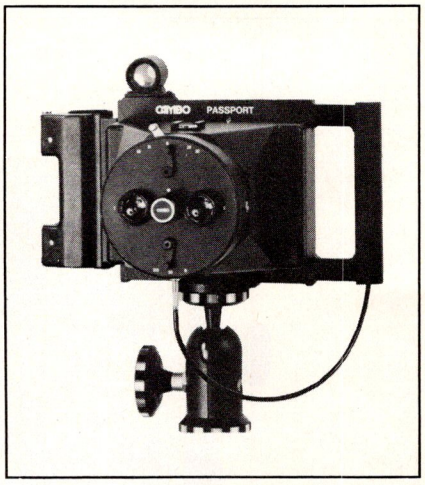


Cambo Model 20 I.D. Camera

Features two lenses with focal length of 124mm, with a fixed focus at 1.25 meters (4 ft. 1¼ in.). Each portrail measures 46 x 72mm. The Model 20 accepts the Polaroid 405 pack film holder and uses Polaroid 600 and 100 Series film. Camera comes complete with optical viewfinder and pack film holder. **CB0601** **$449.95**

Cambo Model 40 I.D. Camera

Features four matched lenses (each photo measures 36 x 46mm). Supplied with pack film holder for 600 or 100 series film.
CB0602 . . . . . **$429.95**

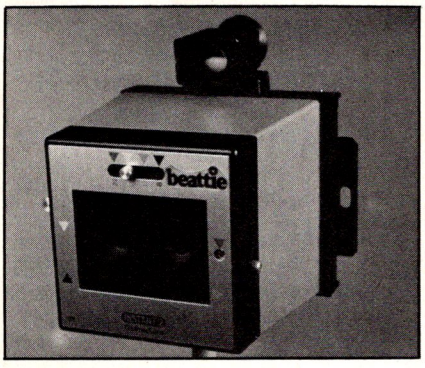


Cambo Model 25 I.D. Camera

Features two lenses with focal length of 125mm. Accepts Polaroid 545 Film Holder and uses Polaroid 50 series film. Also accepts 4" x 5" International back film holders. Each portrait measures 56 x 88mm with Polaroid film. Comes complete with optical view finder. Requires Polaroid film holder.
CB0603 . . . . . **$449.95**

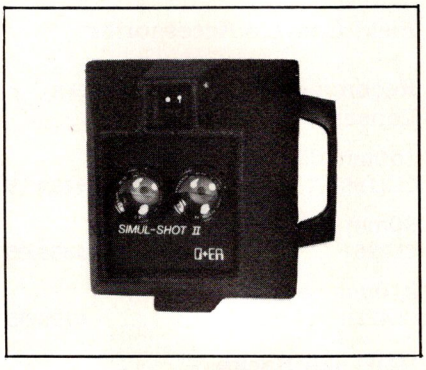
Cambo Model 45 Varifocus I.D. Camera

Features four matched lenses and focusing capabilities. Accepts Polaroid 545 film back (not included).
CB0605 . . . . . **$799.95**



Beattie Lupa Instant 2 I.D. Camera

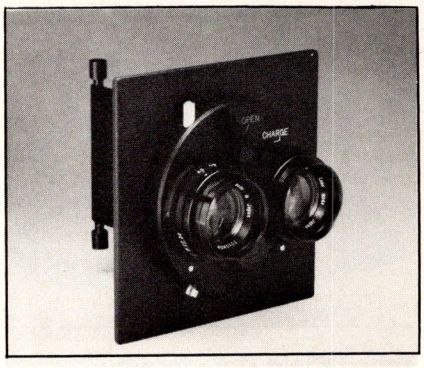
Instant I.D. camera produces two identical I.D. prints on Polaroid Type 669 Film. The Lupa Instant 2 features two identical 116mm achromatic lenses with continuously adjustable aperture from f/1.8 to f/22, PC flash contact and X synchronization, 1/50 sec. shutter speed, and a bright line viewfinder with a rubber eyecup. Pre-focused lenses provide a shooting distance between 39"-47". Polaroid film back is supplied with the camera. **BT1006** **$379.95**



Simul-Shot II

Produces two identical portrait passport photographs on Polaroid 665/668 pack film. Simul-Shot II features easy operation, built-in Polaroid film back, fixed focus at 48", high quality matched 135mm f/4.5-f/22 glass lenses, bright optical viewfinder, and capacitive discharge electronic shutter.
OE1100 . . . . . **$429.95**

PF-50 Heavy Duty Electronic Flash for Simul-Shot II. **OE1102** **$129.95**

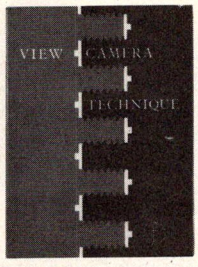


Horseman Split Image Adapter

Adapts to Horseman 450 or Sinar view cameras. Allows you to make two separate images on one 4" x 5" film. Features two 135mm f/4.5 lenses, mounted with integral shutter and flash synchronization. Includes ground glass mask for use with all three 4 x 5 Polaroid film backs. **HR4690** **$499.95**

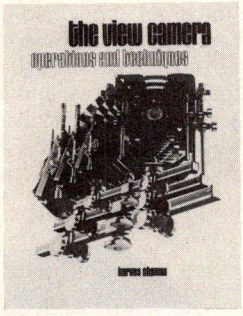
Calumet stocks a complete line of Polaroid film and Polaroid film backs. See page 34 for details.

Photographic Books

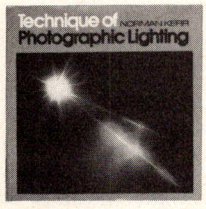


Recommended View Camera Books

View Camera Technique, 4th Edition, by Leslie Stroebel. A comprehensive, generously illustrated text in a field that has been neglected too long in photographic literature. 312 pages, 9½" x 7". 353 photographs. 119 diagrams. **FP1004** **$25.95**



The View Camera: Operations and Techniques, by Harvey Shamen. An all-inclusive, self teaching manual for photographers who may never have operated a view camera before. 128pp. 8½ x 11. Color and B & W illustrations. (paper) **AH1025**. **$9.95**



Technique of Photographic Lighting, by Norman Kerr. The best book we have found dealing with everything from what light is, to how to control it. If you are genuinely interested in understanding the nature of light in photography, this book will be a welcome tool. **AH1080**. **$9.95**

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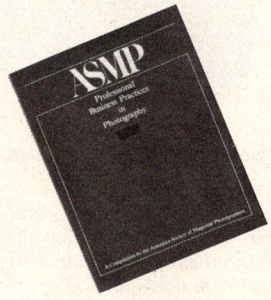
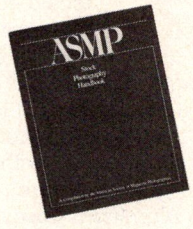
Professional Photographic Illustration Techniques. Intended to help commercial photographic illustrators sharpen skills and use time and tools more efficiently. More than 120 color illustrations—many with lighting diagrams—along with descriptive captions by the photographers themselves.
KB1580. . . . . **$7.50**

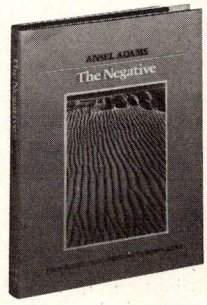


ASMP: Professional Business Practices in Photography. A compilation by the American Society of Magazine Photographers. Completely new edition contains many essential tips on photographer's rights, contractual policies, setting rates, and all sorts of in-depth legal issues. This book becomes the top authority on photographer's rights and a standard reference to anyone who plans to sell their photographs to magazines, corporations, newspapers, book publishers and stock photo agencies. 104 pages, softbound. **AA8015**. **$17.50**



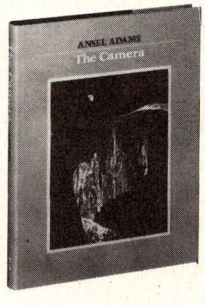
New - ASMP: Stock Photography Handbook. This new 176 page book contains invaluable information on the subjects of producing stock images, using a stock agency, direct selling, principles of selling stock, and the art of negotiation. Also included are chapters on forms and contracts, copyright, computers, a photographer's estate and settling disputes.
AA8016. . . . . **$24.95**

Ansel Adams Photography Series



The Negative: Book 2 Enlarges on *visualization,* discussed in *The Camera,* to include the factors that govern the tonal values of the image, as recorded on the negative. The early chapters are devoted to a discussion of light, film, and exposure, and their effect on the negative image. This is followed by a step-by-step, detailed account of the Zone System. Finally there are several chapters containing extensive information on the darkroom and processing. 180 b &, w ills., 30 line drawings. 288 pp. 1981.
AH1042. . . . . **$21.95**

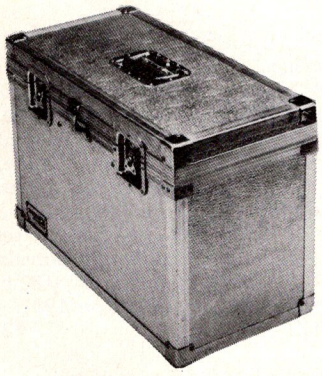
The Print: Book 3 The technical information is clear and concise, starting with the basics—designing and furnishing the darkroom and making the first print—and proceeding to the most advanced methods for achieving a fine print, such as developer modifications, toning and bleaching, and subtle burning and dodging. The text includes sections on the finishing and display of prints, processing for archival quality, and sensitometry. Appendixes give information on chemical formulas and test data. The book is amply illustrated with many of Ansel Adams' famous photographs, as well as with technical drawings.
AH1053. . . . . **$21.95**



The Camera: Book 1 Adams' definative new text on the making of photographs. Detailed descriptions of the basic equipment of photography and the techniques for using it creatively through *visualization and image management.* 130 b & w ills. 40 technical drawings. 224 pp. 7½ x 9½ ins. 1980.
AH1033. . . . . **$21.95**

4 x 5 View Camera Cases

	Calumet 540	Cambo SCIIR	Cambo SCX	Horseman 450	Horseman 450 EM
Economy Case	CB0230 (D)	CB0230 (D)	HR4657 (E)	HR4657 (E)	HR4657 (E)
Deluxe Case	CC4525 (A)	CC4525 (A)	N/A	CC4525 (A)	CC4525 (A)
Heavy Duty Aluminum Case	CC5410 (B)	CC5410 (B)	CC4530 (G)	CC4530 (G)	CC4530 (G)
Attache Case	N/A	N/A	N/A	HR4650 (F)	N/A



Calumet Heavy Duty Aluminum Case for Horseman 450 and Cambo SCX 4 x 5s (G)

This heavy duty case has earned its name perhaps more than any other case we know of. Literally built to last a lifetime–maybe several. And, since you won't be around to prove it, you'll just have to take our word for it! Its attractive, textured aluminum surface is backed by ¼" plywood for rigid support and protection. All edges are reinforced with wrap-around, brushed aluminum braces, while the corners are triple protected with additional caps.

The spacious interior is fully lined with ½" foam padding for full protection of equipment. Over-sized compartments offer ample storage space for extra mounted lenses, sheet film holders, meters, focusing cloth, and other essential equipment. The lid is securely attached by a heavy gauge, full-length "piano hinge". A protective tongue-and-groove lip around all four sides of the lid secures case contents against dust and moisture.

Case is protected by two recessed latches and built-in Presto combination lock. Comfortable carrying handle is recessed into lid and is self-retracting. Overall Dimensions: 22½"(L) x 14¼"(W) x 16"(H).

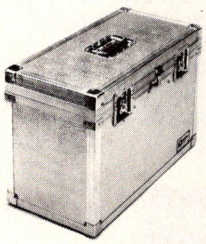
CC4530..... **$229.95**

Calumet Deluxe View Camera Case (A)

This rugged and flexible case features an adjustable divider system which allows you to space the main partitions to suit your specific camera configuration or storage space needs. Fully padded interior measures 10½"(W) x 24"(L) x 15"(H). For complete details, see facing page.

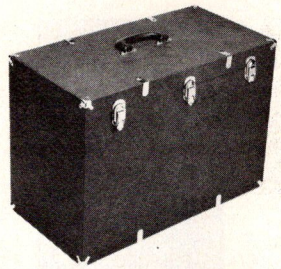
CC4525..... **$129.95**

The Calumet Viking Aluminum Case for 540 and SC 4 x 5's (B)



This extremely well made and rugged case is built to last a lifetime. It features a textured aluminum exterior with double protected edges and triple reinforced corners for maximum strength and case life. Lid is attached by a continuous full-length hinge and features extra protection from dust and moisture with its tongue-and-groove closure. The Calumet Viking Aluminum Case is completely lined with ½" padded foam and offers generous storage space for holders, meters, extra lenses on boards, and other accessories in its 3-compartment design. Outside dimensions are 24"L x 11½"W x 15½"H and the case weighs 22½ lbs. (not for SCX)

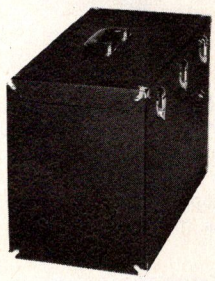
CC5410..... **$199.95**



Compartment Case for Calumet 540 and Cambo 4 x 5's (D)

This case offers economical protection and portability to your 4 x 5 camera system. Rigidly constructed of vinyl covered plywood with reinforced metal corners. Camera is cradled by its monorail, which offers maximum shock-resistance to camera body and ground glass. Three felt-lined compartments allow for storage space of extra film holders, mounted lenses, and other accessories. Exterior dimensions: 22½" x 11½" x 15¾". Weight: 13 lbs. 2 oz. (not for SCX)

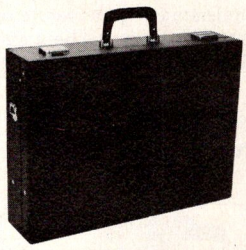
CB0230..... **$99.95**



Horseman/Cambo SCX Economy Case (E)

Fits Horseman 450 and 450EM cameras. Features vinyl covered plywood construction for strength and rigidty. Felt lined partitions and compartments provide plenty of space for film holders, lenses and other accessories. Ext. size: 13¾" x 22⅝" x 15½ Wt. 155 lbs.

HR4657..... **$99.95**

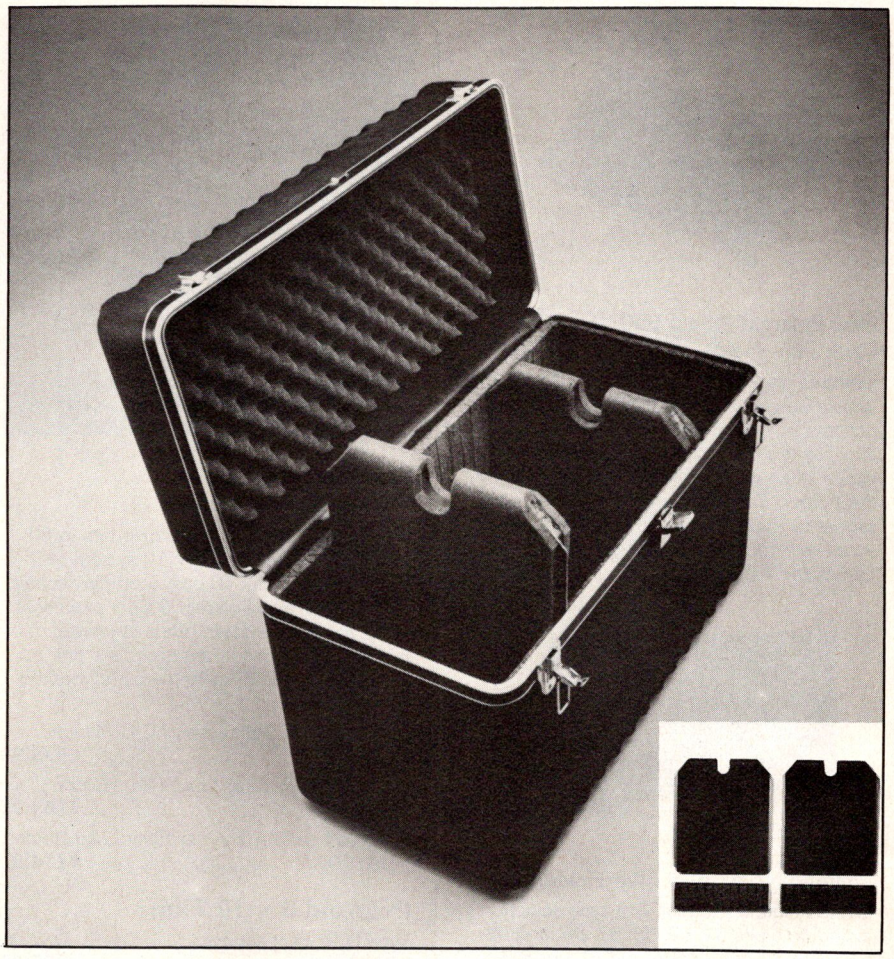


Horseman Attache Carrying Case (F)

A slim compact case designed to hold the Horseman 450 camera only. Perfect for photographers who prefer 1 case for the camera and a second case for accessories.

HR4650..... **$129.95**

Calumet Deluxe View Camera Case



Calumet Deluxe View Camera Case

This rugged case will provide years of dependable protection to your view camera, and offers more flexibility than any other case of its kind. Its generous 10½"(W) x 24"(L) x 15"(H) inside dimensions will accommodate the following array of 4 x 5 view cameras: The Calumet 540 Series, Cambo SCIIR and SCX*, Horseman 450 and 450EM Models. What's more, plenty of additional space remains to store extra accessories, such as mounted lenses, sheet film holders, focusing cloth, meters, lens shades, filters extra film backs, etc., etc., etc.

Perhaps the most innovative feature -and attractive asset- to this case is its unique, adjustable divider system. Each case comes complete with two, full-size padded dividers which cradle the view camera and hold it securely in place. By virtue of the padded sidewalls with slots spaced 1" apart, these dividers can be individually adjusted to suit your specific camera configuration or storage space needs.

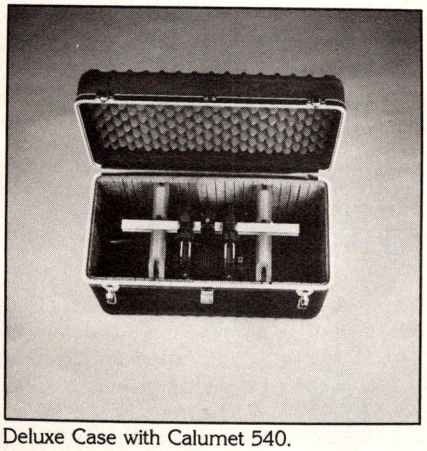
Two 3" x 11½" padded dividers are also included with the case. These adjustable partitions make it easy to organize your accessories and offer important, extra equipment protection. Additional dividers may be ordered to meet your expanding needs.

The Calumet Deluxe View Camera case is constructed of durable and undentable polyethylene material, featuring an attractive mat-textured black finish to reduce skuffs and scratches. Extra rigidity and support is guaranteed by its ribbed design, top and bottom. A full-length, continuous "piano hinged" top offers protection from dust and moisture with its tongue-and-groove closure. Interior walls and bottom are lined with ½" foam, while the top features convoluted foam protection. The case is secured by three latches (one locking with key provided) to offer safe storage and secure handling. Outside dimensions are 25"(L) x 12½"(W) x 17"(H) and it weighs 13½ pounds.

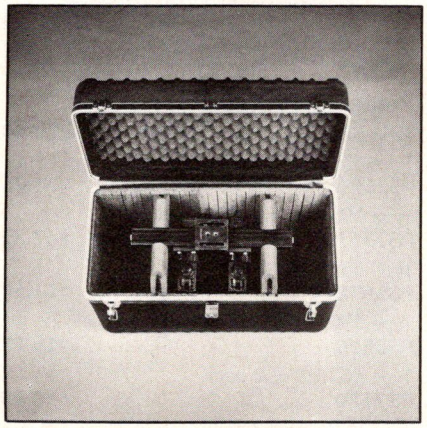
CC4525 . . . . . **$129.95**

Additional 3" x 12" Dividers (each)

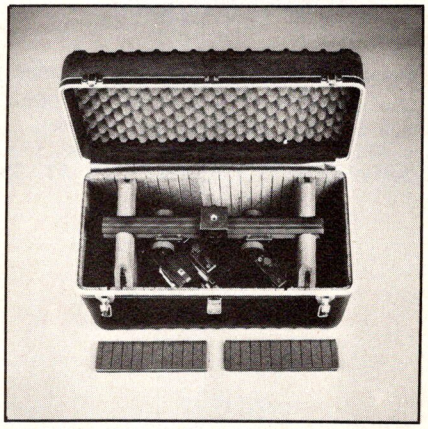
FB2312 . . . . . **$4.95**



Deluxe Case with Calumet 540.



Deluxe Case with Horseman 450.



Deluxe Case with Cambo SCX.*

*Requires removal of bellows. Front and rear frames to be set in diagonal position.

Polaroid Holders and Film

4 x 5 Film Holders

New Polaroid Model 550 Pack Film Holder

Features larger image area (3½" x 4⅝") and lower film costs. The 550 Pack film holder accepts both type 552 and 559 8 exposure film packs which offer automatic film advance when exposed sheet is pulled from the holder. This feature enables the photographer to make immediate sequential exposures with most 4 x 5 view and field cameras. **PO5500** **$134.95**

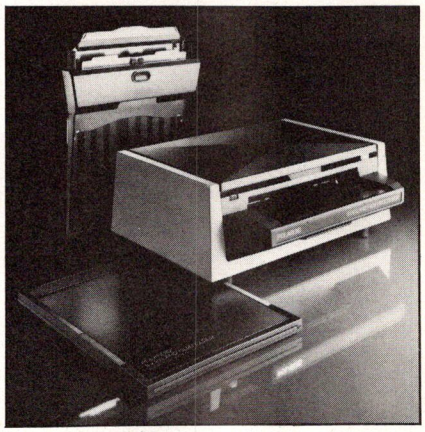
Polaroid Model 545 Film Holder

Offers Polaroid's largest film type selection including types 51, 52, 55, 57, 58, and 59. Actual image size is 3½" x 4½". Rugged metal construction. Allows user to change film types after each exposure. Fits most 4 x 5 view and field cameras.
PO5100 . . . . . **$159.95**

Polaroid Model 405 Pack Film Holder

Uses economical film types 665, 667, 668, 669, 084, and 100 series which are packaged in convenient 8 exposure packs. 2.9" x 3.8" image area. **PO5000** **$79.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.



Polaroid 8 x 10 Processing System

Produces instant 8 x 10 color prints in 60 seconds. The Polaroid 8 x 10 system requires Polaroid 8 x 10 easy load film holder loading tray, and Polaroid 8 x 10 processor. The Easy Load system offers improved processing procedure and requires one or more Easy Load Film Holders and loading tray.

Polaroid 81-12 Processor, AC & Manual.
PO6005 . . . . . **$639.95**

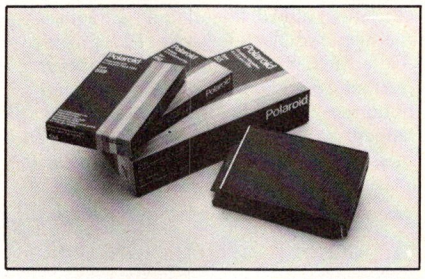
Polaroid 81-06 Easy Load Film Holder.
PO6050 . . . . . **$169.95**

Polaroid Loading Tray for Easy Load Holder.
PO6100 . . . . . **$114.95**

Polaroid 8 x 10 Film

Type 809-15 sheet box.
PS8800 . . . . . **$99.95**

Type 809-45 sheet box.
PS8805 . . . . . **$289.95**



Polaroid Professional Films

Type 52 B&W 20 exp. **PS7520** . . . **$29.50**

Type 55 B&W Pos/Neg 20 exp.
PS7530 . . . . . **$31.75**

Type 59 Polacolor ER 20 exp.
PS7551 . . . . . **$47.25**

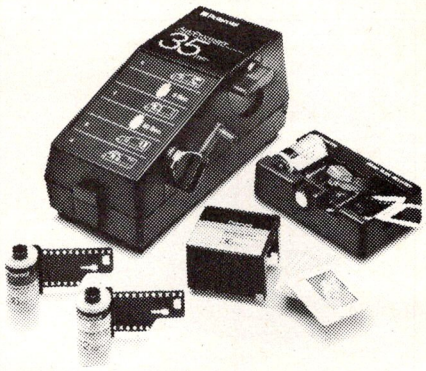
Type 552 B&W 8 exp pack
PS5552 . . . . . **$11.50**

Type 559 Color 8 exp pack
PS5559 . . . . . **$18.25**

Type 667 B&W 2 pack
PS7120 . . . . . **$10.50**

Type 669 Color 2 pack
PS7112 . . . . . **$15.50**

Type 665 Pos/neg 8 exp.
PS7130 . . . . . **$7.25**



Polaroid 35mm Autoprocess System

Instant 35mm color or black and white transparencies add a new dimension to 35mm camera systems with the convenience of immediate processing and viewing. The system features three films: Polapan CT, for continuous tone B & W slides; Polagraph HC, for B & W high contrast slides; and Polachrome CS, for high quality color slides. Processing of the films requires the 35mm Autoprocessor. Polaroid also offers an easy to use slide mounter and slide mounts for convenient viewing.

Polaroid 35mm Autoprocess Components

Polaroid 35mm Autoprocessor
PO1010 . . . . . **$79.95**

Polaroid Slide Mounter
PO1020 . . . . . **$19.95**

Polaroid Slide Mounts (pkg of 100)
PO1030 . . . . . **$4.95**

Films for Polaroid 35mm Autoprocessor

Includes separate pack of processing reagent with each roll of film.

Polachrome CS Color Transparency, 12 exp. (ASA 40). **PS1110** **$8.50**

Polachrome CS Color Transparency, 36 exp. (ASA 40). **PS1115** **$12.00**

Polapan CT Continuous Tone Transparency, 36 exp. (ASA 125). **PS1100** **$12.20**

Polagraph HC High Contrast Transparency, 12 exp. (ASA 400). **PS1105** **$8.60**

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

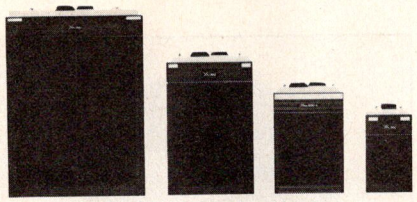
Sheet Film Holders

Lisco Double Sheet Film Holders

Lisco Sheet Film Holders feature unibody construction with no joints except loading flaps. All outside parts are made of a high impact material, with an inner core of one piece, solid aluminum plate which assures consistent film flatness. The ends of the loading flaps are overlapped to prevent light from entering the hinge joint. Top guide lets film seat itself, with no short-loading. If slide won't go in completely, it warns you the film is not inserted all the way.

FEATURES:

- Rounded corners for easier insertion into camera.
- Slide locks do not work out or in when turned.
- Permanent black finish won't wear off or chip and it is anti-static and won't attract dust or lint.
- Offset pull-tab for easier removal.
- Wear resistant cloth spring cover.
- Large writing area for easier notations.



Lisco Double Sheet Film Holders

Lisco 4 x 5 Double Sheet Film Holder
LS4500 . . . . . **$7.95**
SPECIAL 6 for **$42.00**
Replacement Dark Slide for 4 x 5 Holder
LS4505 . . . . . **$2.25**
Lisco 5 x 7 Double Sheet Film Holder
LS5700 . . . . . **$12.95**
SPECIAL 6 for **$72.00**
Replacement Dark Slide for 5 x 7 Holder
LS5705 . . . . . **$3.50**

Lisco 8 x 10 Double Sheet Film Holder
LS8100 . . . . . **$27.95**
SPECIAL 6 for **$156.00**
Replacement Dark Slide for 8 x 10 Holder
LS8105 . . . . . **$6.00**
Lisco 2¼" x 3¼" Double Sheet Film Holder
LS2300 . . . . . **$12.95**
Replacement Dark Slide for 2¼" x 3¼" Holder **LS2305** **$2.50**

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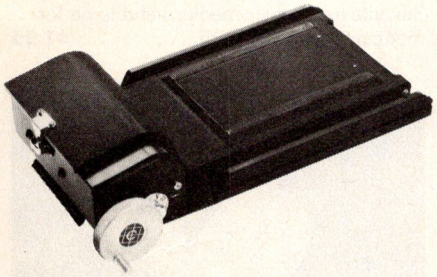
Roll Film Holders



Calumet C-2 Roll Film Holder for 120 or 220 Film

C-2 CLOSEOUT

This unit has been discontinued and will not be produced again! Limited quantities are still available.

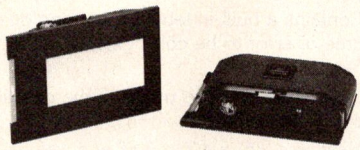
FEATURES

- Convenient 6 x 7 cm format
- Inserts like a sheet film holder
- Complete with ground glass mask
- Simple, daylight loading of 120 or 220 roll film. The film is tracked by the edges. Film emulsion is never touched.
- Fits most 4" x 5" spring back or international back cameras.
- Counter and film advance for 10 exposure 120 or 20 exposure 220 film
- Exceptional film flatness
- Rugged construction

Calumet C-2 Roll Film Holder

CC4505 . . . . . **$199.95**

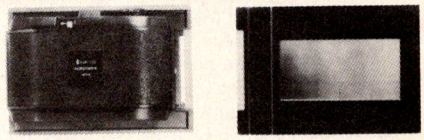
Horseman Roll Film Holders for cameras with 4 x 5 International "Graflock" System.



Horseman 4 x 5 Camera Roll Film Holders

Horseman roll film holders combine the creativity of view camera movements with the economy and convenience of roll film. These precision made backs are not only an excellent match to the Horseman 450, but are also usable on any camera designed with the 4 x 5 international locking system. The roll film holders are available in 6 x 7 and 6 x 9cm sizes in both 120 and 220 film sizes. The newest and possibly most exciting roll film back is the 6 x 12cm 120 holder. This 6 x 12cm roll holder offers new possibilities with its 2:1 width to height ratio. This holder is ideal for wide angle or panoramic use. For example: with a 65mm lens the field of view covers 88 degrees of arc.

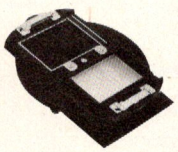
Horseman 6 x 7cm 120 Roll Film Holder
HR4637 . . . . . **$179.95**
Horseman 6 x 9cm 120 Roll Film Holder
HR4634 . . . . . **$179.95**
Horseman 6 x 7cm 220 Roll Film Holder
HR4639 . . . . . **$199.95**
Horseman 6 x 9cm 220 Roll Film Holder
HR4638 . . . . . **$199.95**



Horseman 6 x 12 cm Roll Film Holder

Ideal for architecture, panoramas and shots where narrow vertical or horizontal panels are required. Fits all 4 x 5 cameras with international backs. 6 exposures on 120 roll film. **HR4630** **$399.95**

Horseman Rotary Back Model II



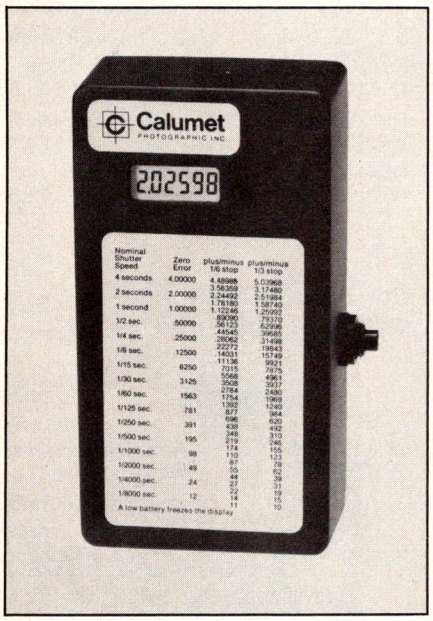
Fits all 4" x 5" Graflock "International" Backs! Features rotating glass screen and opening for 6 x 9cm international lock accessories. Ground glass rotates into position for easy focusing, then the film holder or roll film back rotates into position for exposure without using dark slide.
HR4632 . . . . . **$299.95**

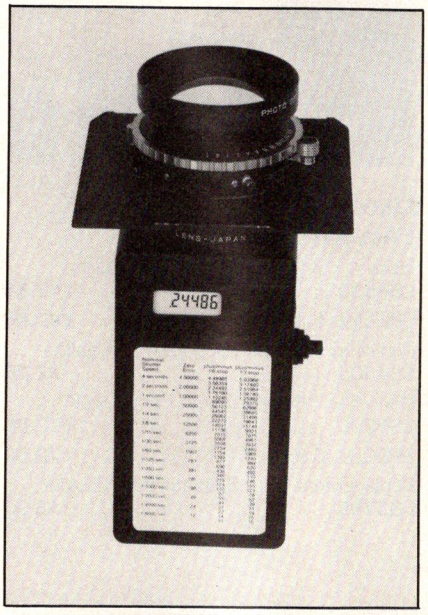
Rotary Back Roll Film Holders

Horseman 120 roll film holder—6 x 9cm format **HR9310** **$199.95**
Horseman 120 roll film holder—6 x 7cm format **HR9320** **$199.95**
Horseman 220 roll film holder—6 x 9cm format **HR9330** **$199.95**
Horseman 220 roll film holder—6 x 7cm format **HR9340** **$199.95**

Shutters and Professional Accessories

Calumet Solid State Shutter Tester





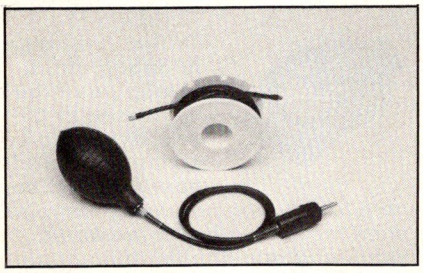
This inexpensive and precise tool can save you untold amounts of money and aggravation by testing the accuracy and consistency of your camera and lens shutters. The Calumet Shutter Tester is a six digit LCD, direct read out, instrument with a built-in universal probe for both focal plane and leaf shutters. The LCD shows all the timing information required, without the nuisance of calculating scales, in times from 0.00001 seconds to 9.9999 seconds (shutter times of longer than 10 seconds can be tested with this unit, however, only the last six digits will be displayed).

Ease of operation begins with the fact that the unit is powered by a 9-volt alkaline battery, which gives you approximately 50 hours of use, and allows you the convenience of using it in the field or anywhere in the studio. To operate, you simply turn your camera or lens toward a light source (light bulb or bright area), place the probe near the center of the film plane or near the rear element on a leaf shutter lens, and release the cocked shutter. The Shutter Tester will display the shutter speed in seconds (i.e., 0.00100 is 1/1000 of a second) and will automatically reset. It's very easy, it's very accurate, and it's very inexpensive.

Other features include:

- Built-in voltage regulator for constant voltage over the entire life of the battery.
- Contains a built-in table for figuring degree of error to be compensated for in f/stops.
- Unit can be used to measure the duration of electronic flash.
- Measures 2.5" x 4.7" x 1.6" and weighs about 6 ounces with battery.

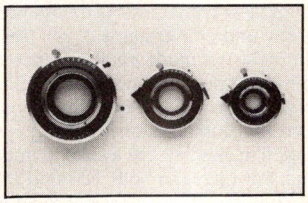
AA8075..... **$59.95**



Heavy Duty 20 Ft. Air Release

Bulb air release which can be used at full 20' length or as a more conventional, vibration-free 24" release by simply unscrewing the 18' extension tube. Gives the photographer more freedom of movement away from the camera. May require U-hook release adapter for use with view camera lenses. Comes complete with rollup tube reel and case. **BR5000**..... **$9.95**

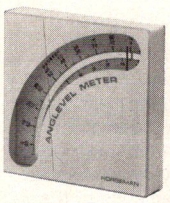
U Hook cable release adapter.
KT5150..... **$4.95**



Copal Mechanical Shutters*

#0	**CO1000**	**$89.95**
#1	**CO2000**	**$123.95**
#3	**CO3000**	**$246.95**
Press #0	**CO4000**	**$84.95**
Press #1	**CO4500**	**$99.95**

*Supplied with blank aperture scales.



Angle Finder

Fluid-filled precision angle finder simplifies setting view camera up for copy work, getting front and back standard parallel or for aligning back standard to subject to control distortion.
HR1015..... **$24.95**

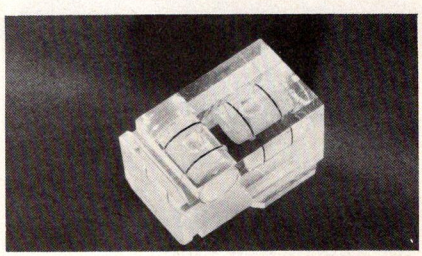
E-Z View Bellows Factor and Angle Finder Kit

This time-saving simple kit takes the guess work out of determining accurate bellows factors AND matching angles for proper perspective control. The 2-in 1 E-Z View Kit contains and accurate angle finder, which is ideal for photographing flat copy work on an angled surface or vertical standing products, and a chip/scale set for calculating bellows factors on view cameras and medium format cameras with extension tubes.

The E-Z View Kit always yields consistent results and exposures. No more tedious calculations or guess work.
CC9200..... **$17.95**

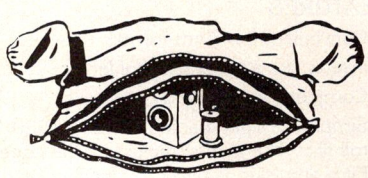
Heavy Duty Reducer Bushing

This is the finest quality reducer bushing we have found. High quality European construction reduces from ⅜ to ¼-20 threads. Suitable for heavier medium and large format cameras. **CB0725**..... **$1.95**



Double Spirit Level

Two levels in clear plastic rectangular case. Fits standard shoe in two axis.
CB1020..... **$24.95**

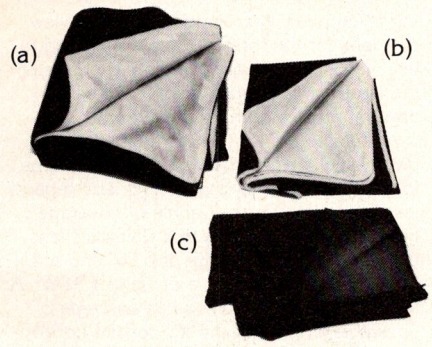


Deluxe Changing Bags

High quality cloth construction. Double lined with double zipper. Rubber wrist bands. Guaranteed light tight. Made in U.S.A.

18 x 26 in.	**AA5001**	**$24.95**
30 x 32 in.	**AA5002**	**$39.95**
36 x 36 in.	**AA5003**	**$44.95**
36 x 45 in.	**AA5004**	**$49.95**

View Camera Accessories



Focusing Cloth (c)

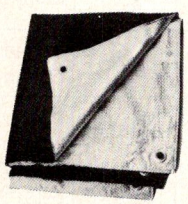
36" x 40" Focusing Cloth
CC9040 . . . . . **$12.95**

Professional Focusing Cloth (b)

The Calumet Professional Focusing Cloth is black on the inside and white on the outside. The white side reflects heat from the sun or hot studio lights to keep you cooler, and also serves as an ideal fold up reflector for field use. 36" x 48".
CC9041 . . . . . **$18.95**

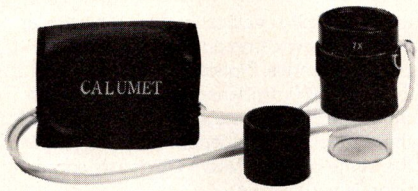
The Calumet Classic Focusing Cloth (a)

The Classic Focusing Cloth is a full 48" x 58" for comfortable use on all view cameras to 20" x 24" in format. The outer construction is double knit polyester for maximum durability and dimensional stability. The cloth which contains more than 5 yards of material and 20 individually sewn rust resistant, antimony steel weights provides sufficient mass for location use on a windy day. All edges are triple stitched and completely finished to resist unraveling and snagging. The Calumet Classic Focusing Cloth colors are navy blue inside and white outside.
CC9042 . . . . . **$24.95**



The Calumet Silver Classic Focusing Cloth

A truly versatile focusing cloth/reflector, The Silver Classic Focusing Cloth is black on the inside and silver on the outside. ½" I.D. grommets built into all four corners facilitate attaching the cloth to supports when using it as a reflector, and fit conveniently over a conventional ⅜" light stand. This lightweight (1 lb. 12 oz.) cloth measures 48" x 56". Inside black material is double knit polyster for maximum durability, while outside silver is made with a reinforced, tear-resistant mesh net material. Reflective properties of this cloth will also keep equipment and film cool. The Silver Classic Focusing Cloth contains 16 individually sewn rust resistant antimony steel weights for greater stability on a windy day. **CC9045** **$29.95**

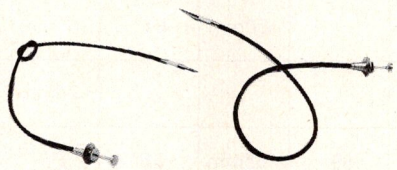


Calumet Focusing Magnifier

The 7x magnification of the Calumet focusing lupe is ideal for critical focusing on the ground glass. Features dioptric adjustment and comes complete with opaque barrel, clear barrel, neck strap and case.
HR1000 . . . . . **$32.95**

Swivel Cable Release Adapter

This is the newest and best device we have found to attach cable releases to lenses in recessed lensboards. Also ideal for air releases.
CB2400 . . . . . **$14.95**



Cable Releases

Calumet Professional Cable Release Metal clad, 20" length.
HV1000 . . . . . **$12.95**

Standard cable release 6".
CC9050 . . . . . **$4.95**

Flextip cable release must be used in recessed lensboard. Has adjustable lock to convert "B" setting to "T".
CC9055 . . . . . **$9.95**

20" Flex Tip Cable Release This is a 20" version of the standard Calumet flex tip cable release. For use with recessed lensboards and in other "tight fit" situations.
CC9056 . . . . . **$12.95**

New Super Sharp Focusing Screen

The new Calumet Super Sharp screen is the sharpest view camera focusing screen we have ever tested. When combined with a fresnel screen the Super Sharp produces an extremely bright and incredibly sharp image. Even under focusing lupe magnification, there is practically no grain and no annoying fresnel lines to destroy critical detail. The Super Sharp Screen must be used with the fresnel lens for best results. Super Sharp Screen for current Calumet/Cambo 4 x 5 cameras
CB0250 . . . . . **$69.95**

Save $15.00 purchase both the Super Sharp Screen and the Calumet/Cambo Fresnel lens. Both for only $89.90

Beattie Intenscreen For View Cameras

Increases the relative brightness of your ground glass image by 2-4 f/stops. Includes ¼" grid applique.

Intenscreens

For Calumet 540 and Cambo SC 4 x 5s
BT0050 . . . . . **$139.95**
For Horseman 450 **BT0055** **$139.95**
For Calumet 810 and Cambo 8 x 10's
BT0105 . . . . . **$169.95**
For Calumet C-1 8 x 10
BT0100 . . . . . **$169.95**
For Horseman 8 x 10
BT0110 . . . . . **$169.95**
For Wood Field/Gowland and Calumet 400 Series **BT0115** **$139.95**
For Sinar 4 x 5s **BT0075** **$139.95**
For Sinar 8 x 10 **BT0080** **$169.95**

Replacement Ground Glass

For Calumet 540 and Cambo SC 4 x 5s
CB0214 . . . . . **$18.95**
For Horseman 450 **HR4612** **$19.95**
For Calumet 400 Series, Woodfield, Pocket View and Porta Vu cameras
CC4506 . . . . . **$14.95**
For Calumet C-1 8 x 10
CC8109 . . . . . **$19.95**
For Calumet 810 and Cambo 8 x 10's
CB0418 . . . . . **$39.95**

Replacement Fresnel Lens Screens

For Horseman 450 **HR4616** **$49.95**
For Calumet 540 and Cambo SC 4 x 5s
CB0218 . . . . . **$34.95**
For Cambo 8 x 10s **CB0419** **$99.95**

Angle of View vs. Angle of Coverage

One of the most difficult things for large format photographers to understand is the relationship between the angle of view of a large format lens to that of smaller format cameras.

The problem relates to the term "Angle Of View" as it appears in view camera lens manufacturer's specification sheets. This term "Angle Of View" is easily understood when it is used in reference to 35mm or 2¼ photography. It is simply the angle of view which is reproduced on the film. The important point here is that angle of view is determined by the lens focal length and a particular film size (format). It should be noted that there are actually three angles of view for each format—horizontal, vertical, and diagonal, and the figures are calculated with the lens focused at infinity.

It is very common for small format camera manufacturers to show the angle of view (horizontal is generally used) for each of the lenses in the system. This makes it easy to compare lenses, even between different formats. For example: A 20mm lens on a 35mm camera has an angle of view of 84°, the comparable lens on a 4 x 5 camera would be a 65mm lens having an angle of view of 86°.

Now comes the problem. Look at the angle of view specifications for a particular brand of view camera lenses, such as the Nikkor W series. Notice that the 150, 180, 240, and 300mm lenses are all listed with the same angle of view of 70°. How can all these different focal length lenses all have the same angle of view? Obviously something is very wrong.

The problem is terminology. 70° is not the *angle of view* for all of these lenses. 70° is their *angle of coverage*. Angle of coverage can be defined as the angle formed by the entire image circle of the lens when focused at infinity. Angle of coverage is directly determined by lens design, not focal length, therefore it is entirely logical that lenses of the same lens design would all have the same angle of coverage (70°) even though they have different focal lengths. It should be noted that the angle of coverage is affected by the f stop of a lens and should be referenced to a given f number. Angle of coverage is usually given at f/22, but check the manufacturer's specs to be certain.

Angle of coverage is an extremely important specification to examine when choosing a large format lens. By comparing the angle of coverage between lenses it is easy to see which lens will allow the greater range of view camera movements. It is also interesting to compare the diagonal angle of view of a lens for the format you are planning to use with the angle of coverage. The greater the angle of coverage, the greater the amount of view camera movement.

An interesting sidelight is that any two given focal length lenses used on the same format produce the same image size regardless of lens design and angle of coverage. For instance, a 210mm f6.8 Caltar IIE lens has an *angle of coverage* of 67.6° and a 4 x 5 format horizontal *angle of view* of 31½°. A 210mm f5.6 Caltar II lens has an *angle of coverage* of 70° and a 4 x 5 format horizontal *angle of view* of 31½°. Since the angle of view on 4 x 5 film with both lenses is the same, they will both reproduce the same size image when the same subject is photographed from the same distance.

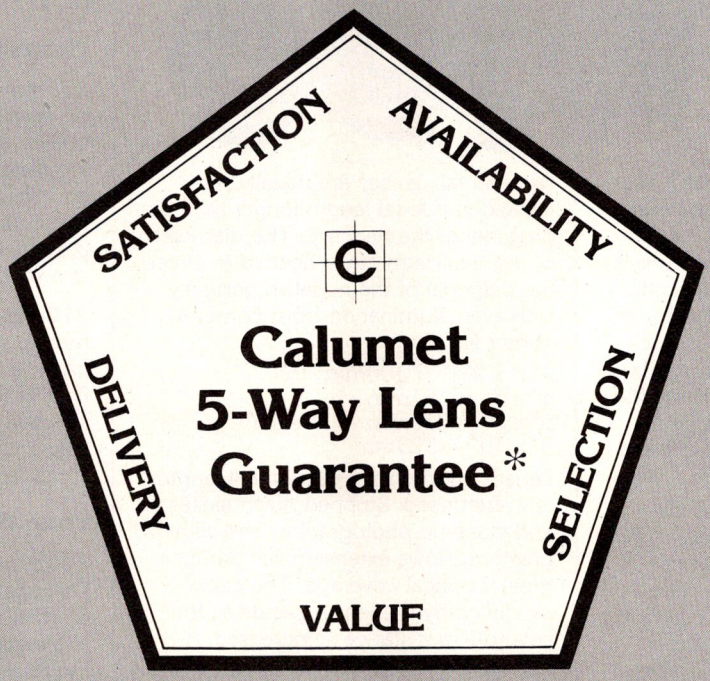
Angle of view must be given for a specified film format, and is dependent on lens focal length. *Angle of coverage* is the complete image forming angle of a lens and is determined by the lens design.

Angle of View Comparison Chart

35mm		6 x 6 cm		6 x 7cm		6 x 9cm		4 x 5 in.		5 x 7 in.		8 x 10 in.	
Focal Length	**Angle of View***	**Focal Length**	**Angle of View***	**Focal Length**	**Angle of View***	**Focal Length**	**Angle of View***	**Focal Length**	**Angle of View***	**Focal Length**	**Angle of View***	**Focal Length**	**Angle of View***
										75mm	**97°**	120mm	**92°**
20mm	**84°**					50mm	**81°**	65mm	**86°**	90mm 100mm	**87°** **81°**	135mm	**85°**
24mm	**74°**							75mm	**78°**	120mm	**71°**	150mm 165mm	**79°** **74°**
28mm	**65°**	40mm	**69°**	50mm	**69°**	65mm	**66°**	90mm 100mm	**68°** **62°**	135mm	**64°**	180mm 210mm	**69°** **61°**
35mm	**54°**	50mm	**58°**	65mm	**56°**	75mm 90mm	**59°** **51°**	120mm	**53°**	150mm 165mm 180mm	**59°** **54°** **51°**	240mm	**55°**
44mm 50mm	**44°** **40°**	60mm 75mm	**49°** **40°**	75mm 80mm 90mm	**49°** **46°** **42°**	105mm	**44°**	135mm 150mm 165mm	**48°** **44°** **40°**	210mm	**44°**	300mm	**45°**
55mm 58mm	**36°** **34°**	80mm 100mm 105mm	**39°** **31°** **30°**	105mm 120mm 127mm	**36°** **32°** **30°**	120mm 135mm 150mm	**39°** **35°** **32°**	180mm 210mm	**37°** **31°**	240mm 300mm	**39°** **32°**	360mm 450mm	**38°** **31°**
85mm 105mm	**24°** **19°**	120mm 135mm 150mm	**26°** **23°** **21°**	140mm 150mm 180mm	**27°** **26°** **22°**	180mm 250mm	**27°** **19°**	240mm 300mm 360mm	**28°** **23°** **19°**	360mm 450mm 480mm	**27°** **21°** **20°**	480mm	**29°**
135mm 180mm 200mm	**15°** **12°** **10°**	250mm	**13°**	360mm	**11°**	360mm	**13°**	450mm 480mm	**15°** **14°**				

*Horizontal Format

The Calumet 5-Way Lens Guarantee*



1. SELECTION

Calumet GUARANTEES the widest selection of large format lenses available anywhere. Choose from over 100 different lenses from the five best selling major brand names including: Caltar, Schneider, Nikkor, Fuji, and Rodenstock.

2. VALUE

Calumet GUARANTEES that you receive the best value available anywhere. Consider our competitive prices with NO HIDDEN CHARGES. Also, with the purchase of any large format lens you receive a FREE Lensboard and Mounting for all Calumet, Cambo and Horseman cameras, as well as Sinar† and Omega/Toyo studio cameras.

3. AVAILABILITY

Calumet GUARANTEES to have the lens you want. OVER 1500 large format lenses are normally in stock. If the lens you select from this catalog is not in stock at the time of your order, Calumet will reduce the current price by 10% if you order the lens for future delivery.

4. DELIVERY

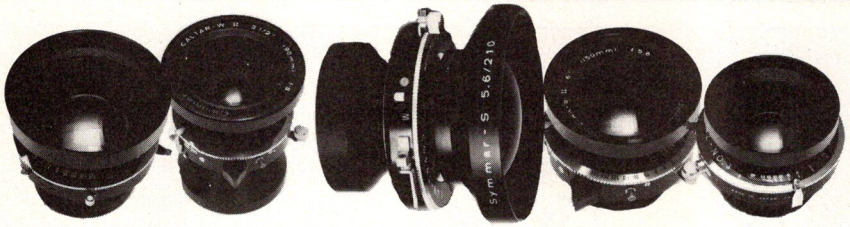
Calumet GUARANTEES to ship you the lens you want when you need it. Large format lenses that are in stock and ordered before 10:00 A.M. Central Standard Time will be shipped the same day. If we fail to ship according to schedule you will receive a 10% discount on your lens purchase.

5. SATISFACTION

Calumet GUARANTEES that if for any reason you are not satisfied with your lens purchase, you may return the lens along with all premium items within 15 days and receive a full refund.**

*This program is subject to change without notice and does not apply to institutional orders.
**Subject to Calumet's standard return policy.
†Standard board only.

Large Format Lenses



Selecting the right large format lens. In large format photography, there is no such thing as a "normal" lens. Because of the varied camera movements and enhanced capabilities of the view camera, each lens performs a different function . . . the lens you choose depends upon the kind of photography you plan to do. A general understanding of the principles behind large format optics can help you choose the right lens to achieve your goals.

Perspective is governed by the **distance** of the camera to the subject. Because objects closer to the camera photograph larger, working in close with short focal length lenses can result in foreshortening. Unlike the human eye, the camera lens cannot compensate for distortion without adjustment of the camera and the camera-to-subject working distance.

One solution is to move the camera back from the subject and use a longer focal length lens to produce a larger, yet undistorted image on the film. As the camera moves back, distortion is minimized and the image appears as your eye perceives it. For this reason, most view camera lenses are longer in focal length for a given film size than lenses for smaller, hand-held cameras.

Coverage. Since a view camera lens is often moved off axis for swings, tilts, rise and fall, lenses are usually purchased in a focal length longer than the diagonal of the negative. The diameter of the minimum circle needed to cover the diagonal of the negative perfectly with even illumination from corner to corner is:

2¼″ x 2¾″ = 100mm
4″ x 5″ = 161mm
5″ x 7″ = 219mm
8″ x 10″ = 323mm

Lenses shorter than these focal lengths are often used. Stopped down lenses and close-up photography used with greater bellows extension will produce greater optical coverage. The circle produced by the lens expands as the lens-to-film distance is increased. A lens that is marginal in coverage at infinity focus offers ample coverage on close-ups.

Wide angle lenses are specifically designed to produce exceptionally large image circles in order to produce maximum coverage at infinity focus.

If you need an all-purpose lens. If you are just starting out in large format, you will probably want one lens that will do the greatest number of jobs. Based on our experience, the 210mm lens is an ideal general purpose lens for portraiture, still life, industrial, product shots and some scenic applications with 4 x 5 format cameras.

Preferred Focal Lengths in 4″ x 5″ format photography

Normal Focal Lengths

135mm—150mm (5¼″—6″) Interiors, groups, small parts in close-up, or object photography in restricted working distances with moderate swings and tilts: 6″ lenses (150mm). When maximum camera swings are not important, the 6″ focal length serves well at a minimum cost.

210mm—240mm (8¼″—9½″) The most popular focal length for the illustrator is an 8½″-8¼″ lens on 4″ x 5″ film. Product illustration, maximum perspective correction with full swings and tilts, architectural illustration, head and shoulders portraits.

Long Focal Lengths

240mm—305mm lens (10″—12″) Portraits without distortion, separation of small objects from background, elimination of foreground, photographing round objects.

Short Focal Lengths

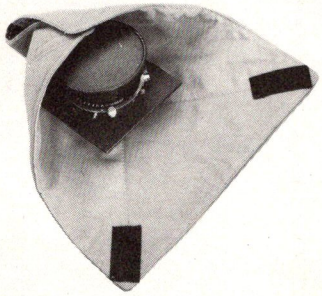
65mm (2⅝″) Super wide (100°) angle, slight camera movement, little rise and fall. Intentional distortion of near objects, universal depth of field.

75mm (3″) Wide angle, slight camera movement, less distortion of near objects.

90mm (3⅝″) Moderate wide angle, satisfactory for room interiors where noticeable distortion would be objectionable, capable of moderate camera movement.

Calumet Lens Wrap

Calumet Lens Wrap



The Calumet lens wrap is the best method we have found to protect large format lenses. The lens wrap has several advantages over conventional methods of lens storage.

- Fits lenses even when mounted on lensboards
- Accepts a wide variety of lens sizes
- Completely adjustable with velcro closures
- No frustrating draw strings
- Provides protection with minimum bulk
- Folds flat when not in use
- Far superior to boxes and lens pouches
- Less expensive than customized lens cases

11″ x 11″ Lens Wrap for lens up to 210mm mounted on 4 x 4″ lensboards.
DK2030 . . . . . **$12.95**
19″ x 19″ Lens Wrap for lens up to 300mm mounted on 6 x 6″ lensboards.
DK2035 . . . . . **$16.95**

Buy 3 Lens Wraps at one time and save 20%.

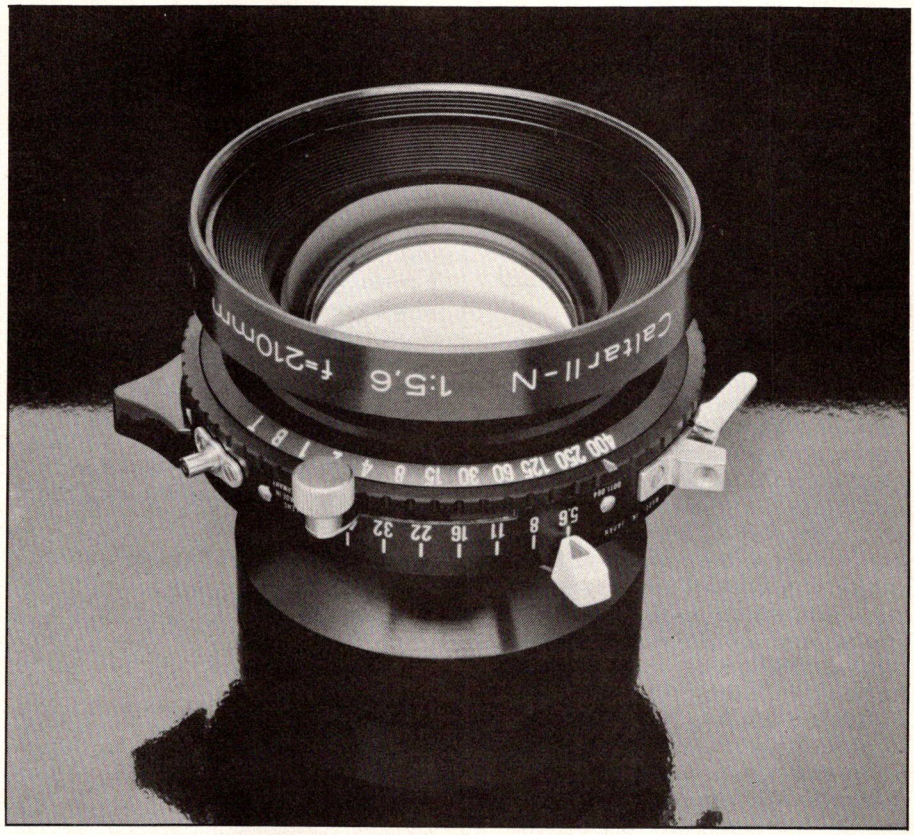
Caltar® II Multicoated Large Format Lenses

When you make the world's most popular view camera, you learn a lot about view camera optics. We took what we learned to one of West Cermany's most respected optics manufacturers, where the strict design specifications of Calumet were teamed with tradition-rich West German precision craftsmanship to create the new Calumet Caltar® II lenses.

The new Caltar® II incorporates six element formulas of the highest quality rare earth glass lenses mounted in precision Copal shutters. The result is a superb collection of view camera lenses which offer the professional the creative excellence you've been searching for, without the typical technical limitations.

The new Caltar® II also incorporates a greatly reduced field of curvature. So, aberration is almost insignificant, and you can stop down from full aperture to the smallest stop with practically no focus shift.

Caltar® II also delivers outstanding corner-to-corner sharpness and a significantly improved illumination at the edges of the field. You'll also be delighted at how Caltar® II faithfully captures even the most delicate colors. The result is a wonderfully balanced color rendition and a superb contrast even at the widest aperture.



	Focal Length	Type of Shutter	Aperture Range	Lens Construction	Multi-Coating	Filter Size	Image Circle	Angle of Coverage	Format Size	Cat. No.	Price
Caltar II Professional Lenses	75mm	Copal 0	6.8-45	6-4	Yes	58mm	187mm**	102°**	4″x5″	CL2751	**$369.95**
	90mm	Copal 0	6.8-45	6-4	Yes	67mm	221mm**	102°**	4″x5″	CL2901	**$369.95**
	135mm	Copal 0	5.6-64	6-4	Yes	40.5mm*	200mm**	72°**	4″x5″	CL2135	**$199.95**
	150mm	Copal 0	5.6-64	6-4	Yes	49mm	214mm**	72°**	4″x5″	CL2150	**$199.95**
	180mm	Copal 1	5.6-64	6-4	Yes	58mm	262mm**	72°**	5″x7″	CL2180	**$269.95**
	210mm	Copal 1	6.8-64	3-3	Yes	49 mm	230mm**	58°**	5″x7″	CL4210	**$199.95**
	210mm	Copal 1	5.6-64	6-4	Yes	67mm	301mm**	72°**	5″x7″	CL2210	**$299.95**
	240mm	Copal 3	5.6-64	6-4	Yes	77mm	350mm**	72°**	8″x10″	CL2240	**$549.95**
	300mm	Copal 3	5.6-64	6-4	Yes	86mm	425mm**	72°**	8″x10″	CL2300	**$799.95**
	360mm	Copal 3	6.8-64	6-4	Yes	105mm	435mm**	64°**	8″x10″	CL2360	**$899.95**

** at f22

*for wider filter selection, use 40.5 to 52mm step-up ring **HR9198 . . . $6.95**

Caltar II-E 210 f6.8—NEW!

Calumet's new arrival in large format lenses is the ideal choice for the beginner in view camera photography. The 210mm f6.8 Caltar II-E represents a unique blend of excellent optics and outstanding value, making it the best selection for the student and the advanced amateur who wants to start exploring the scope of large format photography without spending too much.

Designed for general purpose applications, the 210mm f6.8 Caltar II-E provides sufficient coverage for 4″ x 5″ to permit camera movements. Its multi-coated elements produce improved color rendition and contrast along with excellent sharpness. Its compart 3-element design make this lens a perfect choice for location and field work.

CL4210 . . . . . **$199.95**

FREE LENS CARE KIT!*

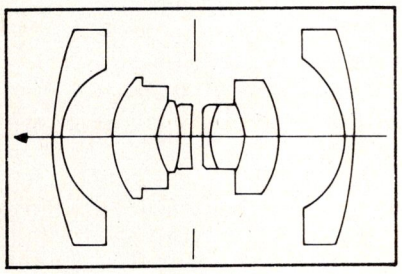
Purchase any Caltar Lens and, in addition to Calumet's standard 5-Way Lens Guarantee, you will receive a FREE Lens Care kit. This adds up to extra value ($33.85) AND extra protection for your lens.

This FREE Lens Care kit includes:

- 19″ x 19″ Calumet Lens Wrap
- ½ oz. Lens Site Lens Cleaner
- Calumet 12″ Professional Cable Release

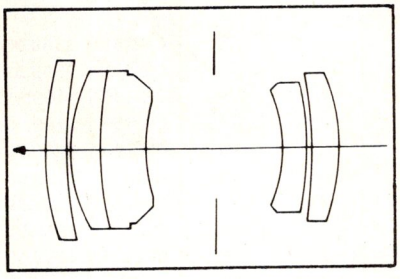
*This offer expires Sept. 30, 1985.

Special Purpose Large Format Lenses



One of the main advantages of large format photography is that it offers more image control than either 35mm or medium format. Part of that image control is made possible by the wide assortment of "special purpose" lenses available to the large format photographer. One facet of Calumet's commitment to the professional photographer is evidenced in our tremendous selection and inventory of these lenses, which are designed to meet the most specific and demanding tasks confronted by the working pro.

The following information is designed to clarify the distinctive differences that exist in the various categories and lens types featured on the following pages. We hope that this will aid you in choosing the optimum lens for your particular photographic problems.



Telephoto Lenses

These lenses are uniquely different from standard long focal length lenses which require a bellows draw equal to their focal length in order to focus at infinity. Telephoto designed lenses will focus at infinity with significantly less bellows extension – approximately ½-¾ their focal length. This enables the use of longer focal length lenses on cameras with restricted bellows; most notably field cameras.

Telephoto Lenses Include:

Fujinon TS Lenses
Nikkor T Series Lenses

Soft Focus Lenses

These lenses provide a means of creating controllable and predictable soft focus images. Grid disks, coupled with intentional spherical aberration of the lens elements (which is the inability of the lens to focus all light rays on one film place), create the equivalent of two images on one film plane. The result is a blending of highlight and shadow which smooths out skin tones, creating a luminous appearance. These lenses do not cause a harshness or a flaring of highlights, characteristic of softening filters, but offer fine definition by preserving a distinct image core. In addition, the photographer is able to vary the intensity of the softening effect for individual images.

Soft Focus Lenses Include:

Fujinon SFS Series Lenses
Rodenstock Imagon Lenses

Apo Lenses

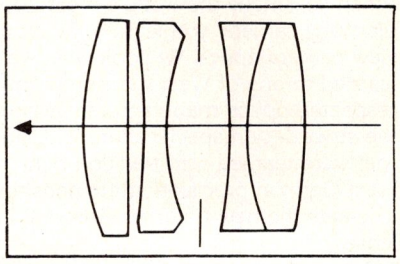
Designed especially for use in the fields of graphic arts and cartography for copying line originals, reproducing monochrome and color originals as well as for half-tone screening and the production of color separation negatives. Symmetrical lens design produces a symmetrical light path, which eliminates or greatly reduces distortion, coma and transverse chromatic aberration and thus guarantee optimum image quality for process work. The symmetrical design of these lenses also eliminates the need to invert the lens when changing from enlargement to reduction.

Apo lenses may be used at full aperture for focusing due to the low residual spherical aberration which produces no appreciable shift of focus.

Since the production of color separation negatives and monochrome records call for sharp, perfectly registered images in separate wavelength ranges within the photographically useful spectrum, the residual color aberration and other chromatic errors must be corrected close to perfection. Only Apo Lenses fulfill this requirement.

Apo Lenses Include:

Fujinon AS Lenses
Fujinon CS Lenses
Nikkor M Series Lenses
Nikkor AM Series Lenses
Rodenstock Apo-Ronar Lenses



Flat Field Lenses

Flat field, Copy or Process lenses (all interchangeable terms) are designed specifically for higher magnifications and reduction ratios (5:1 through 1:5) and generally produce optimum results at 1:1 (i.e. through life size). They are ideally suited for flat field copy work and close-up photography. These lenses feature relatively large image circles at 1X magnification and produce outstanding corner to corner resolution, texture rendition, and light transmission – even at high aperture settings.

Flat field lenses generally employ apocromatic correction, enabling coincidence of focus for red, green and blue. This guarantees that each image exhibits the same uniform sharpness and image size, which is crucial to exacting copy work.

Flat Field Lenses Include:

Fujinon AS Lenses
Nikkor M Series Lenses
Nikkor Apo-Nikkor Lenses
Rodenstock Apo-Ronar Lenses
Schneider G-Claron Lenses

For Fast Delivery
Call Free of Charge

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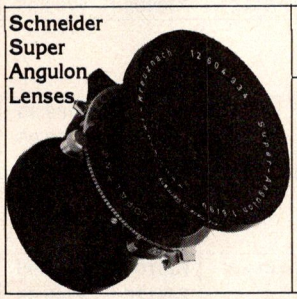
1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

Schneider Lenses

Schneider Super Angulon Lenses

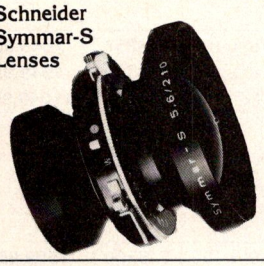
The Schneider Super Angulon is a special purpose ultra wide angle taking lens for medium and large format photography. The Super Angulons are available in an unusually wide range of focal lengths from 47 mm to 210 mm, assuring the right lens for every type of professional application. These high performance lenses are available in two different series, the f/8 and the f/5.6, which provides professional photographers two price categories in superb ultra wide angle taking lenses.



Schneider Super Angulon Lenses	Focal Length	Type of Shutter	Aperture Range	Lens Construction	Multi-Coating	Filter Size	Image Circle	Angle of Coverage	Max. Format Size	Cat. No.	Price
	47mm	Copal 0	5.6-45	8-4	Yes	49mm	123mm**	105°**	2¼" x 3¼"	SC6475	$529.95
	65mm	Copal 0	5.6-45	8-4	Yes	67mm	170mm**	105°**	4" x 5"	SC6655	$599.95
	75mm	Copal 0	5.6-45	8-4	Yes	67mm	198mm**	105°**	4" x 5"	SC6755	$769.95
	90mm	Copal 0	8.0-45	6-4	Yes	67mm	216mm**	100°**	4" x 5"	SC6908	$399.95
	90mm	Copal 0	5.6-45	8-4	Yes	82mm	235mm**	105°**	5" x 7"	SC6905	$899.95
	120mm	Copal 0	8.0-64	6-4	Yes	82mm	288mm**	100°**	5" x 7"	SC6120	$769.95
	165mm	Copal 3	8.0-64	6-4	Yes	105mm	393mm**	100°**	8" x 10"	SC6165	$1799.95
	210mm	Copal 3	8.0-90	6-4	Yes	127mm	498mm**	100°**	8" x 10"	SC6211	$2999.95

Schneider Symmar-S Lenses

The Symmar-S, with its 6-element, 4-group construction, is the latest development of the world-famous Symmar. The carefully balanced performance, improved image quality, multi-coating and adaption of mechanical mount and design to meet today's challenging demands characterize the Symmar-S as the superior camera lens for the professional photographer.



Schneider Symmar-S Lenses	100mm	Copal 0	5.6-45	6-4	Yes	40.5mm	143mm*	70°**	2¼" x 3¼"	SC6100	$249.95
	120mm	Copal 0	5.6-45	6-4	Yes	49mm	141mm**	70°**	2¼" x 3¼"	SC6121	$289.95
	135mm	Copal 0	5.6-45	6-4	Yes	49mm	190mm**	70°**	4" x 5"	SC6135	$259.95
	150mm	Copal 0	5.6-45	6-4	Yes	58mm	210mm**	70°**	4" x 5"	SC6150	$269.95
	180mm	Copal 1	5.6-45	6-4	Yes	67mm	252mm**	70°**	5" x 7"	SC6180	$349.95
	210mm	Copal 1	5.6-45	6-4	Yes	77mm	294mm**	70°**	5" x 7"	SC6210	$389.95
	240mm	Copal 3	5.6-45	6-4	Yes	86mm	337mm**	70°**	8" x 10"	SC6240	$799.95
	300mm	Copal 3	5.6-64	6-4	Yes	105mm	411mm**	70°**	8" x 10"	SC6300	$999.95
	360mm	Copal 3	6.8-64	6-4	Yes	120mm	491mm**	70°**	11" x 14"	SC6360	$1199.95
	480mm	Copal 3	8.4-64	6-4	Yes	105mm	500mm**	56°**	11" x 14"	SC6480	$1799.95

Schneider G-Claron Lenses

Especially designed for flat field work, G-Claron lenses are also excellent for closeups, table-top, and photomacrography. Their 6 element/4 group symmetrical lens design is optimized for magnifications around 1:1 and they reproduce with outstanding definition from line, continuous and half-tone originals. G-Clarons also feature large image circles for extreme camera movements.

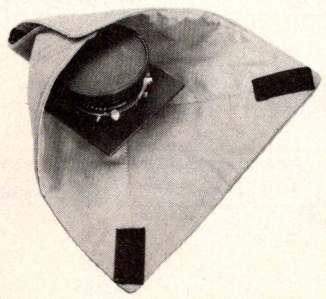
Schneider G-Claron Lenses	150mm	Compur 0	9-64	6-4	Yes	35.5mm	385mm***	64°**	8" x 10"	SC7150	$279.95
	210mm	Compur 1	9-64	6-4	Yes	49mm	520mm***	64°**	11" x 14"	SC7210	$359.95
	240mm	Compur 1	9-64	6-4	Yes	52mm	598mm***	64°**	14" x 17"	SC7240	$399.95
	270mm	Compur 1	9-64	6-4	Yes	58mm	669mm***	64°**	16" x 20"	SC7270	$459.95
	305mm	Compur 1	9-64	6-4	Yes	67mm	763mm***	64°**	16" x 20"	SC7305	$499.95
	355mm	Compur 3	9-64	6-4	Yes	77mm	887mm***	64°**	20" x 24"	SC7355	$749.95

***At 1:1 (image circle at infinity is approx. ½ this size)

**AT f/22
*AT f/16

Prices and specifications subject to change without notice.

Calumet Lens Wrap



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11" x 11" Lens Wrap for lens up to 210mm mounted on 4 x 4" lensboards.
DK2030. . . . . **$12.95**

19" x 19" Lens Wrap for lens up to 300mm mounted on 6 x 6 lensboards.
DK2035. . . . . **$16.95**

Buy 3 Lens Wraps at one time and save 20%.

Fujinon Lenses

Fujinon SWDS Lenses

	Focal Length	Type of Shutter	Aperture Range	Lens Construction	Multi-Coating	Filter Size	Image Circle	Angle of Coverage	Format Size	Cat. No.	Price
Fujinon SWDS Lenses	65mm	Copal 0	5.6-45	6-8	Yes	67mm	169mm**	105°**	4" x 5"	FJ0655	**$649.95**
	75mm	Copal 0	5.6-64	6-8	Yes	67mm	196mm**	105°**	4" x 5"	FJ0755	**$749.95**
	90mm	Copal 0	5.6-64	6-8	Yes	82mm	236mm**	105°**	5" x 7"	FJ0905	**$799.95**

Fujinon NSWS Lenses

Fujinon NSWS Lenses	90mm	Copal 0	8-45	6-6	Yes	67mm	216mm**	100°**	5" x 7"	FJ0908	**$389.95**
	105mm	Copal 0	8-45	6-6	Yes	77mm	250mm**	100°**	5" x 7"	FJ1058	**$729.95**
	125mm	Copal 0	8-45	6-6	Yes	86mm	290mm**	100°**	5" x 7"	FJ1258	**$769.95**

Fujinon NWS Lenses

Fujinon NWS Lenses	105mm	Copal 0	5.6-45	6-6	Yes	46mm	162mm**	76°**	4" x 5"	FJ3105	**$329.95**
	125mm	Copal 0	5.6-64	6-6	Yes	55mm	198mm**	76°**	4" x 5"	FJ3125	**$349.95**
	135mm	Copal 0	5.6-64	6-6	Yes	52mm	206mm**	76°**	4" x 5"	FJ3135	**$279.95**
	150mm	Copal 0	5.6-64	6-6	Yes	55mm	224mm**	76°**	5" x 7"	FJ3150	**$279.95**
	180mm	Copal 1	5.6-64	6-6	Yes	62mm	280mm**	76°**	5" x 7"	FJ3180	**$359.95**
	210mm	Copal 1	5.6-64	5-6	Yes	67mm	300mm**	71°**	8" x 10"	FJ3210	**$389.95**
	250mm	Copal 1	6.3-64	4-6	Yes	67mm	312mm**	64°**	8" x 10"	FJ3253	**$599.95**

Fujinon WS Lenses

Fujinon WS Lenses	250mm	Copal 1	6.7-64	4-6	No	67mm	398mm**	80°**	8" x 10"	FJ3257	**$649.95**
	300mm	Copal 3	5.6-90	4-6	Yes	77mm	420mm**	80°**	8" x 10"	FJ3300	**$949.95**
	360mm	Copal 3	6.3-90	4-6	Yes	86mm	485mm**	80°**	11" x 14"	FJ3360	**$1049.95**

Fujinon CS Lenses

This compact, apochromatic series, designed for both close-up and distant shooting, is optimized for 1:5 to infinity. 4-component/4-element design delivers outstanding cost-performance, and yet assures sharpness and produces a relatively large image circle.

Fujinon CS Lenses	300mm	Copal 1	8.5-64	4-4	Yes	49mm	420mm**	66°**	8" x 10"	FJ5300	**$599.95**
	450mm	Copal 1	12.5-64	4-4	Yes	49mm	486mm**	57°**	11" x 14"	FJ5450	**$799.95**
	600mm	Copal 3	11.5-64	4-4	Yes	67mm	620mm**	55°**	14" x 17"	FJ5600	**$1299.95**

Fujinon TS Lenses

These long focal length lenses are especially suitable for field cameras having limited bellows extension. Their telephoto design requires minimal bellows extension in spite of focal length.

Fujinon TS Lenses	300mm	Copal 0	8-64	5-5	Yes	67mm	213mm**	39°**	5" x 7"	FJ6300	**$599.95**
	400mm	Copal 1	8-64	5-5	Yes	67mm	220mm**	31°**	5" x 7"	FJ6400	**$799.95**
	600mm	Copal 1	12-90	5-5	Yes	67mm	260mm**	24°**	5" x 7"	FJ6600	**$999.95**

Fujinon AS Lenses

These are 6-element, "super-apochromatic" lenses in which residual color aberration has been corrected close to perfection. Especially designed for close-up and copy work, yet their compactness makes them excellent for location work.

Fujinon AS Lenses	180mm	Copal 0	9-90	4-6	Yes	46mm	252mm**	70°**	5" x 7"	FJ4180	**$449.95**
	240mm	Copal 0	9-90	4-6	Yes	52mm	336mm**	70°**	8" x 10"	FJ4240	**$469.95**
	300mm	Copal 1	9-90	4-6	Yes	55mm	420mm**	70°**	8" x 10"	FJ4300	**$629.95**
	360mm	Copal 1	10-90	4-6	Yes	58mm	504mm**	70°**	11" x 14"	FJ4360	**$799.95**

Fujinon SFS Lenses

These high quality soft focus lenses virtually eliminate the need for retouching. Softness control is provided by two custom grids which allow you to adjust softening effect. Tones are natural and highlights are outstanding.

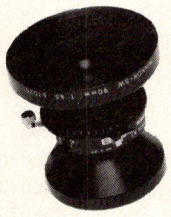
Fujinon SFS Lenses	180mm	Copal 1	5.6-22	3-3	No	46mm	200mm**	58°**	4" x 5"	FJ7180	**$499.95**
	250mm	Copal 3	5.6-22	3-3	No	67mm	300mm**	58°**	5" x 7"	FJ7250	**$529.95**

**f/22

Nikkor Lenses

Nikkor SW Series Lenses

Wide covering power and wide image circle characterize these new Nikkor lenses for large format cameras. Each lens also delivers high resolution, and aberrations have been strictly controlled.



Nikkor SW Series Lenses	Focal Length	Type of Shutter	Aperture Range	Lens Construction	Multi-Coating	Filter Size	Image Circle	Angle of Coverage	Max. Format Size	Cat. No.	Price
	65mm	Copal 0	4.0-45	7-4	Yes	67mm	170mm*	105°*	4″ x 5″	NL1805	$ 649.95
	75mm	Copal 0	4.5-45	7-4	Yes	67mm	200mm*	106°*	4″ x 5″	NL1807	$ 679.95
	90mm	Copal 0	4.5-64	7-4	Yes	82mm	235mm*	105°*	5″ x 7″	NL1810	$ 769.95
	90mm	Copal 0	8.0-64	8-4	Yes	67mm	235mm**	105°**	5″ x 7″	NL1815	$ 449.95
	120mm	Copal 0	8.0-64	8-4	Yes	77mm	312mm*	105°	8″ x 10″	NL1816	$ 729.95
	150mm	Copal 1	8.0-64	8-4	Yes	95mm	400mm*	106°*	8″ x 10″	NL1817	$1249.95

Nikkor-W Series Lenses

Lenses in this series exhibit a high degree of freedom from distortion, curvature of field, and chromatic aberration. Contrast and color reproduction are enhanced through the use of Nikon Integrated Coating. The W series is recommended for a variety of subjects, including landscapes, portraits, architecture, and table-top photography.

Nikkor W Series Lenses											
	105mm	Copal 0	5.6-45	6-4	Yes	40.5mm	153mm*	74°**	4″ x 5″	NL1818	$ 259.95
	135mm	Copal 0	5.6-64	6-4	Yes	52mm	200mm**	73°**	4″ x 5″	NL1820	$ 259.95
	150mm	Copal 0	5.6-64	6-4	Yes	52mm	210mm**	70°**	4″ x 5″	NL1830	$ 289.95
	180mm	Copal 1	5.6-64	6-4	Yes	67mm	253mm**	70°**	5″ x 7″	NL1840	$ 349.95
	210mm	Copal 1	5.6-64	6-4	Yes	67mm	295mm**	70°**	5″ x 7″	NL1850	$ 399.95
	240mm	Copal 3	5.6-64	6-4	Yes	82mm	336mm**	70°**	8″ x 10″	NL1860	$ 679.95
	300mm	Copal 3	5.6-64	6-4	Yes	95mm	420mm**	70°**	8″ x 10″	NL1865	$ 899.95

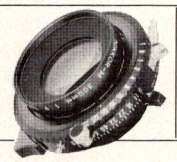
Nikkor-M Series Lenses

The 300mm F9 and 450mm F9 employ the same optical system used in the Apo-Nikkor, a lens which meets the stringent standards of reproduction and photoengraving applications. Chromatic aberrations are corrected for the entire visible portion of the spectrum, and faithful reproduction of subtle variations in color are assured.

Nikkor M Series Lenses											
	200mm	Copal 0	8-64	4-3	Yes	52mm	210mm**	55°**	4″ x 5″	NL1869	$ 349.95
	300mm	Copal 1	9-128	4-3	Yes	52mm	325mm**	57°**	8″ x 10″	NL1870	$ 379.95
	450mm	Copal 3	9-128	4-3	Yes	67mm	440mm**	52°**	8″ x 10″	NL1880	$ 679.95

Nikkor-T Series Lenses

These telephoto-type lenses require less bellows draw than standard design lenses of the same focal length. These lenses are designed with compatible rear components so that once a complete lens is purchased a second focal length can be made by simply purchasing a rear lens component. Two f-stop scales are provided on compatible front lens components. Please call Calumet for prices and information on separate lens components.



Nikkor T Series Lenses											
	270mm	Copal 1	6.3-64	5-4	Yes	67mm	160mm**	33°**	4″ x 5″	NL1890	$ 679.95
	360mm	Copal 1	8.0-64	5-4	Yes	67mm	210mm**	33°**	4″ x 5″	NL1894	$ 849.95
	500mm	Copal 1	11-64	6-4	Yes	67mm	210mm**	24°**	4″ x 5″	NL1896	$ 949.95
	600mm	Copal 3	9-64	6-5	Yes	95mm	310mm**	29°**	5″ x 7″	NL1898	$1149.95
	800mm	Copal 3	12-64	7-5	Yes	95mm	310mm**	22°**	5″ x 7″	NL1900	$1199.95

Nikkor-AM Series Lens

This Apo-Macro Lens is designed exclusively for close-up work. It is optimized for 1 X magnification.

APO-Macro ED	120mm	Copal 0	5.6-45	8-4	Yes	52mm	250mm**	55°**	4″ x 5″	NL1867	$ 649.95

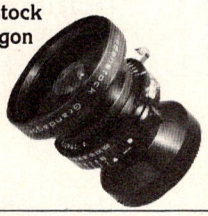
***At 1 X. (image circle at infinity is 125mm.)

*AT f/16 **AT f/22

Rodenstock Lenses

Rodenstock Grandagon Lenses

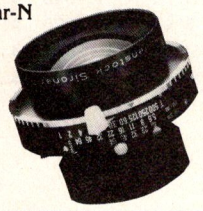
Grandagon extreme wide angle lenses are distinguished by their excellent color correction and even illumination over the entire image area, important advantages particularly when extreme camera movements are used, with flatness of field, freedom from distortion and superior contrast rendition. Grandagons were awarded the 1976 "Seal of Quality and Highest Standards" by Europhot, the prestigious European Professional Photographers Association.

	Focal Length	Type of Shutter	Aperture Range	Less Construction	Multi-Coating	Filter Size	Image Circle	Angle of Coverage	Format Size	Cat. No.	Price
Rodenstock Grandagon 	65mm	Copal 0	4.5-45	8-4	Yes	67mm	170mm*	105°*	4″ x 5″	**RS2000**	**CALL**
	75mm	Copal 0	4.5-45	8-4	Yes	67mm	195mm*	105°	4″ x 5″	**RS2010**	**CALL**
	90mm	Copal 1	4.5-45	8-4	Yes	82mm	236mm*	105°*	5″ x 7″	**RS2020**	**CALL**
	75mm	Copal 0	6.8-45	6-4	Yes	58mm	187mm*	100°*	4″ x 5″	**RS2005**	**CALL**
	90mm	Copal 0	6.8-45	6-4	Yes	67mm	221mm*	102°*	5″ x 7″	**RS2015**	**CALL**
	115mm	Copal 1	6.8-45	6-4	Yes	82mm	291mm*	104°*	5″ x 7″	**RS2025**	**CALL**
	155mm	Copal 1	6.8-45	6-4	Yes	105mm	369mm*	102°*	8″ x 10″	**RS2030**	**CALL**
	200mm	Copal 3	6.8-45	8-4	Yes	135mm	495mm**	102°**	11″ x 14″	**RS2035**	**CALL**

Rodenstock Sironar-N Lenses

The Sironar-N provides a unique combination of performance features. Its corner-to-corner resolution, superb contrast and freedom from distortion are unexcelled. Above all, the Sironar-N offers a degree of color fidelity normally found only in apochromatic lenses!

With 65° coverage wide open, 72° when stopped down, Sironar-N lenses allow the creative photographer complete freedom in applying camera movements.

Rodenstock Sironar-N 	100mm	Copal 0	5.6-45	6-4	Yes	40.5mm	147mm*	70°**	2¼″ x 3¼″	**RS1000**	**CALL**
	135mm	Copal 0	5.6-45	6-4	Yes	40.5mm	188mm*	72°**	4″ x 5″	**RS1005**	**CALL**
	150mm	Copal 0	5.6-64	6-4	Yes	49mm	208mm*	72°**	4″ x 5″	**RS1010**	**CALL**
	180mm	Copal 1	5.6-64	6-4	Yes	58mm	252mm*	72°**	5″ x 7″	**RS1015**	**CALL**
	210mm	Copal 1	5.6-64	6-4	Yes	67mm	286mm*	72°**	5″ x 7″	**RS1020**	**CALL**
	240mm	Copal 3	5.6-64	6-4	Yes	77mm	337mm*	72°**	8″ x 10″	**RS1025**	**CALL**
	300mm	Copal 3	5.6-64	6-4	Yes	86mm	407mm*	72°**	8″ x 10″	**RS1030**	**CALL**
	360mm	Copal 3	6.8-64	6-4	Yes	105mm	435mm*	64°**	8″ x 10″	**RS1035**	**CALL**
	480mm	Copal 3	8.4-90	6-4	Yes	112mm	500mm**	56°**	11″ x 14″	**RS1040**	**CALL**

Rodenstock Apo-Ronar Lenses

These versatile apochromatically corrected lenses produce optimum color fidelity, contrast, definition and freedom from distortion. Ideally suited for exacting close-up work in commercial and industrial applications, the Apo-Ronar's yield consistent quality in shots from same-size reproduction to subjects at infinity (i.e. landscapes). The correction of all aberrations has been attained by the summetrical design of the lens and the use of high-refractive index glass. And, because of the Apo-Ronar's small size and simple four element lens design, these lenses offer a great value at moderate prices. Please note the image circle size when selecting a lens to make sure the lens you choose is practical for your format size. The relatively restricted 45° angle of view with a slightly slower than usual maximum aperature permits outstanding correction of aberrations with virtually no astigmatism.

Rodenstock Apo-Ronar Lenses	150mm	Copal 0	9-64	4-4	Yes	40.5mm	135mm**	48°**	2¼″ x 3¼″	**RS4150**	**CALL**
	240mm	Copal 1	9-90	4-4	Yes	49mm	212mm**	48°**	4″ x 5″	**RS4240**	**CALL**
	300mm	Copal 1	9-90	4-4	Yes	49mm	264mm**	48°**	5″ x 7″	**RS4300**	**CALL**
	360mm	Copal 3	9-90	4-4	Yes	58mm	318mm**	48°**	8″ x 10″	**RS4360**	**CALL**
	480mm	Copal 3	9-90	4-4	Yes	67mm	396mm**	46°**	8″ x 10″	**RS4480**	**CALL**

Rodenstock Macro-Sironar Lenses

An innovative, high performance lens especially designed for close-up photography. This six element lens produces first class quality between the limits of 3x reduction and 3x enlargement. For guaranteed image reproduction quality beyond these limits, the optical elements can be set in different positions in the shutter according to the desired image scale, (with a clear symbol on each front mount that shows the state of correction of the lens). The Macro-Sironars produce excellent color rendition.

Rodenstock Macro-Sironar Lenses	210mm	Copal 3	5.6-64	6-4	Yes	67mm	525mm***	64°**	8″ x 10″	**RS1022**	**CALL**
	300mm	Copal 3	5.6-64	6-4	Yes	77mm	550mm***	50°**	8″ x 10″	**RS1032**	**CALL**

***Image circle at 1x magnification.

**AT f/22

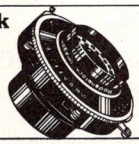
*AT f/16

Prices and specifications subject to change without notice.

Rodenstock Lenses

Rodenstock Imagon Lenses

While the Imagon was originally designed as a portrait or fashion lens, to produce a controllable variable range of softness and reduce retouching, it has also proved extremely useful in a wide range of commercial and landscape applications. Desired degrees of definition are controlled by perforated slip-on disks with differently sized center and marginal aperatures. With the smallest opening, the secondary, "halo" image can be minimized to produce sharpness approaching that of an anastigmat lens. Imagons are supplied with three adjustable soft focus discs, a 4X neutral density filter, and a lens shade.

Rodenstock Imagon Lenses 	Focal Length	Type of Shutter	Aperture Flange	Lens Construction	Multi-Coating	Filter Size	Image Circle	Angle of Coverage	Format Size	Cat. No.	Price
	200mm	Copal 3	5.8-11.5	3-2	No	55 S.O.	150mm***	—	2¼" x 3¼"	RS2500	CALL
	250mm	Copal 3	5.8-11.5	3-2	No	55 S.O.	180mm***	—	4" x 5"	RS2510	CALL
	300mm	Copal 3	6.8-11.5	3-2	No	55 S.O.	220mm***	—	5" x 7"	RS2515	CALL

***at f/11.5

Field Test: Rodenstock Makro Sironar

Photo by David Brooks

By David Brooks

The new Makro Sironar from Rodenstock is a special design for closeup photography with a 4 x 5 camera and is unusual in this field with a 210mm focal length which is most commonly used for studio photography. The most obvious application for this new lens would be small product illustration. However, compared to how macro lenses for 35mm cameras are used to photograph all kinds of subjects large and small at various focusing distances including infinity, my field test was as much concerned with the potential versatility of the lens.

In the studio the new Rodenstock Makro is much like any good 210 to use. The lens speed is the same as most six-element wide field lenses so there is no disadvantage in viewing or focusing. I did notice, compared to a standard Sironar N a slight advantage in contrast. The image in the ground glass seemed crisper and a little easier to focus. The results using the finest grained black and white 4 x 5 film available confirmed what I was seeing in the ground glass. Both the standard Sironar N and the Makro resolve just about as much in the way of sharp definition as the film is capable of recording. The Makro lens proved an advantage in separating subtle internal contrast. This may seem to be a subtle distinction, but considering the nature of many studio illustrator's subjects which often involve fine gradations of tone, it should be a very practical advantage.

My testing of the Sironar Makro involved even more work with larger subjects including quite a few landscapes. I chose to work in the desert because of its inherent low subject contrast and ready availability of fine detail like the spines of cactus and the thin pointed fronds of palms. With some of these subjects I also chose to shoot in strong backlit situations to test for flare affecting the performance as well as the lens' ability to maintain the excellent internal contrast performance it displayed in the studio.

The results I obtained using the Sironar Makro 210mm lens for longer subject conjugates than the range for which it was designed was very rewarding. Even at infinity and close to infinity focusing distances the resolution performance of the Makro at least matches both the Sironar N and my six element plasmat. Backlighting did not produce any more flare than I would expect with any lens and the internal contrast, particularly definition and tone separation in shadows, was excellent.

My conclusion from my tests of the lens is that it does provide superb performance in the realm of work it was designed for. In addition it is a versatile lens capable of performance comparable to any professional quality optic of the same focal length. The Makro is an especially easy lens to work with as far as focusing is concerned. Its size and weight may prove a limitation outside of the studio and some photographers may be limited by the short shutter speed range of its Copal 3 shutter.

Rodenstock Makro-Sironar Lenses—Now in Stock!

210mm Makro-Sironar f5.6
RS1022 . . . . . **CALL**

300mm Makro-Sironar f5.6
RS1032 . . . . . **CALL**

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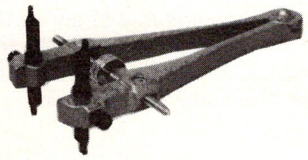
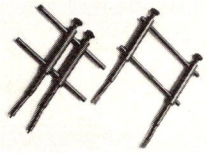
Tools and Magnifiers



Deluxe Spanner Wrench

Versatile spanner wrench designed especially for camera and optical work. Precision screw drive adjustment, adjusts quickly and easily from 0" to 3" diameters. Hardened flat bladed tips. Excellent for mounting large format lenses on lensboards.

HR1010 . . . . . **$64.95**



Lens Spanner Wrench Set

Includes both blade and pin type wrenches adjustable to 78mm. Steel construction.

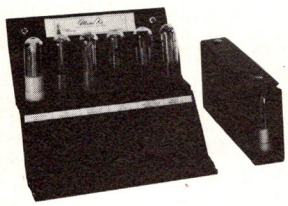
KT1020 . . . . . **$29.95**

Moody Maxi Tool Set

A complete 22-pc. set of precision miniature tools. Set includes:

- Six screwdriver blades in sizes .025," .040," .055," .070," .080" and .100."
- Two cross-recessed drivers Nos. 0 and 1.
- Five open-end wrenches in sizes 5/64," 3/32," 7/64," 1/8" and 5/32."
- Three Allen wrenches Nos. 4, 6 and 8.
- Five socket wrenches in sizes 5/64," 3/32," 7/64," 1/8" and 5/32."
- One awl

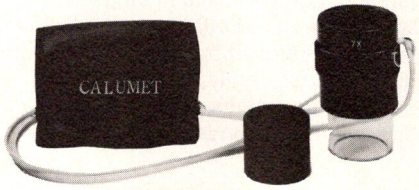
BR8880 . . . . . **$21.95**



Moody Master Tool Kit

Six different kits in one, contains screwdriver and awl kit, phillips driver and allen wrench kit, socket wrench kit, offset open end wrench kit, a drill kit, and a tap kit. Each kit has knurled, non-slip Moody Swivel Top handle and 5 interchangeable tool ends.

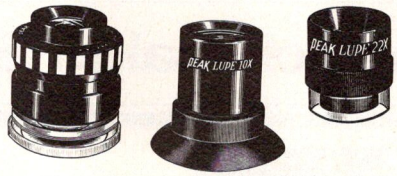
BR8886 . . . . . **$64.95**



Calumet Focusing Magnifier

The 7x magnification of the Calumet focusing lupe is ideal for critical focusing on the ground glass. Features dioptric adjustment and comes complete with opaque barrel, clear barrel, neck strap and case.

HR1000 . . . . . **$32.95**



4X Anastigmatic Lupe designed to allow the user to observe the entire 58mm viewing area up to 1 inch from the eyepiece. This lupe is optically corrected for curvature of field and aberrations to insure image sharpness from edge to edge. Features dioptric adjustments, removable glass millimeter scale and clear barrel for illuminating opaque objects. Excellent for viewing 35mm and 2¼ slides.

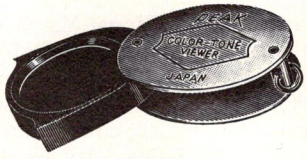
PC1990 . . . . . **$59.95**

10X lupe with suction cup for attachment to any flat surface. Attach to the ground glass of large format cameras for more convenient focusing. The suction cup is removable for conventional use of the lupe.

PC1993 . . . . . **$21.95**

22X high quality, powerful lupe with a coated achromatic lens. Construction 4 elements in 3 groups.

PC1964 . . . . . **$29.95**



Viewing Filters

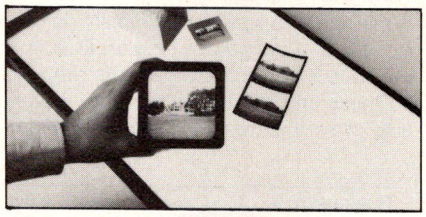
Viewing filters give tonal values as they will be reproduced by film. Previews shadow and highlight detail. Folds into metal case. Includes eyelet for neck cord. Viewing filter for color film.

PC1967 . . . . . **$19.95**

Viewing filter for B&W film.

PC1968 . . . . . **$19.95**

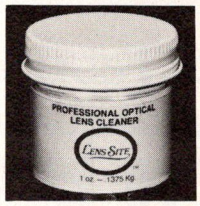
Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.



Transparency Magnifier

The unique double lens design of this viewer focuses the image for viewing at a distance. No need to bend close. Ideal for use on any lightbox. Large 3" x 3" viewing area.

MX4080 . . . . . **$19.95**



Lens Site Professional Lens Cleaner

Lens Site professional lens cleaner is specially formulated for use on all precision optical surfaces. Originally developed for medical and scientific optics. Lens Site is non-abrasive and restores the lens surface to its original, clean, oil-free state.

Anti-static ingredients repel dust and lint to keep the lens surface clean longer. Anti-fog properties help prevent lens fog which is a problem in humid areas. Lens Site can be used on coated and uncoated lenses, filters and filter gels.

Lens Site is a convenient, easy to use paste which cleans and polishes the lens surface without streaking.

Lens Site professional lens cleaner.

1 oz. **AA3600** **$5.95**

Staticmaster Brushes

Features polonium strip that neutralizes and eliminates static electricity. With replaceable cartridge.

1" Model. **BR8830** **$10.95**

1" Replacement Cartridge.

BR8831 . . . . . **$6.95**

3" Model. **BR8832** **$21.95**

3" Replacement Cartridge.

BR8833 . . . . . **$14.95**

Connector for joining 3" models.

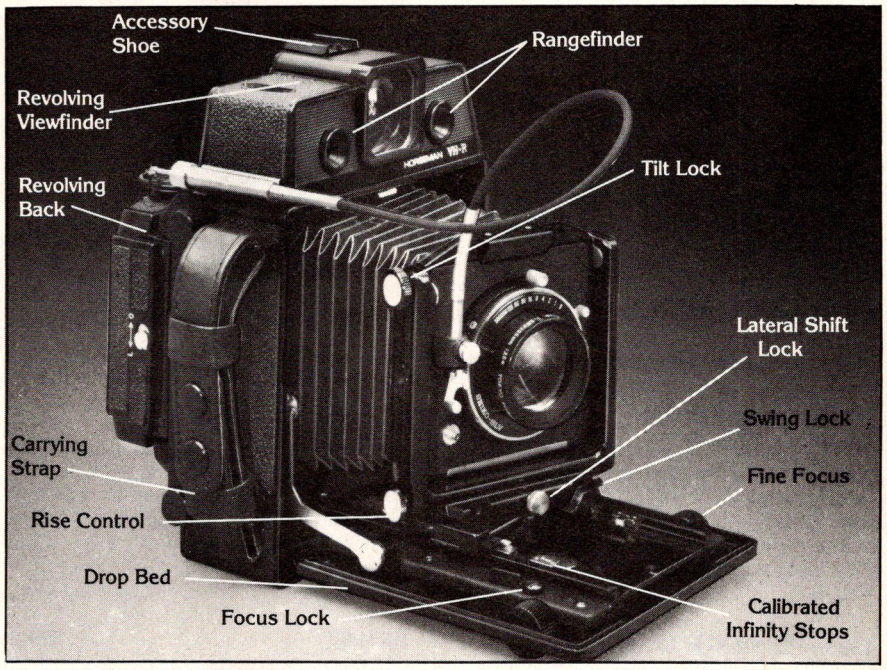
BR8835 . . . . . **$2.50**

The Horseman VH-R Medium Format Camera

If you demand more than your 35mm camera offers, and require greater creative freedom, then the Horseman VH-R is the right camera for you. It's ideal for location photography and nature shots because it's a lightweight, folding camera that's compact and easy to carry or back-pack. With view camera movements, the VH-R offers a variety of large format picture sizes from 6 x 7 cm to 4" x 5" with accessory back.

SPECIFICATIONS

- Large 6 x 7cm format
- Design: Flat bed, folding technical field camera
- Rangefinder: Cam coupled for all Horseman lenses
- Revolving optical viewfinder
- Build-in revolving ground glass back, 6 x 9cm
- Parallax: Automatically corrected (85%)
- Bed Drop: 15°
- Lateral Shift: 30mm
- Maximum Extension: 272mm (10.7")
- Tilt: Front +10°-15°, Back ±11°
- Swing: Foot ±15°, Back ±10°
- Weight: 4.4 Lbs.



Horseman VH-R camera body only (less lens and roll film holder) includes ground glass back for 6 x 9cm sheet film.

HR9000 ..... **$399.00***

*With purchase of any VH-R lens.

Prices Reduced On VH-R Camera and Lenses

Horseman Lenses* and Lensboards

65mm f/7.0 Super Wide Angle (40.5Ø)
HR9065 ..... **$379.95**

75mm f/5.6 professional Wide Angle (40.5Ø)
HR9075 ..... **$299.95**

90mm f/5.6 Super Standard Lens (40.5Ø)
HR9090 ..... **$299.95**

105mm f/3.5 professional (40.5Ø)
HR9105 ..... **$299.95**

105mm f/4.5 Super Standard Lens, (will cover 4" x 5" format) (52Ø)
HR9106 ..... **$449.95**

120mm f/5.6 Super Standard, (will cover 4" x 5" format) (40.5Ø)
HR9120 ..... **$349.95**

150mm f/5.6 Super Lens, (will cover 4" x 5" format) (40.5Ø) **HR9150** **$299.95**

180mm f/5.6 telephoto (52Ø)
HR9180 ..... **$299.95**

Blank Std. flat lensboard
HR9190 ..... **$34.95**

Lensboard for Copal 1 Shutters
HR9195 ..... **$49.95**

Recessed lensboard **HR9192** **$46.95**

Cable Release **HR9199** **$12.95**

NOTE: A focusing cam is furnished with each lens. Lenses come mounted in a lensboard. Extra cams for any lens. $24.95 ea.

*VHR Lenses are supplied with lensboards.

For complete information, call or write Calumet for the Horseman VH-R brochure.

VH-R Accessories

Horseman Electrical Grip

Electrical grip with solenoid release and remote control switch
HR9395 ..... **$99.95**

Rotary Back

Horseman Rotary Back Type 1 for use with Model 980, 985 and VH Camera. Ground glass back or film holder not included
HR9370 ..... **$269.95**

Horseman Carrying Case

Carry case, compartmented, black leather-like finish **HR9385** **$129.95**

Horseman heavy duty deluxe alum. carrying case w/velvet lining
HR9387 ..... **$154.95**

Horseman Flash Brackets

38mm flash clamps (sets of 2)
HR9396 ..... **$26.95**

45mm flash clamps (sets of 2)
HR9397 ..... **$26.95**

Horseman Sheet and Roll Film Holders

Sheet film holder 6 x 9cm 1 exposure
HR9305 ..... **$34.95**

6 x 9cm, 2¼" x 3¼", 8 exposures on 120 roll **HR9310** **$199.95**

6 x 7cm, 2¼" x 2¾", 10 exposures on 120 roll **HR9320** **$199.95**

6 x 9cm, 2¼" x 3¼", 16 exposures on 220 roll **HR9330** **$199.95**

6 x 7cm, 2¼" x 2¾", 20 exposures on 220 roll **HR9340** **$199.95**

Horseman Lens Hoods

Fits 90mm, 105mm professional, 150mm and 120mm **HR9210** **$12.95**

Fits 65mm and 75mm
HR9212 ..... **$12.95**

Horseman VH-R 4" x 5" Adapter and Accessories

All new 4" x 5" format, ground glass back with focusing bellows, fits 6 x 9cm Graflok
HR9350 ..... **$249.95**

Horseman Polaroid Pack Film Holder

Uses Polaroid B exposure film packs. Includes spacer for rangefinder cam.
HR9360 ..... **$179.95**

Focusing Glass for Polaroid Back.

Provides ground glass for focusing in same plane as Polaroid film holder.
HR9362 ..... **$38.95**

Horseman Optical Exposure Computer Through-The-Lens Exposure Meter

Fits like 2¼" x 3¼" sheet film holder
HR9380 ..... **$249.95**

Soft leather case for exposure meter
HR9381 ..... **$19.95**

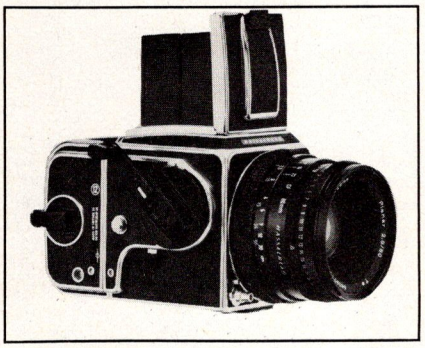
"B" Battery PX-640 **DU6400** **$2.50**

"A" Battery TR-114R **DU6195** **$7.00**

4" x 5" adapter for HR9380
HR9382 ..... **$42.95**

Optical angle viewer
HR9355 ..... **$149.95**

Hasselblad Medium Format



Hasselblad 500C/M

500C/M Chrome Body (without lens and magazine). Supplied complete with standard winding knob, standard focusing hood, standard focusing screen, neck strap, front protective cover, and rear protective cover. Three year warranty.
HA1000 . . . . . **$579.95**

Hasselblad CF Lenses

30mm CF Distagon f3.5 T* Fisheye
HA1100 . . . . . **$2199.95**
40mm CF Distagon f4 T*
HA1105 . . . . . **$1599.95**
50mm CF Distagon f4 T*
HA1110 . . . . . **$989.95**
60mm CF Distagon f3.5 T*
HA1115 . . . . . **$969.95**
80mm CF Planar f2.8 T*
HA1120 . . . . . **$649.95**
100mm CF Planar f3.5 T*
HA1125 . . . . . **$949.95**
120mm CF S-Planar f4 T*
HA1135 . . . . . **$1079.95**
135mm CF S-Planar f5.6 T*
HA1140 . . . . . **$949.95**
150mm CF Sonnar f4 T*
HA1145 . . . . . **$1059.95**
250mm CF Sonnar f5.6 T*
HA1150 . . . . . **$1129.95**
250mm Superachromat f5.6
HA1155 . . . . . **$1949.95**
350mm CF Tele-Tessar f5.6 T*
HA1160 . . . . . **$1699.95**
500mm CF Tele-Apotessar f8.0 T*
HA1165 . . . . . **2249.95**

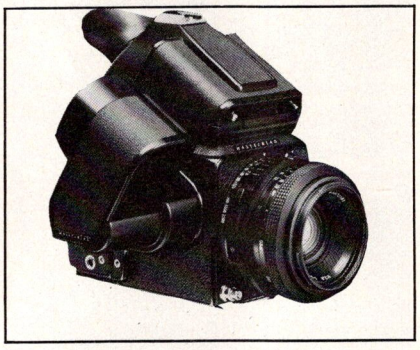
Hasselblad Viewfinders

PM Prism Finder—Yields unreversed image 3X larger than focus screen. 45° sighting angle. Built-in flash shoe.
HA2257 . . . . . **$449.95**

PME Meter Prism Finder—Features center weighted metering with EV 2-19 metering range. 45° sighting angle.
HA2260 . . . . . **$699.95†**

HC-4 Reflex Viewfinder—Sighting angle is 90°, ocular is focusable ±5 diopters.
HA2262 . . . . . **$649.95**

†Limited to in stock availability



Hasselblad 2000FCW

This new camera is designed to accept new motorized automatic film winder. Winder is powered by 5 nickel cadmium batteries and, fully charged, will provide up to 1,000 exposures. Winder has a speed of 1.3 f.p.s. Camera accepts both CF and 2000F lenses. Hasselblad manual winder is supplied with camera.
HA1003 . . . . . **$1299.95**

SPECIAL SALE
LIMITED TO STOCK ON HAND

Hasselblad 2000 FC/M Chrome Body with 80mm f2.8 F Lens and A12 Magazine

Package Price **$1729.95**
Less Hasselblad Rebate —$130.00**

Sale Price— after rebate **$1599.95***

GOLD Hasselblad 2000 FC/M—with 80mm F and A12 Back
HA0990 . . . . . **$2995.00†**

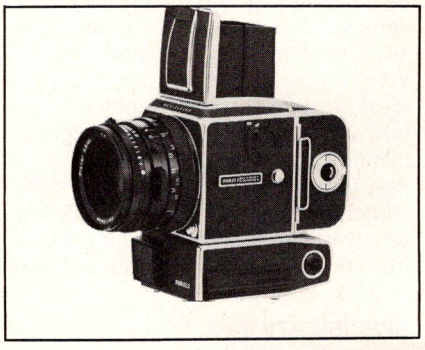
Hasselblad Chrome Film Magazines

A12 12 exp 2¼ x 2¼
HA2060 . . . . . **$299.95**
A16 16 exp 1⅝ x 2¼
HA2062 . . . . . **$349.95**
A16S 16 exp 1⅝ x 1⅝
HA2064 . . . . . **$349.95**
A24 24 exp 2¼ x 2¼
HA2068 . . . . . **$349.95**
70 70 exp 2¼ x 2¼ **HA2070** . . . **$449.95**
Polaroid 100 **HA2076** **$249.95**

Hasselblad Cameras have European ⅜" tripod sockets. ¼ × 20 standard tripods require purchase of adapter bushing. **CB0725** **$1.95**

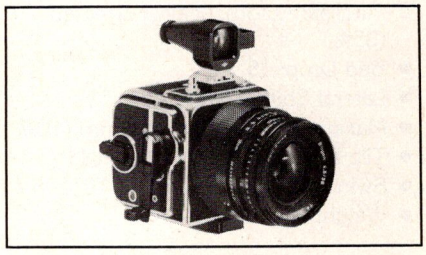
U.S.A.

★Official U.S.A. Distributor Warranty.
★Complete Factory Packaging.



Hasselblad 500ELX

Motor driven camera with an electronic sensor for measuring the amount of light that is reflected from the film plane when using flash, which decides discharge time of flash.
HA1001 . . . . . **$1049.95**



Hasselblad SWC/M

This specialized camera is designed specifically for wide angle photography. It's permanently attached 38mm f4.5 Biogon CF lens is fully corrected for curvilinear distortion and has a 90° angle of view.

SWC/M (without magazine). Supplied complete with viewfinder, neck strap, front lens cap, and protective rear cover. Three year warranty. **HA1004** **$1899.95**

Hasselblad Rebate Program**

500C/M with 80mm CF lens and A12 back	$165
500 C/M body	$100
500 EL/M body	$ 50
2000 FC/M body	$100
SWC/M body w/38mm Biogon	$100
30mm F-Distagon CF	$200
50mm Distagon CF	$ 90
60mm Distagon CF	$ 50
100mm Planar CF	$ 50
80mm Planar CF	$ 35
150mm Sonnar CF	$ 90
250mm Sonnar CF	$100
140–280 Variogon C	$100
50mm Distagon F	$100
110mm Planar F	$ 80
150mm Sonnar F	$120
A12, A16, A16S and A24 Magazines	$ 30
70mm Magazine	$ 45

**Rebate issued by Hasselblad U.S.A. Rebate program expires August 31, 1985.

Hasselblad Accessories

Hasselblad Series 60 Filters

UV Sky **HA5132** **$52.95**
CR 1.5 **HA5134**..... **$52.95**
Yellow **HA5120** **$52.95**
Green **HA5122** **$52.95**
Orange **HA5124** **$52.95**
Red **HA5126**..... **$52.95**
Polarizing **HA5128** **$114.95**
Gray **HA5130** **$52.95**
Softar I **HA5160** **$89.95**
Softar II **HA5162**..... **$89.95**
Softar III **HA5164** **$89.95**

Adapter Rings

Step-up ring Series 50-60
HA3067..... **$49.95**
Tiffen Series 60 to Series 8
TF5605 ..... **$25.95**
Tiffen Series 60 to 67mm
TF5610 ..... **$25.95**

Hasselblad Series 50 Filters

UV Haze **HA5030** **$46.95**
Polarizing **HA5032** **$104.95**
Softar I **HA4000** **$89.95**
Softar II **HA4002**..... **$89.95**
Softar III **HA4004** **$89.95**

Hasselblad Close-up Accessories

Automatic Bellows Extension
HA4070..... **$715.95**
Extension Tube 8 **HA4056**..... **$149.95**
Extension Tube 16 **HA4060**.... **$129.95**
Extension Tube 32 **HA4064**.... **$139.95**
Extension Tube 56 **HA4068**.... **$164.95**

Series 60 Proxar Lenses

Proxar 0.5 **HA5150**..... **$76.95**
Proxar 1.0 **HA5152**..... **$76.95**
Proxar 2.0 **HA5154**..... **$76.95**

Hasselblad Focusing Screens

Split Image **HA3204**..... **$32.95**
Checked Focus w/central grid
HA3208..... **$32.95**
Split Image/center grid
HA3212..... **$32.95**

Camera Brackets

Pistol Grip for 500C/M, 2000FC/M
HA3302..... **$62.95**
Flash Gun Bracket w/strap for 500C/M, 2000FC/M **HA3306**..... **$169.95**
Flash Gun Bracket w/strap for 500EL/M
HA3308..... **$184.95**
Adjustable Flash Holder
HA3310..... **$32.95**
Adjustable Flash Shoe
HA3320..... **$33.95**
Tripod Quick Coupling
HA3322..... **$59.95**

Hasselblad PCP80 2¼ x 2¼ Projector

Perspective Control Projector for 80-slide trays offers quality and features not found in any other advanced projector. Capable of projecting a true, square image onto the screen with its unique perspective control system. Other features include sharp, anti-reflection, Zeiss optics; automatic lamp replacement; double fuse system; separate, quiet motors for slide advance, fan operation, and focusing; three outlets for remote, timed, and special effects capabilities.

Hasselblad PCP80 Projector
HA8500..... **CALL**
Hasselblad 150mm P-Planar f/3.5 projector lens (includes matched condenser lens).
HA8505..... **CALL**

Hasselblad PCP80 Accessories

Hasselblad Rotary Slide Magazine - holds 80 2¾ x 2¾ slides. **HA8520** ..... **CALL**
Hasselblad PCP80 Projector Case
HA8525..... **CALL**

Hasselblad 500 EL/M Accessories

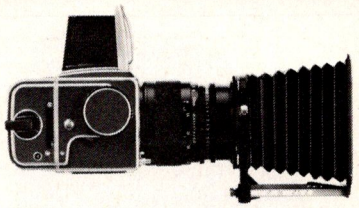
Nicad Rechargeable Battery
HA6000..... **$45.95**
Connecting Cord LK-150
HA6028..... **$24.95**
Release Cord FK-30 **HA6034**.... **$19.95**
Release Cord FK-300 **HA6036**... **$26.95**
Release Cord SK-150 **HA6040**... **$22.95**

Hasselblad #712 Compartment Case

Features flexible and spacious storage in both the case itself and in the lid. Most lenses may be stored in upright position. Weather-tight seal protects contents against dust and rain. 18" x 15¼" x 7"
HA7014..... **$359.95**

Miscellaneous Hasselblad Accessories

Wide Camera Strap **HA3330**..... **$19.95**
Rapid Winding Crank-Universal
HA2200..... **$34.95**
Open L Connector **HA3132** **$10.50**
The Hasselblad Manual by Ernst Wildi
HA8004..... **$34.95**



Hasselblad Professional Lens Shade

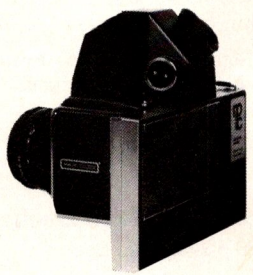
Compendium design is highly efficient and flexible and extends about 3⅛" with markings for various focal length settings. New compact design takes up less space when stored. Supplied with masks for 120, 135, 150, and 250mm lenses and L connector. (Mounting rings are not included.)
HA3060..... **$159.95**

Lens Mounting Rings for Pro Lens Shade

Series 50 **HA3062**..... **$33.50**
Series 60 **HA3063**..... **$33.50**
Series 63 **HA3064**..... **$36.75**
Series 70 **HA3065**..... **$35.25**

Standard Lens Shades for Series 60 Lenses

Shade for 38-60mm lenses
HA3050..... **$43.95**
Shade for 80mm lens **HA3051**... **$48.95**
Shade for 100-250mm lenses
HA3052..... **$52.95**



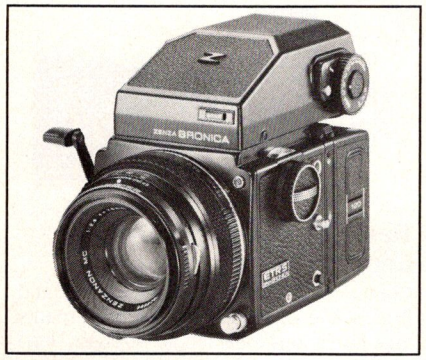
NPC MF-1 Polaroid Film Holder For Hasselblad 500 C/M

Permits the use of 600, 100 and 80 Series Polaroid pack film types on all Hasselblad 500C and 500C/M cameras. Quick and simple interlock mechanism, lightweight (10 oz.) and durable plastic body. Has convenient holder for storing the stainless steel dark slide. Compatible with all viewfinders.
NP2000..... **$199.95**

Beattie Intenscreen For Hasselblad

Designed to increase the relative brightness of the viewfinder by about 2-4 f/stops. Consists of a special ground glass image surface coupled with a high quality fresnel lens. **BT0200**..... **$139.95**

Bronica Medium Format



BRONICA ETRS
Convenient 6 x 4.5 format

- Interchangeable day-light load roll film holders, including 120, 220, 35mm, and Polaroid backs.
- Interchangeable focusing screens and viewfinders.
- Flash synch up to 1/500th sec.
- Multiple exposure capabilities.
- Electronically controlled shutter settings from 8–1/500th sec., plus T setting.

ETRS Body w/120 film back. (Lens and finder not included.) **BA0100 . . . $407.95**

Bronica ETRS Viewfinders

Bronica AE-II Finder E—Auto shutter speeds from 8–1/500th sec., and full area average readings. **BA0206 . . . . . $394.95**

Bronica Prism Finder E
BA0202 . . . . . $189.95

Bronica Rotary Viewfinder E—Eyepiece rotates 90 deg. to the left and right.
BA0204 . . . . . $194.95

Bronica Waist-Level Finder E
BA0200 . . . . . $69.95

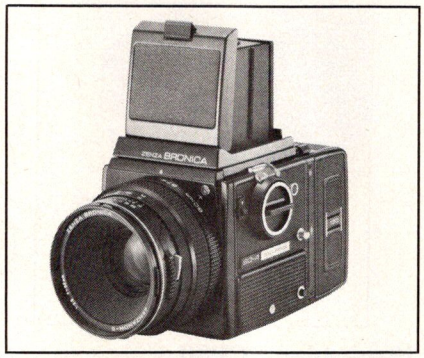
Bronica ETRS Film Backs

ETRS 120 6 x 4.5 Film Back
BA0400 . . . . . $174.95
ETRS 220 6 x 4.5 Film Back
BA0402 . . . . . $174.95
ETRS 135-N (24 x 35) Back
BA0406 . . . . . $179.95
ETRS 135-W (24 x 54) Back
BA0408 . . . . . $179.95
Polaroid Film Back E (6 x 45)—uses 660, 100, and 80 Series film.
BA0411 . . . . . $139.95

ETRS Zenzanon-E Lenses

40mm f4 (62ϕ) **BA0300 . . . . . $514.95**
50mm f2.8 (62ϕ) **BA0302 . . . . . $452.95**
75mm f2.8 (58ϕ) **BA0304 . . . . . $280.95**
105mm f3.5 (62ϕ) **BA0306 . . . . $405.95**
150mm f3.5 (62ϕ) **BA0308 . . . . $430.95**
200mm f4.5 (62ϕ) **BA0310 . . . . $457.95**
250mm f5.6 (62ϕ) **BA0312 . . . . $520.95**
500mm f8 Zenzanon-E II (95ϕ)
BA0314 . . . . . $1119.95

Prices and specifications subject to change without notice.



Bronica SQ-A

- Interchangeable film backs offer 5 types of different formats: 6 x 6, 6 x 4.5, 35mm standard, 35mm panoramic, and Polaroid.
- Electronically controlled Seiko lens shutter with speeds from 8 to 1/500th sec.
- Multiple exposure capabilities
- Flash synch up to 1/500th sec.

SQ-A Body w/6 x 6cm 120 film back (lens and finder not included)
BA0105 . . . . . $550.95

Bronica SQ-Am

Same basic features as the SQ-A, but with additional, built-in motorized automatic film winding action (3 frames per 2 seconds). SQ-Am Body Module (lens and film back not included) **BA0110 . . . . . $630.95**

SQ-A/SQ-Am Viewfinders

AE Prism Finder S—Provides Aperture-priority AE and manual operation.
BA0236 . . . . . $479.95

ME Prism Finder S—Provides TTL manual exposure controls, color coded LED display.
BA0234 . . . . . $309.95

Waist-Level Finder S—Collapsible.
BA0230 . . . . . $69.95

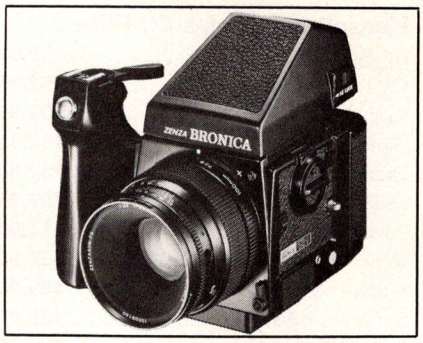
Prism Finder S
BA0232 . . . . . $259.95

SQ-A/SQ-Am Film Backs

SQ120 6 x 6 **BA0430 . . . . . $224.95**
SQ220 6 x 6 **BA0432 . . . . . $224.95**
SQ-J 120 6 x 4.5 **BA0434 . . . . . $169.95**
SQ-J 220 6 x 4.5 **BA0436 . . . . . $169.95**
SQ-135-N (24 x 36) **BA0438 . . . $199.95**
SQ-135-W (24 x 54) **BA0440 . . . $199.95**
Polaroid Film Back S (6 x 6) uses 600, 100, and 80 Series film. **BA0442 . . . . $149.95**

SQ-A/SQ-Am Zenzanon-S Lenses

40mm f4 (95ϕ) **BA0330 . . . . . $654.95**
50mm f3.5 (67ϕ) **BA0332 . . . . . $592.95**
80mm f2.8 (67ϕ) **BA0334 . . . . . $330.95**
105mm f3.5 (67ϕ) **BA0336 . . . . $399.95**
150mm f3.5 (67ϕ) **BA0338 . . . . $619.95**
200mm f4.5 (67ϕ) **BA0340 . . . . $499.95**
250mm f5.6 (67ϕ) **BA0342 . . . . $499.95**
500mm f8 (95ϕ) **BA0344 . . . . . $1099.95**
Tele-converter 2X **BA0346 . . . . . $339.95**



BRONICA GS-1

This simply designed and compact camera offers the latest in mechanical-electronic technology. Features include single or multiple exposures, lock-up reflex mirror, and flash synch up to 1/500th sec. Features:

- Interchangeable focusing screens and finder systems
- Interchangeable film backs for 6 x 7, 6 x 6, 6 x 4.5, 35mm normal and wide formats, and Polaroid.

GS-1 Body w/6 x 7cm 120 back (lens and finder not included) **BA0130. . . . $711.95**

Bronica GS-1 Viewfinders

AE Prism Finder G—Aperature-priority AE and manual operations with 7 segment LED display. **BA0264 . . . . . $489.95**

Prism Finder G—Eye level finder.
BA0262 . . . . . $269.95

Waist-Level Finder G—Collapsible.
BA0260 . . . . . $64.95

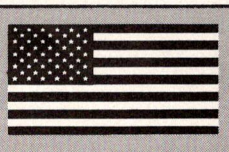
Bronica GS-1 Film Backs

GS120 6 x 7 **BA0460 . . . . . $229.95**
GS220 6 x 7 **BA0462 . . . . . $239.95**
GS120 6 x 6 **BA0464 . . . . . $229.95**
GS220 6 x 6 **BA0466 . . . . . $239.95**
GS120 6 x 4.5 **BA0468 . . . . . $229.95**
GS220 6 x 4.5 **BA0470 . . . . . $239.95**

Polaroid Film Back G 6 x 7—uses 600, 100, and 80 Series film. **BA0476 . . . . $239.95**

GS-1 Zenzanon-PG Lenses

50mm f4.5 (95ϕ) **BA0360 . . . . . $749.95**
65mm f4 (72ϕ) **BA0362 . . . . . $614.95**
100mm f3.5 (72ϕ) **BA0364 . . . . $405.95**
110mm f4 Macro (NEW)
BA0365 . . . . . $649.95
150mm f4 (72ϕ) **BA0366 . . . . . $574.95**
200mm f4.5 (82ϕ) **BA0368 . . . . $699.95**
250mm f5.6 (82ϕ) **BA0370 . . . . $729.95**
Tele-Converter 2X **BA0372 . . . . . $359.95**
Tele-Converter 1.4X **BA0374 . . . $359.95**



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Bronica Accessories

Bronica ETRS Accessories

ETRS Film Inserts

6 x 4.5 Film insert for 120
BA1230 ..... **$89.95**

6 x 4.5 Film insert for 220
BA1232 ..... **$89.95**

ETRS Lens Accessories

Auto Extension Tube E-14
BA1250 ..... **$174.95**

Auto Extension Tube E-28
BA1252 ..... **$184.95**

Auto Extension Tube E-42
BA1254 ..... **$194.95**

Auto Bellows (NEW) **BA1257** ... **$419.95**

E Rapid Focus Lever **BA1224** **$17.95**

Soft Effect Filter Set **BA1275** **$79.95**

Miscellaneous ETRS Accessories

Quick Release Tripod Mount
BA1273 ..... **$39.95**

Tripod Adapter for Polaroid Back
BA1272 ..... **$51.95**

E Motor Drive **BA1222** **$339.95**

Winding Crank ETR-S-C
BA1450 ..... **$18.95**

Lens Hoods for ETRS Lenses

40-50mm Lenses **BA1332** **$21.95**

75mm E II **BA1334** **$21.95**

75mm **BA1336** **$21.95**

105-250mm **BA1338** **$21.95**

Pro Lens Hood for 40-250mm Lenses
BA1320 ..... **$124.95**

ETRS Focus Screens

Microprism/Split Image
BA1234 ..... **$31.95**

Matte w/grid **BA1238** **$31.95**

Microprism w/35mm **BA1242** **$31.95**

Microprism w/35mm wide
BA1244 ..... **$31.95**

Split-Image Screen **BA1246** **$31.95**

Bronica Speedgrips

Speedgrip for ETRS **BA1220** ... **$129.95**

Speedgrip for SQ-A **BA2120** ... **$149.95**

Speedgrip for GS-1 **BA3000** **$139.95**

Bronica SQ-SQAM Accessories

SQ Film Inserts

6 x 6 120 **BA2000** **$139.95**

6 x 6 220 **BA2002** **$139.95**

6 x 4.5 120 **BA2003** **$109.95**

6 x 4.5 220 **BA2004** **$109.95**

SQ Lens Accessories

Auto Extension Tube S-18
BA2110 ..... **$249.95**

Auto Extension Tube S-36
BA2112 ..... **$254.95**

Auto Bellows S **BA2114** **$449.95**

Soft Effect Filter Set **BA2140** **$79.95**

Rapid Focus Lever for 50-250
BA2122 ..... **$22.95**

Miscellaneous SQ Accessories

Winding Crank SQ/SQ-A
BA2171 ..... **$12.95**

External Battery Pack **BA2170** ... **$44.95**

Lens Hoods for SQ Lenses

50mm SQ **BA2130** **$29.95**

80mm SQ **BA2132** **$29.95**

105-150mm SQ **BA2134** **$29.95**

200-250mm SQ **BA2136** **$29.95**

Professional Lens Hood
BA2124 ..... **$129.95**

Focusing Screens for SQ-SQAM

Microprism/Split Screen
BA2010 ..... **$39.95**

Grid/Matte Screen **BA2014** **$39.95**

Split Image Screen **BA2018** **$39.95**

Micro/Split - 35mm **BA2020** **$39.95**

Matte - 35mm **BA2022** **$39.95**

Bronica GS-1 Accessories

GS-1 Film Inserts for Film Backs

6 x 7 120 **BA3001** **$149.95**

6 x 7 220 **BA3002** **$149.95**

6 x 6 120 **BA3003** **$149.95**

6 x 4.5 120 **BA3005** **$149.95**

6 x 4.5 220 **BA3006** **$149.95**

GS-1 Lens Accessories

Auto Extension Tube G-18
BA3021 ..... **$199.95**

Auto Extension Tube G-36
BA3022 ..... **$209.95**

Quick Focus Lever G **BA3050** ... **$23.95**

GS-1 Lens Hoods

Rubber Lens Hood for 65mm
BA3026 ..... **$21.95**

Rubber Lens Hood for 100mm
BA3027 ..... **$21.95**

Rubber Lens Hood for 150mm
BA3028 ..... **$21.95**

GS-1 Miscellaneous Accessories

Winding Crank G **BA3060** **$28.95**

Focusing Screens for GS-1

Matte 6 x 6/6 x 4.5 Format Screen
BA3011 ..... **$39.95**

Matte 35mm Screen **BA3012** ..... **CALL**

Microprism/Split Image Screen
BA3013 ..... **$39.95**

Microprism 6 x 6/6 x 4.5 Format Screen
BA3014 ..... **$39.95**

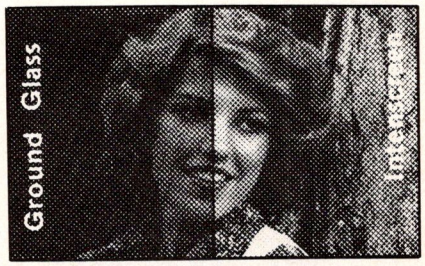
Microprism/Split Image 35mm Screen
BA3015 ..... **CALL**

Microprism Screen **BA3016** **$39.95**

Split Image Screen **BA3017** **$39.95**

Grid Pattern Focus Screen
BA3018 ..... **$39.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

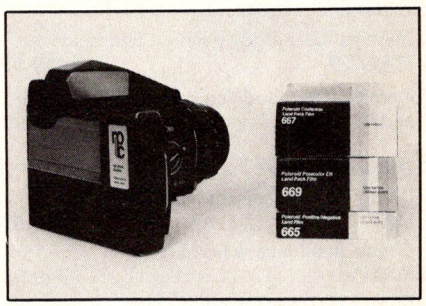


Beattie Intenscreen for SQ and ETR Cameras

Increase brightness up to 2 f-stops at viewing screen with this combination of special ground glass coupled with a high quality fresnel lens that simply replaces the existing ground glass on the Bronica SQ Models and the ETRS.

Intenscreen for SQ Models
BT0280 ..... **$117.95**

Intenscreen for ETR (in frame)
BT0285 ..... **$134.95**



NPC MF-5 Polaroid Film Back for ETRS

Permits the use of Polaroid Film Types 80 and 100-600 films, including Type 665 Pos/Neg Film, with the Bronica ETRS. Compatible with viewfinder and speed grip. Image size: 1 5/8" x 2 1/4". Lightweight, durable plastic body with aluminum and stainless steel interface and locking mechanism. Weight: 10 oz. **NP2020** **$179.95**

See Page 34 for full selection of Polaroid Film.

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

Mamiya Medium Format—Polaroid Back Offer† With Purchase of 6 x 7 Camera

Mamiya RZ67

Major improvements of the RZ67 over the RB67 include: Lighter and smaller design, single stroke shutter cock and film advance, electronic coupling of lenses and accessories, and new high resolution lenses.

New system components include winder RZ and remote control capability using transmitter and receiver RZ

Mamiya RZ67 Body (without film holder)
MA0280 ..... **$459.95**

Mamiya RZ67 Body complete with 120 RFH and 110mm 2.8Z lens† **$1099.95**

Mamiya RZ67 Lenses

37mm f4.5Z Fisheye w/case (40.5Ø)
MA1710 ..... **$989.95**

50mm f4.5Z lens w/hood (77Ø)
MA1720 ..... **$749.95**

65mm f4.0Z lens w/hood (77Ø)
MA1730 ..... **$699.95**

90mm f3.5Z lens w/hood (77Ø)
MA1737..... **521.95**

110mm f2.8Z lens w/hood (77Ø)
MA1740 ..... **$495.95**

127mm f3.8Z lens w/hood (77Ø)
MA1743 ..... **$521.95**

140mm f4.5Z Macro lens w/hood (77Ø)
MA1746 ..... **$639.95**

180mm f4.5Z lens w/hood (77Ø)
MA1750 ..... **$599.95**

250mm f4.5Z lens w/hood (77Ø)
MA1760 ..... **$709.95**

360mm f6.0Z lens w/hood (77Ø)
MA1765 ..... **$829.95**

500mm f8.0Z lens w/hood & holder (105Ø) **MA1770** **$1599.95**

Mamiya RZ67 Film Holders and Adapters

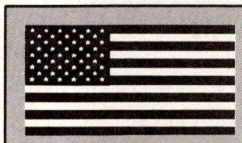
120 Roll Film Holder RZ
MA2500 ..... **$219.95**

220 Roll Film Holder RZ
MA2505 ..... **$219.95**

Polaroid Pack Film Holder RZ (model 3)
MA2522 ..... **$159.95**

G-Adapter (for RB backs on RZ)
MA2510..... **$49.95**

All Mamiya purchases qualify for any promotional offers.



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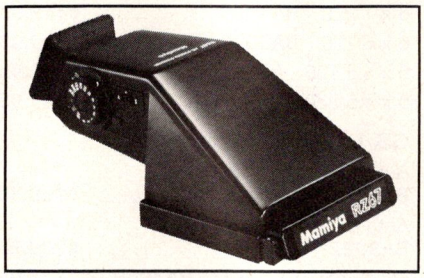
Mamiya RZ Accessories

Winder RZ **MA2530** **$164.95**
Transmitter RZ **MA2526** **$64.95**
Receiver RZ **MA2527**..... **$59.95**

Mamiya RZ/RB 67 Accessories

Cds Magnifying Hood Finder w/case
MA2322 ..... **$279.95**
Prism Finder w/case **MA2318**... **$324.95**
Cds Prism Finder w/case
MA2319 ..... **$469.95**
New Bellow Lens Hood G-2 for RB and RZ lenses. **MA2561**..... **$99.95**

Mamiya RZ67 Viewfinders



AE Prism Finder

AE Prism Finder—New AE Prism Finder RZ features user selection of average metering, spot metering or a special mode that chooses the best type of metering based on subject contrast, as well as full manual control.

AE Prism Finder—Auto Exposure prism. Now Available. **MA2405** **$534.95**

PD Prism Finder—electronically coupled meter prism with LED indicator and fast SPD sensor. **MA2400** **$489.95**

Mamiya Twin Lens Reflex -NEW LOWER PRICES-

Mamiya C220F Body
MA0241..... **$159.95**
Mamiya C330S Body
MA0246..... **$299.95**
80 mm 2.8C Lens
MA1530..... **129.95**

†Purchase an RZ67 or RB67 camera complete with any lens and 120 roll film holder and qualify for POLAROID BACK OFFER. Offer expires 12/31/85.

Mamiya RB67 Pro-S

Mamiya RB67 Pro-S Body, hood matte screen **MA0275**..... **$289.95**

RB67 Body Complete with 90mm 3.8 or 127 3.8 lens and 120 Roll Film Holder†..... **$799.95**

Mamiya RB67 Pro-S Lenses

37mm f4.5 Fisheye w/case & 4 filters. (40.5Ø) **MA1610**..... **$1099.95**

50mm f4.5 RB lens w/hood. (77Ø)
MA1615..... **749.95**

65mm f4.5 RB lens w/hood. (77Ø)
MA1620 ..... **$684.95**

90mm f3.8 RB lens w/hood. (77Ø)
MA1625 ..... **$345.95**

127mm f3.8 RB lens w/hood. (77Ø)
MA1630 ..... **$345.95**

140mm f4.5 RB Macro lens w/hood. (77Ø)
MA1635 ..... **$659.95**

150mm f4.0 RB Soft Focus w/hood & discs. (77Ø) **MA1640** **$609.95**

180mm f4.5 RB lens w/hood. (77Ø)
MA1645 ..... **$589.95**

250mm f4.5 RB lens w/hood. (77Ø)
MA1650 ..... **$689.95**

360mm f6.3 RB lens w/hood. (77Ø)
MA1660 ..... **$829.95**

500mm f8.0 RB lens w/hood & lens holder. (105Ø)
MA1680 ..... **$1699.95**

RB67 Film Holders

Pro-S 120 Roll Film Holder
MA2438 ..... **$219.95**

Pro-S 220 Roll Film Holder
MA2439 ..... **$219.95**

Polaroid Holder Model 2 for Polaroid Type 105/107/108 film (requires P-Adapter)
MA2450 ..... **$159.95**

P-Adapter **MA2470** **$34.95**

Beattie Intenscreen For RB67, 645, and C330

Intenscreen for RB67 **BT0210**... **$129.95**
Intenscreen for 645 **BT0215**.... **$129.95**
Intenscreen for C330 **BT0220**... **$117.95**
Intenscreen for C330S
BT0225..... **$117.95**

Prices and specifications subject to change without notice.

Makina and Yashica Cameras

Makina 670

Improved compact 6 x 7 cm format camera with Nikkor 80mm f2.8 lens features 120 and 220 capabilities, hot shoe, 2-stroke film advance, new viewfinder with improved parallex correction, built-in exposure meter, new locking features which prevent accidental exposures and back opening, and new, positive grip body styling.

Specifications:

- Compact body design with easy-to-grip surfaces.
- Split-image focusing for fast shooting.
- Built-in, 10 degree, center weighted exposure meter with LEDs to indicate over–, correct or under-exposure.
- Quick, one-touch film loading and removal.
- Minimum focusing distance: 3.5′
- Weight: 47.5 ozs.

MK1300 . . . . . **$749.95**

Makina W67:

Same as Makina 670 except:

- Lens: Nikkor 55mm f4.5 6 elements.
- Weight: (1200 grams) 2.64 lbs.

MK1100 . . . . . **$799.95**

Makina 670 and W67 Accessories

Soft Case **MK1010** **$64.95**
Hard Case **MK1012** **$59.95**
Gadget Bag **MK1016** **$89.95**
Neck Strap **MK1020** **$13.95**
Lens Hood for 670 **MK1030** **$23.95**
Lens Hood for W67 only **MK1130** **$23.95**

Makina Proshift 69 Superwide

- Camera Type: 6 x 9 cm Compact
- Film Type: 120 roll, 8 exposure 220 roll, 16 exposures
- Lens: Schneider Super Angulon 47mm f5.6 8 elements
- Shifts: 13mm horz. 15mm vert.
- Viewfinder: Optical viewfinder and sports finder
- Weight: (1600 grams) 3.5 lbs.

MK1200 . . . . . **$1529.95**

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Yashica Mat-124G

Best value around in a medium format camera. Features built-in Cds meter and 120/220 film capacity. Excellent quality 80mm f3.5 taking lens. With case.

CX0805 . . . . . **$129.95**

Yashica Mat 124-G Accessories

Close-up Lens #1: for subjects 40cm to 65 cm away **CX0810** **$27.50**
Close-up Lens #2: for subjects 35cm to 45cm away **CX0815** **$27.50**
Lens Hood **CX0820** **$9.95**
UV Filter, 30mm Filter **CX0830** **$8.95**
1A Filter, 30mm Filter **CX0835** **$8.95**
Yellow Y2, 30mm Filter **CX0840** . . . **$8.95**
Orange O2, 30mm Filter **CX0845** **$8.95**
Red R1, 30mm Filter **CX0850** **$8.95**
Green G0, 30mm Filter **CX0855** . . . **$8.95**
Blue B, 30mm Filter **CX0860** **$8.95**
80B, 30mm Filter **CX0865** **$8.95**
81B, 30mm Filter **CX0870** **$8.95**
82A, 30mm Filter **CX0875** **$8.95**
85C, 30mm Filter **CX0880** **$8.95**
Neutral Density, ND x 4 Filter **CX0885** **$8.95**

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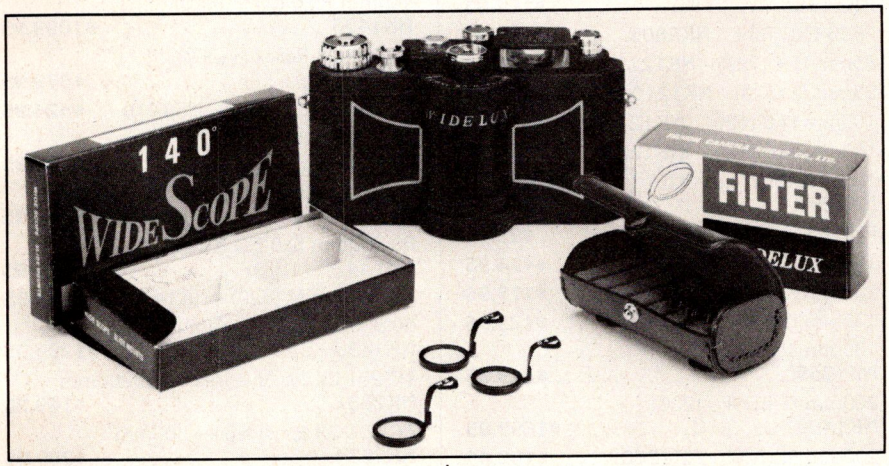
Widelux



Widelux F7

The unique, ultra wide 140°, 35mm camera. The Widelux has been one of the most successful panoramic cameras ever designed and features a revolving lens-shutter that takes fourteen 24mm x 59mm images nearly free of optical distortion on a 24 exposure roll (21 on 36 exposure roll). With a fixed focus, 26mm F2.8 Lux Special Lens, results are greater horizontal coverage than a 17mm lens, less distortion than a semi-fisheye, 180° lens, and larger format than either. Because the lens is short focused, but not wide-angled, the Widelux has no shortcoming of exaggeration of distance inherent in all wide-angle lenses, and because of a fixed focus, you are free from focusing. The Widelux features a bright, accurate viewfinder; high quality spirit level to insure distortion-free results; automatic zeroing frame counter, and 1/15, 1/125, and 1/250 second shutter speeds. The Widelux F7 is a unique camera for unique applications.

Widelux F7 with case.
WX1000 . . . . . **$549.95**

Widelux Filter Kit includes 6 filters, K2, G, ND, 81A, Sky, 82C, and case.
WX1005 . . . . . **$64.95**

Widelux Slide Mounts pkg. of 120 pressure sealing paper mounts. For use in any 6 x 6 cm. projector. **WX1010** **$41.95**

Nikon 35mm

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Nikon F3 High-Eye Point Body

Allows entire frame to be viewed from up to 1" from eyepiece. Ideal for users who wear glasses and for action photographers.

- Automatic exposure camera with interchangeable viewfinders and screens.
- Liquid crystal display in viewfinder.
- Quartz digital control of manual shutter speeds.
- Silicon Photo Diode metering built into camera body.
- Full range of professional accessories.

NK0340. . . . . **$439.95**

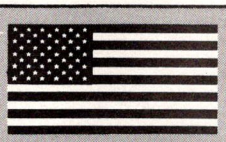
Nikon F3/T

New Black Titanium clad F3/T operates identically to a standard F3, and is supplied with a DE-4 High-Eyepoint finder. Top covers, finder cover, camera back, and base plate are manufactured from the extra-strong metal compound titanium The strongest Nikon yet! **NK0333** . . . **$628.95**

Nikon FA

Features Automatic Multi-Pattern (AMP) metering, which can make optimum automatic exposures in both standard and extreme lighting conditions. This computer-analysis programmed system actually evaluates light in 5 segments of the frame to produce the best exposure. Other features include three automatic exposure modes, 1/4000 sec. shutter speed, flash sync at 1/250 sec., and TTL autoflash exposure control.

FA Chrome body **NK0350** **$349.95**
FA Black body **NK0355** **$364.95**



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Nikon FE2

The world's fastest automatic camera provides a top speed of 1/4000th sec., with a flash synchronization speed of 1/250th sec. Other features include through-the-lens auto flash exposure control, aperture-priority auto exposure, 16 quartz-timed manual speeds, interchangeable focusing screens.

FE2 Chrome body. **NK0415**. . . . **$249.95**
FE2 Black body. **NK0416**. **$264.95**

Nikon FM2

Manual control up to 1/4000 sec. shutter speed. Flash sync. up to 1/200th sec. Interchangeable focusing screens.

FM2 Chrome Body **NK0540**. . . . **$224.95**
FM2 Black Body **NK0541**. **$234.95**
MD-12 Motor Drive (for FE, FE2, FM2, FM Bodies) **NK2050**. **$159.95**

"Nikon Inc. USA limited warranty included on all 35mm Nikon products."

Nikon Lenses

15mm f3.5 **NK1018** **$949.95**
16mm f2.8 Fisheye **NK1014**. . . . **$399.95**
18mm f3.5 (72ø) **NK1020** **$499.95**
20mm f2.8 (52ø) **NK1032** **$269.95**
24mm f2.8 (52ø) **NK1045** **$189.95**
24mm f2 (52ø) **NK1040**. **$299.95**
28mm f2 (52ø) **NK1050**. **$289.95**
28mm f2.8 (52ø) **NK1053** **$179.95**
28mm f3.5 PC (72ø)
NK1059. . . . . **$479.95**
35mm f2.8 (52ø) **NK1076** **$114.95**
35mm f2.8 PC (52ø)
NK1078. . . . . **$349.95**
35mm f2 (52ø) **NK1073**. **$169.95**
35mm f1.4 (52ø) **NK1070** **$329.95**
50mm f1.8 (52ø) **NK1120** **$98.95**
50mm f1.4 (52ø) **NK1125** **$139.95**
50mm f1.2 (52ø) **NK1130** **$229.95**
55mm f2.8 Micro (52ø)
NK1138. . . . . **$164.95**
PK13 Ext. Tube **NK2805**. **$45.95**
85mm f1.4 (72ø) **NK1215** **$399.95**
85mm f2 (52ø) **NK1210**. **$179.95**
105mm f1.8 (62ø) **NK1217** **$339.95**
105mm f2.5 (52ø) **NK1220** **$169.95**
105mm f2.8 Micro (52ø)
NK1230. . . . . **$319.95**
PN-11 Ext. Tube **NK2807**. **$96.95**
135mm f2 (72ø) **NK1233**. **$424.95**
135mm f2.8 (52ø) **NK1235** **$179.95**
135mm f3.5 (52ø) **NK1237** **$129.95**
180mm f2.8 ED (72ø)
NK1255. . . . . **$419.95**
200mm f2 ED IF (122ø)
NK1450 . . . . . **$1699.95**
200mm f4 (52ø) **NK1260**. **$199.95**
200mm f4 Micro IF (52ø)
NK1262. . . . . **$389.95**
300mm f2.8 ED IF (122ø)
NK1452 . . . . . **$1843.95**
300mm f4.5 (72ø) **NK1270** **$289.95**
300mm f4/5 ED IF (72ø)
NK1454. . . . . **$562.95**
400mm F3.5 ED-IF (122ø)
NK1456 . . . . . **$2157.95**
400mm F5.6 ED-IF (72ø)
NK1458 . . . . . **$1099.95**
500mm f8 Reflex-N (39ø)
NK1341. . . . . **$379.95**
35-70mm f3.5 (62ø) **NK1410**. . . **$424.95**
35-105mm f3.5-4.5 (52ø)
NK1413. . . . . **$209.95**
70-210mm F4 Series E (62ø)
NK1974. . . . . **$252.95**
80-200mm f2.8 ED (95ø)
NK1442 . . . . . **$1839.95**
80-200mm f4 (62ø) **NK1440** . . . **$439.95**
50-300mm f4.5 ED (95ø)
NK1435 . . . . . **$1299.95**
TC-201 2X for AI lenses up to 200mm
NK2831. . . . . **$149.95**
TC-301 2X for AI lenses 300mm
NK2834. . . . . **$289.95**
TC14B 1.4 Teleconverter AI
NK2836. . . . . **$289.95**

All NIKON 35mm purchases qualify for any promotional offers.

Nikon Accessories

Calumet has a large inventory of Nikon professional accessories. Please call for prices and delivery information for items not listed.

F-3 Motor Accessories

MD-4 Motor Drive **NK2070** **$229.95**
MN-2 Nicad Battery Unit
NK2074 ..... **$97.95**
MH-2 Quick charger for MN-2
NK2075 ..... **$117.95**
MC-11 External Power Cord
NK2078 ..... **$29.95**
MF-6 Camera back (auto rewind stop)
NK2076 ..... **$69.95**
MC-12 Remote cord for MD-4 and MD-12
NK2072 ..... **$36.95**
ML-1 Modulite Remote Control Outfit
NK2087 ..... **$213.95**
Pistol Grip Model II **NK2097** **$35.95**
MF-4 250 Exposure back (req. 2 cassettes)
NK2091 ..... **$559.95**
250 Exposure Cassette
NK2092 ..... **$33.95**

Other Motor Drive Accessories for Nikon

MD-15 Motor Drive for FA
NK2068 ..... **$189.95**
MD-12 Motor Drive for FM, FM2, FE, FE2
NK2050 ..... **$159.95**

F-3 Dedicated Viewfinder Accessories

DA-2 Action Finder **NK4114** **$248.95**
DW-3 Waist-Level Finder
NK4110 ..... **$64.95**
DW-4 6X High Magnification Finder
NK4112 ..... **$165.95**
DG-2 2X Eyepiece Magnifier
NK2314 ..... **$33.95**
DK-3 Right Angle Finder
NK2316 ..... **$84.95**
Eyecup for F3 High Eyepoint/F3T
NK2308 ..... **$4.95**

Nikon 52mm Filters

L-37C UV Haze **NK3160** **$14.95**
L-1BC Skylight **NK3165** **$19.95**
Y-48 Med. Yellow **NK3115** **$16.95**
R-60 Red **NK3150** **$16.95**
A-2 81A **NK3220** **$16.95**
Polarizer **NK3280** **$54.95**
Soft Focus #1 **NK3282** **$44.95**
Soft Focus #2 **NK3283** **$44.95**

"Nikon Inc. USA limited warranty included on all 35mm Nikon products."

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Nikon Lens Hoods

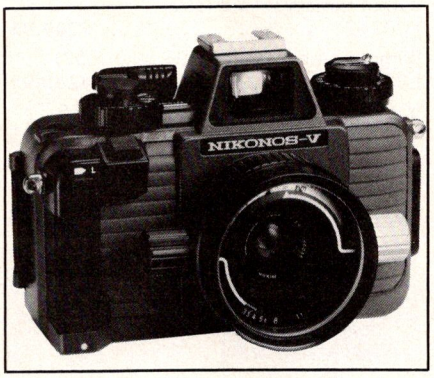
HN-1 for 24mm f2.8 and 35mm f2.8 PC (Screw-in) **NK2501** **$12.95**
HN-2 for 28mm f2.8 and 28mm f3.5 (Screw-in) **NK2502** **$12.95**
HN-3 for all 35mm, except PC, and 55mm f2.8 micro (Screw-in) **NK2503** ... **$12.95**
HS-11 for 50mm f1.8 (Snap-on)
NK2531 ..... **$14.95**
HS-9 for 50mm f1.4 (Snap-on)
NK2529 ..... **$14.95**
HS12 for Nikon 52mm Polarizer
NK2512 ..... **$19.95**
HS-8 for 105mm f2.5 and 135mm f3.5 (Snap-on) **NK2527** **$16.95**

Nikon Close-Up Universal Accessories

PB-6 Bellows Unit **NK2705** **$189.95**
PS-6 Slide Copier **NK2707** **$117.95**
PK-13 AI 27.5mm Auto Ext. Tube
NK2805 ..... **$45.95**
PN-11 AI 52.5mm Auto Ext. Tube
NK2807 ..... **$96.95**
BR-2 Lens Reversing Ring
NK2725 ..... **$16.95**
BR-4 Auto Diaphram Ring
NK2731 ..... **$41.95**

Recommended Close-up Screens

Screen B for F3 **NK2396** **$24.95**
Screen E for F3 **NK2399** **$24.95**



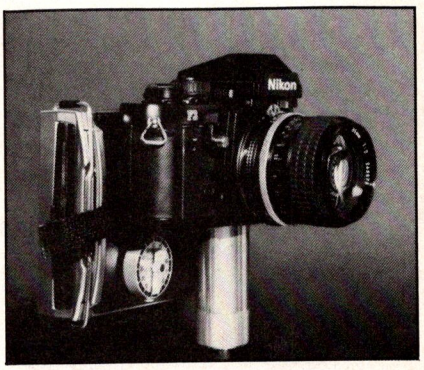
Nikonos-V All-weather Camera

- Offers aperture priority auto-exposure for total depth-of-field control or manual exposure control.
- Light intensity feedback metering method for foolproof exposures.
- Improved exposure data display to calculate even the finest differences in exposure.

Nikonos-V Body **NK0903** **$314.95**
35mm f2.5 UWIC **NK1990** **$89.95**
28mm f3.5 UWIC **NK1985** **$189.95**
80mm f4 IC **NK1995** **$189.95**

Nikon Flash

Speedlight SB-16A for F3. GN: 105 (ASA 100) **NK4165** **$169.95**
Speedlight SB-16B for FM2/FE2. GN: 105 (ASA 100) **NK4166** **$169.95**
Speedlight SB-15 for FM2/FE2
NK4183 ..... **$79.95**
SC-12 TTL Sensor **NK4186** **$95.95**
SC-14 TTL Sensor Cord for SC-12
NK4189 ..... **$38.95**



Proback II Polaroid Film Back For Nikon F2 and F3 Cameras

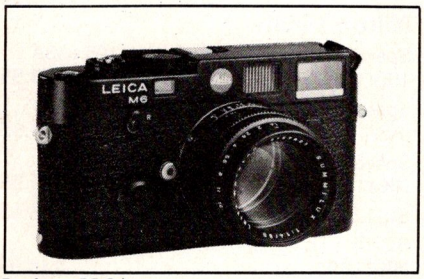
Produce instant, clear, sharp Polaroid images with your Nikon F2 or F3 camera. The Proback II does for 35mm what Polaroid did for large format photography years ago. It allows you the chance to check exposure, lighting, lens choice and composition before the final image hits the film. Made of precision-machined anodized aluminum. May be removed from camera without disturbing camera-tripod alignment. Uses 600 and 100 Series Polaroid film packs.

Proback II for Nikon F3
NP1000 ..... **$599.95**
Proback II for Nikon F2
NP1010 ..... **$599.95**

Beattie Intenscreen for F-3

Increases the relative brightness of the viewfinder image by 2-4 f/stops. Consists of a special ground glass image surface coupled with a high quality fresnel lens.
BT0250 ..... **$97.95**
Beattie Intenscreen for Nikon F,F2
BT0245 ..... **$98.95**
Beattie Intenscreen for Nikon FE, FE2, FM2, and FA **BT0255** **$59.95**

Leica 35mm Systems



Leica M6*

This new, metered range finder camera from Leitz offers the same time-tested specifications and compact construction as the M4-P, but goes a step further by introducing selective, through-the-lens exposure metering which features a 13% centered measuring spot reading.

Leica M6 Black Body
LC1155 ..... **$1195.00**

Lecia M6 Eveready Case
LC1455 ..... **$109.95**

Leica M4-P*

This compact, 35mm measuring viewfinder camera features an extremely smooth and quiet cloth focal plane shutter, bright and contrastly viewfinder with automatic parallax compensation, and quick and reliable split-image focusing.

Leica M4-P Black Body
LC1150 ..... **$919.00**

Lecia M4-P Eveready Case
LC1450 ..... **$109.95**

Leica M Series Lenses*

21mm Elmarit-M f/2.8 (490)
LC1200 ..... **$749.95**

28mm Elmarit-M f/2.8 (490)
LC1202 ..... **$489.95**

35mm Summicron-M f/2 (390)
LC1204 ..... **$439.95**

35mm Summilux-M f/1.4 (ser. 7)
LC1206 ..... **$529.95**

50mm Summicron-M f/2 (390)
LC1210 ..... **$319.95**

50mm Summilux-M f/1.4 (430)
LC1212 ..... **$739.95**

50mm Noctilux-M f/1 (580)
LC1214 ..... **$989.95**

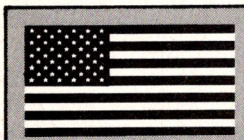
75mm Summilux-M f/1.4 (600)
LC1218 ..... **$899.95**

90mm Tele-Elmarit-M f/2.8 (390)
LC1220 ..... **$339.95**

90mm Summicron-M f/2 (490)
LC1224 ..... **$439.95**

135mm Tele-Elmar-M f/4 (390)
LC1226 ..... **$614.95**

135mm Elmarit-M f/2.8 (550)
LC1228 ..... **$629.95**



U.S.A.

★Official U.S.A. Distributor Warranty.
★Complete Factory Packaging.

Passport Protection Plan*

These products are covered under E. Leitz' Passport Protection Plan, which completely protects you for two years against ANY damage to your camera or lens. This includes breakage, water damage, fire—any accident, even if you drop it!

Leica Lens Rebates
$50.00

Manufacturer's Rebate on the purchase of ANY R Series Lens between August 1-December 31, 1985
All rebates issued by Leitz.

Leica R Series Lenses*

Lens prices do not include rebates

19mm Elmarit-R f/2.8 (820)
LC0202 ..... **$819.95**

21mm Super-Angulon-R f/4 (720)
LC0204 ..... **$944.95**

24mm Elmarit-R f/2.8 (ser. 8)
LC0206 ..... **$789.95**

28mm Elmarit-R f/2.8 (ser. 7)
LC0208 ..... **$694.95**

35mm Pa-Curtagon-R f/4 (ser. 8)
LC0214 ..... **$789.95**

35mm Summicron-R f/2 (550)
LC0210 ..... **$399.95**

35mm Elmarit-R f/2.8 (550)
LC0212 ..... **$249.95**

50mm Summicron-R f/2 (R only) (550)
LC0216 ..... **$249.95**

50mm Summilux-R f/1.4 (all Flex) (550)
LC0222 ..... **$779.95**

60mm Macro-Elmarit-R f/2.8 (550)
LC0228 ..... **$789.95**

35-70mm f/3.5 R (600) LC0268 .. **$829.95**

LEITZ ZOOM REBATE

Purchase 35-70mm-R zoom with R4 or R4s Body and receive **$250 TOTAL** rebate.

35-70mm Angenieux-Zoom (580)
LC0266 ..... **$459.95**

70-210mm Vario-Elmar-R f/4.5 (600)
LC0271 ..... **$1049.95**

90mm Elmarit-R f/2.8 (550)
LC0234 ..... **$494.95**

90mm Summicron-R f/2 (550)
LC0236 ..... **$699.95**

100mm Macro-Elmar-R f/4 (550)
LC0238 ..... **$764.95**

135mm Elmarit-R f/2.8 (550)
LC0242 ..... **$499.95**

180mm Apo-Telyt-R f/3.4 (600)
LC0244 ..... **$1199.95**

500mm MR-Telyt-R f/8 (770)
LC0260 ..... **$989.95**

2X Extender for Leica R
LC0274 ..... **$629.95**

Call or write for complete Leica Price List.

Leica R4*

Compact, single lens, electronically controlled 35mm reflex camera with alternative through-the-lens metering methods: Leitz selective (spot) measurement or Leitz large-field integrating measurement. Combined with multiple automatic programs: aperture-preferred, shutter speed-preferred, fully programmed automatic exposure settings, plus complete manual override.

Leica R4 Black Body
LC0100 ..... **$999.00**
Less Leica Rebate **−$100.00†**

Final Cost After Mfg. Rebate **$899.00**

Leica R4S*

This new, modular designed, 35mm single lens reflex camera was designed as the companion model to the top-of-the-line Leica R4. This "stepping stone" camera is identical to the R4 in every detail, except one—the R4S has only three of the five exposure modes of the R4; aperture-priority automation w/full-field measuring, aperture-priority w/spot measuring, and manual operation w/spot measuring.

Leica R4S Black Body
LC0110 ..... **$619.00**
Less Leica Rebate **−$100.00†**

Final Cost After Mfg. Rebate **$519.00**

Leica Accessory Rebates

R-4 Motor Drive: **$50** Rebate
R-4 Motor Winder: **$50** Rebate
Manufacturer's Rebate expires 12-31-85

Leica R Accessories

Prices do not include rebates.

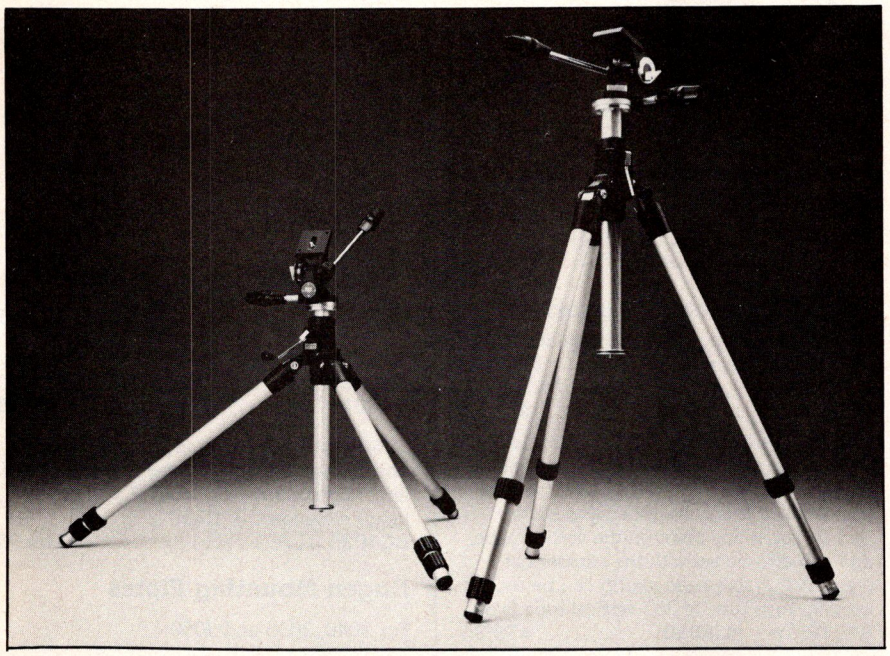
R-4 Motor Drive **LC0400** **$524.95**
R-4 Motor Winder **LC0410** **$364.95**
R-4 Databack **LC0528** **$239.95**
Bellows R **LC0300** **$599.95**
1:1 Extension Tube for 60mm f2.8 R
LC0310 ..... **$209.95**
1:1.6 Extension Tube for 100mm f4 R
LC0314 ..... **$209.95**

Leica M Accessories

MR-4 Meter **LC1355** **$198.95**
Winder M4-P/M-6 **LC1351** **$289.95**
M 21mm Viewfinder **LC1300** ... **$164.95**
M 28mm Viewfinder **LC1310** ... **$139.95**

†Rebates expire Dec. 31, 1985

Calumet Tripods— A New Dimension in Tripods



Calumet Tripods

Calumet is proud to introduce this new and exciting line of the quality, professional tripods. These tripods have a sleek, but solid, look which makes them very attractive for tripods of their size. We feel that they offer the most efficient and solid camera support available, when compared to any other tripods in their price range.

Outstanding features include:

- Satin-finished, anodized aluminum legs which telescope smoothly.
- Easy grip, black anodized, collar leg-locks.
- Precision, geared column elevation which self-locks at any height and will not accidently fall when crank is released.
- Dual axis spirit level built into head.
- 3-Way Pan Head with all movements calibrated.
- Head mounts at either end of column for extreme low angle work.
- 2-Position, locking leg-spread.

Calumet TPA Tripod

This rigid, 3-section tripod will solidly support cameras up to and including heavy 4 x 5 view cameras. Specifications include:

Usable range: 0" to 73"
Folded height: 32"
Column lift: 11"
Column diameter: 1 7/16"
Leg diameter: 1 7/16"
Platform size: 2 5/8" x 2 5/8"
Weight: 12 lbs., ½ oz.
Camera mount: both ¼-20 and 3/8"
TPA Tripod complete with head
CC9135..... **$229.95**

Calumet TPM Tripod

This versatile, 3-section tripod provides unquestionable support for any camera up to and including 8 x 10. Specifications include:

Usable Range: 0 to 83 3/4"
Folded height: 35 ½"
Column lift: 13 ½"
Column diameter: 1 9/16"
Leg diameter: 1 9/16"
Platform size: 2 5/8" x 2 5/8"
Weight: 15 lbs., 1 oz.
Camera mount: both ¼-20 and 3/8"
TPM Tripod complete with head
CC9130..... **$299.95**

Calumet's Tripod Price Comparison

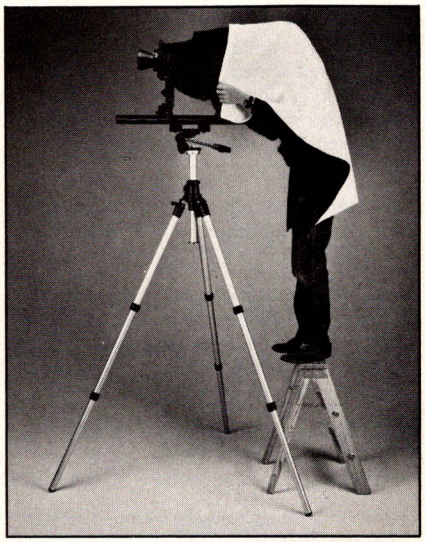
Shop and compare! The Calumet TPA or TPM Tripods offer you more support for your money than you might realize. Take a look at how the Calumet Tripods stack up against their competition:

4" x 5" View Camera Tripods

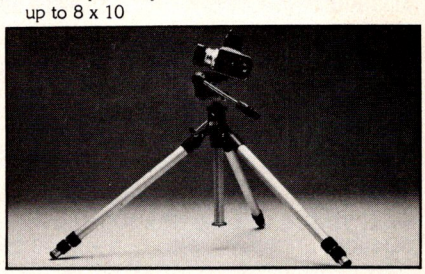
Calumet TPA Tripod—complete **$229.95**
Majestic #2500—with head **$289.95**
Gitzo Studex Compact Performance —with Rational 3b head **$274.95**

8" x 10" View Camera Tripods

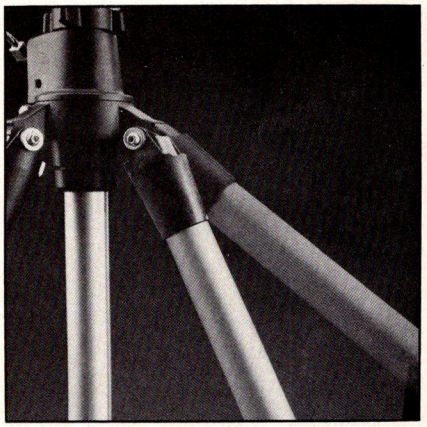
Calumet TPM Tripod—complete **$299.95**
Majestic #4800—with head **$409.95**
Gitzo 410R Pro Studex Giant—with 472 Rational 4B head **$369.95**



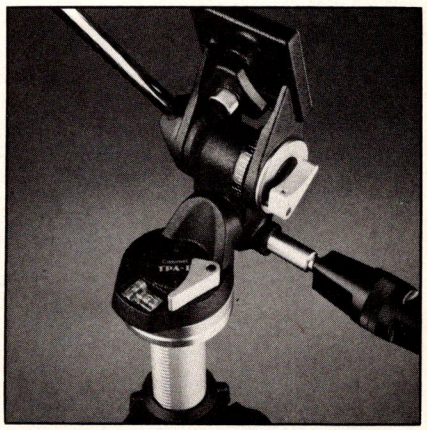
TPM Tripod may be used with all cameras up to 8 x 10



TPA is practical for medium and large format cameras



Two position locking leg spread.



3-Way Pan Head with all movements calibrated.

Professional Tripods and Accessories

Majestic Tripods

The well known Majestic tripods and accessories are designed for utmost rigidity, dependability and long life. Majestic is the outstanding choice of many professional photographers. Heads not included. Elevator options:

Quicklift applies lifting power directly to the rack. One turn of the crank raises the camera 1⅞".

Powerlift does the lifting thru a gear and worm combination. This method raises the camera slower (5⁄32" per turn), but increases lifting capacity and holds camera at any height as soon as cranking is stopped.

#2500. Quicklift elevator with braced legs. 33"-95," 11 lbs. (4" x 5").
MJ2500..... **$179.95**

#3000. Quicklift elevator with unified leg extension. 33"-95", 13¾ lbs. (4" x 5").
MJ3000..... **$219.95**

#3300. Same as MJ3000 with Powerlift.
MJ3300..... **$229.95**

#4400. Double tube legs, braced, with Quicklift elevator, 37"-97", 17½ lbs. (8" x 10"). **MJ4400** **$289.95**

#4800. Same as MJ4400 with Powerlift elevator, 37"-97", 17½ lbs. (8" x 10").
MJ4800..... **$299.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Majestic Gearheads

#1200. Standard gearhead, 6"W x 7"L table, for 1½" post, fits models #2000-#4800. (8" x 10"). **MJ1200**..... **$109.95**

#1400. Same as #1200 with 6"W x 4½"L table. (5" x 7"). **MJ1400** **$109.95**

#1600. Same as #1200 with 3⅝"W x 3"L table. (4" x 5"). **MJ1600** **$109.95**

#1800. Same as #1200 with 4½" round table. (4" x 5"). **MJ1800** **$109.95**

Majestic Tripod Accessories

#8040 Side Arm. Fits #2000-#4800, top or bottom of centerpost. 18" arm tube. Head clamp can be moved in and out. 1¾ lbs.
MJ8040..... **$39.95**

#8030 Outrigger. A more sophisticated form of the sidearm. Because of the double off-center support, the weight put upon the arm is more evenly balanced and stable. Can be set at any point on the vertical tube and can also be set with the center-post crank. Adjustable head clamp can be moved laterally. Arm tube is 28", vertical tube is 32". Wt.: 4½ lbs. **MJ8030**..... **$79.95**

#8050 Flat Foot. Fits #2500, #3000, #3300, and any tripod w/1" round legs).
MJ8050..... **$29.95**

#8055 Anchor Spike. (Fits #2500, #3000, #3300). Spike digs in soft ground, disk keeps leg from sinking.
MJ8055..... **$29.95**

#8060 Anchor Spike. (Fits #4000, #4400, #4800 and receptacle #8050).
MJ8060..... **$19.95**

Bogen Tripods

Whether you use a 35 mm or a 4" x 5" camera, Bogen has a tripod for your requirements. All Bogen tripods feature hand finished, high strength aluminum alloys that resists wear and remain rigid and stable even with heavy use and abuse.

3022 Convertible tripod (w/new 3028 "Super 3-D" head) elevation 14"-74.5"
BG4005..... **$89.95**

3035 Professional 3-section tripod (w/3047 3-way panhead) elevation: 36"-87.5"
BG4010..... **$139.95**

3040 Professional 2-section tripod (w/3047 3-way panhead) elevation: 36"-87.5"
BG4015..... **$129.95**

3050 Professional Tripod lets you extend one leg at a time or all three together with finger tip control, (with 3047 3 way panhead) elevation: 36"-87.5."
BG4020..... **$169.95**

Bogen Mounting Plates

For 3040, 3035 and 3050

3041 Mounting Plate U.S. Thread (¼" x 20)
BG4017..... **$9.95**

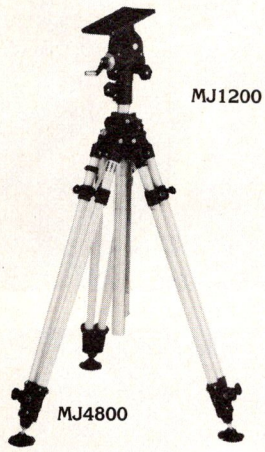
3042 Mounting Plate Euro. Thread ⅜"
BG4018..... **$9.95**

Bogen Extension Legs

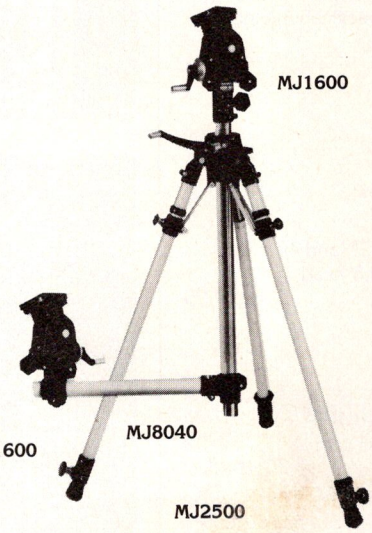
3052 Extension Leg Set for 3050 and 3040 **BG4060**..... **$27.95**

3045 Bogen Tripod Carry Strap
BG4075..... **$8.95**

Bogen Tripod Dolly **BG4050**..... **$79.95**


MJ1200

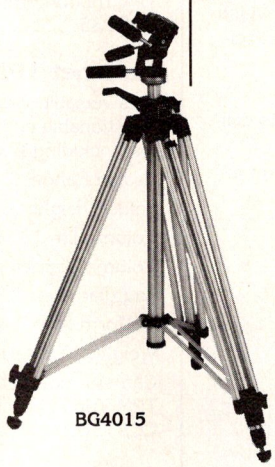
MJ4800


MJ1600

MJ1600

MJ8040

MJ2500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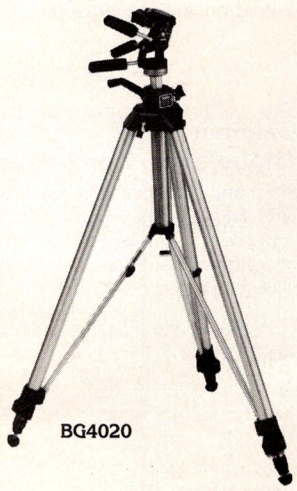

BG4020

Professional Tripods and Accessories

Gitzo Tripods

Gitzo Tripods are hand assembled to the most demanding European precision requirements, which gives optimal stability without torque. Gitzo tripods remain rigid even when fully extended. This, along with their small folded size, makes Gitzo tripods ideal for location photography with any format camera.

126 Total Luxe Performance

4 Sections, Range: 0″-58,″ Folded: 14,″ Weight: 3 lbs. For 35mm cameras, head not included. **GZ1126** **$127.95**

226 Reporter Mode Performance

4 Sections, Range: 0″-69,″ Folded: 17″ Weight: 4½ lbs. Head not included. For 35mm up to lightweight 4 x 5 field cameras.
GZ1226 . . . . . **$149.95**

301 Studex

3 Sections, Range 23″-72,″ Folded: 25,″ Weight: 5¾ lbs. Head not included. For 2¼ x 2¼ up to 4 x 5 cameras.
GZ1301 . . . . . **$142.95**

323 Studex Compact Performance

3 Sections, Range: 0″-73,″ Folded: 22,″ Weight: 6¼ lbs. Head not included. For 2¼″ x 2¼″ up to 4 x 5 field cameras.
GZ1323 . . . . . **$185.95**

410 R Pro Studex Giant/Rapid

3 Sections: Range: 0″-84,″ Folded: 32,″ Weight: 9 lbs. Head not included. For 4 x 5 up to 5 x 7 cameras.
GZ1411 . . . . . **$264.95**

505C Tele Studex Compact/Cremaillere

4 Sections: Range: 0″-68,″ Folded: 24,″ Weight: 11½ lbs. Head not included. For Heavy 4 x 5 up to 8 x 10 cameras.
GZ1507 . . . . . **$399.95**

504C Tele Studex Giant Luxe/Cremaillere

5 Sections: Range: 0″-116″, Folded: 32″ Weight: 15 lbs. Head not included. For large format up to 8 x 10 cameras.
GZ1510 . . . . . **$499.95**

Gitzo Monopods

563 Mono Reporter

4 sections, Range: 19″ to 64,″ Weight: 1½ lbs. Head not included. For 35mm and 2¼ x 2¼ cameras. **GZ1563** **$59.95**

564 Mono Studex

4 Sections, Range: 19″-64,″ Weight: 1¾ lbs. Head not included. For 35mm, 2¼ x 2¼ and 6 x 7 cm cameras.
GZ1564 . . . . . **$69.95**

Gitzo Pan and Tilt Heads

272 Rational 2B

Platform 3⅛″ x 2⅛,″ Height 5½,″ Weight 2 lbs., for 35mm and 2¼ x 2¼ cameras.
GZ2272 . . . . . **$84.95**

372 Rational 3B

Platform 3⅛″ x 2⅛,″ Height 6½,″ Weight 2½ lbs., for 2¼ x 2¼ up to 4 x 5″ field cameras.
GZ2372 . . . . . **$93.95**

472 Rational 4B

Platform 3¾″ x 3,″ Height 7½,″ Weight 3¾ lbs., for 4 x 5 and 5 x 7 cameras.
GZ2472 . . . . . **$116.95**

570 Rational 5

Platform 6¾,″ x 4,″ Height 3½″ Weight 3½ lbs., for heavy 4 x 5 up to 8 x 10 cameras.
GZ2570 . . . . . **$116.95**

Gitzo Ball Heads

175 Ball I

Platform 2,″ Height 2¾,″ Weight 7 oz., for 35mm up to 2¼ x 2¼ cameras.
GZ23175 . . . . . **$51.95**

275 Ball 2

Platform 3″ x 2¾,″ Height 3¾″ Weight 1 lb., for 35mm up to light 4 x 5 field cameras.
GZ3275 . . . . . **$68.95**

375 Ball 3

Platform 3″ x 2¾,″ Height 4½,″ Weight 1¼ lbs., for heavy 2¼, 6 x 7 cm, and light 4 x 5 cameras.
GZ3375 . . . . . **$93.95**

Recommended Tripod/Head Combinations

Lightweight Field Camera Tripod

Gitzo 226 Reporter Mode Performance Tripod with the Gitzo Ball 2 Head. Total weight only 5½ lbs. Extended Height 72¾.″ Folded length less than 21.″
GZ1226 and **GZ3275**
package **$214.95**

Standard 4 x 5 Tripod

Gitzo Studex compact Performance Tripod with the Gitzo Rational 3b Head. Total weight 8¾ lbs. Extended height 79½″.
GZ1323 and **GZ2372**
package **$274.95**

Heavy Duty 4 x 5 Tripod

Gitzo 410R Pro Studex Giant with Rapid sliding column and Gitzo 472 Rational 4B head. Total weight 12¾ lbs. Extended Height 91½″.
GZ1411 and **GZ2472**
package **$369.95**

Gitzo Tripod Accessories

Spike/Feet for Tripods (sets of 3)

(Note: Spike feet are for semi-permanent installation only)

For #126	**GZ4500**	**$15.95**
For #226	**GZ4502**	**$18.95**
For #301	**GZ4504**	**$19.95**
For #323	**GZ4506**	**$22.95**
For #505C & 410R	**GZ4508**	**$26.95**

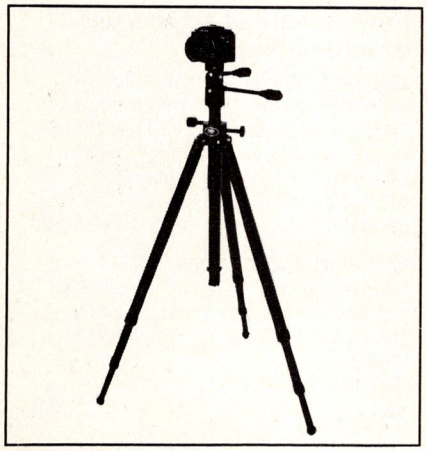
Spike/Feet for Monopods (1 each)

For #563	**GZ4510**	**$10.95**
For #564	**GZ4512**	**$12.95**

5 in. Short Column

For #126	**GZ4550**	**$21.95**
For #226	**GZ4552**	**$25.95**
For #323	**GZ4554**	**$25.95**
For #410R	**GZ4556**	**$29.95**

Lightweight Tripods



Leitz Tiltall Tripod

Solid metal construction with matte black finish. Extends to 70¾", folds down to a compact 30", and weighs only 6 lbs. 6 oz. Tiltall camera platform rotates from 90° forward to 45° to the rear. The head angles from 90° left to 45° right.

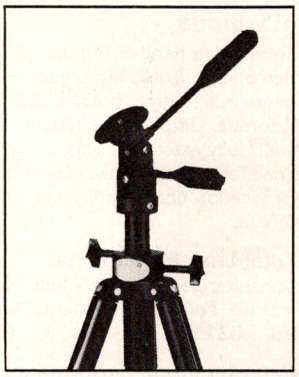
LC3020 . . . . . **$129.95**

Gitzo 226 Reporter Mode Performance Tripod/Gitzo Ball 2 Head Package

- Folded length: 21"
- Extended Height: 72¾"
- Weight 5½ pounds

When combined with the flexible Gitzo Ball 2 Head, you have the ideal field camera tripod.

GZ1226 and GZ3275 . . . . . **$214.95**



Star-D Tripod

Model D-26 is a heavy duty tripod for up to 4 x 5 field cameras. Extneds to 70" folds to 30" weight under 6 lbs.

UL7026 . . . . . **$89.95**

Bogen 3022 Tripod

Convertible tripod (w/new 3028 "Super 3-D" head) elevation 14"-74.5"

BG4005 . . . . . **$94.95**

Tripod Cases

Domke F4 Sling Bag

The ideal size for a tripod, light stands and umbrellas. Inside are two compartments for dividing umbrellas from stands. Outside straps go all the way around the bag to support the load. Large enough for at least three light stands and three umbrellas. Dimensions 4" x 42" x 8". Weight: 1 lb. 14 oz. Color: Brown **DK3000** **$44.95**

Domke FX4 Super Sling Bag

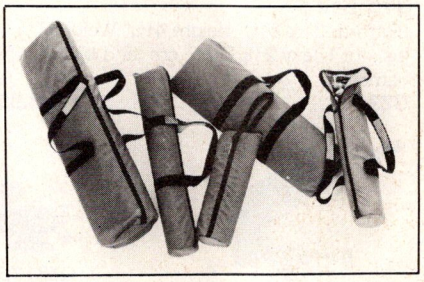
For photographers who want to carry up to half a dozen light stands and umbrellas, this 8" x 38" x 8" Super Sling Bag is the answer. Although there is no inside umbrella compartment in this bag, it functions simply as a big duffel bag with a zipper running the full length of the bag, and has an outside pocket. **DK3005** **$52.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Domke 25" tripod bag with strap.
DK3010 . . . . . **$29.95**

Domke 32" tripod bag with strap.
DK3020 . . . . . **$31.95**

Domke 38" tripod bag with strap.
DK3030 . . . . . **$39.95**



Tri-Paks

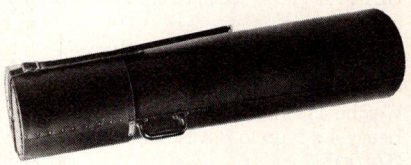
Professional quality tripod bags to carry light stands, umbrellas, and tripods on location.

Tenba Tripod Bags

T488 Grey - 48" x 8½" diameter
TE3010 . . . . . **$51.95**

T388 Grey - 38" x 8½" diameter
TE3020 . . . . . **$49.95**

T325 Grey - 32" x 5¼" diameter
TE3040 . . . . . **$38.95**



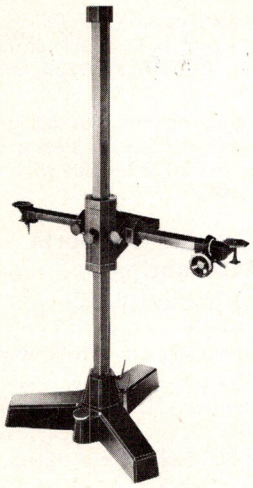
Fiberbilt Adjustable Tripod and Lightstand Cases

Practical cases that protect tripods with plywood bottom for puncture resistance and thick rubber pad in cover to hold tripod securely.

Length Min.	Length Max.	Inside Diameter	Cat. No.	Price
25"	30"	8½"	FB3450	$77.95
30"	40"	8½"	FB3455	$78.95
40"	50"	8½"	FB3460	$79.95
30"	40"	10"	FB3465	$81.95
40"	50"	10"	FB3470	$83.95

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Foba Studio Equipment



Foba ASTIO/ASTEO Studio Stands

The revolutionary ASTIO/ASTEO hexagonal studio camera stands offers a wide range of possibilities to the professional photographers. The moveable parts are ball bearing mounted and are sliding smooth even with the heaviest camera on top. The guiding parts of the horizontal and vertical movement are sliding on 24 ball bearings, these ball bearings are adjustable. The vertical hexagonal column can be turned 360° without moving the base. The locking of the base is made by a central foot pedal. Accessories not included.
ASTIO 9 ft stand. Weight 287 lb.
FO0100 . . . . . **$3625.00**
ASTEO 7 ft. stand. Weight 275 lb.
FO0110 . . . . . **$3539.00**

Prices and Specifications subject to change without notice

ASABO/ASABA Stands

Because of the success of the hexagonal studio camera stand FOBA decided to make a new, lighter execution of this generation. This new model, ASABO/ASABA, has practically the same features like the ASTIO/ASTEO but the weight is 110 lb less. The guiding parts of the horizontal and vertical movement are sliding on 24 ball bearings. These ball bearings are adjustable. The vertical hexagonal column cannot be turned, however it can be mounted to the base in two different positions. Accessories not included.
ASABO 6½ ft stand: weight 160 lb.
FO0200 . . . . . **$2399.00**
ASABA 8′ stand weight 168 lb.
FO0210 . . . . . **$2499.00**

Accessories for ASTIO/ASTEO Stands

ASTEA Camera Tilt Head

The well designed tilt head can be attached on either side of the extension arm. It is turneable 360° and securely locked in any position.
FO0150 . . . . . **$149.95**

ASTIA Panoramic Adaptor

The panoramic adaptor can easy be attached to any camera (⅜″). Together with the camera it is to be mounted on top of the tilting head ASTEA.
FO0152 . . . . . **$135.95**

ASGAO Camera Head Geared

This newly developed geared camera head is used for fine adjustment of heavy cameras. It can be mounted on either side of the extension arm.
FO0156 . . . . . **$649.95**

ASTAO Deposit Table

FO0154 . . . . . **$89.95**

ASGUO Additional Counter Weight

The additional counter weight is used with extremely heavy cameras only.
FO0158 . . . . . **$49.95**

ASTEE Extension Arm

The additional extension of the horizontal arm is often used for special works in the studio. 23½ in long.
FO0160 . . . . . **$186.95**

Accessories for ASABO/ASABA Stands

ASOBA Camera Tilt Head

The well designed tilt head can be attached on either side of the extension arm. It is turneable 360° and securely locked in any position.
FO0250 . . . . . **$129.95**

ASOBI Adaptor Sleeve

To attach the geared camera head to the sliding cross arm of the ASABO/ASABA, this adaptor sleeve must be used.
FO0262 . . . . . **$24.95**

ASOBE Deposit Table

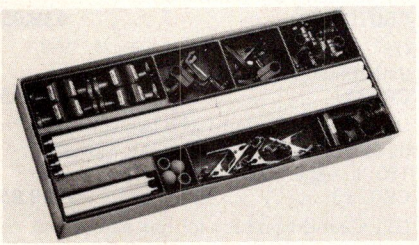
FO0254 . . . . . **$69.95**

ASOBO Additional counter Weight

The additional counter weight is used with extremely heavy cameras only.
FO0258 . . . . . **$37.95**

ASOBU Column Rotating Flange

to turn the vertical column 360°
FO0264 . . . . . **$279.95**

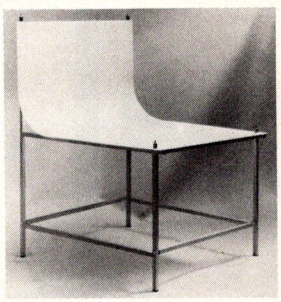


Foba COBOX Combi-Tube-Kit

Cobox is a new small combi-tube-kit for studio use and on location shots. The kit consists of: 6 CONRO AF (80cm tubes), 4 COKRO AF (40cm tubes), 4 COARO AF (20cm tubes), 4 COGEO (joint sleeves), 2 COTRO (triple sleeve), 2 CODUO (double sleeve), 1 COGAO (universal sleeve), 1 COKLA (universal clamp), 5 COKLO (combi clamp), and 4 DOGUO (rubber feet).
FO2010 . . . . . **$449.95**
Case for Cobox kit
FO2020 . . . . . **$186.95**

Foba COSET Combi-Tube-Kit

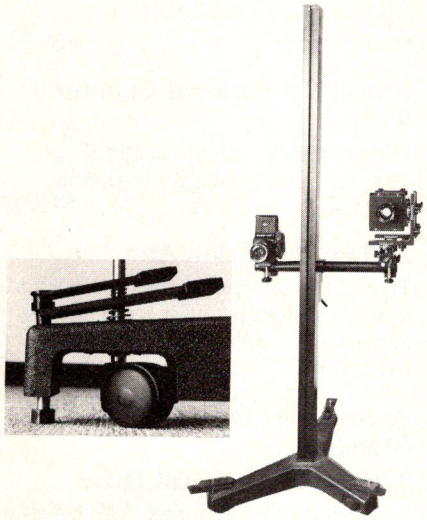
This full system Combi-tube-kit contains the following: 16 CONRO AF (80cm tubes), 8 COKRO AF (40cm tubes), 6 COARO AF (20cm tubes), 6 COGEO (joint sleeve), 4 COTRO (triple sleeve), 4 CODUO (double sleeve), 2 CORDO (cross sleeve), 2GOCAO (universal sleeve), 5 COKLO (combi clamp), 2 CEHUO (threaded sleeve adpt.), 2 POLBE (threaded bolt), 2 CEBLO (threaded bolt), 4 DOGUO (rubber feet), and 2 COSNO (folding stand).
FO2000 . . . . . **$1099.00**



Foba DIMIL Medium Background Table

Features preformed front plate which means that photographs can be taken against the front without shadows of a front cross bar support. Acrylic plate is 3mm thick. Size 68¾ x 48 in.
FO1000 . . . . . **$499.95**

Cambo EST Studio Stands



Cambo EST Studio Stands

The Cambo EST Studio Stand is designed to handle all cameras up to and including 4 x 5 format. The EST is available in both 7 and 9 foot heights, with either on or two camera arms complete with camera platforms. The optional accessory tray attaches independent of the camera arm.

The EST Stands are of solid metal construction, with a square column and a star-shaped base with three swievel casters and three blocking devices. Its smooth action rise and fall movements is counter-balanced and easily locked. The EST's unique base system actually raises the casters off of the floor, while the stand rests on three ½" diameter steel posts, giving a direct contact with the floor for maximum stability.

Complete EST Studio Stands

EST with Single Camera Arm

Arm extends 340mm from the column. **7′ tall** square column with sliding collar, counter-weight, base, single arm for one camera. **CB0737, CB0735,** and **CB0744** **$499.00***

9′ tall square column with sliding collar, counter-weight, base, single arm for one camera, support. **CB0739, CB0735,** and **CB0744** **$529.00***

Note: 7 ft. EST Studio stands may be shipped via U.P.S. 9 ft. EST Stands must be shipped via truck freight collect.

EST with Double Camera Arm

7′ tall square column with sliding collar, counter-weight, base, double arm for two cameras. **CB0737, CB0735,** and **CB0745** **$569.00***

9′ tall square column with sliding collar, counter-weight, base, double arm for two cameras. **CB0739, CB0735,** and **CB0745** **$599.00***

EST Camera Supports and Accessories

E5 Accessory tray fitting E1
CB0746 . . . . . **$79.95**

E10 Camera support, with ¼" WW-thread
CB0749 . . . . . **$45.00**

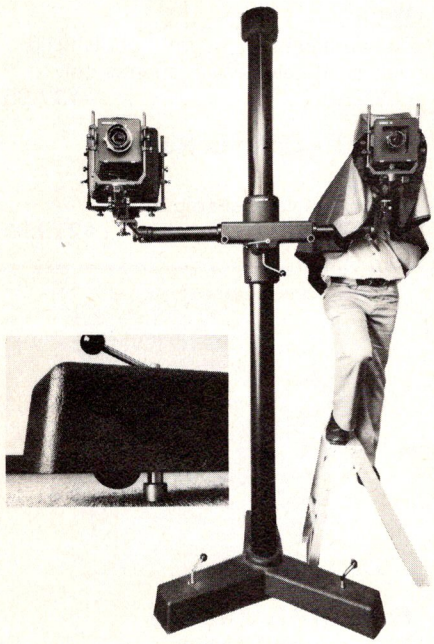
E12 Extra heavy counterweight for E1
CB0750 . . . . . **$67.00**

E13 Set of 3 replacement casters
CB0751 . . . . . **$39.00**

E20 Camera support, with ⅜" WW-thread
CB0752 . . . . . **$45.00**

*Camera support not included. Order E10 or E20.

Cambo UST Studio Stands



Note: Studio stands exceed U.P.S. shipping requirements. Stands are shipped by truck freight collect only.

UST Single Arm Studio Stands

Include the following with your choice of 7, 9, or 12 ft. columns.

1 UST Column (Specify 7, 9, or 12 ft.)
1 UST Base **CB0677**
1 Single Arm **CB0705**

7′ UST Single Stand Complete* **$1095.00***

9′ UST Single Stand Complete* **$1195.00***

12′ UST Single Stand Complete* **$1295.00***

UST Double Arm Studio Stands

Include the following with your choice of 7, 9, or 12 ft. columns.

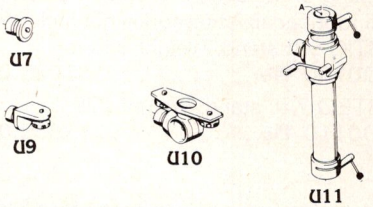
1 UST Column (Specify 7, 9, or 12 ft.)
1 UST Base **CB0677**
1 Double Camera Geared Arm **CB0706**

7′ UST Double Stand Complete* **$1195.00***

9′ UST Double Stand Complete* **$1295.00***

12 UST Double Stand Complete* **$1395.00***

*Camera Platforms not included.



UST/SCS Camera Platforms

U7 Camera Platform, fixed with ⅜" WW-thread fitting U3, U4, U6, U11.
CB0709 . . . . . **$39.95**

U9 Camera Platform, fixed, with ⅜" WW-thread fitting U3, U4, U6, U11.
CB0711 . . . . . **$89.95**

U10 Camera Platform with two screws (⅜" thread) fitting U3, U4, U6, U11. Movability: 180° in either direction.
CB0713 . . . . . **$199.95**

U11 Gear-driven tube for fine adjustment fitting U3, U4, U6. Movability: 265mm/10.5" **CB0714** **$374.95**

Accessories for UST/SCS Stands

U6 Extension tube, length 380mm/15.5" fitting U3, U4, U11. **CB0708** **$129.95**

U5 Accessory tray, complete, for U3 and U4. **CB0707** **$99.95**

U15 Extra counterweight, only for UST
CB0699 . . . . . **$49.95**

U17 Adapter for U-parts, for use on stands with ⅜" WW-thread **CB0717** **$89.95**

Cambo SCS Studio Stands-Maximum Support-Minimum Price

Cambo SCS Studio Stands

The Cambo SCS studio stand offers maximum support for view cameras at a minimum price. Never before has such a solid stand been available at such a low price. Built and designed with the professional in mind, the SCS offers precision smooth operation, with convenient and dependable counter balanced action. Its newly designed extruded square column permits precise (straight up and down) vertical movements without tacking. The standard double cross arm features smooth, gear-driven lateral control up to 85cm and total support for up to 2 - 8 x 10 view cameras. The SCS star-shaped, 3-point base is solidly constructed of sand cast iron and features independent locking, 3″ double swivel castors. Cambo's unique base-locking system is adjustable and offers exceptional stability. Instead of simply locking each castor in place to secure the position of the base, 1″ steel posts are extended which actually raise the castors off of the floor. This provides more surface contact than is possible from a castor, and, thus provides better stability.

One important new optional accessory for the SCS stand is the Rotating Adapter which allows independent 360° column rotation. The rotating Adapter mounts between the column and the base and features a convenient foot-locking lever. This makes it possible to independently raise the cross-arm while the Rotating Adapter is in the locked position and permits rotation of the column without binding the cable.

The Cambo SCS Studio Stand offers full compatability with the Cambo UST accessory platform system.

7′ Cambo SCS Studio Stand
CB0760 . . . . . **$950.00***

9′ Cambo SCS Studio Stand
CB0762 . . . . . **$995.00***

12′ Cambo SCS Studio Stand
CB0764 . . . . . **$1095.00***

*Mounting platforms and heads not included.

Accessory Tray for SCS Stand
CB0768 . . . . . **$99.95**

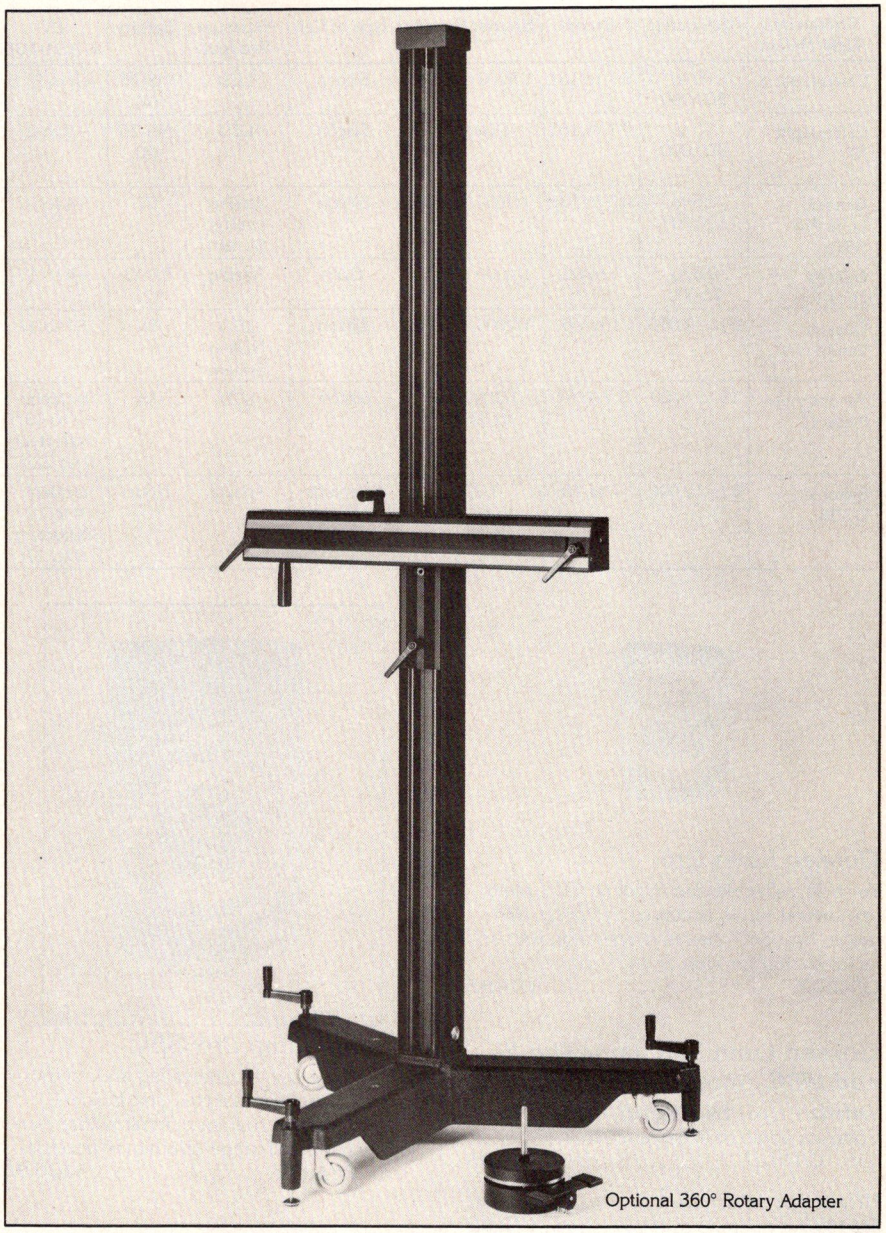
SCS Camera Platforms

U7 Camera Platform, fixed with 3/8″ WW-thread fitting U3, U4, U6, U11.
CB0709 . . . . . **$39.95**

U9 Camera Platform, fixed, with 3/8″ WW-thread fitting U3, U4, U6, U11.
CB0711 . . . . . **$89.95**

U12 camera Platform, fixed, with 1/4″ WW-thread fitting U3, U4, U6, U11.
CB0712 . . . . . **$89.95**

SCS 360° Rotary Adapter Buse
CB0772 . . . . . **$295.00**



Optional 360° Rotary Adapter

New Cambo 3-D Gearhead

The new Cambo 3-D Gearhead will support any camera up to 55 pounds and provides precision smooth movements when mounted to any studio stand or tripod. This Gearhead outmaneuvers its competition by featuring 180° geared tilt movements, 180° side-tilt and 360° pan rotation capabilities. Its rugged, all-metal construction will withstand years of heavy, daily studio use. Universal 3/8″ screw mount base makes it possible to mount the Cambo 3-D Gearhead to most studio stands and professional tripods, including Calumet and Gitzo. Weight: 5 pounds.

CB0770 . . . . . **$149.95**

Continuous Light Meters

Continuous Light Meters	ASA Range	F-Stops	Shutter Speeds	Type of Cell	Exposure Readout	Battery	EV at ASA-100	Comments	Supplied with:	Cat. No.	Price
Calcu-Light X	.05 to 800,000	0.7 to 181	1/4000 to 1 Hr.	Silicon	LED	MS-76 (4)	−3 to 21.3	Memory Recall	Case, Neck Strap & Batts.	CU1000	$ 79.95
Calcu-Light XP	.05 to 800,000	0.7 to 181	1/4000 to 1 Hr.	Silicon	LED	MS-76 (4)	−7 to 21	Extended Range Over Calcu-Light X	Case, Neck Strap & Batts.	CU1500	$109.95
Gossen Luna Pro SBC	0.8 to 100,000	0.7 to 128	1/4000 to 8 Hr.	Silicon	Analog Nulling System	9V	−4 to 17	Full System of acc. available	Case, Neck Strap Battery	GS4009	$136.95
Gossen Luna Pro	0.8 to 25,000	1 to 90	1/4000 to 8 Hr.	CDS	Analog	PX-13 (2)	−4 to 17	Dual Range	Case, Neck Strap & Batts.	GS4002	$ 94.95
Gossen Luna-Lux	6 to 12,500	1 to 45	1/2000 to 2 Hr.	Silicon	LED Nulling System	9V	+1 to 17	Direct Measurement for Zone System	Case, Batt.	GS4025	$ 54.95
Minolta Auto Meter III	12 to 6400	0.7 to 64	1/2000 Sec. to 30 Min.	Silicon	LCD	AA	Incident: −2 to 19.5 Reflected: 1 to 22.5	2-Memory Measurement	Sherical Diffuser, Neck Strap, Belt Case, Battery	MN4007	$119.95
Sekonic L-398	6 to 12,000	1 to 90	1/2000 to 60 Sec.	Selenium Photocell	Analog	None	Incident: 4 to 17 Reflected: 9 to 17	Swivel head ft. candle scale	Strap, Case Lumisphere Grid. Disc High Slide	SE4060	$ 69.95

Gossen Luna Pro

Versatile, reflected and incident, CDS meter reknowned for its accuracy, reliability, and range. Smooth, one-hand operation with selector button for high and low range.
GS4002 . . . . . **$94.95**

Gossen Luna Pro, Luna Pro-F, and SBC Accessories

Variable Angle "Spot Meter" Attachment - Converts angle of acceptance to 7½° or 15°. **GS4427** **$59.95**

Microscope Attachment
GS4423 . . . . . **$42.95**

Flexible Fiber Optics Probe - Provides through-the-lens readings on view camera.
GS4425 . . . . . **$177.95**

Enlarging Attachment GS4420 . . . **$42.95**

Copy Attachment GS4429 . . . . . **$39.95**

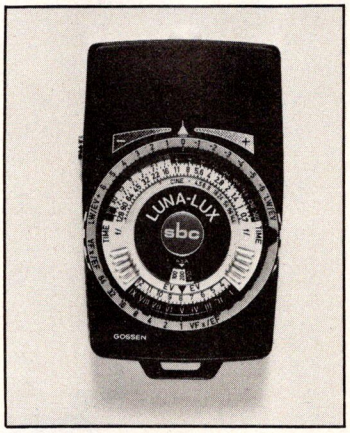
Luna Pro SBC Accessories

1° Spot Attachment–
GS4492 . . . . . **$259.95**

Flash Attachment– GS4490 . . . **$169.95**

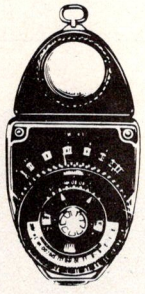
Fiber Optics Probe– GS4495 . . . **$191.95**

Calumet stocks a complete selection of meter accessories. Call or write for details.



Gossen Luna Pro SBC

Silicon blue cell eliminates lag and memory effects. Measures reflected and incident light. Electronic memory circuit holds reading. Accepts full range of optional accessories. **GS4009** **$136.95**



Sekonic L-428

Incident and reflected light meter capable of diversified measurements with the use of a wide selection of optional accessories (listed below). Employs swivel head light sensor for easy measuring. **SE4080** **$109.95**

Minolta Auto Meter III

Combines the accuracy of a digital readout and the graphic indication of an analog meter. Memory will store up to two exposure readings. Optional accessories convert meter to a versatile reflected and enlarging meter. **MN4007** **$119.95**

Minolta Accessories

10° Spot Attachment- MN4405 . . . **$29.95**
Flat Disc Diffuser - MN4410 . . . . . **$10.95**
Meter Booster Set - High sensitivity, reflected-light receptor for through-the-lens light measurement. Produces spot readings on ground glass, measures brightness at the SLR Viewfinder, can do TTL measurement with flash photography. Includes attachments for spot-probe, eyepiece, microscope, and 35 film plane. **MN4134** **$169.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Flash Meters

Flash Meters	ASA Range	F/Stops	Shutter Speeds	Type of Cell	Exposure Readout	Battery	EV at ASA-100 for Continuous Light	Cord/ Cordless	Dual Function: Flash/ Continuous Light	Supplied with:	Cat. No.	Price
Calcu Flash S	0.5 to 50,000	1.0 to 91	N/A	Silicon	LED	MS-76 (4)	N/A	Cordless Only	Flash Only	Hi, Low Turrett, Cord, Batts.	**CU2500**	**$ 89.95**
Calcu Flash II	0.5 to 50,000	1.0 to 81	1/15 to 1/500	Silicon	LED	MS-76 (4)	3 to 24	Both	Both	Flash Cord Ref. Lite, Turrets, Batts.	**CU2000**	**$159.95**
Gossen Luna Pro F	0.8 to 100,000	0.7 to 128	8 Hrs. to 1/4000	Silicon	Analog Nulling System	9V	−1 to 17	Cordless Only	Both	Case, Batt, Strap	**GS4015**	**$129.95**
Minolta Auto III F	12 to 6400	1.0 to 45	Ambi-1/2000 to 30 min. Flash-1/60 and 1/250 sec.	Silicon	LCD and Analog	6V E-537	Inc.:-2.4 to 19.1 Ref: 1.0 to 22.5	Cordless	Both	Spherical dif., strap, case, key guard.	**MN4008**	**$174.95**
Minolta Flash Meter III	12 to 3200	1.0 to 90.9	AMBI: 30 Sec to 1/1000. Flash: 1 to 1/1000	Silicon	LCD	MS-76 (6)	1 to 18.2	Both	Both	Case, Reflector, Adapter, Batts.	**MN4130**	**$309.95**
Sekonic L-458	6-8,000	1-90	1/15-1/25	Silicon	LCD	AA(1)	4:21.9	Cord only	Both	Case, strap batt., refl. grid, sphere	**SE4130**	**$119.95**
Sekonic L-256	6 to 12,000	1 to 128	1 Sec. to 1/2000	Silicon	Analog	TR-164	Inc 9 to 20, Ref 10 to 21	Both	Both	Sync Cord, Lumisphere, Lumi-Disk	**SE4120**	**$169.95**
Sekonic L-518	6 to 8,000	1 to 90	Flash: 1-1/500 Cont.: 30 mins. to 1/8000	Silicon	LCD and Analog	AA (1)	−5 to 25	Both	Both	Case, Lumisphere, Lumi-Disk	**SE4100**	**$279.95**

Multi-Mode Sekonic Digi Pro X-1

The new Sekonic Digi Pro X-1 (Model L-518) meter provides all necessary input and metering information for five reading modes: flash with sync cord; cordless flash; cumulative flash; shutter-speed priority; and aperture priority with aperture/shutter speed or EV readout. It also displays countdown sequences for precise time exposures terminating with an audible signal.

SE4100 . . . . . **$279.95**

Sekonic Flash Meter L-256D

Measures flash, daylight and tungsten light and can also be used as a slave unit for additional electronic flash lighting. Can be used for both cord and cordless measurements. **SE4120** **$169.95**

Sekonic L-458 Flash Meter

Inexpensive direct readout LCD Flash Meter which also reads reflected and incident ambient light. Provides accurate readings in 1/10 stops. **SE4130** **$119.95**

Sekonic Meter Accessories

For L-428 System Meter

10° Viewfinder **SE4450** **$49.95**

Enlarger Attachment **SE4455** **$29.95**

For L-398 Studio Meter

11 Piece Slide Set **SE4410** **$19.95**

Calumet stocks a complete selection of meter accessories. Call or write for details.

Gossen Ultra Pro

Multiple function exposure meter with the following functions:

- Reads flash and continuous light.
- Full range of photographic and photometric readouts/functions.
- Direct readout of brightness range and contrast, and flash to daylight ratios.
- LCD digital readout with Silicon Blue cell.
- Computes number of flashes necessary for a pre-selected f-stop.
- Calibrates necessary exposure corrections for filters, accessories, etc.
- Functions as a manual timer and provides visual and audible indications for exposures 1 sec. or longer.
- Accepts Luna Pro SBC and standard Luna Pro accessories.

GS4005 . . . . . **$264.95**

Gossen Luna Pro F

Measures both continuous light and flash. Uses same nulling readout as the SBC, which is ideal for determining lighting ratios and brightness range. Accepts entire line of Luna-Pro accessories.

GS4015 . . . . . **$129.95**

Minolta Flash Meter III

Multiple function exposure meter for direct digital exposure readings with incident/reflected flash and continuous light. Features swivel head and easy, one-hand operation.

MN4130 . . . . . **$309.95**

Minolta Auto III F

Combines all of the features of the Auto Meter III in addition to flash metering in both incident and reflected modes, and averaging capability. Features memory circuit and exposure averaging capabilities.

MN4008 . . . . . **$174.95**

Calcu-Flash S

Measures both incident flash and fill-in flash with two digit L.E.D. with ± ⅓ Ev. accuracy. Optional accessories available for reflected, spot, fiber optic, and contrast readings.

CU2500 . . . . . **$89.95**

Calcu-Flash II

Combination flash and continuous light meter triggered with or without cord. L.E.D. accuracy within ⅓ Ev. Accepts same wide range of accessories as Calcu-Flash S.

CU2000 . . . . . **$159.95**

Prices and specifications subject to change without notice.

Spot and Special Purpose Meters

Spot Meters	ASA Range	F/Stops	Shutter Speeds	Type of Cell	Exposure Readout	Battery	Measuring Range	Measuring Angle	Filter Size	Supplied with:	Cat. No.	Price
Minolta Spot Meter M	12 to 6400	0.7 to 64	1/2000 to 30 min.	Silicon	LCD & Analog	1-AA	1 to 22.5	1°	Not Threaded	Neck Strap, Belt Case Cap, Batt.	MN4017	$333.95
Pentax Spot V	6 to 6400	1 to 128	1/4000 to 4 min.	Silicon	Analog	MS 76 (3)	1 to 19	1°	46mm	Case, Cap, Strap, Batt.	PX4040	$146.95
Pentax Digital Spot	6 to 6400	1 to 128	1/4000 to 4 min.	Silicon	LED	PX 28	1 to 20	1°	40.5mm	Case, Cap, Strap, Batt.	PX4050	$209.95
Soligor Spot Sensor II	6 to 12,800	1 to 128	1/4000 to 30 min.	Silicon	Analog	9V	2 to 18	1°	43mm	Cap, Strap, Eye Cup, Case, Bstt.	IP2000	$134.95
Soligor Digital Spot	6 to 12,800	1 to 128	1/4000 to 50 min.	Silicon	LED	9V	1.0 to 20	1°	43mm	Cap, Strap, Eye Cup, Case, Batt.	IP2010	$194.95

Minolta Spot Meter M

1° spot measurements with both LCD and analog readings. Provides choice of three readings (shadow, highlight, or average) of exposure for any measured scene. Contains built-in eyepiece adjustment from −2.5 to +1.2. **MN4017** **$333.95**

Pentax SPOTMETER V

- Measuring Ranges: EV1-19, ASA 6-6400
- Shutter Speeds: 1/4000 sec, -4 min.
- Measuring Angle: Circle of 1°
- Measuring Method: Spot measuring of relfected light
- Photosensitive Cell: Silicon photo diode (SPD)
- Filter Accessory Size: 46mm

PX4040 . . . . . **$146.95**

Pentax Digital Spot **PX4050** **$209.95**

Soligor Spot Sensor II

Provides a 1° reflected spot measurement for precise light readings. Easy to use EV indicator dial in the viewfinder and adjustable eyepiece. **IP2000** **$134.95**

Soligor Digital Spot Sensor

Offers an expanded sensitivity range (EV 1-19.9 at ASA 1000) and the extra convenience of a digital LED display in the viewfinder. **IP2010** **$194.95**

Minolta Color Meter II

Three-color measuring light analyzer for color photographic use.

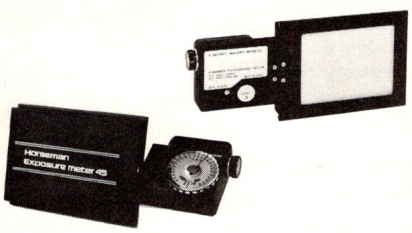
LCD readout of: color temperature (°K), light balancing (LB), and color compensating (CC) filter indexes for type A, B, & D films. Range: 1600 to 40,000°K

MN4020 . . . . . **$477.95**

Flash Receptor (permits color temp readings of electronic flash) **MN4022** **$269.95**

Prices and specifications subject to change without notice.

Horseman Optical Exposure Meters



These large format through-the-lens exposure meters slide into the camera back just like a film holder, and automatically compensate for bellows extension and filters. The integrated metering system reads light at the film plane providing electronically accurate readings in nearly all continuous lighting situations. The price to performance ratio of the Horseman meters, makes them the best large format meters we've seen.

Horseman 6 x 9 Optical Exposure Meter

Reads 6 x 9 cm area for cameras such as the Horseman VHR. May also be used in any standard 4 x 5 camera by means of an optional 4 x 5 adapter. The smaller metering area provides a "center weighted" type of reading when used on a 4 x 5 camera.

Specifications

ASA Range—3 to 12,000

- Shutter Speed Range—1/1000 to 30 min.
- FSV Range—2 to 16

HR9380 . . . . . **$249.95**

4 x 5 Adapter for 6 x 9 meter
HR9382 . . . . . **$42.95**

Accessories for Horseman 6 x 9 Meter

Case for 6 x 9 meter only
HR9381 . . . . . **$19.95**

Replacement Battery for 6 x 9 meter
DU6195 . . . . . **$7.00**

Horseman 4 x 5 Optical Exposure Meter

Measures light over the entire 4 x 5 area for a fully integrated reading. This meter has three ranges and excellent low range sensitivity for long bellows extension and small aperture applications.

Specifications

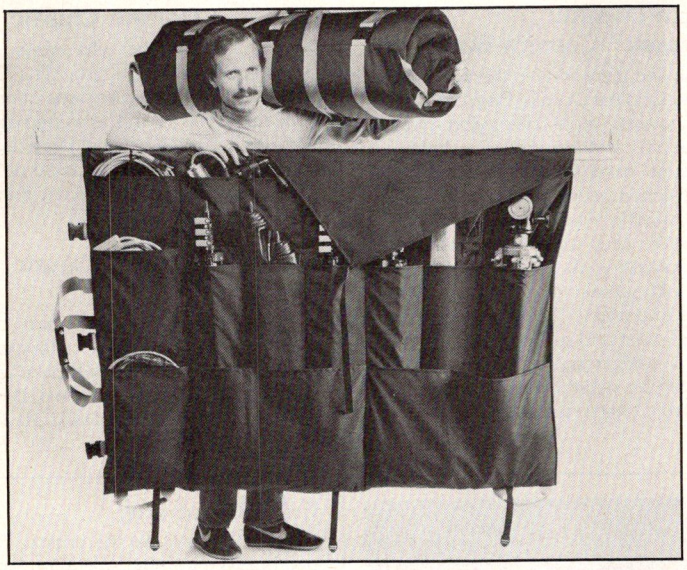
- ASA Range—3 to 12,000
- Shutter Speed Range—1/500 to 30 min.
- FSV Range—5 to 19

HR4680 . . . . . **$289.95**

Replacement Battery **DU6195** **$7.00**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Plume Ltd. Products



StudioWall

Nothing could be more useful in the studio to get the tripod and lightstands, umbrellas and lightbanks, AC cords and strobe cables, clamps and clips off the floor and into a single, well-organized and ordered place. And, when the time comes to move out on location, you simply roll up your studio and walk out the door.

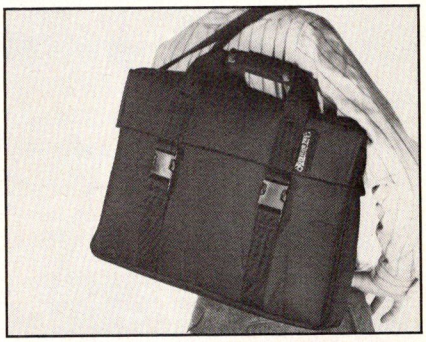
StudioWall is constructed of tough materials—specifically, black waterproof 500 denier CORDURA, aircell foam a quarter-inch thick; 30 feet of silver, two-inch, heavyweight polypropylene webbing, with Fastex snapbuckles made of Delrin; then sewn throughout with heavy-duty nylon upholstery thread.

StudioWall 42 features five light stand pockets (32" deep), a tripod pocket, five short pockets for flash heads, lights and accessories, two cable cord pockets and two over-sized pockets. **Studio Wall 32** is ⅓ smaller and features 3 light stand pockets, 3 short pockets, and 1 double pocket. A dowel sleeve is provided to suspend the studio wall from a wall or between two stands by means of a boom arm and superclamps. Equipment is protected from dust or inclement weather by a full-size overlap.

StudioWall 42 42"(w) x 60"(l)
AF1000 ..... **$189.95**
StudioWall 32 32"(w) x 50"(l)
AF1100 ..... **$131.95**

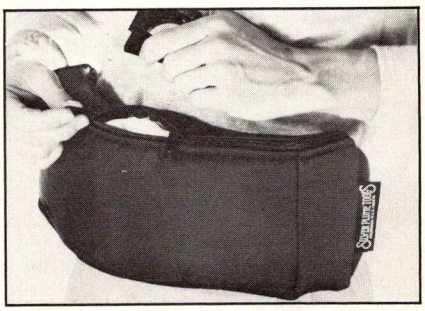
StudioWall Support Tubes

Sectional Tubes that let you suspend StudioWall between two light stands, wall mounts or pulley ropes
Support Tube for StudioWall 42
AF1005 ..... **$35.95**
Support Tube for StudioWall 32
AF1105 ..... **$31.95**



Photographer's Attache

This versatile and durable "soft pack" attache measures 18" x 12½" and is a flexible 3" deep. It features one large main compartment with convenient divider for flat work, and an outside compartment with protective flap. The attache is constructed of nylon pack cloth/foam/tricot lamination, and utilizes YKK zippers and Fastex closures. Features comfortable handle grip and adjustable shoulder strap.
AF2000 ..... **$49.95**



Assistant's Belt Pack

A good place to put all those small but necessary tools-of-the-trade. Soft foam-padded nylon construction molds to waist comfortably. Sizing is adjustable.
AF1500 ..... **$32.95**

Pelican Camera Case

Pelican Camera Case

Pelican cases offer pure protection to your camera equipment. Nothing fancy; just plain and simple watertight–airtight–dustproof protection with an unconditional lifetime breakage/leakage replacement guarantee. Made of hi-impact thermal plastic with 316 stainless steel fasteners, the Pelican case is impervious to corrosion (even salt water) and offers abuse-proof durability. Each case is sealed with a ¼", replaceable, neoprene "o" ring which guarantees an absolute protective seal. It's unique, built-in pressure release valve allows for quick air equalization after altitude or pressure changes.

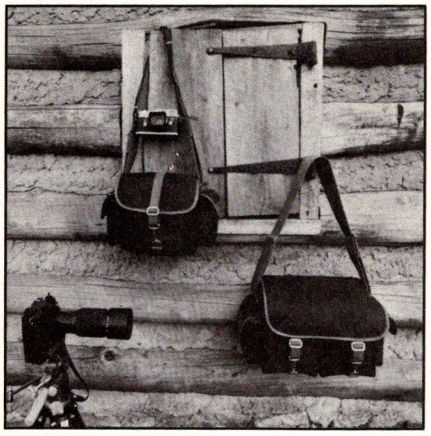
Pelican cases are protected from accidental opening by two heavy duty latches. Additional security is accomplished with an exclusive, integral locking flange built into the large comfortable handle, which is designed for the locking system of your choice.

Each Pelican case comes with 3 layers of quality polyester blue foam (1 layer convoluted, 1 layer pre-cut foam grid) and a comfortable 2" x 42" nylon shoulder strap which is fully adjustable and easily removeable.

These compact cases slide easily under airline seats and meet all carry-on requirements. Interior Dimensions: 17½" x 11⅞" x 6½".

Pelican Camera Case–Silver
SO1105 ..... **$89.95**
Pelican Camera Case–Black
SO1110 ..... **$89.95**

Domke Camera Bags



New from Domke: "The Classic" Camera Bag Line

The Classic line incorporates the proven designs of the Original Domke Bag, but features an innovative multi-layer nylon material called "Produra" and top grade cowhide trim. "Produra" combines shock-absorbing foam sandwiched between two layers of tough and durable nylon. This material is rigid enough to keep the main compartment open while shooting and offer important protection without taking up valuable space. And just as important, "The Classics" are easy to keep neat and new looking. Since "Produra" is waterproof, the tight weave of the nylon can be wiped clean with a damp cloth. Available only in rich dark brown.

FR100—Domke Classic

For the photographer who wants to tote his complete system with him, "The Classic's" 9"w x 18"l x 10"h dimensions offer sufficient space. Supplied with the same patented insert design of the original Domke bag. New flap design allows flap to stand up when open and closes automatically if the bag should tip over. **DK1500**..... **$89.95**

FR350—Domke Classic Compact

Modelled after the Domke Super Compact FX3, the Classic Compact offers the advantages of the new nylon "Produra" and added padding for the inside dividers. Dimensions are 7"w x 13"l x 10"h. **DK1550**... **$69.95**

Domke Bags are a result of everything learned from hardworking experience with camera bags in the field.

That's why every Domke Bag is made of canvas duck—a natural, cotton fiber noted for its exceptional durability. It's also lighter than leather, tough enough to defy extremes of heat and cold, and more substantial than nylon to keep its shape. What's more, this canvas is soft and flexible to allow bags to conform to the photographer's body while shooting.

The canvas also swells when wet to seal seams and minimizes condensation by "breathing."

All stitching is done with sturdy sail thread, made to military standards, and reinforced at all stress points. A heavy strap is sewn entirely around the bag to support the weight.

The outside pockets have velcro-type fasteners to make them quick and easy to open or close. The main compartment is secured with simple spring clips that can be opened or closed with one hand.

F-2 Original Domke Bag (above)

Features twelve compartments that can hold two or three cameras and eight to ten lenses (including ultra wides and telephotos). Patented insert design is padded with high density foam to stay open. Each compartment is sewn shut at the bottom to prevent small items from sliding from one compartment to another. Exterior dimensions 7" x 15" x 9". Weight 2 lbs. 9½ oz. Main interior compartment 6½" x 12" x 9". Brown.
DK1000..... **$74.95**

Domke Accessories for F-2

Backpack strap. (f-10) **DK1012** .. **$14.95**
Handle strap (f-11) **DK1014** **$2.75**
Waist strap (f-12) **DK1016** **$5.50**
Post Office shoulder pad.** (f31)
DK1100..... **$7.95**

**can be used on all Domke bags.

Prices and specifications subject to change without notice.

F-1 Domke Bag

Constructed just like the original Domke bag but with enough space for two of the patented four compartment inserts. The bag comes with one four compartment insert, but you can add optional two, three or four compartment inserts. Handle loops entirely around the bag, removable shoulder strap and extra stiff bottom. Optional slide on pouches available. Exterior dimensions 7" x 16" x 9"; inside dimensions 6½" x 16" x 9". Weight 3 lbs. 3½ oz. Brown.
DK2000..... **$99.95**

Accessories for Domke Bags

Domke Slide on pouch for F-1.
DK2004..... **$12.95**
One compartment insert (f-21)*
DK2005..... **$14.95**
Two compartment insert (f-22)*
DK2010..... **$14.95**
Three compartment insert (f-23)*
DK2015..... **$19.95**
Four compartment insert (f-24)*
DK2020..... **$19.95**

*inserts are interchangeable and can be arranged to individual needs in both F-1 and F-2.

Domke Filter File

A slim, compact way to organize all your gels, large filters and plastic special effect filters. Accommodates all sizes including 72mm glass filters and 3" gels. Features 13 pockets and slots plus a special compartment for flash filters and lens cleaning tissue. Dimensions 5" x 12" folded, 15" x 12" open. **DK4000**..... **$16.95**

The Domke Sling Bag

The ideal size for a tripod, light stands or umbrellas. Inside are two compartments for dividing umbrellas from stands. Outside straps go all the way around the bag to support the load. Dimensions 42" x 4" x 8". Weight 1 lb. 14 oz. Brown.
DK3000..... **$44.95**
Domke 25" tripod bag with strap.
DK3010..... **$29.95**
Domke 32" tripod bag with strap.
DK3020..... **$31.95**

Billingham Safari Bags

Billingham Safari Bags

These distinctive, British-made camera bags are designed for rapid access to cameras and accessories; keeping equipment at your fingertips at all times. Excellent, hand-made craftsmanship and time-tested materials will make the Safari Bags a pleasure to use for years of reliable service. The Billingham System represents a truly different approach to camera bags – pure cotton duck canvas, unsplit leather straps and reinforcements, and solid brass buckles and feet. Canvas is dyed color fast and proofed for stiffness. Through the process of vulcanization, the face and liner are bonded to an inner layer of resilient latex, making the fabric fully waterproof for extra equipment protection. All sling material is shock tested and zippers are non-scratching, continuous chain-type polyester, sewn into a waterproof tape. Even if one of the teeth is damaged or pulled out, the zipper continues to work. Every Safari Bag is individually inspected, numbered and guaranteed.

Billingham's SYSTEMflex allows for infinitely variable sectioning of the main compartment and maximum protection of your equipment.

Billingham Canvas Safari Bags

(All dimensions are for main carrying compartments)

S110 Mini Size Safari Bag—Built-in dividers in main compartment and 3 pockets. 9"(L) x 4"(W) x 6"(H)
BI1110 ..... **$49.95**

S250 Compact Safari Bag—Large main compartment w/SYSTEMflex and 6 pockets-Shoulder sling and pen pockets. 12½"(L) x 5½"(W) x 8½"(H)
BI1250 ..... **$69.95**

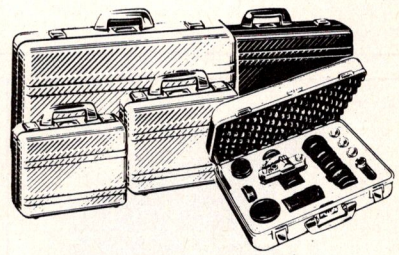
S330 Medium Safari Bag—Main compartment w/SYSTEMflex and 6 pockets. Shoulder sling carrying handles and pen pockets. 14½"(L) x 6½"(W) x 10¼"(H).
BI1330 ..... **$89.95**

S440 Big Safari Bag—Wide access main compartment w/SYSTEMflex and 6 pockets. Shoulder sling, carrying handles and pen pockets. 17"(L) x 6½"(W) x 10¼"(H).
BI1440 ..... **$99.95**

S550 Extra Large Safari Bag—Large main compartment w/SYSTEMflex and 11 pockets (2 detachable) Shoulder sling and carrying handles. 18½"(L) x 6½"(W) x 11¾"(H)
BI1550 ..... **$127.95**

Zero Halliburton Carrying Cases

Model	Finish	Dimensions	Cat. No.	Price
103	Silver	18x13x6	ZH2220	$124.95
203	Black	18x13x6	ZH2221	$124.95
105	Silver	21x13x6½	ZH2225	$144.95
205	Black	21x13x6½	ZH2226	$144.95
106	Silver	21x17x7½	ZH2230	$167.95
206	Black	21x17x7½	ZH2231	$167.95
110	Silver	26x18x9	ZH2236	$204.95
210	Black	26x18x9	ZH2236	$204.95
111	Silver	24x18x7	ZH2240	$185.95



Protect your valuable camera equipment in lightweight, tough Zero Halliburton Carrying Cases. Prestressed aluminum shell with interlocking tongue and groove closure resists moisture and dust. Special replaceable deep foam inserts let you customize the interior to match equipment and safeguard it against damaging shocks. Cases also feature a tumbler-type, 3-digit combination lock that you set yourself and a spring-loaded, snap latch that keeps the case closed.

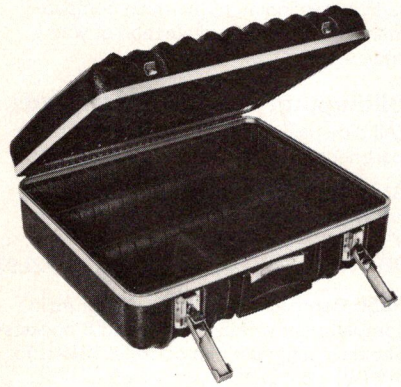
U.S.A.

★Official U.S.A. Distributor Warranty.
★Complete Factory Packaging.

Prices and specifications subject to change without notice.

Equipment Cases

FIBERBILT ADAPT-A-CASES (with the Exclusive Padded Partition System)



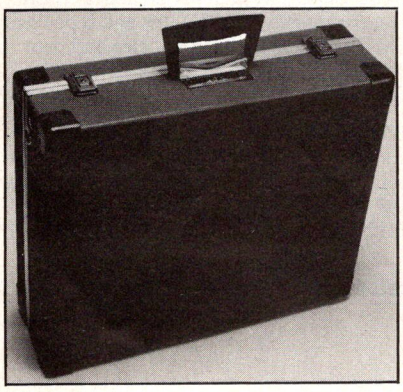
Lightweight and Rugged

P-70 Fiberglass Adapt-A-Case

Girder-rib engineering makes these cases both rugged and lightweight. Delicate and expensive equipment is further protected within the case by a complete lining of extra thick, super-cushioning foam. Rubber gasket in the aluminum tongue-and-groove closure provides maximum dust and moisture protection. Also features full-length, extra-wide, continuous cover hinge, maximum security drawlocks, and a comfortable yet rugged handle.

Exclusive padded partition system offers quick and easy "do-it-yourself" partitioning to fit your particular needs. This patented system of thickly padded interlocking partitions will give you tremendous flexibility with the Adapt-A-Case. Partitions interlock with each other and with the padded sidewalls of the case by means of the tongue-and-groove principle. Slots spaced 1" apart in the padding of the sidewalls and the partitions provide for any compartment arrangement to cushion your equipment perfectly with shock absorbing foam padding. The partitions can be rearranged or added to at any time and the case is fully insulated against heat, cold and dust. Extra partitions are available in 3", 6" and 8" heights from 2" to 22" long and in the 10" height from 2" to 20" long. Call Calumet for individual prices of these extra partitions.

Size-Inches	Model	Partitions Included (Inches)	Cat. No.	Price
18 x 14 x 6	P-70M	3 x 18, 3 x 14, 3 x 9, 2-3 x 5	FB2210	**$126.95**
22 x 16 x 6	P-70R	3 x 22, 3 x 16, 3 x 11, 3 x 6, 3-3 x 5	FB2218	**$147.95**

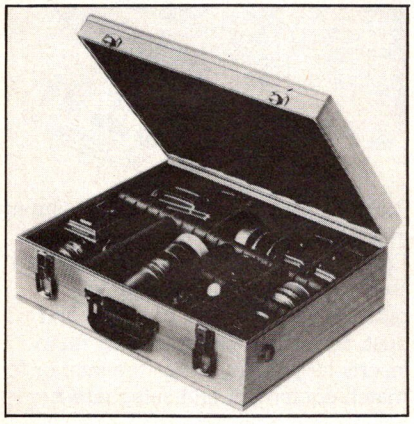


Economical Durability

P-30 Fiber Adapt-A-Case

The P-30 is extremely lightweight and rugged; constructed of tough, wear-resistant charcoal grey textured fiber. Features three rugged stay hinges, secure snap-locks, aluminum tongue-and-groove closure, and steel reinforcing corners. Also features the patented system of moveable, interlocking partitions and fully padded interior.

Size-Inches	Model	Partitions Included (Inches)	Cat. No.	Price
18 x 14 x 5	P-30E	3 x 18, 3 x 14, 3 x 9, 2-3 x 5	FB2150	**$ 86.95**
22 x 16 x 5	P-30B	3 x 22, 3 x 16, 3 x 11, 3 x 6, 3-3 x 5	FB2147	**$103.95**
16 x 10 x 10	P-30G	2-8 x 10	FB2152	**$ 83.95**
10 x 20 x 13	P-30C	2-10 x 10	FB2148	**$106.95**
18 x 14 x 8	P-30D	6 x 18, 6 x 14, 6 x 9	FB2149	**$ 93.95**
22 x 16 x 8	P-30J	6 x 10, 6 x 7, 6 x 5, 2-6 x 16	FB2155	**$110.95**
22 x 16 x 10	P-30A	8 x 22, 8 x 16, 8 x 11	FB2146	**$112.95**



Deluxe Aluminum

P-20 Aluminum Adapt-A-Case

This deluxe case is for those who want a more rigid, rugged case. The P-20 series cases are suitable for both carrying and shipping. Features sleek rivetless construction, rubber gasket tongue-and-groove closure for maximum dust and moisture protection, one piece continuous hinge, maximum security draw-locks, and fully padded interior.

Size-Inches	Model	Partitions Included (Inches)	Cat. No.	Price
18 x 14 x 5	P-20E	3 x 18, 3 x 14, 3 x 9, 2-3 x 5	FB2010	**$131.95**
22 x 16 x 5	P-20B	3 x 22, 3 x 16, 3 x 11, 3 x 6, 3-3 x 5	FB2107	**$152.95**
16 x 10 x 10	P-20G	2-8 x 10	FB2112	**$136.95**
20 x 10 x 13	P-20C	2-10 x 10	FB2108	**$161.95**
18 x 14 x 8	P-20D	6 x 18, 6 x 14, 6 x 9	FB2109	**$151.95**
22 x 16 x 8	P-20J	6 x 10, 6 x 7, 6 x 5, 2-6 x 16	FB2015	**$175.95**
22 x 16 x 10	P-20A	8 x 22, 8 x 16, 8 x 11	FB2106	**$186.95**
22 x 16 x 18	P-20K	None Included	FB2116	**$227.95**

Fiberbilt Diced Foam Sheets

22" x 16" x 7/8" sheets you can cut to fit your own case. **FB2910** **$5.95**

B + W Filters—Buy 3 Save 20%

Filters Worthy of the Finest Lenses

Calumet offers the world renowned B + W filter line. These filters are absolutely the finest available. B + W filters are manufactured in the style of the best optical lenses. Each filter is cut from raw cylinders of pure Schott/ Mainz optical glass, the same glass used by the world's top lens manufacturers. The filter mounts are made of black anodized, solid brass. These high quality components combined with B + W's modern production technology and rigorous quality control, produce the flattest possible filters. This precision flatness (plano-parallelism) and B + W's high quality anti-reflection coating, which is applied to both sides of the filter, minimizes the possibility of image deterioration due to flare.

B + W Filters are not inexpensive, but neither were your lenses. If you want the best possible results from your investment in lenses, consider the B + W difference.

For a full color brochure on the B + W Filter line, please call or write.

	39mm	49mm	52mm	55mm	58mm	67mm	77mm
	$19.95	**$15.95**	**$15.95**	**$19.95**	**$19.95**	**$29.95**	**$47.95**
UV 010	BX39005	BX49005	BX52005	BX55005	BX58005	BX67005	BX77005
Sky KR1.5	BX39015	BX49015	BX52015	BX55015	BX58015	BX67015	BX77015
81C KR3	BX39110	BX49110	BX52110	BX55110	BX58110	BX67110	BX77110
81EF KR6	BX39113	BX49113	BX52113	BX55113	BX58113	BX67113	BX77113
85 KR12	BX39116	BX49116	BX52116	BX55116	BX58116	BX67116	BX77116
85B KR15	BX39120	BX49120	BX52120	BX55120	BX58120	BX67120	BX77120
82A KB1.5	BX39124	BX49124	BX52124	BX55124	BX58124	BX67124	BX77124
82C KB3	BX39128	BX49128	BX52128	BX55128	BX58128	BX67128	BX77128
80A KB6	BX39132	BX49132	BX52132	BX55132	BX58132	BX67132	BX77132
80B KB12	BX39136	BX49136	BX52136	BX55136	BX58136	BX67136	BX77136
80CD KB20	BX39140	BX49140	BX52140	BX55140	BX58140	BX67140	BX77140
Lt. Yellow 3-201	BX39210	BX49210	BX52210	BX55210	BX58210	BX67210	BX77210
Med. Yellow 8-022	BX39215	BX49215	BX52215	BX55215	BX58215	BX67215	BX77215
Drk. Yellow 9-023	BX39220	BX49220	BX52220	BX55220	BX58220	BX67220	BX77220
Yell.Orng. 16-040	BX39230	BX49230	BX52230	BX55230	BX58230	BX67230	BX77230
Red/Orng. 22-041	BX39240	BX49240	BX52240	BX55240	BX58240	BX67240	BX77240
Yell./Grn. 11-060	BX39250	BX49250	BX52250	BX55250	BX58250	BX67250	BX77250
Lt. Red 23A/090	BX39260	BX49260	BX52260	BX55260	BX58260	BX67260	BX77260
N.D. 2X-101	BX39320	BX49320	BX52320	BX55320	BX58320	BX67320	BX77320
N.D. 4X-102	BX39323	BX49323	BX52323	BX55323	BX58323	BX67323	BX77323
N.D. 8X-103	BX39326	BX49326	BX52326	BX55326	BX58326	BX67326	BX77326
		$39.95	**$39.95**	**$47.95**	**$49.95**	**$63.95**	**$87.95**
Linear Polarizer		BX49053	BX52053	BX55053	BX58053	BX67053	BX77053
		$79.95	**$87.95**	**$94.95**	**$99.95**	**$129.95**	**$159.95**
Cir. Polarizer	BX39055	BX49055	BX52055	BX55055	BX58055	BX67055	BX77055
		$32.95	**$32.95**	**$39.95**	**$39.95**	**$43.95**	**$64.95**
Cross Scrn. 4		BX49380	BX52380	BX55380	BX58380	BX67380	BX77380
Cross Scrn. 6		BX49382	BX52382	BX55382	BX58382	BX67382	BX77382
Cross Scrn. 8		BX49384	BX52384	BX55384	BX58384	BX67384	BX77384
		$32.95	**$32.95**	**$34.95**	**$36.95**	**$44.95**	**$56.95**
Fog		BX49442	BX52442	BX55442	BX58442	BX67442	BX77442
		$19.95	**$19.95**	**$19.95**	**$23.95**	**$36.95**	**$56.95**
Soft Image		BX49460	BX52460	BX55460	BX58460	Bx67460	BX77460
		$32.95	**$32.95**	**$34.95**	**$36.95**	**$44.95**	**$56.95**
FLD/499		BX49510	BX52510	BX55510	BX58510	BX67510	BX77510
		$34.95	**$34.95**	**$37.95**	**$44.95**	**$57.95**	**$74.95**
Double Sunny		BX49595	BX52595	BX55595	BX58595	BX67595	BX77595
	$26.95	$15.95	$15.95	$19.95	$19.95	$29.95	$47.95
Soft Focus 1-WZ1	BX39450	BX49450	BX52450	BX55450	BX58450	BX67450	BX77450
Soft Focus 2-WZ2	BX39454	BX49454	BX52454	BX55454	BX58454	BX67454	BX77454

B + W Filters for Color Film

In order to better determine the proper filter required for slight color corrections with color film, please refer to the following descriptions.

UV 010—For general purpose use. Also improves color rendition and eliminates unsharpness caused by ultraviolet radiation.

KR1.5 Skylight (1A)—Reduces bluish casts due to high color temperature. Causes a slight increase in contrast.

KR3 (81C)—Slightly stronger skylight filter especially recommended under cloudless, deep blue skies.

KR6 (81EF)—Neutralizes excessive blue in extreme conditions, such as in the mountains.

KR12 (85)—Allows the use of tungsten balanced film in daylight or electronic flash.

KR15 (85B)—Slightly stronger than KR12 to allow the use of tungsten film in conditions such as mountains, where even daylight film would require a KR3 or 6.

KB1.5 (82A)—Reduces red casts which can occur when the sun stands close to the horizon. Also useful should you find the color rendition of a particular slide film too "warm."

KB3 (82C)—Medium correction filter against excessive red tones. Can be used with tungsten films under incandescent lamps such as 500 W flood lamps.

KB6 (80A)—Stronger correction against excessive red tones, such as neutralizing a sunrise or sunset.

KB12 (80B)—Allows the use of daylight film under artificial photo-flood lighting (3400°).

KB20 (80CD)—Eliminates the orange color cast of incandescent lights.

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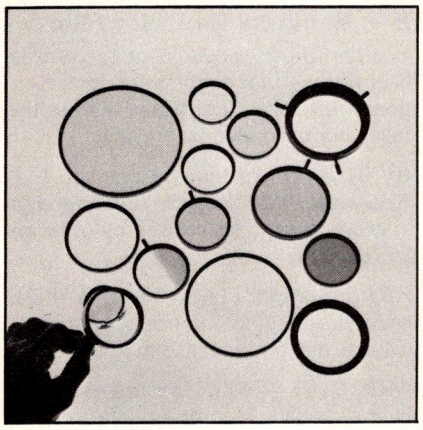
Tiffen Filters



Tiffen Special Purpose Filters

Tiffen manufactures over 2,000 different types of filters and continues to lead the industry in the research and development of new products to meet the ever-changing needs of professional photographers, motion picture studios and television industries around the world. Knowing how these filters are made and the results these filters are capable of producing is an important step towards understanding the vast possibilities open to the image-making process.

How Tiffen Filters Are Made

Knowing how a filter is constructed will tell you a lot about the kind of job it will do for you. Most filters are produced as either solid glass or by the laminate method.

Solid filter glass is made by adding the color to the glass in its raw molten state. Done in large batches it is difficult to control the color precisely. Since the color is dispersed throughout the glass, its accuracy is dependent on finished thickness which often results with a heavy filter. This adds to the difficulty of producing reliable color using this method.

Tiffen Filters consist of two sheets of optical clear glass using Tiffen's own patented laminate process. The color is an integral part of the thermal bonding material, and can be applied with extreme control of color, transmission, and density. The bonding material has the same refraction index as glass, and the resulting product is far superior than that of solid glass, with the advantage of better quality control. Tiffen filters are not affected by heat, cold, or humidity to the extent that they surpass U.S. Military filter specifications.

Glossary of Special Effect Filters

Center Spot Filter—Variation on the diffusion filter with an optically clear center area to keep the main subject in sharp focus. Ideal for portraits or other situations where a clear central subject with a diffused, less distracting background is desired.

Color Compensating Filters—Used to compensate for deficiencies in the color quality of light sources, deficiencies in film, reciprocity failure, etc. Available in primary colors—red, blue, green and in secondary colors—cyan, yellow, magenta. Tiffen Color Compensating Filters are available in different strengths and may be combined to achieve precise color rendition.

Diffusion Effect Filter—Consists of polished glass with one side smooth and the other slightly rippled. This causes light passing through it to be deflected slightly to decrease image sharpness. Features no reduction in contrast. Available in several densities from slight softening of the overall image (#1) to a complete diffusion with flaring highlights, an overall misty appearance, and a soft blending of colors (#5). Often used in portraiture to minimize wrinkles or blemishes and for dreamlike effects.

Fluorescent Light Filters—Color correction filters which give natural color renditions, eliminating the deep blue-green cast ordinarily resultant from shooting color films under average fluorescent lighting.
FL-B Filter: for use with indoor type B film.
FL-D Filter: for use with daylight film.

Fog Effect Filters—Create a misty atmospheric haze effect resembling fog. Supplied in five densities (#1-lowest, #5-highest) which can be used in combination to create an endless range of fog effects.

Low Contrast Filters—Designed to effectively desaturate and mute colors in pre-selected steps. Ideal for blending make-up, smoothing skin tones and enhancing outdoor scenes. Effectiveness does not change with speed or lens opening. May be used individually or in combinaiton with other color filters to create mood effects. Allows more detail in dense shadow areas. Ideal for slide duplication work.

Neutral Density Filters—Used to reduce the amount of light reaching the film with no selective absorption effects on colors. Utilized in bright light situations. Available in several densities.

Polarizing Filters—Adjustable rotating filter which eliminates surface reflections, unwanted glare or hot spots from any light source; penetrates haze and will darken a blue sky and increase color saturation. Can be used with all types of color or black and white film. Rotating mounts allow you to achieve various degrees of polarization.

Circular Polarizer—Especially designed to prevent potential errors with internal metering systems which cause their own internal polarization effects.

Thin Polarizer—Designed to eliminate vignetting when used with wide angle lenses by utilizing a thinner filter ring.

Sepia Filters—Produces a warm brown color that may be used to add a "turn of the century" atmosphere to color pictures. Available in different densities for various degrees of warmth. Sepia III also lowers contrast for greater picture enhancement.

Sofnet Black Filter—Net material laminated between optical clear glass. Creates a soft diffusion effect while causing no halation from highlights. Dark areas remain dark. Available in several densities.

Sofnet White Filter—Net material laminated between optical clear glass. Creates a soft diffusion effect while adding a misty look. Produces halation from highlights; dark areas appear less dense. Available in several densities.

Softnet Skintone—Creates a softness effect which enhancing skin tones and adds a warming quality. Available in several densities.

Split Field—Essentially a close-up lens cut in half. This allows close-up focusing on one portion of the scene while retaining sharp focus on a more distant background. The ultimate depth-of-field extension lens. To use, focus on the background, and then move in or out the slight distance required to focus on the foreground. With the proper choice of lens focal length and diopter strength, Split-Field lenses can produce a variety of fascinating scenes. Available in several diopter strengths.

Star-Effect Filter—Grid patterns etched onto optically clear glass yield long rays from small, intense light sources, producing a star effect. Spacing of the lines (1mm, 2mm, 3mm) influences brightness of the rays. The closer the lines (1mm), the brighter the star produced. The further apart the lines (3mm), the finer the lines of the star. Variations are also available in the number of points the stars contain (4 pt., 6 pt., 8 pt.).

Tiffen 812 Filter (⅓ stop)*

Corrects for the blue cast in your electronic flash pictures. A warm tone filter ideal for enhancing color in all ordinarily cool lighting situations. Ideal for outdoor shade and electronic flash and as an all around filter. Skin tones are pink-cheeked, fresh and lifelike; scenery comes alive with brilliant color and a golden radiance. 812 filter is available in all popular threaded filter sizes and in Series 9.

Tiffen Enhancing Filter #1 Didymium— (2 stops)*

The Enhancing Filter #1 saturates reds, oranges, and yellows, with very little affect on whites, blues, and greens. May be used in conjunction with a polarizing filter for an even greater affect. Available in all popular threaded filter sizes and in Series 9.

*Approximate F stop increase for daylight panchomatic film.

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Tiffen Adapter Rings and Accessories

Did You Know?

Step Up and Step Down Rings can save you money on filters. These rings may allow you to buy one size filter for two different size lenses. The only problem is how do you get the right adapter ring and is it a step up or step down? Step up rings are most often used because a larger than specified filter is used so as not to vignette. A simple rule is: lens size first, filter size second. Example: You have a 150mm Caltar II lens which takes 58mm filters and a 90mm Caltar II which takes 67mm filters. You want to buy one polarizer for both lenses. You buy the larger size polarizer and also a 58 to 67mm step up ring. (58 is the lens, 67 is the filter). Beware when purchasing step down rings because the filter is smaller than the lens and may vignette.

Tiffen Series 7 Adapters With Retaining Ring

40.5F7	TF04097	$ 7.95
49M7	TF04977	$ 7.95
52M7	TF05277	$ 7.95
58M7	TF05887	$ 7.95

Tiffen Series 8 Adapters With Retaining Ring

40.5 F8	TF04098	$ 8.95
49M8	TF04978	$ 8.95
52M8	TF05278	$ 8.95
58M8	TF05888	$ 8.95
62M8	TF06288	$ 8.95
67M8	TF06778	$ 8.95

Tiffen Series 9 Adapters With Retaining Ring

62mm 9	TF06289	$23.95
67mm 9	TF06779	$23.95
72mm 9	TF07289	$23.95
86C 9	TF08689	$23.95

New Tiffen "Series 60" Adapter Rings for Hasselblad CF Lenses

Hasselblad's new CF Lenses require a new 'Series 60' filter size and offer a limited selection of filters for this series. By using the new Tiffen 'Series 60' adapter ring, Tiffen's complete line of series 8 and 67mm filters can be used on these new lenses.

60 Bay-Series 8 **TF06088**..... **$25.95**
60 Bay-67mm **TF16067**..... **$25.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Tiffen Step-Up Rings

49 to 52	TF14952	$ 4.95
49 to 55	TF14955	$ 4.95
49 to 58	TF14958	$ 4.95
49 to 62	TF14962	$ 4.95
49 to 67	TF14967	$13.95
49 to 72	TF14972	$13.95
49 to 77	TF14977	$13.95
52 to 55	TF15255	$ 4.95
52 to 57 Bay	TF15257	$10.95
52 to 58	TF15258	$ 4.95
52 to 62	TF15262	$ 5.95
52 to 67	TF15267	$13.95
52 to 72	TF15272	$13.95
52 to 77	TF15277	$13.95
55 to 57 Bay	TF15557	$10.95
55 to 58	TF15558	$ 4.95
55 to 62	TF15562	$ 5.95
55 to 67	TF15567	$13.95
55 to 72	TF15572	$13.95
55 to 77	TF15577	$13.95
58 to 62	TF15862	$ 5.95
58 to 67	TF15867	$13.95
58 to 72	TF15872	$13.95
58 to 77	TF15877	$13.95
62 to 67	TF16267	$13.95
62 to 72	TF16272	$13.95
62 to 77	TF16277	$13.95
67 to 72	TF16772	$13.95
67 to 77	TF16777	$13.95
72 to 77	TF17277	$13.95
Series 5 to 6	TF19596	$ 4.95
Series 6 to 7	TF19697	$ 4.95
Series 7 to 8	TF19798	$ 5.95
Series 8 to 9	TF19899	$11.95

Tiffen Step Down Rings

52 to 49	TF25249	$ 4.95
57 Bay* to 55	TF25755	$10.95
58 to 55	TF25855	$ 4.95
57 Bay* to 52	TF25752	$10.95
58 to 52	TF25857	$ 4.95

*For Series 50 Lenses.

Other sized step-up and step-down rings are available through Calumet. For more specific information or help in finding the proper adapter ring, call or write our Technical Sales Department for assistance.

Please send self-addressed stamped envelope for Tiffen Professional Filter Brochure.

Tiffen Standard Rubber Shade

49mm	TF00049	$ 4.95
52mm	TF00052	$ 4.95
55mm	TF00055	$ 4.95
58mm	TF00058	$ 6.95
62mm	TF00062	$ 6.95
67mm	TF00067	$ 6.95
72mm	TF00072	$ 7.95
77mm	TF00077	$ 9.95
Series 7	TF00097	$ 6.95
Series 8	TF00098	$ 7.95
Series 9	TF00099	$21.75

Tiffen Wide Angle Rubber Shade

49mm	TF00149	$ 7.95
52mm	TF00152	$ 7.95
55mm	TF00155	$ 7.95
58mm	TF00158	$ 9.95
62mm	TF00162	$ 9.95
67mm	TF00167	$10.95
72mm	TF00172	$11.95
77mm	TF00177	$12.95
Series 7	TF00197	$ 9.95
Series 8	TF00198	$10.95

Tiffen Metal Lens Shades

49mm	TF00249	$ 4.95
52mm	TF00252	$ 5.95
55mm	TF00255	$ 5.95
58mm	TF00258	$ 5.95
62mm	TF00262	$ 6.95
67mm	TF00267	$ 7.95
72mm	TF00272	$ 8.95
77mm	TF00277	$11.95
Series 7	TF00297	$11.95
Series 8	TF00298	$17.95
Series 9	TF00299	$24.95
Series 9 W.A.	TF00399	$24.95

Filters for Larger Than Series 9

Many filters for large format lenses and other format lenses are oversized and larger than Series 9. Tiffen makes a tremendous number of filters in Series 4½", 138mm, 3" x 3", and 4" x 4" sizes. Filter selection ranges from all standard black and white film filters to a full assortment of warming and cooling filters for color films and includes a complete range of special effect filters such as split-field, diffusion, fog effect, vari-color, multi-image, softnet diffusion, and star filters. These filters require adapter rings, which are available in a wide variety of sizes, from 86mm to 122mm. Most of these "oversized" filters are available through Calumet. Please call or write for more information.

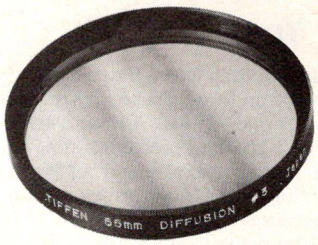
Tiffen Filters—Buy 3 Save 10%, Buy 6 Save 20%

Calumet sells Tiffen filters because Tiffen offers the widest selection of over 2000 professional grade filters available. Meticulous craftmanship, constant inspection and highest quality materials combine to make Tiffen durable and dependable filters. Tiffen filters are used by major motion picture studios and TV stations, and were even used by NASA for the lunar photographs.

Quantity Discount

Buy 3 Kodak or Tiffen Standard Filters and save 10%. Buy 6 Kodak or Tiffen Filters and save 20%. Filters may be assorted.

Note: Quantity discount does not apply to Tiffen Professional (TP) Filters, Lenshades, Filter Holders, Adapter Rings, Filter Accessories or special order filters.



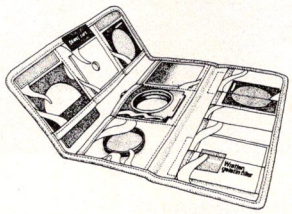
	49mm	52mm	55mm	58mm	62mm	67mm	72mm	77mm	Bay 60	Series 7	Series 8	Series 9
	$8.95	$8.95	$8.95	$9.95	$13.95	$16.95	$19.95	$26.95	$31.95	$10.95	$13.95	$23.95
Clear	TF49000	TF52000	TF55000	TF58000	TF62000	TF67000	TF72000	TF77000	TF60015	TF97000	TF98000	TF99000
1A Sky	TF49015	TF52015	TF55015	TF58015	TF62015	TF67015	TF72015	TF77015	TF60015	TF97015	TF98015	TF99015
UV 15	—	—	—	—	—	—	—	—	—	TF97005	TF98005	TF99005
UV 16	TF49006	TF52006	TF55006	TF58006	TF62006	TF67006	TF72006	TF77006	TF60006	TF97006	TF98006	TF99006
UV 17	TF49007	TF52007	TF55007	TF58007	TF62007	TF67007	TF72007	TF77007	TF60007	TF97007	TF98007	TF99007
UV Haze 1	TF49010	TF52010	TF55010	TF58010	TF62010	TF67010	TF72010	TF77010	TF60010	TF97010	TF98010	TF99010
UV Haze 2A	TF49011	TF52011	TF55011	TF58011	TF62011	TF67011	TF72011	TF77011	TF60011	TF97011	TF98011	TF99011
6 Lt. Yellow	TF49206	TF52206	TF55206	TF58206	TF62206	TF67206	TF72206	TF77206	TF60206	TF97206	TF98206	TF99206
8 Yellow	TF49215	TF52215	TF55215	TF58215	TF62215	TF67215	TF72215	TF77215	TF60215	TF97215	TF98215	TF99215
9 Deep Yellow	TF49220	TF52220	TF55220	TF58220	TF62220	TF67220	TF72220	TF77220	TF60220	TF97220	TF98220	TF99220
11 Lt. Green	TF49222	TF52222	TF55222	TF58222	TF62222	TF67222	TF72222	TF77222	TF60222	TF97222	TF98222	TF99222
12 Yellow	TF49224	TF52224	TF55224	TF58224	TF62224	TF67224	TF72224	TF77224	TF60224	TF97224	TF98224	TF99224
13 Deep Green	TF49225	TF52225	TF55225	TF58225	TF62225	TF67225	TF72225	TF77225	TF60225	TF97225	TF98225	TF99225
15 Yellow-Orange	TF49227	TF52227	TF55227	TF58227	TF62227	TF67227	TF72227	TF77227	TF60227	TF97227	TF98227	TF99227
16 Lt. Orange	TF49230	TF52230	TF55230	TF58230	TF62230	TF67230	TF72230	TF77230	TF60230	TF97230	TF98230	TF99230
21 Orange	TF49236	TF52236	TF55236	TF58236	TF62236	TF67236	TF72236	TF77236	TF60236	TF97236	TF98236	TF99236
23A Lt. Red	TF49260	TF52260	TF55260	TF58260	TF62260	TF67260	TF72260	TF77260	TF60260	TF97260	TF98260	TF99260
25 Red	TF49266	TF52266	TF55266	TF58266	TF62266	TF67266	TF72266	TF77266	TF60266	TF97266	TF98266	TF99266
29 Deep Red	TF49270	TF52270	TF55270	TF58270	TF62270	TF67270	TF72270	TF77270	TF60270	TF97270	TF98270	TF99270
47 Blue	TF49520	TF52520	TF55520	TF58520	TF62520	TF67520	TF72520	TF77520	TF60520	TF97520	TF98520	TF99520
47B Blue	TF49525	TF52525	TF55525	TF58525	TF62525	TF67525	TF72525	TF77525	TF60525	TF97525	TF98525	TF99525
56 Lt. Green	TF49536	TF52536	TF55536	TF58536	TF62536	TF67536	TF72536	TF77536	TF60536	TF97536	TF98536	TF99536
58 Green	TF49540	TF52540	TF55540	TF58540	TF62540	TF67540	TF72540	TF77540	TF60540	TF97540	TF98540	TF99540
61 Deep Green	TF49545	TF52545	TF55545	TF58545	TF62545	TF67545	TF72545	TF77545	TF60545	TF97545	TF98545	TF99545
80A 3200 to 5500°K	TF49132	TF52132	TF55132	TF58132	TF62132	TF67132	TF72132	TF77132	TF60132	TF97132	TF98132	TF99132
80B 3400 to 5500°K	TF49136	TF52136	TF55136	TF58136	TF62136	TF67136	TF72136	TF77136	TF60136	TF97136	TF98136	TF99136
80C 4200 to 5500°K	TF49139	TF52139	TF55139	TF58139	TF62139	TF67139	TF72139	TF77139	TF60139	TF97139	TF98139	TF99139
81 Warming −100°K	TF49103	TF52103	TF55103	TF58103	TF62103	TF67103	TF72103	TF77103	TF60103	TF97103	TF98103	TF99103
81A Warming −200°K	TF49106	TF52106	TF55106	TF58106	TF62106	TF67106	TF72106	TF77106	TF60106	TF97106	TF98106	TF99106
81B Warming −300°K	TF49108	TF52108	TF55108	TF58108	TF62108	TF67108	TF72108	TF77108	TF60108	TF97108	TF98108	TF99108
81C Warming −400°K	TF49111	TF52111	TF55111	TF58111	TF62111	TF67111	TF72111	TF77111	TF60111	TF97111	TF98111	TF99111
81D Warming −500°K	TF49112	TF52112	TF55112	TF58112	TF62112	TF67112	TF72112	TF77112	TF60112	TF97112	TF98112	TF99112
82 Cooler +100°K	TF49122	TF52122	TF55122	TF58122	TF62122	TF67122	TF72122	TF77122	TF60122	TF97122	TF98122	TF99122
82A Cooler +200°K	TF49124	TF52124	TF55124	TF58124	TF62124	TF67124	TF72124	TF77124	TF60124	TF97124	TF98124	TF99124
82B Cooler +300°K	TF49126	TF52126	TF55126	TF58126	TF62126	TF67126	TF72126	TF77126	TF60126	TF97126	TF98126	TF99126
82C Cooler +400°K	TF49128	TF52128	TF55128	TF58128	TF62128	TF67128	TF72128	TF77128	TF60128	TF97128	TF98128	TF99128
85 5500 to 3400°K	TF49150	TF52150	TF55150	TF58150	TF62150	TF67150	TF72150	TF77150	TF60150	TF97150	TF98150	TF99150
85B 5500 to 3200°K	TF49153	TF52153	TF55153	TF58153	TF62153	TF67153	TF72153	TF77153	TF60153	TF97153	TF98153	TF99153
85C 5500 to 3800°K	TF49156	TF52156	TF55156	TF58156	TF62156	TF67156	TF72156	TF77156	TF60156	TF97156	TF98156	TF99156
ND 0.3 1 Stop	TF49320	TF52320	TF55320	TF58320	TF62320	TF67320	TF72320	TF77320	TF60320	TF97320	TF98320	TF99320
ND 0.6 2 Stops	TF49323	TF52323	TF55323	TF58323	TF62323	TF67323	TF72323	TF77323	TF60323	TF97323	TF98323	TF99323
ND 0.9 3 stops	TF49326	TF52326	TF55326	TF58326	TF62326	TF67326	TF72326	TF77326	TF60326	TF97326	TF98326	TF99326
	$19.95	$21.95	$26.95	$31.95	—	—	—	—	—	$27.95	$38.95	—
87 Infrared	TF49549	TF52549	TF55549	TF58549	—	—	—	—	—	TF97549	TF98549	—
	$19.95	$21.95	$21.95	$28.95	$33.95	$42.95	$49.95	$59.95	—	$19.95	$35.95	$38.95
FL-B	TF49505	TF52505	TF55505	TF58505	TF62505	TF67505	TF72505	TF77505	—	TF97505	TF98505	TF99505
FL-D	TF49510	TF52510	TF55510	TF58510	TF62510	TF67510	TF72510	TF77510	—	TF97510	TF98510	TF99510

Tiffen Filters—Buy 3 Save 10%, Buy 6 Save 20%

	49mm	52mm	55mm	58mm	62mm	67mm	72mm	77mm	Bay 60	Series 7	Series 8	Series 9
	$13.95	**$13.95**	**$14.95**	**$15.95**	**$19.95**	**$25.95**	**$27.95**	**$31.95**	**$49.95**	**$13.95**	**$19.95**	**$38.95**
Linear Polarizer	TF49053	TF52053	TF55053	TF58053	TF62053	TF67053	TF72053	TF77053	TF60053	TF97053	TF98053	TF99053
	—	**$33.95**	**$38.95**	**$41.95**	**$55.95**	**$60.95**	**$70.95**	—	—	—	—	—
Circular Polarizer	—	TF52055	TF55055	TF58055	TF62055	TF67055	TF72055	—	—	—	—	—
	$15.95	**$16.95**	**$16.95**	**$19.95**	**$22.95**	**$28.95**	**$34.95**	—	—	—	—	—
Thin Mount Polarizer	TF49050	TF52050	TF55050	TF58050	TF62050	TF67050	TF72050	—	—	—	—	—
	$21.95	**$24.95**	**$29.95**	**$32.95**	**$44.95**	**$59.95**	**$62.95**	—	—	—	—	—
Close Up Lens Set (124)	TF49348	TF52348	TF55348	TF58348	TF62348	TF67348	TF72348	—	—	—	—	—
	$11.95	**$11.95**	**$12.95**	**$15.95**	**$17.95**	**$21.95**	**$26.95**	**$29.95**	—	**$13.95**	**$18.95**	**$38.95**
Fog Effect #1	TF49444	TF52444	TF55444	TF58444	TF62444	TF67444	TF72444	TF77444	—	TF97444	TF98444	TF99444
Fog Effect #2	TF49445	TF52445	TF55445	TF58445	TF62445	TF67445	TF72445	TF77445	—	TF97445	TF98445	TF99445
Fog Effect #3	TF49446	TF52446	TF55446	TF58446	TF62446	TF67446	TF72446	TF77446	—	TF97446	TF98446	TF99446
Diffusion #1	TF49430	TF52430	TF55430	TF58430	TF62430	TF67430	TF72430	TF77430	—	TF97430	TF98430	TF99430
Diffusion #2	TF49431	TF52431	TF55431	TF58431	TF62431	TF67431	TF72431	TF77431	—	TF97431	TF98431	TF99431
Diffusion #3	TF49432	TF52432	TF55432	TF58432	TF62432	TF67432	TF72432	TF77432	—	TF97432	TF98432	TF99432
	$10.95	**$11.95**	**$12.95**	**$13.95**	**$16.95**	**$18.95**	**$24.95**	**$33.95**	—	**$18.95**	**$22.95**	—
Center Spot	TF49300	TF52300	TF55300	TF58300	TF62300	TF67300	TF72300	TF77300	—	—	—	—
Split Field #1	TF49335	TF52335	TF55335	TF58335	—	—	—	—	—	TF97335	TF98335	—
Split Field #2	TF49336	TF52336	TF55336	TF58336	TF62336	TF67336	TF72336	TF77336	—	TF97336	TF98336	—
Split Field #3	TF49337	TF52337	TF55337	TF58337	—	—	—	—	—	TF97337	TF98337	—
	$13.95	**$15.95**	**$14.95**	**$16.95**	**$26.95**	**$30.95**	**$40.95**	**$52.95**	—	**$13.95**	**$19.95**	**$35.95**
4 Pt. Star 1mm	TF49390	TF52390	TF55390	TF58390	—	—	—	—	—	TF97390	TF98390	TF99390
4 Pt. Star 2mm	TF49391	TF52391	TF55391	TF58391	TF62391	TF67391	TF72391	TF77391	—	TF97391	TF98391	TF99391
Sepia 2	TF49492	TF52492	TF55492	TF58492	TF62492	TF67492	TF72492	TF77492	—	—	TF98492	—
Sepia 3 w/Lt. Fog	TF49493	TF52493	TF55493	TF58493	TF62493	TF67493	TF72493	TF77493	—	—	TF98493	—
Low Contrast 1	TF49495	TF52495	TF55495	TF58495	TF62495	TF67495	TF72495	TF77495	—	—	—	—
Low Contrast 2	TF49496	TF52496	TF55496	TF58496	TF62496	TF67496	TF72496	TF77496	—	—	—	—
Low Contrast 3	TF49497	TF52497	TF55497	TF58497	TF62497	TF67497	TF72497	TF77497	—	—	—	—
	$17.95	**$18.95**	**$19.95**	**$23.95**	**$28.95**	**$33.95**	**$43.95**	**$56.95**	—	—	—	—
6 Pt. Star 2mm	TF49395	TF52395	TF55395	TF58395	TF62395	TF67395	TF72395	TF77395	—	—	—	—
	$18.95	**$20.95**	**$21.95**	**$26.95**	**$31.95**	**$36.95**	**$47.95**	**$62.95**	—	—	—	—
8 Pt. Star 2mm	TF49397	TF52397	TF55397	TF58397	TF62397	TF67397	TF72397	TF77397	—	—	—	—
Softnet Diffusion	**$14.95**	**$17.95**	**$21.95**	**$24.95**	**$29.95**	**$32.95**	**$37.95**	**$45.95**	—	—	**$21.95**	**$38.95**
White #1 Density	TF49480	TF52480	TF55480	TF58480	TF62480	TF67480	TF72480	TF77480	—	—	—	—
White #2 Density	TF49481	TF52481	TF55481	TF58481	TF62481	TF67481	TF72481	TF77481	—	—	TF98481	TF99481
White #3 Density	TF49482	TF52482	TF55482	TF58482	TF62482	TF67482	TF72482	TF77482	—	—	TF98482	TF99482
Black #1 Density	TF49470	TF52470	TF55470	TF58470	TF62470	TF67470	TF72470	TF77470	—	—	—	—
Black #2 Density	TF49471	TF52471	TF55471	TF58471	TF62471	TF67471	TF72471	TF77471	—	—	TF98471	TF99471
Black #3 Density	TF49472	TF52472	TF55472	TF58472	TF62472	TF67472	TF72472	TF77472	—	—	TF98472	TF99472
Skin Tone #1 Density	TF49475	TF52475	TF55475	TF58475	TF62475	TF67475	TF72475	TF77475	—	—	—	—
Skin Tone #2 Density	TF49476	TF52476	TF55476	TF58476	TF62476	TF67476	TF72476	TF77476	—	—	TF98476	TF99476
Skin Tone #3 Density	TF49477	TF52477	TF55477	TF58477	TF62477	TF67477	TF72477	TF77477	—	—	TF98477	TF99477
	$10.95	**$11.95**	**$11.95**	**$13.95**	**$17.95**	**$23.95**	**$29.95**	**$34.95**	**$31.95**	**$9.95**	**$13.95**	**$21.95**
812	TF49310	TF52310	TF55310	TF58310	TF62310	TF67310	TF72310	TF77310	TF60310	TF97310	TF98310	TF99310
	$37.95	**$37.95**	**$59.95**	**$59.95**	**$59.95**	**$59.95**	**$75.95**	**$75.95**	—	—	—	**$89.95**
Enhancing #1	TF49305	TF52305	TF55305	TF58305	TF62305	TF67305	TF72305	TF77305	—	—	—	TF99305

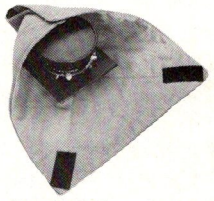
Quantity Discount
Buy 3 Kodak or Tiffen Standard Filters and save 10%. Buy 6 Kodak or Tiffen Filters and save 20%. Filters may be assorted.

Note: Quantity discount does not apply to Tiffen Professional (TP) Filters Lenshades, Filter Holders, Adapter Rings, Filter Accessories or special order filters.



Domke Filter File

A slim, compact way to organize all your gels, large filters and plastic special effect filters. Accommodates all sizes including 72mm glass filters and 3″ gels. Features 13 pockets and slots plus a special compartment for flash filters and lens cleaning tissue. Dimensions 5″ x 12″ folded, 15″ x 12″ open. **DK4000**. **$16.95**



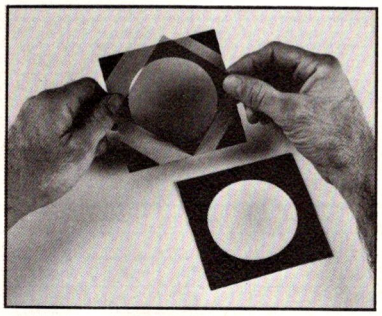
Calumet Lens Wrap—"Efficient Filter Protector"

The Calumet Lens Wrap offers storage and protection to your glass filters by simply screwing your same-size filters together and wrapping the Lens Wrap around them.

11″ x 11″ Lens Wrap
DK2030. . . . . **$12.95**

19″ x 19″ Lens Wrap
DK2035. . . . . **$16.95**

Filter Holders and Accessories



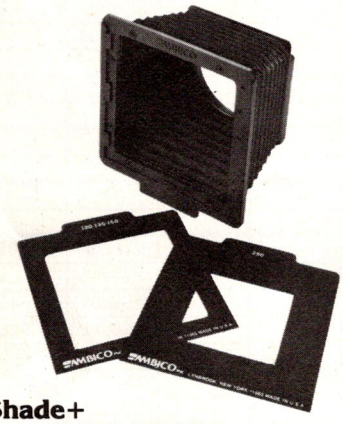
Calumet Filter Frames

The self-sealing cardboard filter frame is the ideal method of handling delicate gelatin filter. Space is provided for writing the filter type and factor.

Pack of 24—4″ x 4″ filter frames for 4″ x 4″ gel filters. **CC9035**..... **$15.95**

Pack of 24—4″ x 4″ filter frames for 3″ x 3″ gel filters. **CC9036**..... **$15.95**

Pack of 24—3″ x 3″ filter frames for 3″ x 3″ gel filters. **CC9037**..... **$15.95**



Shade+

A complete lens accessory system providing maximum freedom from glare and reflection plus complete image control for special effects. Accepts 3″ x 3″ gels. Order lens adapter separately.

Model I Shade for 35mm and 4.5 x 6cm cameras. **AM2510**..... **$29.95**

Model II Shade for 6 x 6 and 6 x 7 cameras excluding wide angle lenses.
AM2520..... **$39.95**

Adapters for Shade+

Sizes from 49mm thru 77mm plus series 8.
Specify size..... **$7.95**

Hasselblad adapter **AM2645**..... **$10.95**

Vignette Set Model I **AM2710**.... **$12.95**

Vignette Set Model II **AM2711**.... **$12.95**

Montage Set Model I **AM2750**.... **$12.95**

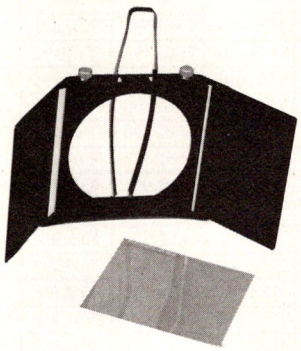
Montage Set Model II **AM2751**... **$12.95**

Belt Pouch **AM2850**..... **$15.95**

Kenko Technical Filter Holder

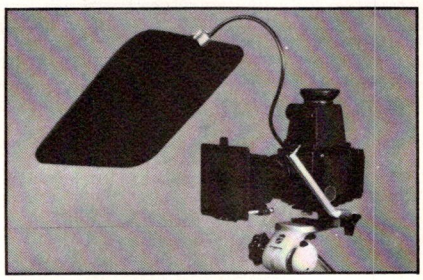
This is one of the finest gel filter holders we have seen. Holds filters flat. Sizes 49mm thru 58mm holds up to 3″ filters and has 62mm front thread. Sizes 62mm thru 77mm hold up to 4″ filters, and have a removable 82mm lenshood.

49mm	**KT0100**.....	**$21.95**
52mm	**KT0105**.....	**$21.95**
55mm	**KT0110**.....	**$21.95**
58mm	**KT0115**.....	**$21.95**
62mm	**KT0120**.....	**$39.95**
67mm	**KT0125**.....	**$39.95**
72mm	**KT0130**.....	**$39.95**
77mm	**KT0135**.....	**$39.95**



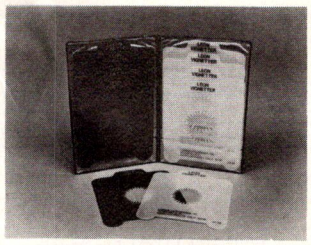
Universal Gelatin Filter Holder

Easy to use. Snaps on all lenses from 20mm to 70mm. Accommodates 3 in. square gelatin filters plus filters or vignettes of your own design. Built-in barndoors for lens shading. **BG9000**..... **$19.95**



Leon Vignettasol

A special vignetting bracket that can add light or take away light when used with any of the Larson/Leon Vignetters. Goboflector attachment is silver on one side to illuminate high-key vignetters and black on the other side for low-key vignetting, and is attached by a flexible rod for maximum control. Mounts directly to tripod and does not have to be repositioned each time you move the camera. **LA4198**..... **$39.95**

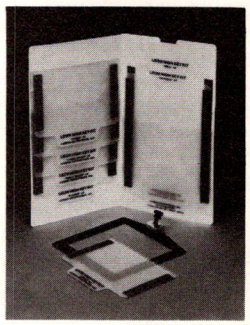


Leon Vignetter Kit

The Leon Vignetter Kit is a soft-focused, partial masking system that slides into Hasselblad, Mamiya, or the Ambico Shade + bellows lens shades. The kit consists of 4 brown and 4 translucent vignetters of various circular sizes. The brown vignetters gently blend background colors and "warm-up" the cool color of outdoor light. The translucent vignetters are for high key photography and can be tinted with various dyes and paints for other creative effects.
LA4190..... **$24.95**

Leon Vignetter Pro II Kit

Designed solely for low-key vignetting, this kit consists of 3 vignetter masks of layered fiberglass mesh, each with a different sized oval cutout, creating a more subtle light to dark transition. Specially designed magnetic attachment system allows placement of the vignette "hot spot" just about anywhere within the camera's framing. For use with existing bellows lens shades. Includes frame.
LA4195..... **$47.95**



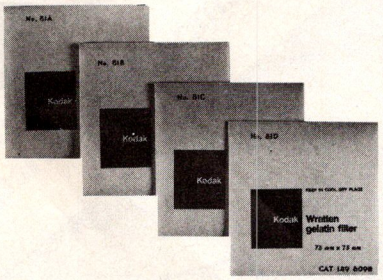
Leon High Key Kit

Similar in design to the Pro II kit with the exception that the vignettes are translucent for high key effects only. 7 vignettes and frame included. **LA4196**..... **$47.95**

Kodak Wratten Filters

QUANTITY DISCOUNT
Buy 3 Kodak or Tiffen Filters—Save 10%
Buy 6 Kodak or Tiffen Filters—Save 20%
Filters may be assorted to qualify.

Note: The quality discount does not apply to Tiflen Professional (TP) filters, lens-shades, filter holders, adapter rings, filter accessories or special order filter.



Description	75 mm (3″) $11.00	100 mm (4″) $17.30
0 Colorless	KF1003	KF1004
1APale Pink (Skylight)	KF1007	KF1008
2A Pale Yellow UV 405nm.	KF1111	KF1112
2B Pale Yellow UV 390 nm.	KF1115	KF1116
2C Pale Yellow UV 395 nm.	KF1119	KF1120
2E Pale Yellow UV	KF1123	KF1124
4 Yellow	KF1159	KF1160
6 Light Yellow	KF1163	KF1164
8 Yellow	KF1167	KF1168
11 Yellowish Green	KF1179	KF1180
12 Deep Yellow	KF1183	KF1184
13 Dark Yellowish Green	KF1187	KF1188
15 Deep Yellow	KF1191	KF1192
16 Yellow-Orange	KF1195	KF1196
22 Deep Orange	KF1206	KF1207
23A Light Red	KF1210	KF1211
24 Red	KF1214	KF1215
25 Red	KF1218	KF1219
29 Deep red	KF1226	KF1227
30 Light Magenta	KF1251	KF1252
38 Light Blue	KF1283	KF1284
47 Blue	KF1315	KF1316
47B Deep Blue	KF1321	KF1322
58 Green	KF1379	KF1380
61 Deep Green	KF1394	KF1395
66 Very Light Green	KF1410	KF1411
80A 3200 to 5500°k	KF1459	KF1460
80B 3400 to 5500°k	KF1463	KF1464
80C 3800 to 5500°k	KF1467	KF1468
80D 4200 to 5500°k	KF1471	KF1472
81 Warming—100°k	KF1474	KF1475
81A Warming—200°k	KF1480	KF1481
81B Warming—300°k	KF1483	KF1484
81C Warming—400°k	KF1487	KF1488
81D Warming—500°k	KF1491	KF1492
81EF Warming—650°k	KF1495	KF1496

Description	75 mm (3″) $11.00	100 mm (4″) $17.30
82 Cooler +100°k	KF1499	KF1500
82A Cooler +200°k	KF1503	KF1504
82B Cooler +300°k	KF1507	KF1508
82C Cooler +400°k	KF1511	KF1512
85 5500 to 3400°k	KF1515	KF1516
85B 5500 to 3200°k	KF1531	KF1532
85C 5500 to 3800°k	KF1543	KF1544
87 Infrared	KF1563	KF1564
90 Monochrome Viewing	KF1587	KF1588
33 Magenta	KF1262	KF1264
CC025Y	KF3001	KF3002
CC05Y	KF3005	KF3006
CC10Y	KF3009	KF3010
CC20Y	KF3013	KF3014
CC30Y	KF3017	KF3018
CC40Y	KF3021	KF3022
CC50Y	KF3025	KF3026
CC025M	KF3051	KF3052
CC05M	KF3055	KF3056
CC10M	KF3059	KF3060
CC20M	KF3063	KF3064
CC30M	KF3067	KF3068
CC40M	KF3071	KF3072
CC50M	KF3075	KF3078
CC025C	KF3101	KF3102
CC05C	KF3105	KF3106
CC10C	KF3109	KF3110
CC20C	KF3113	KF3114
CC30C	KF3117	KF3118
CC40C	KF3121	KF3122
CC50C	KF3125	KF3126
CC025R	KF3201	KF3202
CC05R	KF3205	KF3206
CC10R	KF3209	KF3210
CC20R	KF3213	KF3214
CC30R	KF3217	KF3218
CC40R	KF3221	KF3222
CC50R	KF3225	KF3226
CC025G	KF3251	KF3252
CC05G	KF3255	KF3256
CC10G	KF3259	KF3260
CC20G	KF3263	KF3264
CC30G	KF3267	KF3268
CC40G	KF3271	KF3272
CC50G	KF3275	KF3276
CC025B	KF3301	KF3302
CC05B	KF3305	KF3306
CC10B	KF3309	KF3310
CC20B	KF3313	KF3314
CC30B	KF3317	KF3318
CC40B	KF3321	KF3322
CC50B	KF3325	KF3326

PLEASE NOTE: Returns on gelatin filters will not be accepted once the seal is broken or the package is opened.

Description	75 mm (3″) $22.00	100 mm (4″) $39.00
3 Light Yellow	KF1151	KF1152
9 Deep Yellow	KF1175	KF1176
21 Orange	KF1202	KF1203
26 Red	KF1222	KF1223
32 Magenta	KF1259	KF1260
34 Deep Violet	KF1267	KF1268
34A Violet	KF1271	KF1272
35 Purple	KF1275	KF1276
36 Dark Violet	KF1279	KF1280
38A Blue	KF1287	KF1288
40 Light Green	KF1291	KF1292
44 Light Blue-Green	KF1295	KF1296
44A Light Blue-Green	KF1299	KF1300
45 Blue-Green	KF1303	KF1304
47A Light Blue	KF1317	KF1318
49 Dark Blue	KF1333	KF1334
53 Green	KF1355	KF1356
54 Deep Green	KF1359	KF1360
56 Light Green	KF1367	KF1368
57 Green	KF1371	KF1372
59 Light Green	KF1383	KF1384
64 Light Blue-Green	KF1398	KF1399
65A Blue-Green	KF1406	KF1407

Description	75 mm (3″) $19.25	100 mm (4″) $34.65
96 ND 0.10	KF1701	KF1702
96 ND 0.20	KF1705	KF1706
96 ND 0.30 1 Step	KF1709	KF1710
96 ND 0.40	KF1713	KF1714
96 ND 0.50	KF1717	KF1718
96 ND 0.60 2 Step	KF1721	KF1722
96 ND 0.70	KF1725	KF1726
96 ND 0.80	KF1729	KF1730
96 ND 0.90 3 Step	KF1734	KF1735
96 ND 1.00	KF1739	KF1740
96 ND 2.00	KF1743	KF1744
96 ND 3.00 10 Step	KF1747	KF1748
96 ND 4.00	KF1751	KF1752

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(In Illinois, call: 1-800-225-8601)

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- **Agfachrome RS**
- **Kodachrome Professional**
- **Vericolor**
- **Agfacolor XRS**

In ALL Formats- From 35mm to 8″x 10″

See pages 152-159 for a partial listing of Calumet's Soft Goods selection.

Also included in the new 1985 photographic Soft Goods Catalog are:

Agfa
- Brovira
- Portriga Rapid
- Agfapan Film
- Rodinal, Neutol and Sistan

Oriental Seagull

Kodak
- New Elite Printing Paper
- Polyprint RC and Polyfiber
- Plus-X and Tri-X Kodalith Direct Positive film
- Black and White Chemistry

Polaroid Film

Ilford
- Galerie
- Multigrade II
- Black and White Film
- Black and White Chemistry

Pal Print Paper

Ethol
- UFG Developer
- T.E.C. Compensating Developer
- LPD Paper Developer

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Quality hard-to-find Paper, Film and Chemistry PLUS:

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- Special Packaging
- Prompt Delivery

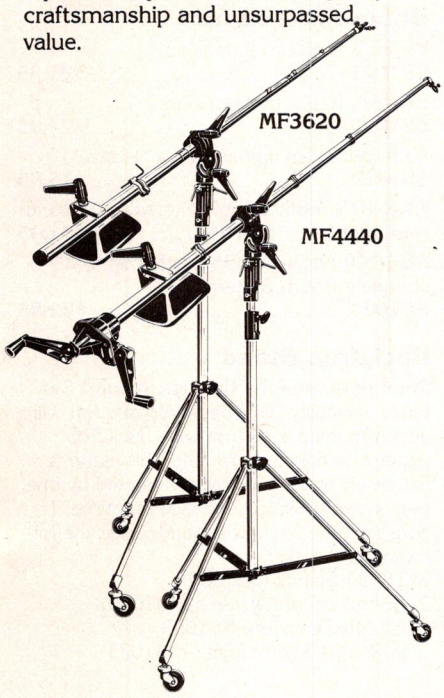
If you haven't received your NEW 1985 Soft Goods Catalog, please call or write.

For more information
Call **1-800-CALUMET**
(In Illinois call 1-800-225-8601)

Calumet Light Stands—New Models!

Calumet Non-Reflective Black Light Stands

Calumet continues to expand its very popular line of non-reflective black studio light stands. These high quality, black anodized aluminum stands are now available in a full range of sizes, from the new ultra-compact Backlite Stand to the Manual Boom. These amazing stands represent a perfect blend of quality craftsmanship and unsurpassed value.



Calumet Manual Boom—New

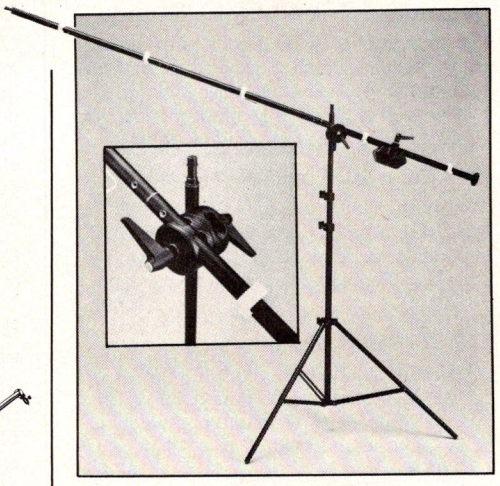
This new studio boom features the same quality construction as the Calumet Heavy Duty Remote Control Boom. It's 3-section pivoting boom arm extends over 8 feet and comes complete with an adjustable 14.75 lb. counterweight and 5/8" stud. Stand height is adjustable from 51" to 93". Castors are included.

MF3620 . . . . . **$199.95**

Calumet Heavy Duty Remote Control Boom

This fine quality boom has coaxial geared controls at one end that permit you to move a light at the other end. Range of light movement is a full 180° (in a plane parallel to the boom) and 360° (in a plane perpendicular to the axis). Handles light units up to 15 lbs. Includes adjustable counterweight and stand casters. Boom length 8'10." Stand height adjustable from 51" to 93." 5/8" stud. Shipped freight collect only. (This model available in chrome only)

MF4440 . . . . . **$299.95**



Calumet Light Boom Arm

Calumet has finally found a solution to the age-old question, "Where can I find a low-priced, sturdy, universal light boom?" The Calumet Light Boom Arm has put that quest to rest! This compact, 3-section, 6' boom arm, with pivoting clamp and 9½ lb. counterweight will fit most standard light stands. It is strong enough to support most tungsten lights and studio strobes with or without a medium size light box.

The Calumet Light Boom Arm has a non-reflective, black anodized surface and is constructed of light weight aluminum tubing. It includes a 5/8" stud and 3/8" thread.

MF3510 . . . . . **$69.95**

Calumet Compact Stand

The Calumet Compact Stand features unusually rigid support and rugged construction for a stand of its size. This sturdy, 3-section stand folds down to a compact 34½," extends to 7½,' features an 11 lb. load capacity, and weighs a mere 2¾ lbs. This stand will easily accommodate virtually any tungsten light or strobe head mounted alone or with a medium size umbrella or light box.

The Calumet Compact Stand is constructed with handsome black anodized aluminum tubing and features oversized, positive-locking knobs and leg support struts. It includes a 5/8" stud and 3/8" thread. This is truly a universal and utiliterian stand, and an unsurpassed value in studio necessities.

MF3505 . . . . . **$39.95**

Calumet/Comet Adapter

Adapts Calumet light stands to accept ¼-20 Comet flash heads.

BG5001 . . . . . **$5.95**

Calumet Heavy Duty Light Stand

Unquestionably a "best buy" for a professional quality light stand. The 3400's 20 lb. load rating and 11 ft. max. height is outstanding considering its light weight (under 5 lbs.). The stand is constructed with black anodized aluminum shafts and enamel finished die-cast parts for an attractive appearance. Knobs are oversize for secure locking and easy release. Collapsed length 41½ in. 5/8" stud with 3/8 thread.

MF3400 . . . . . **$59.95**

Calumet High-Boy Stand—New

This NEW 6-section stand extends to a remarkable 15½ feet, and yet folds down to a compact 3 feet. This diverse stand will help you out in those unusual situations where extra height is essential, and at the same time is a great all purpose light support. It's portably-light 4.2 pounds makes it an excellent choice for location work. Closed length: 39½". Minimum extended height: 3 feet. Comes complete with 5/8" stud and a 3/8" thread. Non-reflective, black anodized surface.

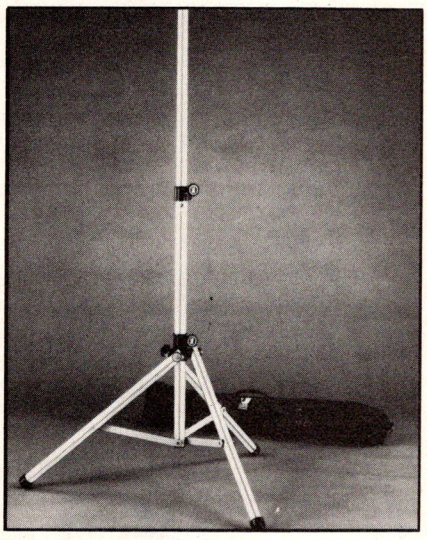
MF3610 . . . . . **$79.95**

Calumet Backlite Stand—New

This unique and versatile Backlite Stand weighs under 3 pounds and features a base-mounting light attachment for extreme low angle lighting. This two section stand has a maximum height of 2½ feet and includes a 5/8" stud and both 3/8" and ¼" threads. Base attachment is a 5/8" spigot with both ¼"/20 and 3/8" threads.

MF3600 . . . . . **$24.95**

Ultimate Support Systems Special Discount



The Modular Studio System

This unique system allows a limited number of stands to meet the constantly changing needs of the studio photographer. Enjoy the convenience of converting a light stand into a boom, and a boom into a back-drop support. This solidly built and cleanly designed system is made from aluminum tubing with glass reinforced polycarbonate fittings. Outstanding features include bolted-not riveted-leg braces which are virtually unbendable, and fittings which clamp around the tubing. This allows for a gradual loosening with large hand knobs which reduces the chance of accidents.

Special Discount*
Purchase $200 or more Ultimate Support System products and SAVE 10%. Take advantage of this special discount and find out why Ultimate Support Systems deserve their name.

Standard Tripod Light Stands

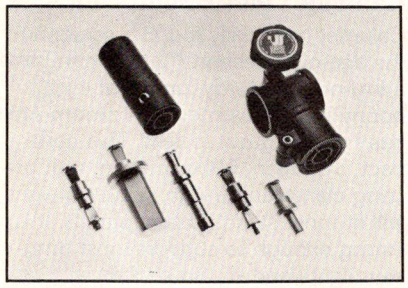
The TS-33 and TS-30 tripods form the base of the entire Ultimate Support system. Constructed of 1½" aluminum alloy tubing. These stands weigh only a few pounds, but hold up to 12 times their own weight.

TS-33 Tripod Stand

Maximum standard height: 9 ft. 2 in. (2-sections). Weight: 8 lbs. Will hold up to 100 pounds of equipment. Complete w/nylon tote bag. **Requires adapter base and stud.**
SS1000 . . . . . **$89.95**

TS-30 Tripod Stand

Maximum standard height: 6 ft. 6 in. Weight: 6 lbs. Will hold up to 75 pounds of equipment. Complete w/nylon tote bag. **Requires adapter base and stud.**
SS1005 . . . . . **$74.95**



Adapter Bases & Studs

ADB-150 Adapter Base - Locks into tube end and accommodates any of Ultimates Adapters. Required on tripods and Boom System **SS1015** **$8.95**

ATB-150 Adapter T-Base - Enables mounting of any Adapter almost anywhere on boom or tripod. **SS1026** **$13.95**

ADR-380 ⅜" Adapter Stud
SS1017 . . . . . **$6.95**

ADR-584 ⅝" - ¼ x 20 Threaded Adapter
SS1016 . . . . . **$7.95**

ADR-580 - ⅝" Mole Richardson Adapter
SS1012 . . . . . **$7.95**

UB-48 Ultimate Boom System

Offers long reach and excellent stability for tough-to-light applications. The innovative polycarbonate swivel joint allows non-slip, positive locking with almost unlimited adjustment. The basic boom kit includes swivel joint. T-fitting, 4-foot boom arm, and a 10 pound counterweight which is easily adjustable yet locks securely in place. Used in conjunction with either TS30 and TS33 tripods, maximum boom length with optional extension is 12 feet. **SS1020** **$62.95**

Boom Accessories

BE-24 2 ft. Boom Extension
SS1021 . . . . . **$21.95**

BE-48 4 ft. Boom Extension
SS1022 . . . . . **$24.95**

BJR-150 Boom Joiner (connects arms)
SS1023 . . . . . **$15.95**

CWS-100 Counterweight System. 10 pound lead-shot bag. **SS1060** **$31.95**

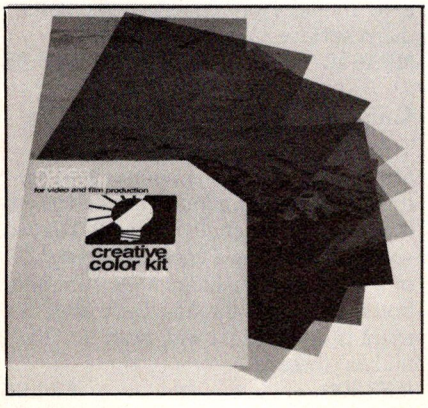
ABG-100 Accessory Bag-holds up to 2 complete Boom Systems.
SS1024 . . . . . **$22.95**

Backdrop Stand

Proof positive of the Ultimate Support System's versatility. This backdrop support will accommodate a 12 foot wide backdrop paper to a height of 13 feet. This stand is extremely stable and can be erected by one person and elevated one side at a time. To construct the backdrop stand, order the following:
2-TS-33 Stands (SS1000)
2-UB-48 Boom Systems (SS1020)
1-BE-48 Extention (SS1022)
1-BJR-150 Boom Joiner (SS1023)

CRK-150 Caster Retrofit Kit - Converts standard tripods into caster stands. Casters are adjustable and work well regardless of tripod base spread. **SS1040** **$42.95**

Rosco Filters



Rosco Creative Color Kit

This creative color kit includes ten color filters, each 10" x 12". The ten colors are selected from the range of over 300 colors which Rosco produces. These deep-dyed polyester "cinecolor" filters feature color which is fused into base, and cannot be scratched off. Because a heat-resistant base is used, Rosco Filters can be used with tungsten, as well as studio strobe lights.

Rosco Colored Filters can be used to effectively produce a rainbow of color backdrop hues, or "Chromazones"®, as taught in the Calumet/Finelight Commercial Lighting Seminar Series. Filters included are: Blue, Gold, Purple, Green, Yellow, Red, Magenta, Pink, Violet and Orange.
RC1000 . . . . . **$19.95**

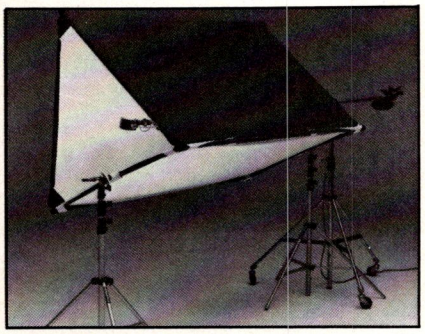
Rosco UV Filter

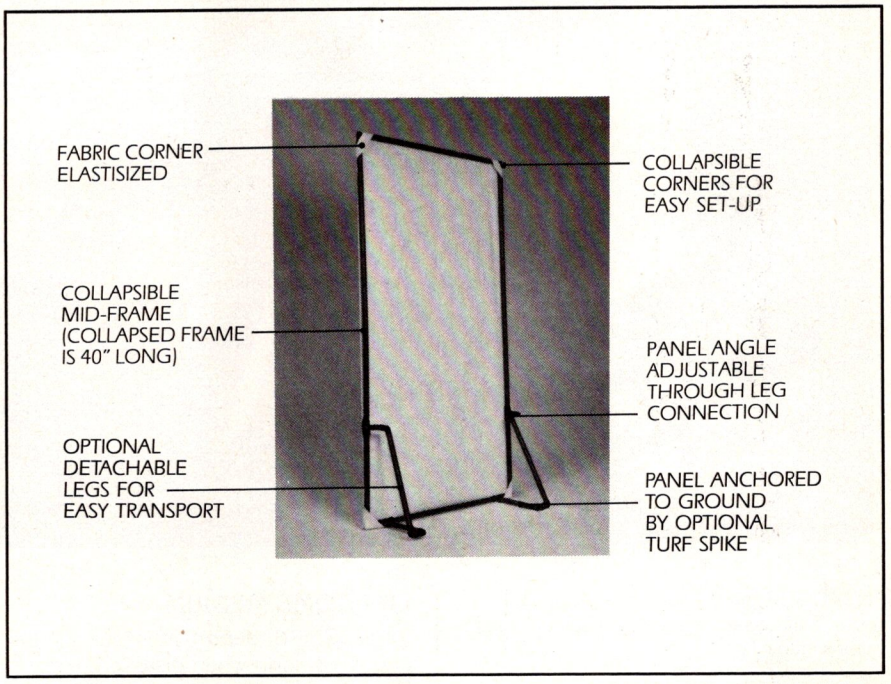
Especially coated transparent filter designed to absorb ultra-violet rays. Ideal for removing blue tint produced by most studio strobes.
20" x 24" sheet **RC2000** **$4.95**

Lightform Panel System

Quantity Savings
Save 10%
Purchase 3 Panel Frames or 3 Fabrics and save 10%

Save 20%
Purchase 6 Panel Frames or 6 Fabrics and save 20%



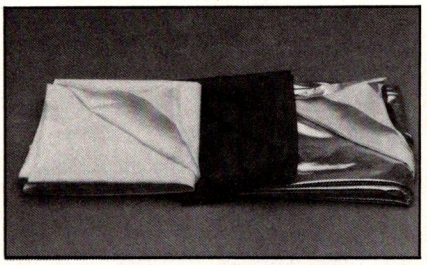


P-22 Panel System

This unique modular system was forged from the identification of lighting characteristics photographers can control. The system can control a wide variety of lighting situations from small product to lighting large sets. The P-22 panel is a lightweight, durable plastic frame that collapses into a easily transportable unit. The fabrics are made to stretch over the four corners and come in translucent, reflective white or silver and black. The system has common parts that enable the panels to handle anything from a one light portrait to the formation of a 3½ by 6½ foot light box. From there it's up to your imagination. Once a studio is equipped with a number of these panels, large projects take no time to set up. The ease of snapping the panels together makes any job an easy one. The system can grow as your demand grows.

P-22 Panel Frame

This collapsible 3½′ x 6½′ panel frame is the heart of the Lightform System. Its ¾″ diameter tubing is easily assembled with the flick of the wrist by means of an integrated 'shock cord', and breaks down quickly and compactly as one, self-contained unit. Panel Fabrics are purchased separately, and are available in a choice of four materials.
FL1000 ..... **$54.95**



P-22 Panel Fabric

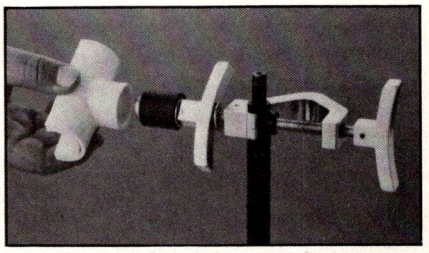
Reflective White
FL1020 ..... **$24.95**
Translucent
FL1010 ..... **$24.95**
Black
FL1030 ..... **$24.95**
Silver
FL1040 ..... **$45.95**

Travel Bags

Rugged Cordua construction with pouch for holding fabrics.

Small (holds 2 panels & fabric)
FL1200 ..... **$42.95**
Medium (holds up to five panels)
FL1205 ..... **$54.95**
Large (holds up to eight panels)
FL1210 ..... **$69.95**

P-22 Panel Accessories



EC-1 Clamp

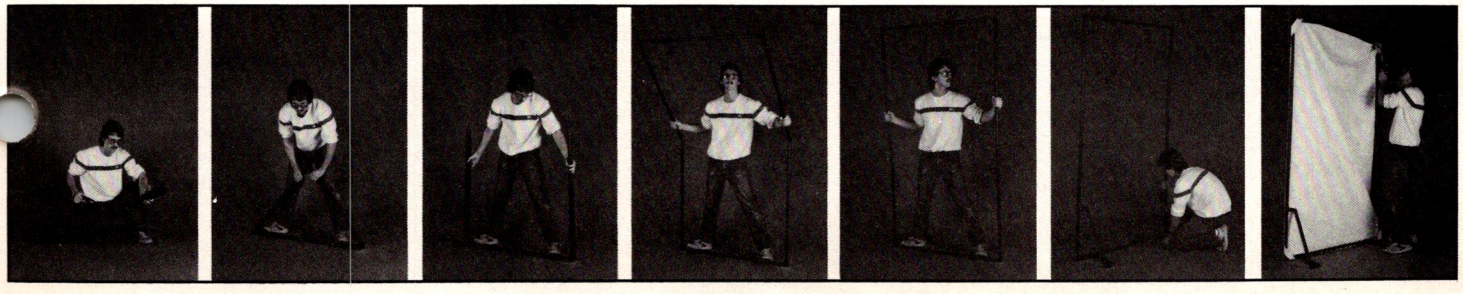
EC-1 Clamp
Used to securely attach any panel design to a light stand or other support device.
FL1100 ..... **$21.95**

Double Clips
Used to attach two or more panels together to form larger panels, walls, light boxes, etc.
Package of 6 **FL1160** **$13.95**

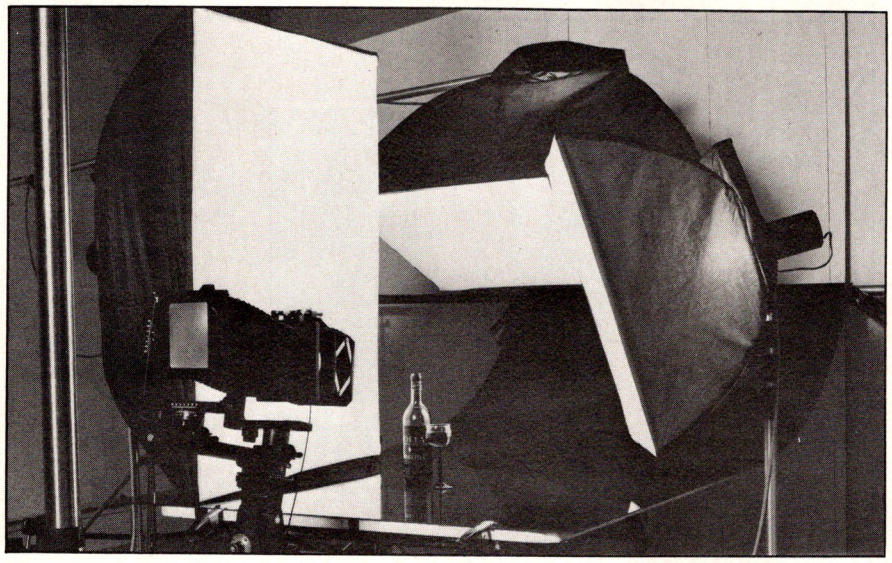
Tee Clips
Package of 6 **FL1150** **$13.95**

Legs (set of 2)
Used to make a single panel free standing. (note that two panels connected at a slight angle will stand alone)
FL1120 ..... **$39.95**

Turf Spikes
Used to anchor panels outdoors. Pkg. of two **FL1170**..... **$4.95**



Litedome



LITEDOME provides a broad, even light source that wraps around a subject like natural window light.

LITEDOME FEATURES:

- Soft contrast between highlight and shadow, even when moved in close to your subject
- Light weight, completely portable, tough and durable
- Simple to set up and break down
- Versatile – ideal for studio or location
- Lifetime guarantee against rod breakage, one year on other parts and workmanship
- Affordable prices

The LITEDOME is manufactured of tough, stretch-resistant Duracloth nylon, supported by durable fiberglass flexible rods. The front consists of one layer of translucent white Duracloth, and the sides of one layer of translucent white Duracloth backed by a layer of opaque black. A removable internal baffle is included on the large and medium LITEDOMES for further control of evenness and color.

An adjustable nylon headstrap is included, which fits around your strobe head and into which the fiberglass rods are inserted. The LITEDOME's collar opening is large enough to allow the insertion of additional strobe heads, and the velcro closure can be adjusted to prevent lens flare. This opening is also large enough to get to the front of your strobe to attach reflectors, gels, etc., and to allow adequate ventilation.

With the LITEDOME secured to your strobe, it can be supported by a lightstand, boom, or the loop ties on the LITEDOME when working from the ceiling. The LITEDOME comes with a protective carry bag into which it can be stored, or transported for quick assembly on location.

LITEDOME MEDIUM

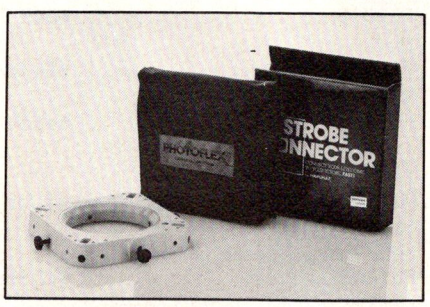
24" x 32" (18" depth). It weighs 1¼ lbs. and is 18" long when disassembled. Headstrap is included. This LITEDOME is very adaptable, and is commonly used in pairs (one on each side of the subject.)

LT1000 . . . . . **$79.95**

LITEDOME LARGE

36" x 48" (24" depth). It weighs 2 lbs. and is 36" long when disassembled. Headstrap is included. This LITEDOME provides a broader, flatter source of light, and is the most versatile size.

LT2000 . . . . . **$109.95**



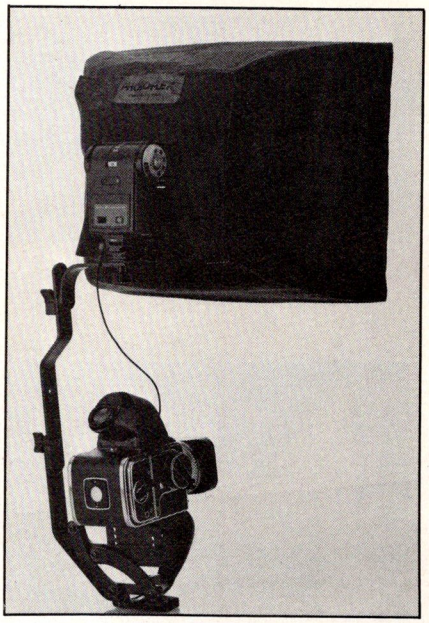
Litedome Strobe Connectors

Comet CX and CL Strobe Connector
LT4080 . . . . . **$39.95**

Bowens Monolight Strobe Connector
LT4090 . . . . . **$24.95**

Dynalite Strobe Connector
LT4110 . . . . . **$24.95**

Broncolor Impact Strobe Connector
LT4120 . . . . . **$57.95**



New Litedome Extra Small

This new 12" x 16" Litedome is designed for "on camera" use. It produces the same soft, even illumination as the larger, studio model Litedomes, but mounts directly to your camera and accepts portable flash units. Comes complete with strobe connector and carry bag. Note: Requires appropriate flash mounts, listed below.

LT0800 . . . . . **$49.95**

Dedicated Flash Mounts for Litedome Extra Small

Large Shoe Mount
For mounting hot shoe flash units (i.e. 283 vivitar) **LT4050** **$13.95**

Norman 200B Mount
LT4040 . . . . . **$13.95**

Lumedyne 244 Mount
LT4030 . . . . . **$13.95**

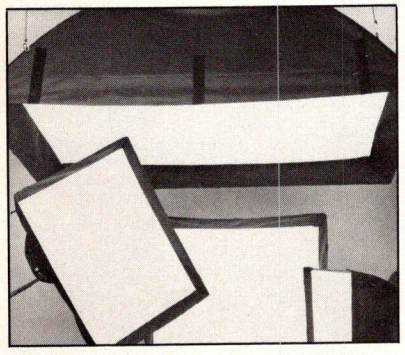
Small Handle Mount
For mounting 39mm diameter handle mount flash units (i.e. Sunpack)
LT4160 . . . . . **$13.95**

Large Handle Mount
For mounting 45mm diameter handle mount units **LT4170** . . . . . **CALL**

Square Handle Mount
For use with Metz handle mount flashes. **LT4180** . . . . . **CALL**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Chimera Light Banks



New Chimera Super Pro Bank

These new additions to the Chimera family of collapsible light banks feature a textured silver interior and a recessed front screen. Relative to Pro Banks, the Super Pros are ⅔ stop more efficient, 50° K cooler and produce a definite increase in specularity. The recessed screen helps guard against flare and controls light fall-off. Super Pros accept standard Chimera Speed Ring/Inserts.

Extra Small Super Pro—16″ x 22″. Depth: 12″. Recessed Front: 1½″. Wt.: 0.8 lbs.
CH1060 . . . . . **$119.00**

Small Super Pro—24″ x 32″. Depth: 18″. Recessed Front: 3″ Wt.: 1.4 lbs.
CH1065 . . . . . **$179.00**

Medium Super Pro—36″ x 48″. Depth: 24″. Recessed Front: 4½″. Wt.: 2.4 lbs.
CH1070 . . . . . **$269.00**

Large Super Pro—54″ x 72″. Depth: 30″. Recessed Front: 6″. Wt.: 4.4 lbs.
CH1075 . . . . . **$439.00**

Louvers for Super Pro Banks

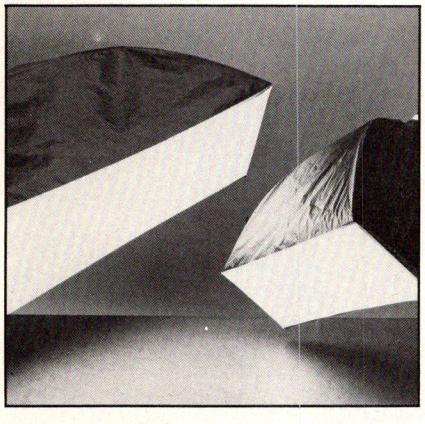
Louvers for Extra Small Super Pro
CH1040 . . . . . **$99.00**

Louvers for Small Super Pro
CH1042 . . . . . **$149.00**

Louvers for Medium Super Pro
CH1044 . . . . . **$239.00**

Chimera Pro Light Banks

Chimera light banks are made of extremely durable, stretch-resistant sailcloth. The bank is supported by tough, flexible, fiber glass wands, the same as are used in quality lightweight mountain tents. These four wands are tensioned as they are inserted into the support bracket to give the bank its shape and structure. The housing opening is enlarged to accept multiple strobe heads. A further feature of the Chimera light banks is an optional interior baffle for increasing the evenness with certain strobes. Breakdown is quickly accomplished by removing the wands from their support and rolling the light bank into its accompanying slip cover for easy storage.



	Dimensions	Depth	Weight	Length (broken-down)	Cat. Number	Price
Chimera Pro Banks						
Extra-Small	16.5″ x 22″	12″	¾ lbs.	18″	**CH1000***	**$95.00**
Small	24″ x 32″	18″	1¼ lbs.	27″	**CH1005***	**$145.00**
Medium	36″ x 48″	24″	2 lbs.	22″	**CH1010***	**$229.00**
Large	54″ x 72″	30″	3¼ lbs.	27″	**CH1015***	**$339.00**
Chimera Strip Banks						
Small	9″ x 36″	16″	1 lb.	27″	**CH1020***	**$145.00**
Medium	14″ x 56″	22″	1¾ lbs.	22″	**CH1025***	**$229.00**
Large	21″ x 84″	29″	3 lbs.	28″	**CH1027***	**$339.00**

*Requires use of speed ring insert combination or universal strap set for attachment to flash head.

New Chimera II Light Banks
Features lower price, single layer laminated fabric and more efficient light output. Accepts single flash head. Baffle and speed ring not included. Dimensions are same as Chimera Pro Banks.

Chimera II Extra-Small
CH1016 . . . . . **$49.95**

Chimera II Small
CH1017 . . . . . **$84.95**

Chimera II Medium
CH1018 . . . . . **$134.95**

Chimera II Large
CH1019 . . . . . **$224.95**

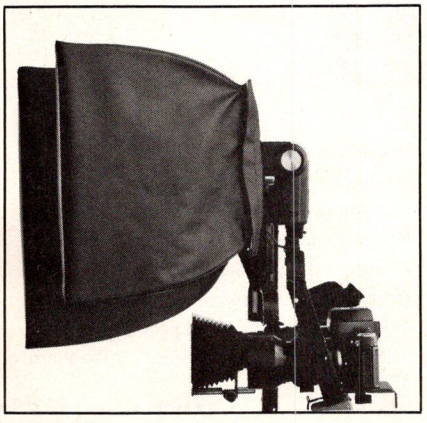
Speed Ring/Insert Combinations

Speedotron **CH1205** **$36.00**
Balcar **CH1210** **$40.00**
Bowens **CH1212** **$72.00**
Novatron **CH1214** **$24.00**

Universal Feet/Strap Set

For attachment of all flash heads to illuminata light banks.
CH1200 . . . . . **$18.00**

Multi-head Stand Bracket
CH1250 . . . . . **$119.95**



Chimera Mini and Maxi Portable Light Banks

Smallest lightbanks yet, for use with on-camera strobes. Both units can be used with shoe mount and handle-type portable flash units and will work with most camera brackets. Eliminate shadows and blue cast often associated with on-camera flash. Ideal for industrial location work as well as weddings. Mini and Maxi are extremely lightweight and portable. Both units require flash adapter for your specific flash.

Chimera Mini - Screen dimensions: 12″ x 16″ **CH1400** **$69.00**

Chimera Maxi - Screen dimensions: 16½″ x 22″ **CH1405** **$89.00**

Speed Ring Adapters for Mini-Maxi

(required to mount units to flash)
For Small Shoe Mount Flash.
CH1420 . . . . . **$36.00**

For Large Shoe Mount Flash (Vivitar #283) **CH1421** **$36.00**

For 38mm Handle Mount Flash.
CH1422 . . . . . **$40.00**

For 45mm Handle Mount Flash.
CH1423 . . . . . **$40.00**

For Norman 200B Flash.
CH1424 . . . . . **$30.00**

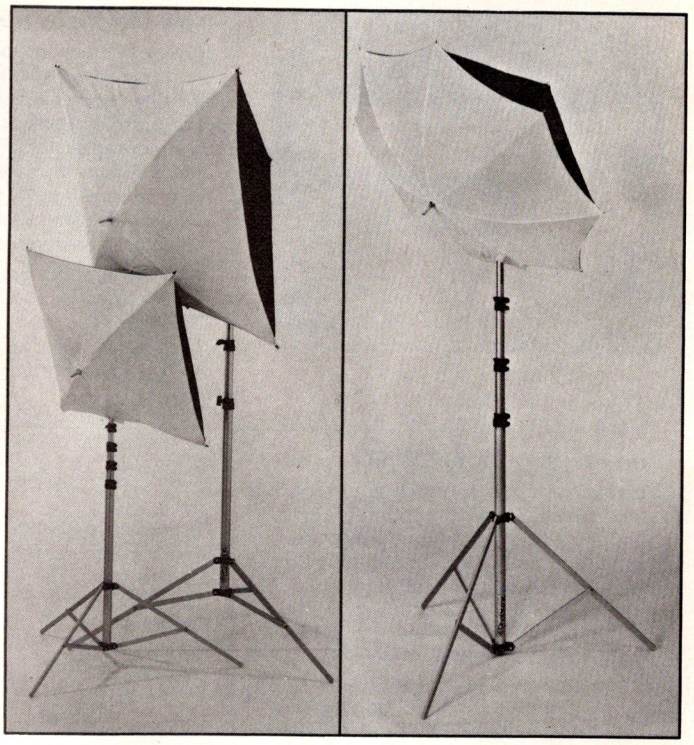
For Lumedyne Flash. **CH1425** . . . **$30.00**

Photogenic Halo Soft Light Source

New Photogenic Halo

It's so simple to use it's a stroke of engineering genius, yet it's so lightweight and compact you won't know you brought it along!

The Photogenic Halo produces a quality soft light the equivalent of any expensive, complex soft box. Yet, it can be carried simply as an unobtrusive back-up on any job. Can easily be used with your studio strobes or any small battery operated strobes. Simply clamp strobe unit anywhere on the shaft. It can be aimed directly through the white, shoot-thru umbrella, or to the back to reflect off a silver lined surface. Halos mount to any standard umbrella mount (shaft diameter is 3/8").



Round Halo Soft Lights

20" Round Halo **PG6005** **$67.95**
32" Round Halo **PG6015** **$74.95**
45" Round Halo **PG6025** **$80.95**

Square Halo Soft Lights

20"Square Halo **PG6000** **$67.95**
32"Square Halo **PG6010** **$74.95**
45"Square Halo **PG6020** **$80.95**

Halo Accessory

Swivel Umbrella Adapter

Adapter allows you to mount 1/4-20 socket to any 3/8" or 5/8" light stand or to the Bogen Super Clamp. Accepts standard umbrella shaft and offers versatile tilting capabilities.
BG4260 ..... **$12.95**

Calumet Studio Time Savers

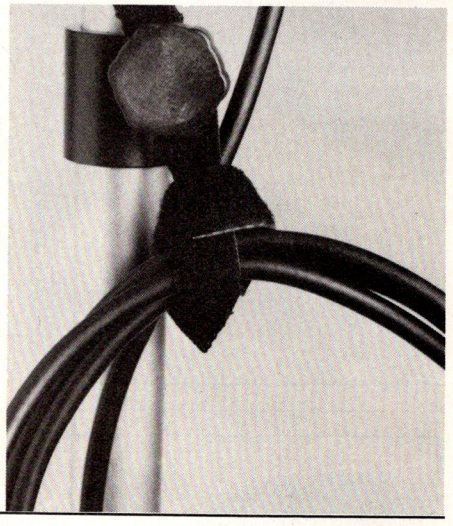
Calumet Mini-Wraps- New 6-Pack

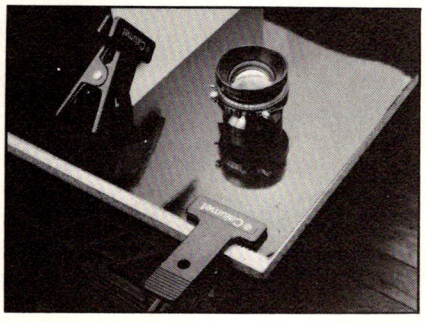
The Mini-Wrap is a great asset to any studio or location kit. This self-adhesive Velcro strip can be used in place of tape for an unlimited number of binding chores, and for an unlimited number of times. The Mini-Wrap provides 15" of usable Velcro, one inch wide, and features a 2" button-hole slot which allows you to "hook" your bound cables or cords to stand knobs, door hinges, nails, or storage hooks. Strips can be combined lengthwise to bind wider loads, such as groups of stands, umbrellas, cables, etc.

Mini-Wraps are small enough to carry several in your pocket for on-the-spot usage, and take up minimal space in your location kit.

Consider the money that you throw away with each piece of gaffers tape that goes in the garbage can, and then consider Mini-Wraps.

Package of 6 Mini-Wraps
CC9120 ..... **$18.95**





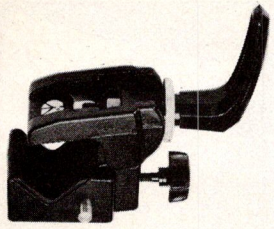
The Calumet "Clip-It"

Clip-its are made of highimpact, durable plastic with a strong action spring and should yield years of invaluable, versatile service! Strong 2¼" jaws which open to 1¼" are lined with hard-rubber pads which will not damage or scratch materials being held, and are 'grooved' to give a secure grip to round objects. Clip-it is ideal for:

- Clamping reflectors to lights
- Attaching cables to stands.
- Joining products and props together
- Clamping fabrics to props and models
- Suspending backdrops.
- Organizing accessories on peg-boards.
- Placing greycards into sets and scene.

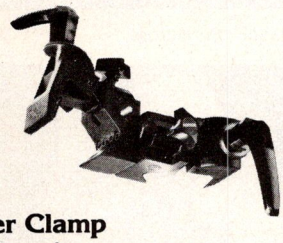
The possibilities are endless . . . Try them and see for yourself.
Pkg. of 6 clip-its. **CC9100** **$12.95**

Clamps



Bogen Super Clamp

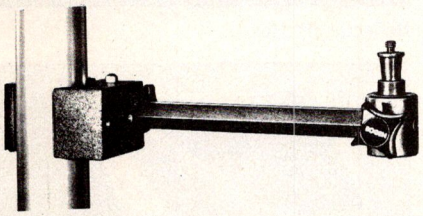
Made of lightweight cast alloy with friction-lined, screw operated jaws. Jaws open 2¼". Close up to ⅜". Standard stud with ¼-20 thread included. **BG4210** **$19.95**



Super Clamp Accessories

Joining Stud—Permits 2 clamps to be joined together, ideal for making booms.
BG4270 . . . . . **$3.50**

Reversible short stud. Permits flush mounting of accessories. **BG4265** **$3.50**



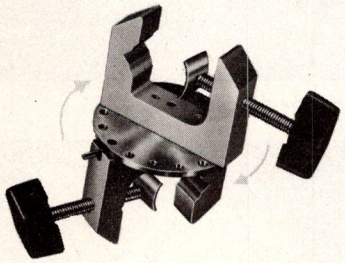
Extension Arm—extends stud 6" away from clamp. **BG4263** **$14.95**

U-Hook cross-bar holder.
BG4250 . . . . . **$6.95**

Narrow U-Hook **BG4251** **$6.95**

L Bracket Shelf Holder. **BG4252** . . . **$9.95**

Super Clamp with 3025 3-way pan head.
BG4213 . . . . . **$36.95**

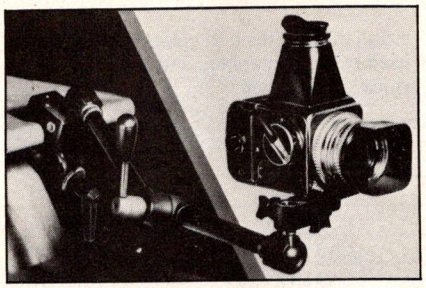


Polecat "Claw"

The all purpose clamp. Revolve the two 2" clamps to any one of the 16 different angles. Weighs only 1½ lbs. **BE1025** **$29.95**

Universal Nickel Plated Spring Clamp

With rubber coated grips and ⅜" stud mount. Ideal for clamping lights in difficult places. **SV3850** **$4.95**

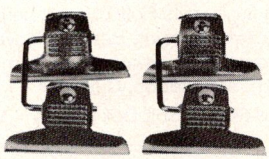


The Magic Arm

Analogous to a human arm, with a shoulder, an elbow and a wrist, only with greater movement, The Magic Arm has 90° pivotable and 360° rotatable ends and an elbow that rotates 360°. The Magic Arm will support a 35mm or 6 x 6 camera in tight quarters; is perfect for placement of small lights and flash heads; great for gobos, reflectors and flags. Both ends have studs that fit into any standard ⅝" socket and are tapped so that they can be mounted on any tripod (both ¼-20 and European) and light stands. Flash shoe and a camera mounting bracket are supplied with the unit. The plate can also be used to support the optional accessory fork and doubles as a holder for flags or extension poles. Extended length is 19.7" (50cm) and it weighs 2 lbs. 6 oz.
BG4230 . . . . . **$49.95**

Magic Arm Accessories

Bogen Super Clamp **BG4210** **$19.95**
Bogen Extension Arm **BG4263** . . . **$14.95**
Accessory Fork **BG4232** **$14.95**

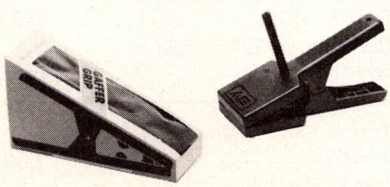


Multi Clip

Multipurpose double ended swivel mounted clip. Great for holding filters, diffusers, gobos, cables, etc.
BW5410 each **$5.95**

Sky Hook Adjustable Gaffer Clamp

Adjustable to keep jaws parallel. Grasps just about anything from ¾" to 3". With ⅝ ¼-20 stud. **BG4157** **$24.95**

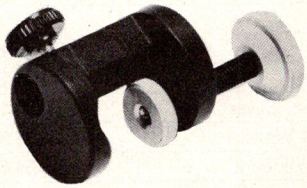


Gaffer Grip

Spring loaded, grips surfaces up to 2½" wide, 3" long, ⅜" stud.
SV7013 . . . . . **$14.95**

Bogen Mini Clamp System

This handy and versatile set of accessories will solve all sorts of studio and location set-up problems. They are easy to use and take up a minimal amount of space.

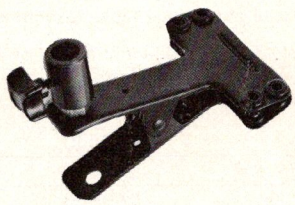


Bogen Mini Clamp

Small yet sturdy clamp opens to 1⅛". Attaches to most light stands, tripods and backdrop supports. **BG4220** **$9.95**

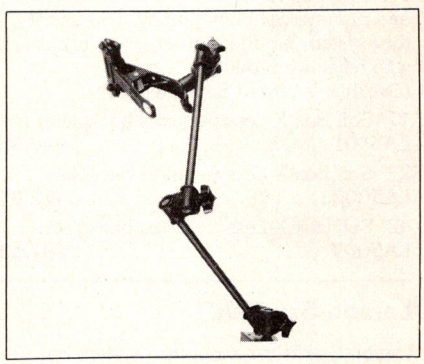
Bogen Mini Clamp with Stud

Includes double-ended ⅝" stud (¼-20 and ⅜" tips) and can be joined with Mini Clamp, Articulated Arm or Clip Clamp for a variety or uses. **BG4221** **$12.95**



Bogen Clip Clamp

Ideal for holding gobos, flats, and reflectors. Mounts to Articulated Arm and Mini Clamp and can be attached to poles, stands, tripods, etc. **BG4226** **$7.95**



Bogen Articulated Arm

Features three separately controlled pivot points which allow full movement to position small lights, gobo or fill reflector when used with Clip Clamp (not included). Mounting stud will also fit Mini Clamp and is tapped for both ½-20 and ⅜" threads.
BG4225 . . . . . **$24.95**

Bogen Mini Clamp Accessory Package

Includes Bogen Mini Clamp, Mini Clamp with Stud, Clip Clamp and Articulated Arm. Ideal for a multitude of location and studio solutions.
BG4219 . . . . . **$49.95**

Larson Umbrellas and Reflectors

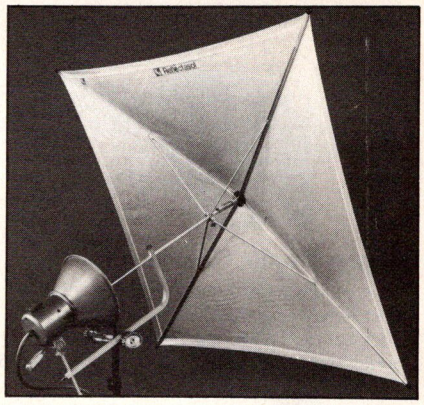
Reflectasol® Reflectors

Larson Reflectasol reflectors are available in a variety of sizes and colors. Following is a listing of the sizes and colors most widely used by photographers and normally "in stock" at Calumet.

Complete Kits include Light Mount and stand clamp.

	36″	42″	42″ x 6′**
	$46.95	**$49.95**	**$99.95**
Silver	**LA3125**	**LA3127**	**LA3912**
Super Silver	**LA3115**	**LA3117**	**LA3910**
Soft White	**LA3135**	**LA3137**	**LA3914**
Translucent	**LA3165**	**LA3167**	**LA3918**
	$41.95	**$46.95**	**$99.95**
Black*	**LA3175**	**LA3177**	**LA3920**

*with stand clamp only, no light mount.
**includes Umbrace only.



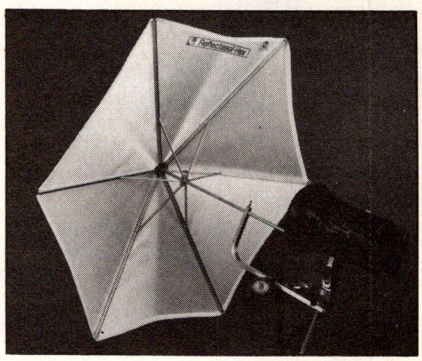
Reflectasol® Reflectors

Reflectasol®-Hex

The Larson Reflectasol Hex is one of the most widely used umbrella type reflectors. The Hex Complete Kit includes a universal light mount and a universal stand clamp for affixing your strobe and Reflectasol to any light stand 3⁄8″ to 2″ in diameter. The universal light mount accepts most full-size studio strobes. It has provisions for 1/4-20 or 3⁄8″ lamp heads or 5⁄8″ bushing heads and is adaptable to handlebar and shoe-mount strobes with optional Quickmounts.

Complete Kits include Light Mount and stand clamp.

	32″	42″	52″	72″
	$46.95	**$53.95**	**$59.95**	**$87.95**
Silver	**LA3520**	**LA3523**	**LA3525**	**LA3527**
Super Silver	**LA3510**	**LA3513**	**LA3515**	**LA3517**
Soft White	**LA3530**	**LA3533**	**LA3535**	**LA3537**



Reflectasol®-Hex

Larson Soff Box X-Less

Soff Box X-less The X-less Soff Box design provides an unobstructed window of soft, even light that's especially ideal for portrait and commercial photography. This shoot-thru system produces an excellent effect with reflective products.
(Backplates orderd Separately)

17″ Soff Box X-Less (requires backplate)
LA5001 . . . . . **$44.95**

27″ Soff Box X-Less (requires backplate)
LA5002 . . . . . **$72.95**

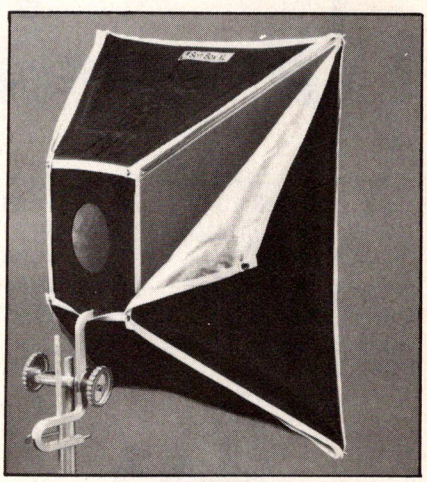
42″ Soff Box X-Less (requires backplate)
LA5003 . . . . . **$97.95**

Backplates for Soff Box X-Less When ordering backplate, specify which one of the following flash units Soff Box will be used with: Balcar, Broncolor, Bowens, Novatron (Standard or Bare), Photogenic (Name specific head), Speedotron, Universal.

Backplate for 17″ Soff Box X-Less
Specify **$36.95**

Backplate for 27″ Soff Box X-Less
Specify **$36.95**

Backplate for 42″ Soff Box X-Less
Specify **$36.95**



Soff Box X-Less®

Larson Starfish™

Larson Starfish A shoot-thru system designed to produce a soft wrap-around light. The domed front diffusion surface makes it possible to reflect fill from any position.
(backplates ordered separately)

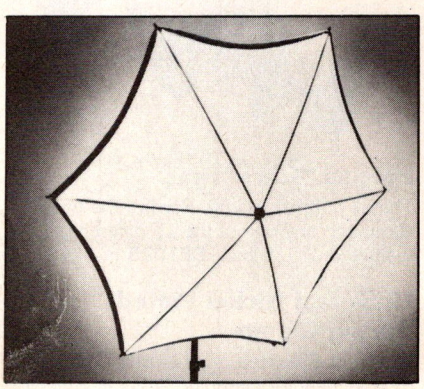
52″ Starfish (requires backplate)
LA5070 . . . . . **$93.95**

72″ Starfish (requires backplate)
LA5071 . . . . . **$149.95**

Backplates for Starfish When ordering backplate, specify one of the following flash units starfish will be used with Balcar, Broncolor, Bowens, Novatron (Standard or Bare), Photogenic (Name specific head), Speedotron, Universal.

Backplate for 52″ Starfish
Specify **$36.95**

Backplate for 72″ Starfish
Specify **$36.95**



Starfish™

Larson Accessories

Stand Clamp for all Reflectasols (for stands up to 3⁄4″ in diameter)
LA4410 . . . . . **$11.95**

Quick Mount for all shoe mount electronic flash units **LA4425** **$12.95**

Handle Bar 1 light mount
LA4415 . . . . . **$12.95**

Handle Bar 2 light mounts
LA4417 . . . . . **$15.95**

SC2 Stand Clamp-will attach most umbrellas to any light stand up to 2″ in diameter.
LA4412 . . . . . **$15.95**

Larson Soff Box Supers

These new rectangular Soff Box Supers are designed to produce a softer, more even, and controllable light. These shoot-through units are constructed of lightweight, nylon fabric with efficient silver inside panel, and removable front panel for easy access to strobe head maintenance. Custom, aluminum backplates (purchased separately) are available to mount all popular professional strobe heads, and allows different model strobes to be mounted concurrently in appropriate Soff Boxes.

Soff Box Super 3 (for one head) 2ft. x 3ft.
LA4500 . . . . . **$99.95**

Soff Box Super 4 (one or two heads) 3ft. x 4ft. **LA4505** **$159.95**

Soff Box Super 6 (for one or two heads) 4ft. x 6ft. **LA4515** **$229.95**

Mounting Plates for Soff Box Supers

Soff Box Supers are not supplied with mounting plates. When ordering your unit, specify the proper plate, which are available for the following flash systems: Balcar, Bowens, Broncolor, Novatron (standard or bare), Photogenic, (name specific head), Speedotron.

Backplates for Soff Box Super 3
Specify **$22.95**

Backplates for Soff Box Super 4 (one head) **Specify** **$26.95**

Backplates for Soff Box Super 4 (two heads) **Specify** **$41.95**

Backplates for Soff Box Super 6 (one head) **Specify** **$22.95**

Blank Backplate for Soff Box Super 6 - use 2 with one head and 1 with two heads in conjunction with specified backplate.
LA4630 . . . . . **$7.95**

Adjustable Diffusers

Control light intensity & color temperature.

Diffuser for Soff Box Super 3
LA4531 . . . . . **$8.95**

Diffuser for Soff Box Super 4 Units
LA4532 . . . . . **$9.95**

Diffuser for Soff Box Super 6 Units
LA4533 . . . . . **$13.95**

Boom Clamp and Rods

Used together as boom assembly for Soff Box Supers with any medium weight stand. (requires counterweight)

Boom Clamp for Sm/Med. Rods
LA4540 . . . . . **$31.95**

Bogen Boom Clamp for Large Rod
BG4275 . . . . . **$36.95**

Small Boom Rod (19″) for Super 3
LA4541 . . . . . **$8.95**

Medium Boom Rod (31″) for Super 4
LA4542 . . . . . **$17.95**

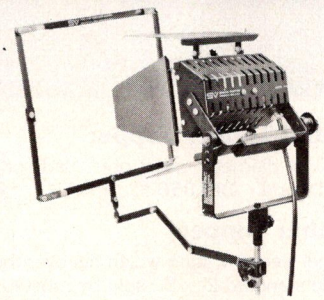
Large Boom Rod (42″) for Super 6
LA4543 . . . . . **$21.95**

Reflectors and Accessories

The Calumet Umbrella

This fine quality 44″ diameter umbrella features two layer cloth construction. Inner fabric of super reflective white surface provides "softness" with maximum reflectance and no color shift. Outer black fabric provides protection from light loss through the umbrella. Thin 5/16″ diameter shaft for universal application. Closed length only 31″.
AU3007 . . . . . **$24.95**

Buy 2 or more Calumet AU3007 Umbrellas and Save 10%.



FH1 Universal Stand Mount

Filter holder attaches to any 3/8″ or 5/8″ stand and uses 12″ filter packs. Also holds polarizing screen and gobos. **SV4405** . . . **$36.95**

Filter Packs

These heat-resistant filters made of a tough polyester base are excellent for controlling diffusion, color temperature, and special effects.

Diffusion Packs contain 2 each of light, medium and heavy diffusion filters.

8″ Pack **SV4423** **$7.95**
12″ Pack **SV4426** **$10.95**
16″ Pack **SV4430** **$12.95**

Light Balancing Packs contain 3 each of 2 types of light balancing filters: Blue 50 balances 3200°K to daylight, ½ Booster blue adds an additional 400°K.

8″ Packs **SV4421** **$7.95**
12″ Packs **SV4424** **$10.95**
16″ Packs **SV4428** **$12.95**

Color Effects Packs contain 1 each of the following color effects filters: Red, Yellow, Blue, Green, Orange and Rose Purple.

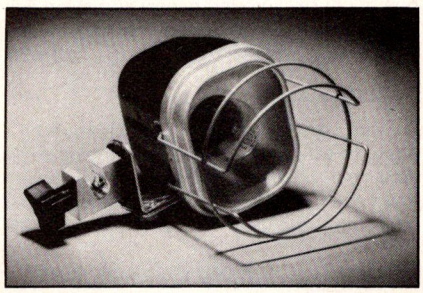
8″ Pack **SV4422** **$7.95**
12″ Pack **SV4425** **$10.95**
16″ Pack **SV4429** **$12.95**

Polacoat Non-Glare Filters

Stops glare where it starts—at the light! Rotate the filters to achieve maximum glare reduction. Heat and fade resistant.

Mounted polacoat material.

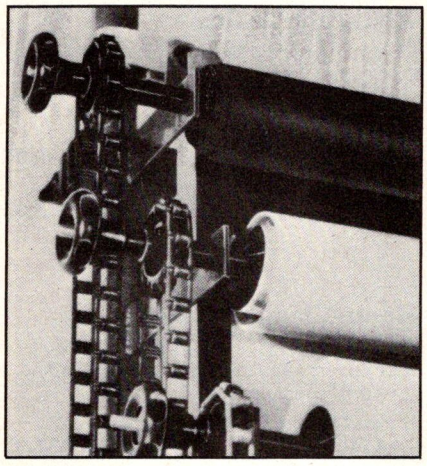
12″ x 12″ **BR3002** **$34.95**
18″ x 18″ **BR3004** **$49.95**



Portable Modeling Light

The Portable Modeling Light comes with a 6′ line cord, a 100w lamp, housed in a polished reflector and an adapter that can be clamped onto any umbrella shaft up to 3/8″ in diameter. GE BHH lamp included. Current draw: 1.1 amps. Dimensions: 3½″ x 3½″ x 5″. Weight 1 lb. **LA4200** . . . **$31.95**

Background Supports and Accessories



The Complete Bogen Auto-Pole System

Combines Bogen's efficient and sturdy Auto-Pole background supports, which are adjustable from 77¾" to 11' 4" (without optional extension set), and the exclusive Expan drive system. Auto-Pole supports feature the patented automatic lever-action-locking which takes the work out of setting up background poles. Just put each pole in place, raise the top section so it touches your ceiling and let the lever-action-lock do the work. Expan Drive system features a chain operated background paper drive for quick and easy access with adjustable tension drag. May be used with cored or uncored seamless roles. System includes one set of auto-poles, background holder hook set and 3 Expan drive sets. **BG4112** **$229.95**

Bogen Auto-Pole Set

Adjustable from 77¾ to 11' 4" (will accept optional 59" extensions) 4.75 lbs each, lower section 45mm diameter, upper section 40mm diameter. Set of two.
BG4110 ..... **$89.95**
1.5 M (59") Extension Set
BG4156 ..... **$36.95**

Expan Drive Set

Consists of two expandable core units (for one roll of background paper) and nylon link chain for convenient raising and lowering of background. **BG4150** **$34.95**

Alu-Core

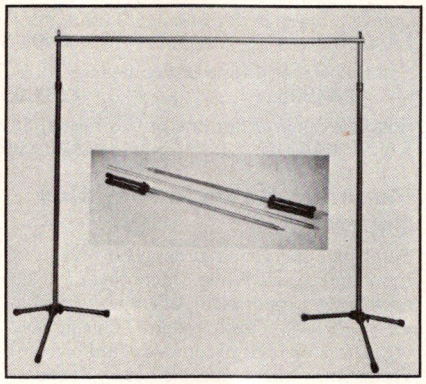
Permits use of uncored 107" background paper rolls. Consists of two telescoping sections with rubberized stabilizer ring. Screws into Expan units to make a permanent reusable core. **BG4155** **$34.95**

Background Holder Hook Set

Holds three rolls of background paper. May be mounted directly to wall or used with Auto-pole system. Set of two.
BG4160 ..... **$18.95**

Bogen Super Clamp

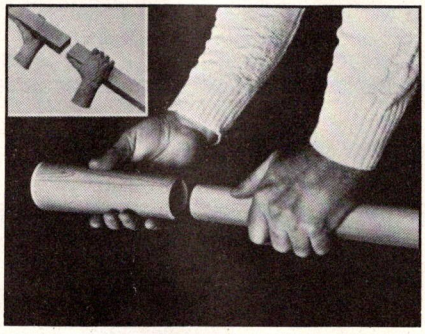
BG4210 ..... **$19.95**



Welt Background Support Outfit

A free-standing portable background support outfit requiring no nuts, bolts or washers. Variable height and width with folding steel tripod legs.

Safelock BG-115 Outfit. Two stands, max. height 8'4'. One telescoping paper support, max length 115'. **WE3910** **$89.95**

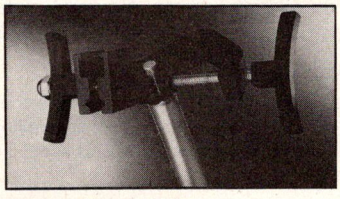


Round Timber Topper®

Fits 1⅝" diameter closet pole. Made of kiln dried wood. **BE1050** **$5.95**

Timber Topper®

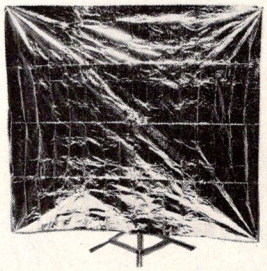
A steel sleeve 8" long which fits over the end of the standard 2" x 3", sold by most lumberyards. Powerful lifetime spring holds the 2" x 3" firmly between floor and ceiling.
BE1055 ..... **$6.95**



Calumet Stand Clamp

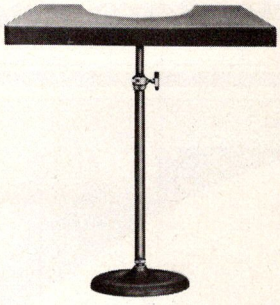
Attaches to any light stand, tripod or Lightform Panel. Spring loaded accessory clamp will hold umbrellas, mounting studs, or L-Bracket (below). Black anodized aluminum extruded clamp has a Lifetime Guarantee. (Mfg. by Berry Photo Products)
CC2000 ..... **$24.95**

Calumet L-Bracket. 9" Black Aluminum bracket adapts to Banana Stand Clamp and features 2 shoe mounts, ⅜" umbrella receptacle and ¼"-20 mounts at either end.
CC2010 ..... **$19.95**



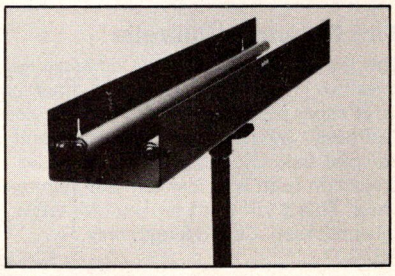
Rosco Bounce Paks

Tough, lightweight, metallic coated polyester reflectors. Compact pocket size pack unfolds to 48" x 56". X-frame not included.
Rosco Pak F w/highly reflective silver surface with soft white surface on reverse side.
SV4470 ..... **$12.95**
Rosco Pak B w/metalized blue surface.
SV4471 ..... **$12.95**
Rosco Pak G w/metalized gold surface.
SV4473 ..... **$12.95**
Rosco Pak X-Frame—mounts to and ⅜" to ⅝ stand **SV4410** **$34.95**



Tony Posing Table

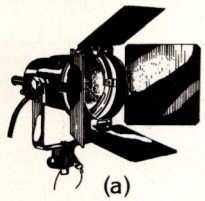
Height can be adjusted from 28" to 48". Construction of table: plywood covered with green felt. Chrome plated column is mounted on a round iron base.
PG2210 ..... **$149.95**



Mini-Background Roller Trough

A Simple, effective holder of Background paper rolls up to 6 feet Wide. Supplied with hardware to mount to any ⅜" or ½" lightstand.
AA1800 ..... **$49.95**

Smith Victor Lighting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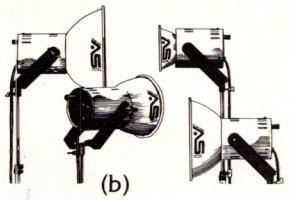
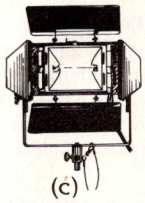
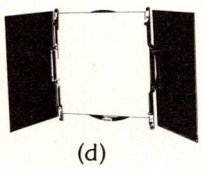
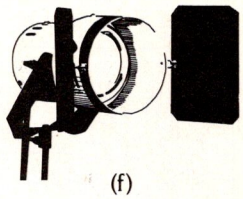

(b)


(c)


(d)


(f)

NEW PL Studio Lights

Feature 55% greater light output than-ordinary wire-brushed reflectors. Aluminum-power base for optimum heat dissipation, and swivel yoke mount with handle.

PL12 12″ Reflector yields 60° beam when used with 500 W photo lamp.
SV3860 ..... **$51.95**

PL10 10″ Reflector yields 50° beam when used with 250 W photo lamp.
SV3865 ..... **$43.95**

PL8 8″ Reflector yields broad 100° beam when used with 500 W photolamp.
SV3870 ..... **$43.95**

Ultra Cool Studio Lights (b)

Designed to perform at a much lower operating temperature than conventional units, with integral baffles and vents for excellent heat dissipation.

A50 5″ Reflector yields 60° beam when equipped with 250W lamp. UL listed.
SV3810 ..... **$37.95**

A80 8″ Reflector yields broad, flat 100° beam when used with 500W lamp. UL listed.
SV3812 ..... **$37.95**

A100 10″ Reflector yields 50° beam when used with 250W lamp. UL listed.
SV3814 ..... **$37.95**

A120 12″ Reflector yields 60° beam when used with 500W lamp. UL listed.
SV3816 ..... **$45.95**

A160 16″ Reflector yields 60° beam when used with 1000W mogul base lamp.
SV3820 ..... **$87.95**

Barndoors for PL and Ultra Cool Lights (d)

2-leaf Barn Doors with rolling rim mounts.

BD50 fits A5, A50 **SV4313** **$24.95**

BD80 fits A8UL, A80, PL8
SV4315 ..... **$26.95**

BD100 fits A10UL-A, A10UL, 90UL, 910UL, A100, PL10 **SV4317** **$34.95**

BD120 fits A12UL, A120, Q120, Q125, PL12 **SV4319** **$36.95**

BD160 fits A160 **SV4321** **$59.95**

Lamps for PL and Ultra Cool Studio Lights

ECA 250 watt 3200° K **GE4100** ... **$2.75**

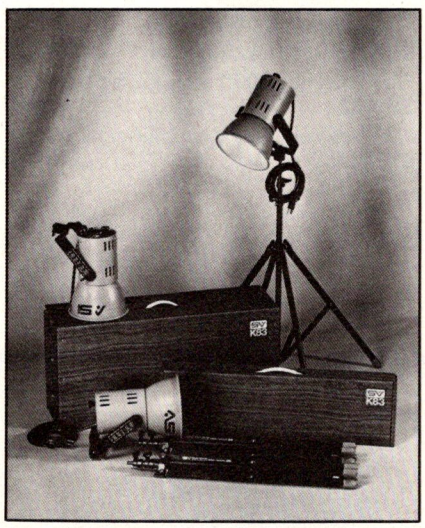
ECT 500 watt 3200° K **SY4025** ... **$2.75**

ECV 1000 watt 3200° K
GE4120 ..... **$16.95**

PHOTOFLOOD KITS

K6R 1250 Watt Portrait Kit

Includes the following: one A5 5″ reflector, socket and cord assembly, 2 A10UL 10½″ reflectors, sockets and cord assemblies, one 250W 3200° K photo lamp; two 500W 3200° K photo lamps; three S7 6′ steel stands, one storage and carrying case.
SV3515 ..... **$127.95**



K83 1500 Watt Photoflood Location Kit

Includes 3-A80 ultra cool studio lights, 3 ECT lamps, 3-S9 4-leg 6′ steel stands, 1 light case, and 1 stand case.
SV3520 ..... **$199.95**

Smith Victor Lexan® Diffusion Screens

DP10 fits A10UL-A, A100, 900UL, 910HUL.
SV4510 ..... **$14.95**

DP12 fits A12UL, A120, Q120, Q125.
SV4513 ..... **$18.95**

DP16 fits A160 **SV4515** **$24.95**

Professional Quartz 710 & 720 (a)

Professional focusing quartz light units. Rear mounted focusing lever allows easy flood to spot control. Double wall vented aluminum construction with spun aluminum reflector. 10′ 3 wire grounded cable with in line switch. ⅜-⅝″ mounting.

710 (requires 600 watt DYH lamp.)
SV3920 ..... **$95.95**

720 (requires 1000 watt FBY lamp.)
SV3930 ..... **$112.95**

Barn Door for 710 **SV3921** **$31.95**

Single Scrim for 710 **SV3922** **$11.95**

Barn Door for 720 **SV3931** **$39.95**

Single Scrim for 720 **SV3932** **$14.95**

DYH 600 W 3200° K Lamp
SY3063 ..... **$23.95**

FBY 1000 W 3200° K Lamp
SY6017 ..... **$34.95**

750 Broad Light (c)

This 1000 watt quartz broad light provides rectangular, flat, even fill illumination over large areas. Permanently attached 4-leaf barn doors. Large insulated handle for easy adjustment. 10′ 3 wire grounded cable with in line switch. ⅜″ to ⅝″ mounting.

750 (requires 1000 watt FHM lamp.)
SV3950 ..... **$129.95**

Single Scrim for 750 **SV3952** **$12.95**

FHM 1000 W 3200° K Lamp
SY6040 ..... **$28.95**

K2R 1800 Quartz Location Kit

Includes 3-700 quartz lights. 3-DYH lamps, 3-S6R 6′ stands, and carrying case.
SV3500 ..... **$236.95**

Smith Victor Quartz Unit Q60 (f)

General purpose 600 watt unit with baffled and vented construction for cool operation. Comes with permanently attached 2-leaf barn doors.

Specifications:

- Rating: 120V-5.4 amps @ 600 watts
- Requires DYS 600 watt lamp
- Cable: 10′, 3-wire grounded
- Mounting: Universal–⅜″ x to ⅝″

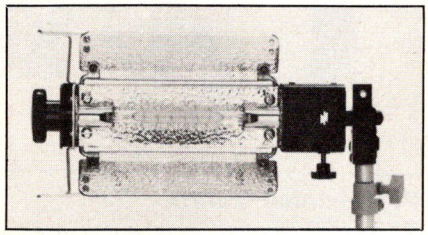
SV3910 ..... **$55.95**

DYS 600 W 3200° K Lamp
SY3065 ..... **$18.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Quartz Lighting

Lowel Tota-light



Lowel Tota-light

The Tota-light is exceptionally compact and delivers extraordinarily wide angle yet efficient illumination. Weighs only 22 ozs. without cable. With 16′ cable and switch, less lamp. **LW1000** **$84.95**

Accessories for Tota-light

Tota-frame—holds 12″ gels, locks into light. **LW3010** **$21.95**

Tota-brella—27″ umbrella locks directly into light. **LW3015** **$26.95**

Flexi-shaft—lightweight, flexible arms snap/lock into fittings on Tota-Light, Tota-Clamp, Tota-Tatch, and Tota-dapter. 16″ Flexi-shaft **LW3030** **$15.95**

Tota-Clamp—clamps onto objects to 1⅞″, has ⅝″ stud and ¼-20 socket. Accepts 2 Flexi-shafts. **LW3070** **$17.95**

Tota-Tach—small spring clip accepts Flexi-shaft **LW3020** **$10.95**

Tota-dapter—provides two Flexi-shaft sockets for light stands up to ⅝″. **LW3090** **$14.95**

Tota-flag—8 x 12″ shadow control panel snaps onto Flexi-Shaft. **LW3040** **$14.95**

Tota-flector—8 x 12″ reflecting panel snaps onto Flexi-shaft. **LW3060** **$19.95**

FDN 500 watt 3200° lamp **SY6025** **$26.95**

EJG 750 watt 3200° lamp **SY4032** **$34.95**

FHM 1000 watt 3200° lamp **SY6040** **$28.95**

Lowel Omni-Light

The Omni-light is a focusing unit with smooth beam patterns. Spot/flood range is 11:1. Weighs 27 ozs. without cable. Uses 650, 600, and 420 watt T. H. lamps. With 16′ cable and switch, less lamp. **LW1005** **$99.95**

Accessories for Omni-Light

Complete barndoor, holds 2 acc., joins 2 snoots. **LW3140** **$45.95**

Dichroic filter, converts 3200° to avg. daylight (glass) **LW3165** **$69.95**

Snoot **LW3175** **$23.95**

Full scrim reduces light approx. 1 stop **LW3180** **$11.95**

DYS 600 watt 3200° lamp **SY3065** **$17.95**

Lowel DP Light

The DP light has a 7:1 focusing range with a smooth transition between its flood and spot positions. Weighs 3 lbs., 14 ozs., with built-in cable. Uses 1000, 750, and 500 watt T.H. lamps. Less lamp. **LW3500** **$109.95**

FEL 1000 watt 3200° lamp for DP light. **SY6045** **$42.95**

Lowel Softlight 2

The New Softlight 2 provides large-source indirect illumination. Uses two 500, 750, or 1000 watt. T.H. lamps. Weighs 8 lbs. with cable. Less lamps. **LW2500** **$214.95**

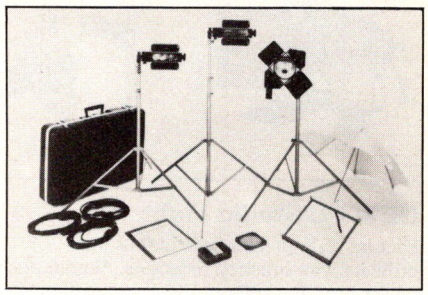
Accessories for Softlight

Barndoor set LW2505 . . . . . **$69.95**

EJG 750 watt 3200°k lamp (2 required) **SY4032** **$34.95**

FDF 500 watt 3200°k lamp (2 required) **SY6024** **$27.95**

Lowel Light Kits



Carry-on Kit

(3) Tota-lights, 16′ Cables (less lamps); (3) Tota-Frames; Assorted Gels; (3) Tota-Flags; (1) Tota-Flector; (4) Flexishafts; (1) Tota-Mount; (1) Tota-Clamp; (1) small Space Clamp; (1) 12 yard gaffer tape; (1) Tota-Lampak; (1) Tota-Case. Total weight 17 lbs. **LW4000** **$549.95**

Trans-Kit

(3) Tota-Lights, 16′ Cables (less lamps); (3) Tota-Brellas; (3) Omni 9′ Stands; (1) Tota-Lampak; (1) Tota/Omni Molded Case. Total weight 29 lbs. **LW4005** **$599.95**

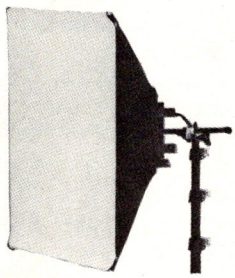
Basically 3 Kit

(2) Tota-Lights, 16′ Cables (less lamps); (1) Omni-Light, 16′ Cable, #1 Reflector (less lamp); (1) Omni-Barndoor; (1) Full Scrim; (1) Tota-Brella; (1) Tota-Frame; Assorted Gels; (3) Omni 9′ Stands; (1) Tota/Omni Lampak; (1) Case. Total weight 28 lbs. **LW4010** **$649.95**

DP 3 Kit

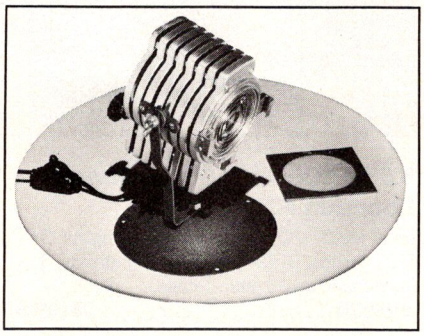
(3) DP Lights; #1 Reflector (less lamps); (3) DP Barndoors; (3) KS 9′ Stands; (1) DP Lampak; (1) Multi Case. Total weight 43 lbs. **LW4020** **$819.95**

Calumet carries a complete line of Lowel lighting products. Call for price and availability.



Soff Box® Quartz

The Soff Box® Quartz renders a fantastic illumination with virtually no heat discomfort at any distance. The heat accumulates safely inside and is vented away from the subject. **Universal Soff Box® Quartz** will fit most movie and video lights as well as Smith Victor 710 and 720 quartz lights. Measures 24″ x 24″. (Light and stand not included) **LA4380** **$109.95**



Photogenic 7800 Mini-Spot

This is the "standard of the industry" for a small, powerful, all-purpose spotlight. Supplied w/o lamp. **PG2100** **$92.95**

Mini-Spot Accessories

Diffuser (7801) **PG2104** **$4.95**

Snoots, set of 2 (7802) **PG2106** **$20.95**

Barndoors (7804) **PG2108** **$29.95**

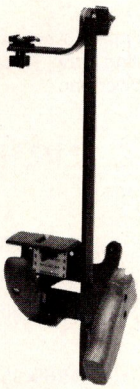
BEC 150 WT 3100° Lamp **SY1035** **$15.95**

BEJ 200 WT 3150° Lamp **SY1040** **$12.95**

FEV 200 WT 3200° Quartz Lamp **SY6032** **$23.50**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Flash Brackets and P.C. Cords



Stroboframe R4A

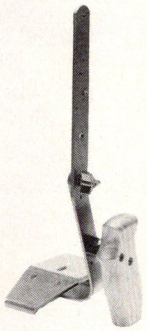
The Stroboframe R4A keeps the flash directly above the lens to eliminate red eye and throw the person's shadow down and behind, out of view of the camera. This unit comes with a single grip located right below the lens, the optional side grip attaches below the side pole and can be fitted with a cable release (sold separately.)

The Stroboframe R4A fits most 35mm. 6 x 4.5, 6 x 6, 6 x 7 cameras. It will not fit twin lens reflex and other waist viewing cameras.

Construction: Black anodized aluminum frame, oiled walnut grips. Rotary link permits rapid camera movement from horizontal to vertical format.

Stroboframe R4A w/single grip (adapter and side grip not included)
SO7000 . . . . . **$46.95**

Stroboframe R66a



Designed exclusively for square format cameras. (i.e. frame does not feature the vertaflip). Comes complete with walnut side grip and will accept all Stroboframe adaptors and accessories. 3" square cork-covered base. (Requires adapter to mount flash.)
SO7003 . . . . . **$44.95**

Stroboframe R7

Similar to R4a, but more compact. The R7 features a thicker vertical arm to handle heavier handle-type strobes, and Rotary-Link vertaflip. Note: the R7 will not stand up by itself with a camera mounted. (Requires adapter to mount flash.)
SO7001 . . . . . **$54.95**

Stroboframe Accessories

Quick Release Flash Adapter 401 fits Honeywell type clips **SO7002** **$6.95**

Handle Type Flash Adapter 402, fits handle type flash units **SO7004** **$8.95**

Separate Head Flash Adapter 403, fits separate head type flash units(i.e. Lumedyne)
SO7006 . . . . . **$7.95**

Shoe Mount Flash Adapter 404, fits shoe mount flash units **SO7008** **$9.95**

Side-Grip fits Stroboframe R4A, R7
SO7010 . . . . . **$14.95**

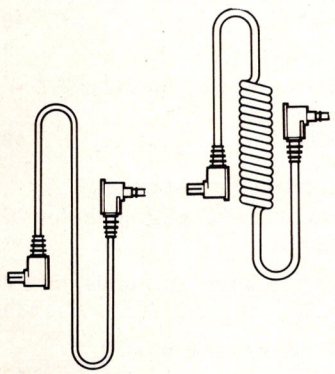
Accessory Shoe for remote sensors
SO7012 . . . . . **$4.95**

Off Center Tripod Socket Adapter for cameras with off center tripod mounts
SO7014 . . . . . **$6.95**

Cable Release for use with side grip
SO7016 . . . . . **$7.95**

Diffusalite for use with Stroboframe R4A.

This attachment is so efficient that you lose only about 1 f-stop. Comes with conical shaped metalized reflector, diffuser disk and bracket to attach it to Stroboframe R4.
SO7018 . . . . . **$28.95**



Para-Mount Synch Cords

Coiled Cords

Household to bipost, 5 ft.
PN1005 . . . . . **$8.95**

Household to PC, 5 ft. **PN1008** **$8.95**

Household to PC, 15 ft.
PN1010 . . . . . **$17.95**

Household to Rollei lock, 5 ft.
PN1013 . . . . . **$8.95**

PC to Rollei lock, 5 ft. **PN1021** **$8.95**

Household to Nikon lock, 5 ft.
PN1015 . . . . . **$9.95**

PC to PC extension male to female, 6 ft.
PN1023 . . . . . **$8.95**

PC to Vivitar 283-292 or Minolta Auto 25, 4 ft. **PN1033** **$8.95**

Vivitar to Nikon F2, 6 ft.
PN1035 . . . . . **$9.95**

Straight Cords

Household to PC, 1 ft. **PN2005** **$6.95**

Household to PC, 10 ft. **PN2015** . . . **$8.95**

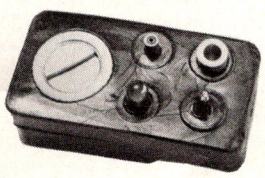
Household to PC, 15 ft. **PN2018** . . . **$9.95**

Manual Tripper, 1 ft. **PN2020** **$8.95**

Household male to female extension, 10 ft.
PN2025 . . . . . **$8.95**

Slave to PC female adapter
PN3005 . . . . . **$7.95**

Slave to plug adapter **PN3010** **$7.95**



P.C. Tester and Maintenance Kit

The P.C. Cord Tester and Maintenance Kit is a multi-functional device that eliminates many annoying problems when using photographic sync cords. This kit electrically tests all types of sync cords for shorts, opens, and intermittants, brush cleans P.C. contacts, tightens P.C. tips for better contact, and checks cords under stress. Batteries included. **PN2600** **$24.95**

P.C. Tip Conditioner

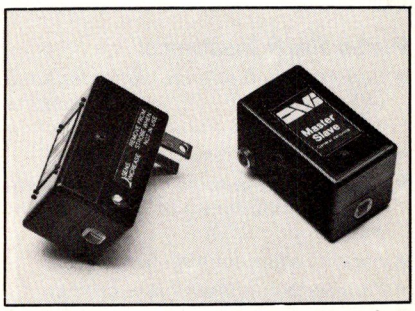
No more need for crimping PC tip with pliers—or biting it to make a tighter fit. Our device will keep your tip always snug fitting, as well as "in round." Small enough to be carried in your pocket. A must for the professional. **PN2500** **$4.95**

Slave Units

Gold Dome. Remote triggering device for electronic flash. Parallel blade connector. Range 200 feet. **AR2200** **$29.95**

Green Dome. Remote triggering device for electronic flash. Parallel blade connector. Range 30 feet. **AR2100** **$21.95**

Vivitar SL-2 Remote Flash Trigger with rotating hot shoe. PC connection.
VR4573 . . . . . **$24.95**



GVI Master Slave

Operates under all lighting conditions, can be triggered by a 50 w/s strobe at 400', has a sensitivity adjustment and is insensitive to flash bulbs (less 9V battery).2 - Blade plug.
GV1000 . . . . . **$69.95**

Broncolor Pulso

Broncolor Pulso

Broncolor Pulso sets new standards for professional electronic flash systems. Microprocessors afford a wider range of precise lighting control and new technical functions provide a level of working ease and efficiency never before achieved. The system comprises three new combinable power packs of different outputs together with a new range of co ordinated lampheads and accessories that cater for every conceivable requirement.

Pulso Pack Features:

- Selection of 40 different brightness values. (4 f-stop range in 1/10 f-stop increments switchable to 1/3 f-stop increments)
- Proportional modeling lamp control
- Guaranteed repeatable exposures (Microelectronic stabilization of each flash to within + or − 1%)
- Acoustic signal for flash head failure
- Programable multi-exposure counter
- Audio and visual flash ready signal
- Digital LED display of flash power
- Touch button controls (no mechanical switches)

Call or write for complete Pulso price list.

Pulso 2

- Flash power: 1600 J
- f64 1/3 at 2m distance (100 ASA reflector P 65)
- 4 symmetrical lamphead outlets
- Flash duration: 1/600 to 1/2000 sec.
- Recycle rate: 0.5 to 1.9 sec.
- Weight: 26½ lbs.

BC5002..... **$2769.00**

Pulso 4

- Flash power: 3200 J
- f90 1/3 at 2m distance (100 ASA reflector P 65)
- 4 symmetrical lamphead outlets
- Flash duration: 1/300 to 1/1000 sec.
- Recycle rate: 0.7 to 3.6 sec.
- Weight: 33 lbs.

BC5004..... **$4349.00**

Pulso 8

- Flash power: 6400 J
- f128 1/3 at 2m distance (100 ASA reflector P 65)
- 4 symmetrical lamphead outlets
- Flash duration: 1/230 to 1/800 sec.
- Recycle rate: 0.9 to 4.8 sec.
- Weight: 46⅓ lbs.

BC5006..... **$6559.00**

Pulso Flash Heads

reflector, Fan cooled heads supplied without reflector flash tube and modeling lamp. Also compatable with Flashman power pack.

Pulso 2 Head
BC6000..... **$379.95**

(requires UV protection glass)
Pulso 4 Head
BC6002..... **$421.95**

Pulso 8 Head
BC6004..... **$544.95**

Pulso Twin Head
BC6006..... **$569.95**

Pulso 2 Flashtube 1600 WB
BC7000..... **$269.95**

Pulso 4 Flashtube 3200 WS
BC7002..... **$395.95**

Pulso 8 Flashtube 6400 WS
BC7004..... **$709.95**

Pulso Twin Flashtube
BC7006..... **$479.95**

Pulso 4 UV Protection Glass
BC7010..... **$79.95**

Reflector P65
Standard reflector for Pulso 8
BC6100..... **$99.95**

Reflector P70
Standard reflector for Pulso 2 & 4 and umbrella use.
BC6102..... **$84.95**

Reflector Accessories

Honeycomb (set of 3 grids) for P65
BC6200..... **$199.95**

Honeycomb (set of 3 grids) for P70
BC6202..... **$145.95**

Umbrella Bracket for P70
BC6212..... **$37.95**

Broncolor Pulsoflex Reflectors

A completely new range of collapsible portable soft reflectors for every application. Just as much at home in the studio or on location. Light outputs with Pulsoflex reflectors are very high as the units suffer little loss or spillage compared to other reflectors. Easy and simple to erect, small and compact when collapsed for transport.

Pulsoflex 80 (31½ x 31½ in.)
BC6502..... **$245.95**

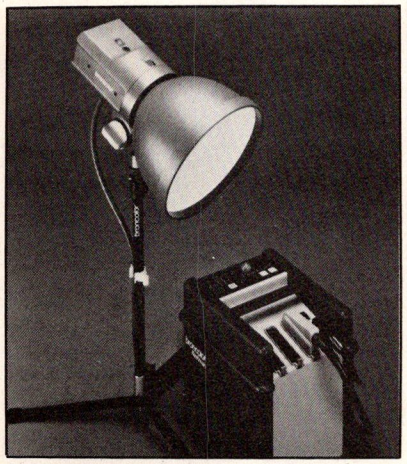
Pulsoflex 110 (43½ x 43½ in.)
BC6504..... **$345.95**

Pulsoflex 12 x 43 in.
BC6514..... **$225.95**

Broncolor Reflectors

The Broncolor System includes a wide variety of Flash Heads Boxlites, and reflectors including Hazylight, Cumulite, Striplight, Spot and more. Please call Calumet for details on the lighting accessory that best suits your needs.

Broncolor Flashman



Broncolor Flashman

High-speed flash, fast recycling, and easy mobility characterize the new Flashman system. This tough rugged power pack gives you Bronocolor quality and performance at a very affordable price.

Flashman Specifications

- Flash power: 950 J
- f45 1/3 at 2m distance (100 ASA reflector P 65)
- 3 symmetrical lamphead outlets
- Flash duration: 1/800 to 1/1700 sec.
- Recycle rate: 0.5 to 1 sec.
- Weight: 15.4 lbs.

BC5000 . . . . . **$1095.00**

Flashman 2 Head Package

This economical entry into the Broncolor system includes: One Flashman power pack, two Universal flash heads, two 1500 WS flash tubes, two 250 Watt modeling lamps, and two standard reflectors.

BC0050 . . . . . **$1999.00**

Flashman Universal Flash Head

Convection cooled with focusing adjustment for flash tube. Flash tube & modeling lamp not included. BC1000 . . . . . **$327.95**

1500 WS Flash tube

BC3006 . . . . . **$239.95**

250 Watt Quartz Modeling Lamp

SY4035 . . . . . **$24.95**

Broncolor Impact

Broncolor Impact

The Broncolor Impact Flash line represents an ingenious lighting system tailored to the practical requirements of todays modern photographer. The compact lightweight design and powerful performance of the Impact flash units are ideal for portrait, still life and advertising photography, also when ease of use and portability are crucial, such as on location or in industrial commercial situations. Impact flash units are available in kits with convenient carrying cases to accomodate appropriate equipment for optimum versatility.

Impact 21

- Specifications:
- f22 at 2m (for ASA 100 with standard 50 degree reflector)
- Flash duration: 1/2000 sec.
- Recycle time: (100%) 1.3 to 2.3 sec.
- Weight: 6½ lbs.
- Flash tube and modeling lamp included.

IM1000 . . . . . **$324.95**

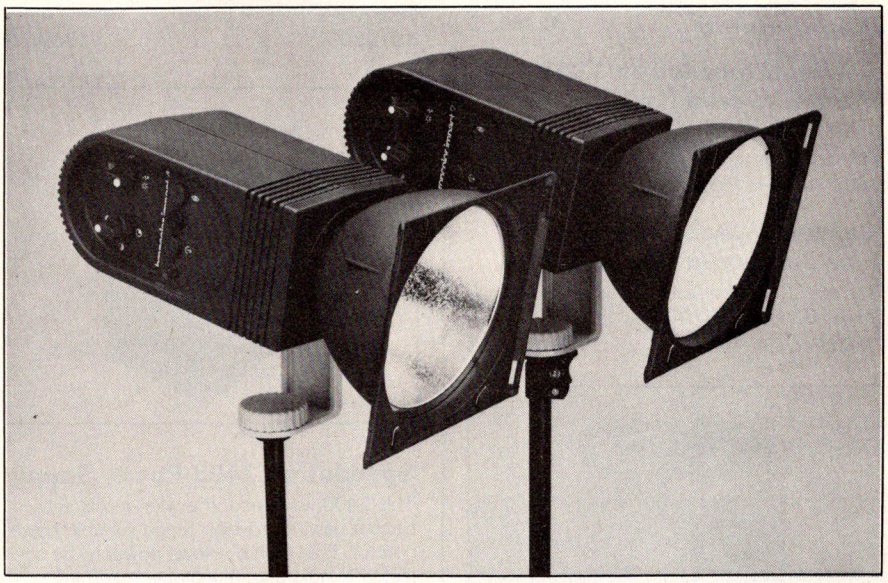
Impact 41

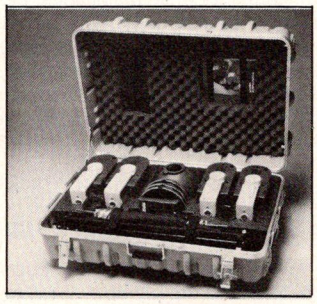
- Specifications:
- f32 at 2m (for ASA 100 with standard 50 degree reflector)
- Flash duration: 1/1000 sec.
- Recycle time: (100%) 0.8 to 2.3 sec.
- Weight: 7½ lbs.
- Flash tube and modeling lamp included.

IM1010 . . . . . **$544.95**

U.S.A.

★Official U.S.A. Distributor Warranty.
★Complete Factory Packaging.





Impact expert Kit

Includes: 3 Impact 41 units, 2 standard reflectors, 1 Impaflex 60, 1 silver umbrella, 1 umbrella reflector, 2 sets of barndoors, 1 honeycomb set of 3, 1 color filter set of 12, 1 IRI transmitter, 3 stands, 1 sync cable, and 1 heavy-duty carrying case.

IM1130 . . . . . **$2750.00**

Impact Standard Kit

Includes: 2 Impact 21 units, 1 sync cable, 2 standard reflectors, 2 stands, and 1 heavy-duty carrying case. IM1105 . . . **$1099.00**

Impact Super Classic Kit

Includes: 2 Impact 21 units, 2 Impact 41 units, 4 stands, 1 silver umbrella, 1 umbrella reflector, 1 standard silver reflector, 1 standard white reflector, 1 set of barndoors, 1 Impaflex 60, 1 honeycomb set of 3, 1 diffusion set of 12, 1 sync cable, 1 IRI transmitter, 1 color filter set of 12, and 1 heavy-duty carrying case. IM1120 . . . . . **$2850.00**

Call or write for complete Impact price list

Speedotron Black Line

Calumet/Speedotron 2401 Flash/Umbrella Package

1 Speedotron 2401 Power Supply **SB1020**

2 Speedotron 102 Heads w/7" Reflectors **SB1105**

1 Speedotron 102 Head w/11" Reflector **SB1102**

3 Calumet Heavy Duty Light Stands **MF3400**

2 Calumet 44" Umbrellas **AU3007**

Total Package Price. $2289.95

Calumet/Speedotron 1201 Flash/Umbrella Package

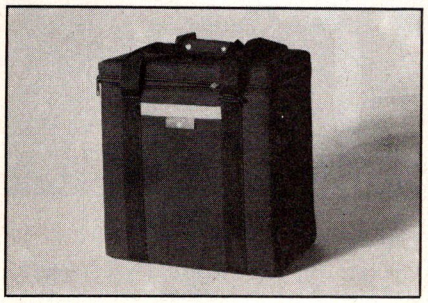
Same as 2401, but with Speedotron 1201 Power Supply **SB1010**

Total Package Price. $1929.95

Calumet/Speedotron 812 Flash/Umbrella Package

Same as 2401, but with Speedotron 812 Power Supply **SB1001**

Total Package Price. $1639.95



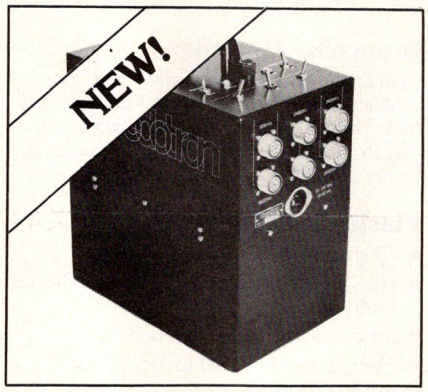
New Lightware™ Case for 2401-2403

This case was specifically designed for shipping or airline checking of Speedotron 2401-3 Power Supplies. However, because of its amazing durability and shock protection, we would recommend it for "anything". Exterior is tough Ballistics cloth; interior is lined with durable 1" high density closed cell foam. Interior dimensions: 9" x 14½" x 15½" × (H). Weight: 3 lbs. 14 oz.

LI1000. . . . . $195.00

Padded Shoulder Strap for Lightware™ Case

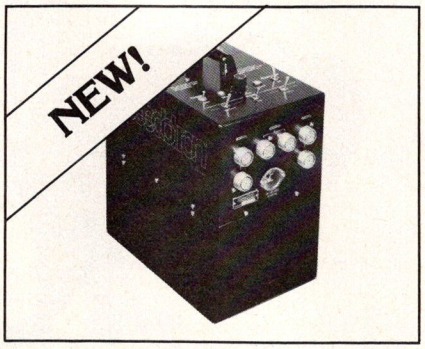
LI1005. . . . . $19.95



Speedotron 4803 Power Supply

State-of-the-art technology has made it possible to pack 4800 watt-seconds into the same size housing as the 2403. The 4803 features super high power, fast 4 sec/full power recycle, variable-ratioed output and 4 f-stop range variable power control. Accepts all Black Line light units. Six arc-protected outlets provide power to as many as four standard light units, two 106 light units or any combination of these. Weight is 43 lbs. Size: 8¾" x 13¾" x 14¼".

SB1050. . . . . $1889.95



Speedotron 2403 Power Supply

This 2400 watt-second power supply features a new, four f-stop range variable power control. This control allows power to be selected in accurate, repeatable one-third f-stop increments while maintaining desired ratios over the entire range. This provides a single head output range of 2400 to 50 watt-seconds. Features 6 arc-protected outlets, 2 ratioed channels, fast 2 second/full power recycle and audible-ready indicator. Weight is 42 lbs. **SB1022. . . . . $1439.95**

2401 Power Supply. 2400 WS, 6 outlets, ratioed, 2 second recycle time at full power. 36 lbs. **SB1020. . . . . $1294.95**

1201 Power Supply. 1200 WS, 6 outlets, ratioed, 1 second recycle time at full power. 23 lbs. **SB1010. . . . . $939.95**

812 Power Supply. 800 WS, 4 outlets, asymmetrical, 0.6 second recycle time at full power. **SB1001. . . . . $648.95**

106 Light Unit with 11½" Reflector

This 5000 watt-second rated light unit is designed for use in the special power outlets of the 4803 power supply. More economical and convenient than multi-tube light units, the 106 is designed to handle fast firing rates, even at full power. This fan cooled head comes complete with a 250 watt quartz halogen modeling lamp and a 5000 watt-second rated quartz flash tube. At 4800 watt-seconds, the 106 has a flash duration of 1/250 seconds (at 2400 ws: 1/425 sec.).

SB1110. . . . . $395.95

105 Light Unit—New

This special purpose light unit will allow 9600 watt-seconds to be delivered by four 2400 or two 4800 watt-second power supplies. Each of its four plug-in flash tubes will handle a full 2400 watt-seconds through its own dedicated cable. Flash durations range from 1/1000 sec. (2400Ws) to 1/435 sec. (9600Ws). The 105 comes complete with a 250 watt quartz halogen modeling lamp, four 2400Ws flash tubes, four 20 ft. power cables and an accessory mounting collar.

SB1107. . . . . $849.95

102 Light Unit—with 11½" reflector. Universal light head with 3200 WS plug-in-vented flash tube and quiet, high-efficiency cooling fan. 250 watt quartz modeling lamp included. **SB1102. . . . . $269.95**

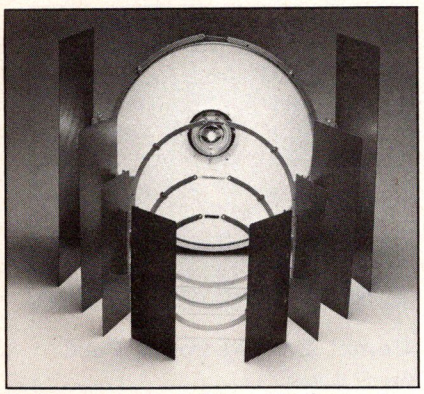
102 Light Unit as above except with 7" reflector. **SB1105. . . . . $269.95**

103 Light Unit—with 11½" reflector. Universal light head with 2400 WS plug-in flash tube and quiet convection cooling. 150 watt quartz modeling lamp included.

SB1103. . . . . $249.95

104 Light Unit—with 11½" reflector. Universal Quad light unit with four 1200 WS plug-in type flash tubes and forced-air cooling. Intended for high-powered, shorter flash duration applications. Features two head cables which allow up to 4800 WS of power to be used. 250 watt quartz modeling lamp included. **SB1104. . . . . $564.95**

Speedotron Accessories



Reflectors and Accessories

Black Line Reflectors

7 in. **SB1207** **$18.95**
11½ in. **SB1211** **$21.95**
16 in. **SB1216** **$23.95**
20 in. **SB1220** **$33.95**
NEW 7 in. 45° for 102 Head.
SB1225 ..... **$21.95**

Black Line Barn Doors

for 7″ reflector **SB1307** **$24.95**
for 11½″ reflector **SB1311** **$33.95**
for 16″ reflector **SB1316** **$46.95**

Black and Brown Line Mylar Clip-on Diffusers

7 in. **SB1407** **$7.95**
8½ in. **SB1409** **$7.95**
11½ in. **SB1411** **$11.95**
16 in. **SB1416** **$15.95**
20 in. **SB1420** **$15.95**

Miscellaneous Black Line Accessories

Universal Snoot for 7″ reflector (2½″ opening) **SB1451** **$18.95**
Flashtube protective cover (for all Universal heads) **SB1460** **$16.95**

Brown Line Reflectors for M11 and M11Q

7″ Universal **SB34C7** **$18.95**
11½″ Universal **SB3411** **$21.95**
16″ Universal **SB3416** **$23.95**
20″ Universal **SB3420** **$33.95**

Brown Line Barn Doors

For 5½″ reflector **SB3465** **$23.95**
For 8½″ reflector **SB3470** **$27.95**

Miscellaneous Brown Line Accessories

2″ Snoot for MW3R **SB3480** **$13.95**
3″ Snoot for MW3R **SB3482** **$13.95**
Snoot for M90 **SB3485** **$18.95**
Protective tube cover for M11
SB3455 ..... **$17.95**
Flood adapter for M90 (increases angle of coverage to 110°) **SB3460** **$7.95**
Grid spot for 7″ reflectors
SB1226 ..... **$29.95**

Slave tripper

Remote light-sensitive electronic switch plugs into syne socket of power supply.
SB1650 ..... **$18.95**

New Speedotron Gel Holders (For both Black and Brown Line)

8½″ Gel holder **SB1470** **$9.95**
7″ Gel holder **SB1471** **$9.95**
11½″ Gel holder **SB1472** **$14.95**
16″ Gel holder **SB1473** **$19.95**
20″ Gel holder **SB1474** **$19.95**

Speedotron Cases

Omni Case—Measures 35″ x 12″ x 14″, and is rigidly constructed of polyethylene.
SB1510 ..... **$89.95**

Multi Case—Same capacity as Omni case, but built sturdier for shipping.
SB1520 ..... **$239.95**

Transit Case—For 1201A, 2401A, 1211, or 2451 power packs only.
SB1500 ..... **$154.95**

New Heavy Duty Flash Tubes for Speedotron

These tubes have a larger diameter tubing for larger gas volume which leads to longer life and more consistent light output. Larger electrodes cool better and last longer. Ideal for fashion and sports—wherever high power and fast recycle is used consistently.
MW3Q H.D.—for 104 head (rated 2400 WS) **KM1010** **$99.95**
MW 8 QV H.D.—for 102 head (rated 4000 WS) **KM1110** **$125.95**
MW 9 Q H.D.—for 103 head (rated 3200 WS) **KM1210** **$125.95**

Black Line Flash Tubes

MW3Q flashtube, 1200WS (for 104 head)
KM1000 ..... **$81.95**
MW8QV flashtube, 3200WS (for 102 head)
KM1100 ..... **$107.95**
NW8QVC UV flashtube (for 102 Head)
SB1607 ..... **$124.95**
MW9Q flashtube, 2400WS (for 103 head)
KM1200 ..... **$99.95**
150W quartz modeling lamp (for 103 head) **SY4065** **$22.95**
250W quartz modeling lamp (for 102 and 104 heads) **SY4060** **$23.95**

Brown Line Flash Tubes

MW3 flashtube, 400WS
KM1300 ..... **$23.95**
MW9M flashtube, 100WS (for M11)
SB1620 ..... **$54.95**
MW3Q quartz flashtube, 1200WS
SB1600 ..... **$81.95**
MW9Q quartz flashtube, 2400WS (for M11) **SB1610** **$99.95**
25W modeling lamp for M90
SB3515 ..... **$2.95**
60W modeling lamp for MW3R
SB3520 ..... **$2.95**
150W quartz modeling lamp for MW3U, MW3UQ, M11, or M11Q
SY4065 ..... **$22.95**

SPEEDOTRON BROWN LINE FLASH SYSTEMS

DM402-3 Light Flash System

SB3000 ..... **$729.95**
DM402-4 Light Flash System w/o case
SB3005 ..... **$789.95**

DM802 Flash System

SB3010 ..... **$1159.95**

DM1202 Flash System

SB3015 ..... **$1274.95**
DM1602 Flash System
SB3020 ..... **$1349.95**
DM402 Umbrella System
SB3025 ..... **$449.95**
DM802 Umbrella System
SB3030 ..... **$649.95**

Brown Line Components

D1602 Power Supply
SB3216 ..... **$589.95**
D1202 Power Supply
SB3212 ..... **$514.95**
D802 Power Supply
SB3208 ..... **$409.95**
D402 Power Supply
SB3204 ..... **$279.95**
D200 Power Supply
SB3202 ..... **$164.95**
M11Q Head (2400 WS) interchangeable refl.
SB3130 ..... **$249.95**
M11 Head (1000 WS Max.) Interchangeable refl.
SB3125 ..... **$199.95**
M90Q Head (1200 WS Max. Umb. Head)
SB3120 ..... **$167.95**
M90 Head (400 WS Max., Umb. Head)
SB3115 ..... **$112.95**
MW3UQ Head (1200 WS Max., Umb Head)
SB3110 ..... **$174.95**
MW3U Head (400 WS Max., Umb. Head)
SB3105 ..... **$121.95**
MW3R Head (BG or Hairlite Head)
SB3100 ..... **$85.95**
20 Ft. Lite Head Ext. Cord
SB3550 ..... **$39.95**

Comet CX Series Professional Flash System

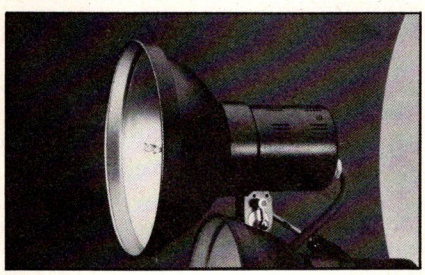
Comet's heavy duty construction combines amazingly lightweight portability with true state-of-the-art technology that offers maximum lighting flexibility for the commercial, industrial, and fashion photographer.

Comet's simple design incorporates many outstanding features—many of which have never been available in a competitively priced flash system—AND is backed with confidence by a 2-year warranty.

POWER PLUS . . .

Comet's CX-244 and CX-124 Power Packs are incredibly compact and lightweight (20.5 and 15.6 pounds respectively); and yet offer full-featured functions, including:

- Continuous variable power output—full to ⅛—coupled with proportional modeling dimmer.
- Symmetrical/asymmetrical power distribution into four output connectors.
- Built-in cooling fan and over-heat warning system.
- True non-arching plugs.
- Simple, locking, snap-on flash head connectors.
- Quick/slow recycle selection with variable charging control to adapt to available amperage (15–25 amps.).
- Audible/visual charge monitors.
- Built-in output stabilizer.
- 2 synch cord sockets for simultaneous camera/flash meter hook-up.
- Built-in photo slave.

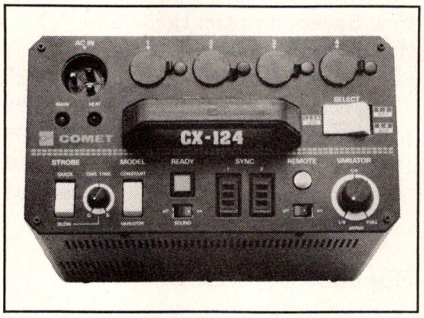


BRIGHT IDEAS . . .

Comet's innovative design concepts don't stop at the power packs, but continue through their heavy duty, high-flex cables and into their superbly constructed CX flash heads. These lightweight heads, designed with the photographer in mind, feature:

- Detachable cables for easy storage.
- Internal cooling fan.
- Modeling lamp switch.
- 5500 deg. K flashtube is user replaceable.
- 250 W Quartz Halogen modeling lamp.
- Pan/tilt head control.
- Easy change reflectors.
- Come complete with protective flashtube cover and modeling lamp diffusor.

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.



Comet CX-124 Power Pack

Specifications:

- Flash Power—1200 watt seconds
- Recycling Time—(Quick/Full Power) 1.1 sec. (Slow) 10–15 sec.
- Variator—Full to ⅛
- Distribution—Symmetrical/Asymmetrical
- Output Stabilizer—Built-in
- Triggering—Built-in Photo Slave
- No. of Connectors—4
- Dimensions (mm)—278(w) x 238(h) x 153(d)
- Weight—15.6 pounds

Comet 1200 Two Head System

Includes:

- 1 CX134 Power Pack (1200 WS)
- 2 SC2411 Flash Heads
- 2 7 in. reflectors
- 2 MF3400 stands
- 2 Comet stand adapters

Total Package **$1949.00**

10% Reflector Discount

Save 10% on your choice of the following reflectors when purchased with any Comet Two Head System:

- 2 Comet 42" White Umbrellas (page 99)
- 2 Lightform Panels with 2 fabrics (page 83)
- 2 Litedome Medium Banks (page 84)
- 1 Chimera Large Super Pro Bank (page 85)

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

Comet CX-244 Power Pack

Specifications:

- Flash Power—2400 watt seconds
- Recycling Time—(Quick/Full Power) 1.8 sec. (Slow) 10–15 sec.
- Variator—Full to ⅛
- Distribution—Symmetrical/Asymmetrical
- Output Stabilizer—Built-in
- Triggering—Built-in Photo Slave
- No. of Connectors—4
- Dimensions (mm)—278(w) x 359(h) x 153(d)
- Weight—20.5 pounds

Comet 2400 Two Head System

Includes:

- 1 CX244 Power Pack (2400 WS)
- 2 CX2411 Flash Heads
- 2 7 in. reflectors
- 2 MF3400 stands
- 2 Comet stand adapters

Total Package **$2295.00**

Comet Components

CX124 1200 WS Power Pack
CM4002. . . . . $1355.00
CX224 2400 WS Power Pack
CM4000. . . . . $1550.00
CX2400 Flash Head with cover, flash tube modeling lamp, and 20 ft. cable.
CM4150. . . . . $395.00
7 in. Umbrella reflector
CM4153. . . . . $29.00
9 in. reflector
CM4155. . . . . $40.00
18 in. White reflector
CM4160. . . . . $125.00
18 in. Silver reflector
CM4161. . . . . $86.00
Barndoor Set 7 in.
CM4170. . . . . $49.00
Barndoor Set 9 in.
CM4175. . . . . $60.00
Filter/Gel holder 7 in.
CM4180. . . . . $20.00
Filter/Gel holder 9 in.
CM4185. . . . . $25.00

CometLite Flash System

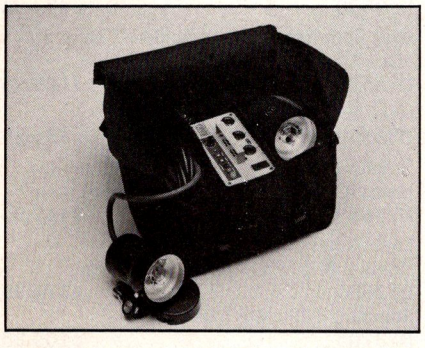
COMETLITE SERIES

The new, compact, light weight COMETLITE power packs give you right light wherever you go. They utilize the latest electronic engineering and are backed by the famous "COMET" quality that guarantee you years of trouble-free operation.

FEATURES:

- Compactness and Lightness in weight
- Key touch switches
- Stepless flash variator with proportional model light
- Arc proof easy-to-snap connectors
- Independent Flash Failure Monitor*
- UV corrected quartz xenon tube
- Interchangeable with the popular CX series

*Each output connector has its own monitor. Should any flash head on the power pack fail to flash, the corresponding monitor lights up and the sound alarm is given.



COMETLITE 1200II POWER PACK

The COMETLITE 1200II, 1200Ws, weighing 7.3 pounds is an ideal pack for location as well as for in-studio use. It recycles in less than 2.8 seconds to the full and has two symmetrical output connectors. Flash output steplessly variable down to one-third with proportional modeling mode selectable.
(Measurements: 7⅜(w) x 4(d) x 8⅝(h)
CM3005 . . . . . **$1050.00**

CL1200 2-Head Package

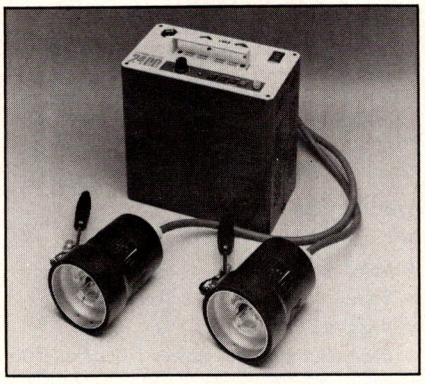
Includes: 1-1200II Power pack, 2-CL24 flash heads, and a soft, shoulder bag. Total package weight is 34 lbs.
CM3000 . . . . . **$1475.00**

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)



CL2400 2-Head Package

Includes: 1-2400 Power pack, 2-CL24 flash heads, and a soft, shoulder bag.
CM3010 . . . . . **$1785.00**

COMETLITE 2400 POWER PACK

The COMETLITE 2400, 1200Ws, weighing less than 15 pounds is truly a powerful workhorse both in studios and on locations. It recycles in 3.8 seconds (Quick) to the full and has two symmetrical power outputs. Steplessly variable down to one-third with the modeling lamp keyed to the flash intensity or kept at full.
(Measurements: 9¼(w) x 5⅛(d) x 11(h)
CM3015 . . . . . **$1395.00**

Comet Umbrellas

B-60 42" White Vinyl Umbrella.
CM4310 . . . . . **$44.00**

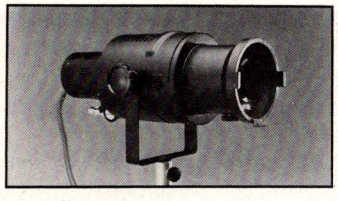
B-65 44" White Vinyl Umbrella
CM4315 . . . . . **$65.00**

B-50 37" White Vinyl Umbrella.
CM4320 . . . . . **$42.00**

G-60 42" Silver Umbrella.
CM4325 . . . . . **$65.00**

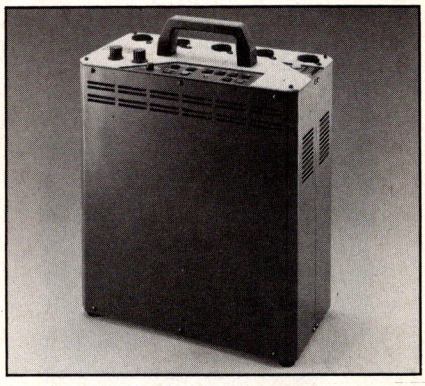
G-65 44" Silver Umbrella.
CM4330 . . . . . **$79.00**

G-50 37" Silver Umbrella.
CM4335 . . . . . **$59.00**



Comet Optical Snoot

This attachment is designed to be used with the CX-2411 flash head, up to 2400 watt second in a optically controlled beam. Includes 6 iris plates, a framing cutter, sheet holder and detachable cooling fan.
CM3070 . . . . . **$525.00**



COMPLETE 5000 POWER PACK

5000 watt second in a case less than 0.7 cubic feet weighing less than 30 pounds. Has two 2500Ws packs built in it and each block has two outputs with its own variator from the full to one-third with the proportional model and full model modes, and recycles in less than 4 seconds. Unique charging circuit prevents overload on the AC line and the pack can be used on the household main (Slow). Individual switch for each output and overheat monitor.
(Measurements: 7⅞(w) x 5⅞(d) x 12⅞(h)
CM3025 . . . . . **$2150.00**

CL5000 Package

Includes: 1-5000 Power pack, 1-CL5000 Flash head, and 1-CXC 7" Reflector.
CM3020 . . . . . **$2695.00**

COMETLITE CL24 FLASH HEAD

The COMETLITE CL24 flash head with a 2400Ws quartz UV corrected circular tube is a standard head for the COMETLITE 1200II and 2400 power packs. Has a built-in 65° reflector and a model on/off switch. Accepts all CX series easy-change reflectors and can be interchangeably used with the CX series power packs. Comes with a 5 meter cable and is convection cooled. 100w halogen modeling lamp. (4 lbs.)
CM3050 . . . . . **$295.00**

COMETLITE 5000 FLASH HEAD

Bi-tube type for a single 5000 watt second discharge or for a shorter flash duration. A frosted dome covers two 2500Ws quartz UV corrected 'U' shape tubes and two 250w halogen lamps. Accept the CX series easy-change reflectors and is fan cooled for a long session.
(8.7 pounds)
CM3060 . . . . . **$750.00**

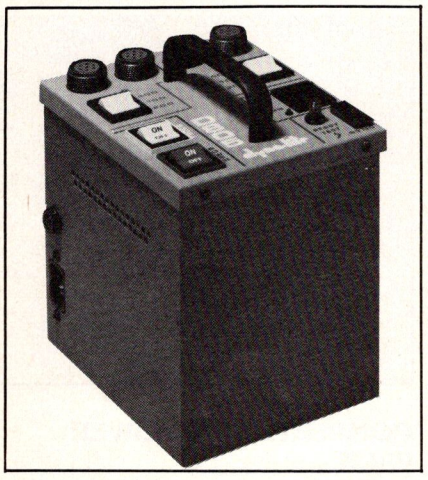
Flash Tube and Model Lamps

Quartz Flash Tube for CX-2411.
CM4070 . . . . . **$135.00**

Quartz Flash Tube for Bi-Tube Head.
CM4075 . . . . . **$235.00**

Model Lamp-250 watt Quartz Halogen.
CM4078 . . . . . **$22.00**

Dynalite Flash Systems



Dyna-Lite Flash Systems

Dyna-Lite manufactures quality electronic flash equipment for the professional photographer and the serious amateur. Equipment designed to meet the highest product integrity and safety standards are Dyna-Lite design practices. Every Dyna-Lite product is backed by fifteen years of photo-electronic technology. Dyna-Lite flash systems are particularly well suited for location work.

Key System Features:

- Portability
- Small Size
- Light Weight
- Power Output Flexibility
- Light Control Accessories
- Dependability
- Fast Recycle Time
- Nationwide Service

D804II Power Pack

This is the most popular Dyna-Lite location power pack because of its amazingly small size and weight. The pack features ratio, or combined output power settings from 100 thru 800 watt seconds (as low as 50 watt seconds with two flash heads).

D804II Specifications

- Light Output/Watt Seconds: 800
- Recycle (full power): 1½ sec.
- Size: L x W x D 5½ x 6½ x 10½ in.
- Weight: 9½ lbs.
- Flash Duration (full power 1 head): 1/300 sec.
- Power Consumption Amps (avg/peak) 8/15

DY0800 . . . . . **$689.95**

Dyna-Lite Flash Heads

Dyna-Lite flash heads are designed to provide maximum light control in small, lightweight and rugged packages. The flashtube assembly, with its U.V. corrected flashtube and special designed 140° reflector, is the key element in Dyna-Lite flash heads. This built-in reflector provides even light output within 1/3 f stop over the 140° angle of coverage. The following features are standard on Dyna-Lite heads:

- Blower cooled for use with heat restricting accessories.
- Variable model lights for ratio lighting setups.
- Integral Accessory ring.
- 250 Watt 3200° K quartz model light.
- Lowel Flexi-Clips for mounting Lowel Flexi-Shaft accessories.

Standard 1200 WS Flash Head

For use with D804II pack. Supplied with flash tube and model light.

DY3080 . . . . . **$309.95**

Dyna-Lite Location Kit

Includes:
1 D804II Power Supply **DY0800**
2 Standard 1200 WS Flash Heads **DY3080**
2 Calumet 44" Umbrellas **AU3007**
2 Calumet 7½' Compact Stands **MF3505**
1 Dyna-Lite Case **DY3650**
1 Domke Stand/Umbrella Bag **DK3030**
Total Package Price **$1599.00**

Dyna-Lite Accessories

10 in. 50° Reflector
DY3500 . . . . . **$35.95**

9 in. 80° Reflector
DY3505 . . . . . **$35.95**

Gel Holder Adapter
DY3510 . . . . . **$14.95**

Barn Door Set
Compatible with Lowel Omni Accessories.
DY3525 . . . . . **$58.95**

Grid Spot Holder
DY3530 . . . . . **$34.95**

Grid Spot Set (requires holder) 3 sizes included.
DY3535 . . . . . **$109.95**

Head Extension Cable 15 ft.
DY3560 . . . . . **$35.95**

Small Case
Holds 1 800 WS packs and 2 heads
DY3650 . . . . . **$147.95**

Large Case
Holds 2 800 WS packs and 4 heads
DY3655 . . . . . **$174.95**

Standard 1200 WS Flash Tube
DY3705 . . . . . **$109.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Calumet Mini-Wraps—6-Pack Savings

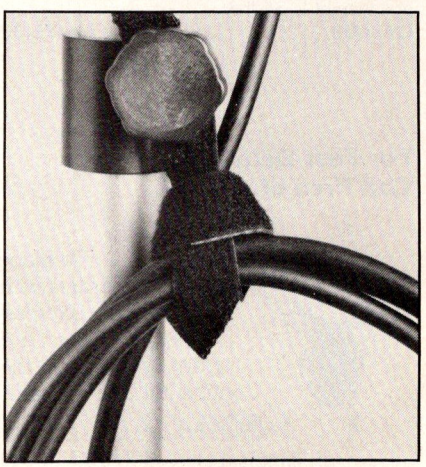
Calumet Mini-Wraps

The Mini-Wrap is a great asset to any studio or location kit. This self-adhesive Velcro strip can be used in place of tape for an unlimited number of binding chores, and for an unlimited number of times. The Mini-Wrap provides 12" of usable Velcro, one inch wide, and features a 2" slot which allows you to "hook" your bound cables or cords to stand knobs, door hinges, nails, or storage hooks. Strips can be combined lengthwise to bind wider loads, such as groups of stands, umbrellas, cables, etc.

Mini-Wraps are small enough to carry several in your pocket for on-the-spot usage, and take up minimal space in your location kit.

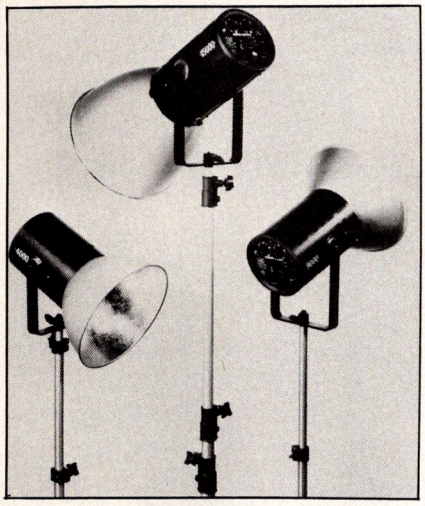
Consider the money that you throw away with each piece of gaffers tape that goes in the garbage can, and then consider Mini-Wraps.

Package of 6 Mini-Wraps
CC9120 . . . . . **$18.95**



Bowens Electronic Flash Systems

New Bowens Monolites



Monolite 15000-Self contained unit provides Guide Number of 280 at ASA 100. Features individual flash modeling lamp control with continuously variable output, voltage stabilized, audible and visible flash ready signals, dual sync sockets, and overheat protection circuit. Includes power and sync cords. (Less Modeling Lamp) Weighs: 9 lbs. 8 oz. Recycles in 0.8 to 2.8 sec.
BW3722 . . . . . **$529.95**

Monolite 9000-Same features as 15000, but with Guide Number of 212 at ASA 100. Weighs 8 lbs. 4 oz. Recycles in 0.6 to 2.0 sec. Includes power and sync cords. (Less Modeling Lamp). **BW3717** **$399.95**

Monolite 4000-This compact unit (5 lbs. 8 oz.) features a Guide Number of 145 at ASA 1000 with full and half power output control with proportional change in modeling lamp. Includes power and sync cords. (Less Modeling Lamp). **BW3712** **$279.95**

NEW Monolite 24000
BW3727 . . . . . **$579.95**

Monolite Location Kits

Monolite Kit 4000-Compact two-light outfit supplied with carrying case, Photocell, 32″ white umbrella, 32″ silver umbrella, (2) 8 foot light stands, and 2 modeling lamps.
BW3900 . . . . . **$719.95**

Monolite Kit 4000/9000-Comes complete with one each #4000 and #9000 Monolites, case, Monocell, 32″ White and 32″ Silver umbrellas, (2) 8 ft. light stands, and two modeling lamps. **BW3905** **$839.95**

Monolight Kit 9000-Includes two #9000 Monolites, case, Monocell, 32″ White and 32″ Silver umbrellas, (2) 8 ft. light stands, and two modeling lamps.
BW3910 . . . . . **$964.95**

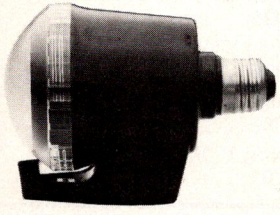
Monolite Kit 9000/15000-Supplied with one each #9000 and #15000 Monolites, carrying case, Photocell, 2 Bowflectas, (2) 8 foot light stands, and 2 modeling lamps.
BW3915 . . . . . **$1079.95**

Monolite Kit 15000-Includes two #15000 Monolites, case Monocell, 32″ White and 32″ Silver umbrellas, (2) 8 ft. light stands, and two modeling lamps.
BW3925 . . . . . **$1169.95**

Monolite Accessories

Monocell Photocell Unit
BW4010 . . . . . **$35.95**
Monoflood Reflector **BW4110** **$31.95**
Mono-Key Reflector **BW4115** **$31.95**
Monosoft Reflector **BW4120** **$79.95**
Barndoor Assembly for Monosoft
BW4160 . . . . . **$56.95**
Mono-Snoot **BW4210** **$34.95**
Replacement Sync Cord
BW5320 . . . . . **$11.95**
Spill-Kill (Monowide) Reflector (for use with umbrellas) **BW4130** **$15.95**
Squarelite, Complete with barndoors
BW5418 . . . . . **$139.95**
Even-Lite Reflector, 60° Spread
BW5422 . . . . . **$61.95**
Carrying Case for 4000 and 9000 Monolites
BW4005 . . . . . **$94.95**
Carrying Case for 9000 and 15000
BW4000 . . . . . **$114.95**
Modeling Lamp for 4000
BW5210 . . . . . **$3.50**
Modeling Lamp for 9000
BW5215 . . . . . **$3.50**
Modeling Lamp for 15000
BW5220 . . . . . **$3.50**
Replacement UV Coated Flashtube for 4000 **BW5265** **$74.95**
Replacement UV Coated Flashtube for 9000,15000 **BW5260** **$74.95**

Morris Slave Units



New AC Master Slave

The AC Master Slave features built-in hot shoe, battery-powered triggering device and PC outlet, open flash button, built-in slave trigger and a ¼-20 tripod socket. Supplied with 4 ft. sync/PC cord. Uses PX-28 battery (not included).

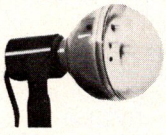
Specifications:

- Guide No. 36 at ASA 25, 72 at ASA 100.
- Coverage 50°.
- Recycle time 7 sec.

AC Master Slave **TB1205** **$34.95**

AC Flash with Built-in Slave

Screws into any standard socket using 110 AC current. Triggered as a slave only—no PC outlet. AC power indicator light, ready light and open flash button.
TB1200 . . . . . **$27.95**



Bare Bulb Flash

Provides 210 deg. coverage. With built-in slave, AC power indicator light, readylight, and open flash button. Includes 3 pc. Color Filter Set. (Socket not included.)
TB1300 . . . . . **$36.95**

Morris Portable Lighting Kit

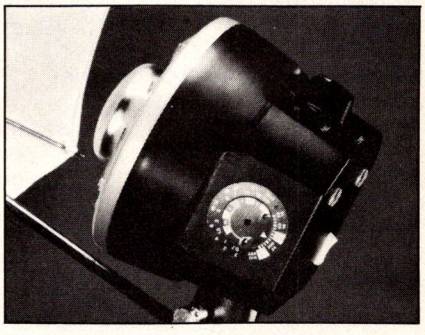
Includes 2 - AC Super Slaves, 1 - Bare Bulb Flash, 2 - Minilite Clamp Sockets, and 1 - Socket Bracket. **TB1500** **$149.95**

Accessory Filter Set

Contains 5 snap on filters for AC Slave. Red, Yellow, Blue, Green, and wide diffuser (white) **TB1215** **$19.95**

Bogen Swivel Umbrella Adapter

Adapter allows you to mount ¼-20 socket to any 3/8″ or 5/8″ light stand or to the Bogen Super Clamp. Accepts standard umbrella shaft and offers versatile tilting capabilities.
BG4260 . . . . . **$12.95**



Professional Slave/Flash

New lightweight flash has 5 settings from full to 1/16 power. Incorporates 4 flash tubes for a high output Guide No. of 126 with ASA 100 film. Fast recycling from 0.3 to 4 seconds. Features open flash button, ready light, separate modeling light and AC switches. Includes AC power cord and PC coil cord. Isolation circuit requires PX28 battery (not included) when used with sync cord. No battery required for use as slave. Features ¼-20 mounting socket.
TB1210 . . . . . **$129.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Novatron Flash Systems

Novatron Instant Studios

Novatron offers complete "Instant Studio" Kits containing every item necessary for on location lighting, including sturdy fitted case and sync cord. Simply select the kit containing the Power Pack best suited to your weight, output and recycling needs. (see individual Power Pack specifications below)

220 Plus Novakit

Includes: 220 Plus Power Pack, (1) Standard head, (1) stop reducing head, (1) 2 stop reducing head, (2) 10 ft. stands, (1) 4 ft. stand (2) 46 in. white unbrellas (1) case and (1) sync cord
NV6103 . . . . . **$749.95**

440 Plus Novakit (Shown Right)

Includes: (1) 440 Plus power pack, (1) Standard head, (1) 1 stop reducing head, (1) 2 stop reducing head, (2) 10 ft. stands, (1) 4 ft. stand, (2) 46 in. white umbrellas, (1) case and (1) sync cord. **NV6104** **$849.95**

880 Plus Novakit

Includes: (1) 880 Plus power pack, (1) 880 Plus head, (1) 1 stop reducing head, (1) 2 stop reducing head, (2) 10 ft. stands, (1) 4 ft stand, (2) 46 in. white umbrellas, (1) case and (1) sync cord.
NV6108 . . . . . **$1039.95**

Soft Light Accessories

Novatron 2-way 20" Vertical Barndoors
NV4012 . . . . . **$33.95**

Novatron 2-way 15" Horizontal Tapered Barndoors **NV4013** **$33.95**

Novatron 4-way Barndoors.
NV4014 . . . . . **$61.95**

Bare Tube Head Accessories

Novatron 6" Reflector (w/90 degree cov.).
NV2032 . . . . . **$24.95**

Novatron 16" Reflector (w/100 degree cov.). **NV2034** **$39.95**

Novatron Flash Heads

Standard Flash Head w/15' cord, flash tube and modeling light (up to 440 W/S).
NV2000 . . . . . **$91.95**

1000 W/S Flash Head w/15' cord, flash tube and modeling light. **NV2800** **$104.95**

Standard Flash Head w/15' cord, flash tube, modeling light and 1 stop reduction switch. Note: Should not be used alone on low power (up to 440 W/S).
NV2010 . . . . . **$104.95**

Bare Tube Head w/15' cord, flash tube, and modeling light (up to 440 W/S).
NV2030 . . . . . **$104.95**

16" Square Soft Light Reflector Non-Specular with diffusion, 90° angle of light, GN190@ 440 W/S (ASA100). Bare tube head included. **NV2060** **$136.95**

QUAD HEAD. Four 1000 W/S flash tubes and four cords to combine four power packs. **NV2051** **$299.95**

Novatron Accessories

4 Way Barn Door for 6½ dia. heads (revolving) **NV4011** **$46.95**

Novatron Snoot **NV4000** **$17.95**

Novatron Slave **NV4030** **$17.95**

Flash Head Extension Cord 15'
NV4015 . . . . . **$26.95**

Novatron Adjustable Snoot (extends to 9½). **NV4001** **$24.95**

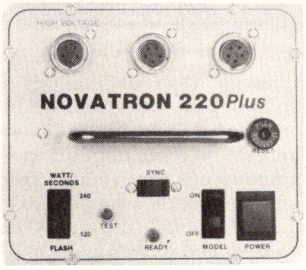
Novatron Diffusion or Gel Holder (holds 8" x 8" gels).
NV4020 . . . . . **$15.95**

Novatron 25' Head Extension Cord.
NV4025 . . . . . **$27.95**

Novatron Y Connector.
NV4026 . . . . . **$32.95**

Novatron 60w Modeling Light.
NV4061 . . . . . **$2.50**

Novatron 100w Modeling Light.
NV4101 . . . . . **$2.50**

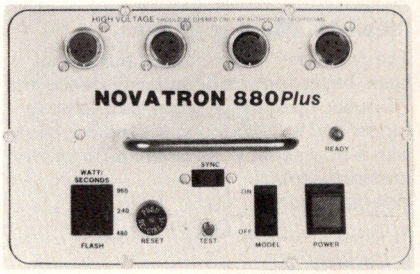


Model 220 Plus

Features Hi/Lo switch to select 240 or 120 W/S.
Power: 240 W/S. Recycle: 1.5 sec. Hi, 5 sec Lo. Dimensions: 5¼ x 7⅜ x 6⅜. Weight: 9 lbs.
NV1021 . . . . . **$229.95**

Model 440 Plus

Features three-way power switch (480, 240 and 210 W/S).
Power: 480 W/S. Recycle: 2.5 sec. Hi, 1.25 Mid, .5 Lo.
Dimensions: 6¼ x 6⅛ x 8½. Weight: 13.25 lbs.
NV1041 . . . . . **$349.95**



Model 880 Plus

Features three-way power switch (960, 480, and 240 W/S). Requires use of two or more Standard heads.
Power: 960 W/S. Recycle: 2.75 sec. Hi, 1.65 Mid, .5 Lo.
Dimensions: 7½ x 6⅜ x 10. Weight 21 lbs.
NV1082 . . . . . **$489.95**

Photogenic Studiomaster II

Studiomaster II

Photogenic's top series of pushbutton-control speedlights. All Studiomaster II units feature: proportional modeling light intensities; convenient modeling light switches mounted on each lighting unit; lighted push-button power controls; an optional plug-in booster which converts 200W/S power supply to 400 W/S; and air cushion caster base stands.

Studiomaster II Complete Outfits

THE AE81 is the complete outfit including AE10 lighting unit, power supply, caster base and air cushion stand, power cord and slave. Has a 16″ satin anodized reflector with focusable coverage from 40° to 60°.

PG1014 . . . . . **$1007.95**

THE AE80 complete outfit differs from the AE81 only in its 20″ reflector. Focusable coverage is from 42° to 135°.

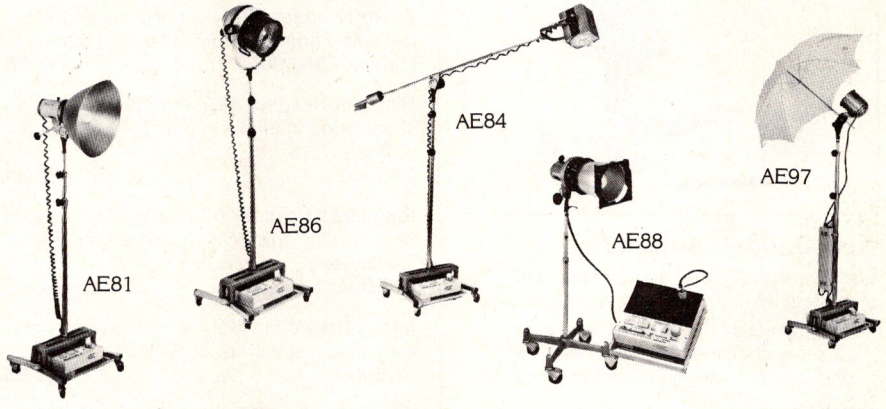
PG1010. . . . . **$1019.95**

THE AE99 complete outfit has a 24″ reflector. Its 85° coverage gives an indirect flood, soft illumination, an excellent large, soft controllable source.

PG1090. . . . . **$1056.95**

THE AE86 complete outfit has an AE12 dramatic main light furnishing sharp shadows where wanted. The eight-inch Fresnal lens may be focused from broad flood to small spot. Used effectively for full-length portraits.

PG1022. . . . . **$1044.95**



THE AE84 complete outfit has an adjustable boom arm and the AE17 Boommaster 4-½″ Spotlight, the Hair Light of the Studiomaster line. Fingertip control of boom spot adjustment. Can be used effectively as a main source and background light.

PG1018. . . . . **$1081.95**

THE AE88 complete outfit is a multi-reflector (included) background light. Features a short background stand on a caster base. The guts of the outfit is an AE14 flashtube socket housing which accommodates different types of quick change reflectors. A10157 conical reflector is convenient for easily producing various background effects. A10172 detachable adapter accommodates a diffuser and various size apertures for soft oval effects. A10166 light direction shield can be rotated to control the light as desired for high key and backlighting.

PG1026. . . . . **$882.95**

THE AE97 Studiomaster II umbrella outfit includes a power supply, an umbrella lighting unit, booster with high voltage modeling light and dimmer switch. This gives a 250W modeling light for umbrella and an additional 200 W-S of power.

PG1080. . . . . **$1238.95**

Photogenic Porta-Master

Porta-Master 250

A compact, complete umbrella system in one 19″ long case, popularly priced yet retaining professional quality features. It includes power supply, stand, umbrella, lighting unit. Umbrella is 32″, white.

This 250 W-S Power Supply features dual outlets to operate an additional light with the basic umbrella unit. Total power output flexibility of definite resettable increments of full, ½, and ¼ power common on 1 or 2 outlets, and full, ½, and ¼ in a 4-to-1 ratio mode for incorporating an umbrella light with a reflector main light. Proportional 150 watt modeling lights directly dim or brighten as the flash intensity is reduced or increased.

This Flexible lighting unit functions well as an umbrella light or a key light with interchangeable reflectors.

PG2300. . . . . **$399.95**

Porta-Master 400

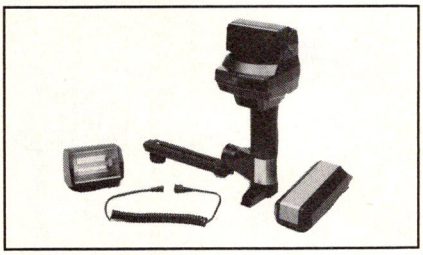
Like the Porta-Master 250, folds into a compact, single, self-contained, easily portable unit only 19″ long. Includes a 400 W-S four-outlet power supply, stand, 32″ white satin umbrella, and trigger cord. Also included is a quick-change lighting unit with reflector, a plug-in flashtube and 150 watt modeling lamp.

The power supply has two channels with four outlets for operating additional lights with the system. If offers total power output flexibility of definite resettable increments of full, ½ and ¼-power commmon on all outlets and full, ½ and ¼-power in a 3:1 ratio mode. Proportional modeling lights directly dim or brighten as the flash intensity is reduced or increased. The 400 is one of the least expensive systems of its type on the market.

PG2350. . . . . **$540.95**

Photogenic Flashmaster Lighting Systems are also available through Calumet. Please call for details.

Sunpak Flash Systems



New Sunpak Auto 622

This vew versatile and sophisticated flash unit offers the following innovative features:

- Interchangeable flash head system includes a choice of Standard, wide zoom, ring, Infrared Diffusion and Bare Bulb heads.
- Full range of power sources, including removeable battery cartridge or Powerpak operation for lighter body weight.
- Power Ratio Dial Control allows you to shoot at full, ½, ¼ . . . all the way down to $\frac{1}{128}^{th}$ power for unique control of fill-in flash, macro flash, rapid-sequence, etc.
- Fully dedicated capability via dedicated remote cords and interchangeable modules

Specifications include:

Guide Number (w/Std. Head): 100/320 (ISO 400 m/f), 50/160 (ISO 100 m/f)

Auto Aperture Settings: f/2, f/2.8, f/4, f/5.6, f/8, f/11, f/16 (ISO 100)

Auto Distance Range (w/Std. Head): 2′ - 80′ (ISO 100 at max. aperture 2′ - 30′ (ISO 100 at med. aperture)

Variable Power Ratio Range: 8-stop range

Sunpak Auto 622 w/standard Bounce Head (as pictured above)
SU4170 . . . . . **$214.95**

Sunpack Auto 622 Body only
SU4175 . . . . . **$194.95**

Sunpack Auto 622 Pro System

Zoom Head for 622—3 positions permits use with 28mm-135mm lenses on 35mm camera SU5000 . . . . . **$37.95**

Diffusion Head for 622—produces even illumination in all directions. Flash power is 125ws.
SU5002 . . . . . **$28.95**

Ring Light Head for 622—ideal for close-up photography, this head provides even and shadowless illumination.
SU5004 . . . . . **$62.95**

Infrared Head for 622—emits infrared light with a peak spectrum of 840nm.
SU5006 . . . . . **$29.95**

Wide Head for 622—permits use of 28mm lenses on 35mm cameras, 50mm lenses on 6 x 6 cm cameras
SU5008 . . . . . **$29.95**

Bare Bulb Head for 622—for natural lighting effect and for use in studio lighting set ups
SU5010 . . . . . **CALL**

Power Sources for 622

Ni-Cad Battery cluster CL-3
SU5026 . . . . . **$69.95**

QBC-6 Charger SU5028 . . . . . **$74.95**

Powerpak for 510V battery
SU4505 . . . . . **$69.95**

Sunpak 510V Rechargeable NiCad Battery Pak NC510
SU4510 . . . . . **$79.95**

QBC-5 Charger for NC510
SU4515 . . . . . **$27.95**

Conversion Plug Adapter for 510V battery use SU5016 . . . . . **$4.95**

AC Adaptor AD26 SU4585 . . . . . **$24.95**

Sunpak Auto 522

Automatic thyristor electronic flash with power ratio control to 1/64 (7 f/stop range). Automatic from 19″ to 42′. Four-stop continuously variable aperture range. Auto-verification and motor drive setting. Dedicated interface capability with most popular SLRs with optional Dedicated Remote Sensor. Guide number: 120W/ASA 100. Optional power sources include: 6-AA batteries, CL-2 Nicad Cluster, and 510V powerpack.
SU4150 . . . . . **$109.95**

Power Accessories for 522

CL-2 Nicad Battery Cluster—Provides 50-430 flashes per charge with optimum recycle times from 0.3 to 4 sec.
SU4535 . . . . . **$31.95**

QBC-5 Charger for CL-2 battery—Recharges cluster to full-power in 3 hrs.
SU4515 . . . . . **$27.95**

Powerpak for 510V battery.
SU4505 . . . . . **$69.95**

NC-510v. Rechargable battery—provides 65-420 flashes, recycles in 0.25 to 2 sec.
SU4510 . . . . . **$79.95**

QBC-5 Charger for 510V battery.
SU4515 . . . . . **$27.95**

AD-26 AC Multi-volt Adapter—120v or 220v. recycles in 0.3 to 12 sec.
SU4585 . . . . . **$24.95**

Sunpak Auto-Slave—For multiple flash synched with main light unit. Eliminates need for connecting cords.
SU4410 . . . . . **$24.95**

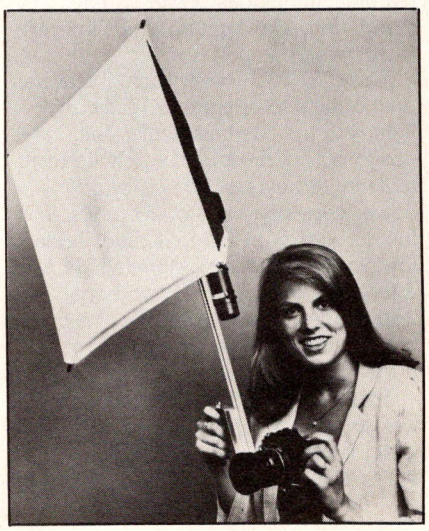
Larson On-Camera Reflectors

Larson Soff Shoulder

The Soff Shoulder is an on-camera bounce light Reflectasol that turns harsh raw strobe light into soft light in any location. This unique portable system will adapt to all 35mm, 6 x 4.5cm and up to 6 x 7cm camera formats, can be mounted for either left or right hand use. Will accept one handlebar or two shoe-mount strobes. Ideal for wedding and location photographers.
LA4215 . . . . . **$49.95**

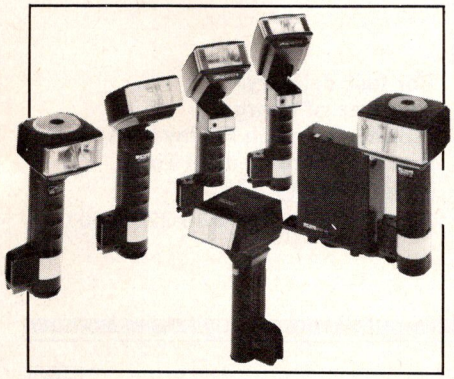
Larson Shoulder Soff Box X-Less

On camera shoot-through soft light system designed to control harsh shadows and "red-eye" effect. This portable light weight system will accept both handlebar and shoe-mount strobes, may be used with all 35mm, 6 x 4.5cm, and up to 6 x 7cm format cameras. LA4217 . . . . . **$74.95**



Metz Flash Systems

	32 CT-4	45 CT-1	45CT-3	45 CT-4	45 CT-5	60 CT-1	60 CT-2
Guide Number	105	148	148	148	148	197	197
Auto Aperture Settings	(3) 2, 4, 8	(5) 2.8-11	(6) 2.8-16	(6) 2.8-16	(6) 2-11	(6) 2-11	(6) 2-11
Auto Range	1.5'-53'	1.5'-53'	Variable	Variable	1.8'-74'	1.0'-99'	1.0'-99'
Coverage	58° x 42°	65° x 46°	62° x 42°	62° x 42°	65° x 46°	65° x 48°	65° x 48°
Battery Pack Available	NiCad (4-AA or 4C)	NiCad	NiCad or Heavy Duty	NiCad or Heavy Duty	NiCad	NiCad or Dry Fit	NiCad or Dry Fit
Recycle Times	.5-8 sec.	.3-7 sec.	.2-5 sec .2-4 sec.	.3-7 sec .3-5 sec.	.3-7 sec.	.2-5 sec. .2-4 sec.	.2-5sec. .2-4 sec.
#Flashes/Charge	60-1500 250-6000	50-2000	180-450 50-2000	50-2000 180-4500	50-2000	160-4500 50-2000	160-4500 50-2000
Winder / Drive Set.	—	—	Yes /	Yes /	Yes /	Yes / Yes	Yes / Yes
Weight	16.2 oz.	24 oz.	25 oz.	25 oz.	26 oz.	5.1 lb. w/pk.	5.1 lb. w/pk.



Metz 32 CT-4

New dedicated thyristor controlled flash features power grip handle, quadrolight tilting reflector for bounce lighting (horizontal and vertical), Battery Auto-off, and telecomputer for automatic exposure control. Accepts SCA300 Dedicated Adapter Modules for most popular 35mm cameras.

Metz 32 CT-4 with Power Grip, W/A Adapter and PC cord.
MZ1080 ..... **$109.95**

Accessories for Metz 32 CT-4

Universal Shoe Mount Adapter
MZ2170 ..... **$5.50**

Reflex Screen for 32 CT-4
MZ3170 ..... **$11.95**

Calumet stocks the complete line of Metz flash accessories. Please call for details.

Metz 45 CT-1

The 45 CT-1 features full 90° vertical and 360° horizontal bounce control and automatic computer verification system.

Metz 45 CT-1 with NiCad battery cluster charger, W/A adapter, PC cord, and quick release bracket. **MZ1025** **$179.95**

Metz 45 CT-3

Features built-in Power Ratio and Bounce Control. Accepts dedicated flash adapter modules (SCA300 System) for most popular 35mm cameras.

Metz 45 CT-3 with NiCad battery cluster, charger, W/A adapter, PC cord, Quick Release Bracket **MZ1023** **$192.95**

Metz 45 CT-4

Features two flash heads for bounce and fill capabilities, SCA 300 system dedication, Quadrolight tilting, and LED mode indicator.

Metz 45 CT-4NC with NiCad Cluster, Charger, PC cord, and quick release bracket.
MZ1070 ..... **$239.95**

Metz 45 CT-5

Features two flash heads, and a built-in computer coupled with an LED display.

Metz 45 CT-5 NC with NiCad Cluster, Charger PC cord, and quick release bracket.
MZ1035 ..... **$295.95**

Accessories for 45 CT Series

NiCad Cluster for 45 Series
MZ1115 ..... **$39.95**

Battery charger
MZ1120 ..... **$26.95**

Heavy Duty Power Pack (Requires Metz NiCad Charger as supplied with 45CT-4NC).
MZ1143 ..... **$129.95**

Metz 60 CT-1.

Features Illuminated Control Center for easy visibility, choice of 11 auto f/stops with Remote Sensor, manual thyristor Power Ratio Control to 1/64 power, and complete bounce capability.

Metz 60 CT-1 with Dryfit Battery, battery housing, charger, power cord, strap, PC cord and quick release bracket.
MZ1040 ..... **$309.95**

Metz 60 CT-2

The 60 CT-2 adds to the impressive list of 60 CT-1 features the ability to accept dedicated adapters for most popular SLR cameras.

Metz 60 CT-2 with Dryfit Battery, battery housing, charger, power cord, strap, PC cord and quick release bracket.
MZ1050 ..... **$339.95**

Accessories for 60 CT Series

Metz Mecatwin for 60 Series
MZ1060 ..... **$192.95**

Rechargeable Dryfit Battery
MZ1145 ..... **$64.95**

Remote Sensor for 60 CT Series
MZ1215 ..... **$99.95**

Reflex Screen (for both 60 and 45 series)
MZ1340 ..... **$46.95**

For Fast Delivery Call Free of Charge

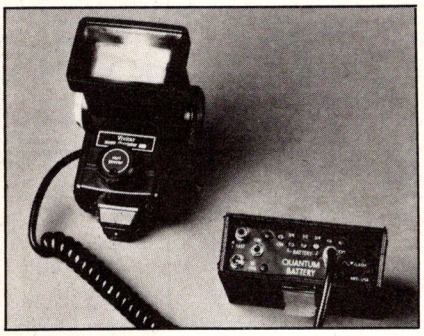
To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

Portable Flash Accessories

The Quantum Battery



Gives you 4.5 times more shots than nicads and 50% faster recycling time.

This compact, heavy-duty battery can be used with most popular portable flash units and will save you time, money, and aggravation while on the job. The Quantum Battery checks its own level of charge and displays it on a built-in status monitor. Just 1 ¾" wide, it comfortably clips onto your belt or fits into your camera bag.

Other features include:

- Can be recharged typically 500 times and provides about 100,000 to 1,000,000 flashes over its lifetime.
- No Memory - can be charged whenever needed after a full or partial discharge.
- Dual flash output for simultaneous drive of two flash units. Ideal for sequence shots with motor drives or power winders.
- Holds charge - loses only 5% charge per month at room temperture.
- Operating temperture range: −40° to 122° F.

The Quantum Battery 1

Designed for 6 volt portable flash units. Requires Power Module (purchased separately) which fits into battery compartment of your flash and is connected by a six foot coiled cord. For use with power module A or C. Dimensions: 4" x 4" x 1¾". Weight - 24 oz.
CU2001 ..... **$114.95**

The Quantum Battery 2

Designed for 9 volt portable flash systems. Requires Power Module (purchased separately). For use with Metz and Sunpak 522. Dimensions: 5½" x 3" x 1¾". Weight 32 oz.
CU2002 ..... **$119.95**

Power Modules

Power Module A - Fits Vivitar Models 283, 285, 3700, 4600 and 5600; Sunpak 300 and 400 series.
CU2010 ..... **$26.95**

Power Module C - Fits Sunpak 611
CU2011 ..... **$47.95**

Power Module M - Fits Metz 45CT Series
CU2012 ..... **$34.95**

Power Module S - fits Sunpak 522
CU2013 ..... **$31.95**

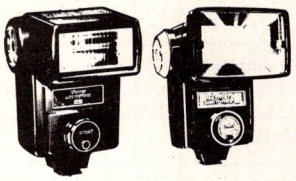
Power Module G - fits Nikon SB16
CU2014 ..... **$26.95**

Extension Cords

10' extension cord for Quantum Battery 1
CU2031 ..... **$14.95**

10' extension cord for Quantum Battery 2
CU2032 ..... **$14.95**

Vivitar Flash Accessories



Vivitar 283 VR4150 ..... **$49.95**
Vivitar 285 VR4160 ..... **$54.95**

Charge 12/20—charges NC-5 in 12 minutes, NC-3 in 20 minutes. Batteries not included. **VR4517** **$39.95**
NC-3 Battery Pack for 4600, 285, and 283
VR4521 ..... **$19.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Calumet Wrap Strap and Shot Bag

Calumet Wrap Strap, "The Gaffer's Friend"

Tired of throwing away 'money' everytime you toss a 'spent' piece of gaffer's tape in the can and replace it with a new one? Consider the problem solved with the Wrap Strap, a reusable Velcro 'tape' which can be used thousands of times in 101 situations. Wrap Strap can take the place of tape to run cords along ceilings, up walls, down pipes, and out of the way! Ideal for storing cables in an orderly fashion or wrapping extension cords and PC cords together. Several strung together can be used to wrap stands together. Since there are no sticky adhesives involved, cords and other objects stay clean and free of gummy mess deposited by tape. Each Wrap Strap is 14" long and provides one foot of usable Velcro and a ½" grommet is provided for convenient peg-board or baghook storage.

Calumet Wrap Strap, Pkg. of 3
CC9115 ..... **$17.95**

Calumet Shot Bag

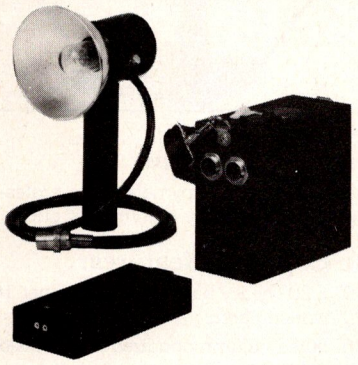
Ten lb. Shot Bag is a dependable and durable product designed to last forever. No more spilled sandbags or punctured plastic water containers! This heavy duty black cordura Shot Bag is double sewn in the seams and corners and contains 10 lbs. of lead shot. The dense shot offers compact, maximum weight as well as pliable "wrap around" versatility. Fastens almost anywhere to equipment by means of a 17" Velcro hook and 10" loop hook on the bag itself. You can mold the bag and tighten the Velcro strap for snug fits on steep slippery booms, light stands and poles or tripods. Can be used on location for silks (frames), stands and kites in the wind or to weight or cradle long lenses. Great for counterbalances on curtains or backgrounds. Since the "Shot Bag" is water proofed, it is excellent for underwater photographic uses. Literally constructed to last a lifetime, Shot Bags are a great asset to any studio or location kit.

Calumet Shot Bag **CC9122** **$39.95**

Lumedyne Portable Flash

Lumedyne Portable Flash

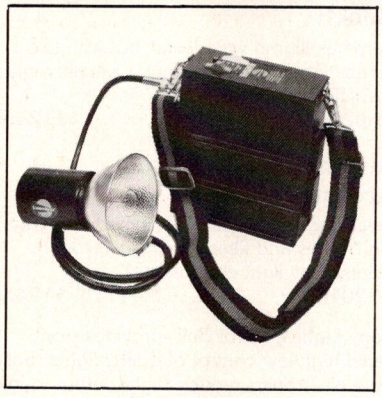
The professional portable flash system features high light output, portability and reliability. Start with a single 200 w/s strobe weighing less than 4 lbs. including battery. Need more light? Add a power module. Need greater flash capacity? Snap on a battery module.



Lumedyne Mini Outfit
Includes: Power Pack **LU5000**
Charger **LU5032**
Mini Battery Module **LU5002**
Straight Cord Head **LU5010**
Total Package **$344.95**

Lumedyne O65
Model 244 Power Pack
200 w/s w/o charger.
LU5000 . . . . . **$197.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for conf irmation.



HIGH SPEED DEDICATED OUTFIT
Includes: 400 w/s TOP MODULE **LU6075**
HIGH SPEED MODULE **LU5060**
ST. CORD HEAD **LU5010**
REGULAR BATTERY **LU5004**
DUAL CHARGER **LU5032**
STRAP **LU7004**
TOTAL PACKAGE **$499.95**

GVI Vari Strobe for Lumedyne Flash System

- Six stop Automatic Range with manual override
- Thristor circuitry
- Removeable sensor
- Removeable reflector

GVI Regular Head w/straight cord
GV2005 . . . . . **$264.95**
GVI Model Lamp Head w/straight cord
GV2015 . . . . . **$324.95**

Lumedyne Accessories

Lumedyne Power Booster Modules

"Blind" Booster 071 w/o head outlet attaches to 065 pack. Increases power 200 w/s.
LU6080 . . . . . **$104.95**
Control Booster 072 w/head outlet and three position switch controls available power.
LU6085 . . . . . **$139.95**

Lumedyne Battery Modules

Snap on Mini for 244 **LU5002** **$54.95**
Snap-on Regular for 244
LU5004 . . . . . **$109.95**
Snap-on Super for 244
LU5006 . . . . . **$159.95**
Snap-on Battery Compartment
LU5008 . . . . . **$19.95**
Ultra Battery
LU5070 . . . . . **$299.95**

Lumedyne Flash Heads

Flash heads do not include handles
Straight Cord Head #001 up to 400 w/s
LU5010 . . . . . **$74.95**
Coiled Cord Head #002 up to 400 w/s
LU5012 . . . . . **$89.95**
Straight Cord Modeling Light Head up to 400 w/s **LU5014** **$134.95**
Straight Cord Remote Control head up to 400 w/s **LU5016** **$99.95**

Lumedyne Battery Chargers

Dual trickle charger 015
LU5032 . . . . . **$22.00**
Quick Charger 4½ Hour Reg. Bat. 7 hr. Super Battery (not for mini battery)
LU5034 . . . . . **$47.95**
NEW Lumedyne High Speed Module Provides faster recycling with battery modules.
LU5060 . . . . . **$99.95**

Feature Comparison: Lumedyne vs. Norman

Lumedyne	Norman 200B
• Smallest unit - 200 W.S. 4 lbs., expandable	• 200 W.S., 6 lbs, non-expandable
• 2 Individual Flash Outlets	• One Outlet - Y Cable to use two heads
• True modeling light head available on all power sources, including battery.	• Modeling light not in flash tube. AC only
• Choice of 7 Power Sources (Battery, A.C., Vehicle)	• One Power Source (Battery)
• Saves stored flash energy when unit is turned off	• Dumps 200 W.S. energy each time unit is turned off
• Dual Position Reflector packed with Snoot and Diffuser	• Single Position Reflector
• Decrease recycle time by adding additional H.S. Modules (up to 4 with Ultra Battery)	• Not changeable
• 400 W.S. flash tube	• 200 W.S. flash tube

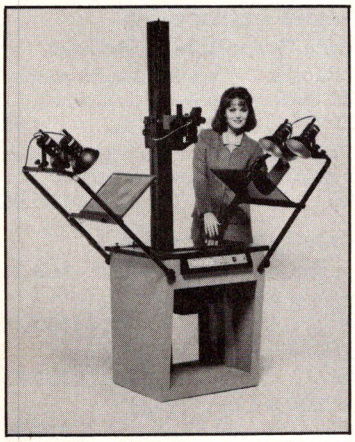
Lumedyne Recycle Times (in seconds)

	50ws	100ws	200ws	400ws
Mini Outfit w/Reg. Battery				
Normal Recycle	3	6	12	24
Fast Recycle	1.5	3	6	12
High Speed Outfit w/Reg. Battery	.5	1.0	2.0	4.0

Flashes Per Charge (Normal mode)

	Mini	Reg.	Super	Ultra
50ws	450	900	1400	2800
100ws	225	450	700	1400
200ws	115	225	350	700
400ws	60	115	175	350

Copy Equipment



Bencher M2 Camera Stand

Features a 48" black anodized column with a positive drive camera carriage, 26½" x 23½" baseboard, adjustable camera platform for convenient centering up to 6" and 3½" camera shift range.
BN0100 . . . . . **$314.95**

M2 Stand with two quartz lights.

Versatile swivel light support arms can be positioned to illuminate top and/or bottom of copy stage as well as baseboard to offer a wide variety of lighting techniques. Two quartz lights are provided.
BN0150 . . . . . **$699.95**

Bencher M2 Illuma System with Pedestal (see photo)

This comprehensive copy unit combines sidelight and base illumination for more creative control and versatility. The Illuma features a 14" x 17" base illuminator built into the baseboard which is color balanced with the four quartz sidelights, and provides exceptionally even lighting with less than 1/8th of a stop variation between any two points within the outside inch of the glass.
BN0300 . . . . . **$1399.95**

Bencher M2 Illuma System with Bench

Same as Illuma w/Pedestal, but with two quartz lights instead of four. Overall height: 67". UPS shippable.
BN0200 . . . . . **$1124.95**

Bencher Copy System Accessories

Polarizing Light Filter Kit–includes mounting frames and filters to fit sidearms (requires copy light control unit).
BN2010 . . . . . **$124.95**

Copy Light Control Unit–provides front panel high/low control of quartz lights. Solid state electronics reduces light output to low position for focusing; saves energy and increases lamplife.
BN1125 . . . . . **$147.95**

Slide Duplicator-Includes filter drawer.
BN1240 . . . . . **$74.95**

Precision Camera Leveling Plate–offers variable angle control for tilting of the camera's vertical axis.
BN1000 . . . . . **$41.95**

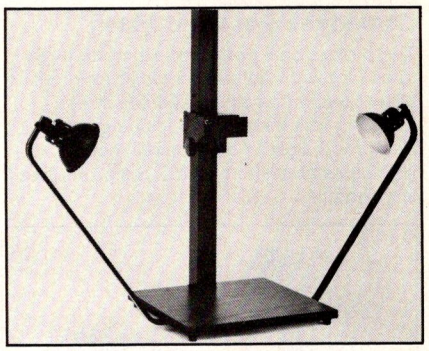
Camera Quick Release–provides quick and precise remounting of camera to stand when reloading film.
BN1010 . . . . . **$39.95**

Copy Holddown–features hinged, 14" x 17" plate glass.
BN1230 . . . . . **$75.95**

Book Holder–especially designed to hold books open.
BN1235 . . . . . **$98.95**

Column Scale–convenient for production work and for calculating exposure corrections.
BN1245 . . . . . **$24.95**

Motor Drive Assembly–automatic, time-saving camera positioning.
BN1250 . . . . . **$159.95**



Bencher Copymate

The new Bencher Copymate offers professional Bencher quality at a modest price.

The Copymate features:

- 19" x 20" heavy baseboard with a net 16" x 20" working area
- 36" fluted column anodized in professional black
- Counterbalanced carriage for 35mm which includes in/out centering adjustment
- Bencher no-shift brake
- Acceptance of the following Bencher accessories; Polarizing filter kit, Copy Holddown Easel, Camera Quick Release, and Column Scale

Bencher Copymate stand
BN4005 . . . . . **$199.95**

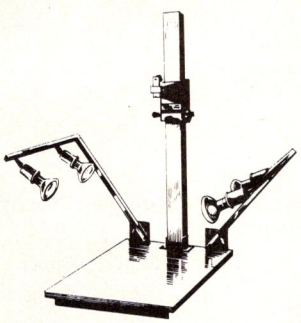
Bencher Copymate Quartz Copy Outfit—includes 2 quartz lights, arms and lamps with stand. **BN4000** **$299.95**

Bencher Copymate Quartz Light Set
BN4010 . . . . . **$109.95**

Bencher Copymate Copy Holdown
BN4030 . . . . . **$79.95**

Bencher Copymate Polarizing Filter Set
BN4035 . . . . . **$129.95**

Bencher Copymate Column Scale
BN4040 . . . . . **$24.95**



Technal TC-1 Copy Stand

Overall Height: 43"; Baseboard Size: 20" x 27"; Working Heights: Min. 9¾." Max. 40¾"; Crossarm Adjustments: Min. 6¾," Max. 10½."
BG5115 . . . . . **$249.95**

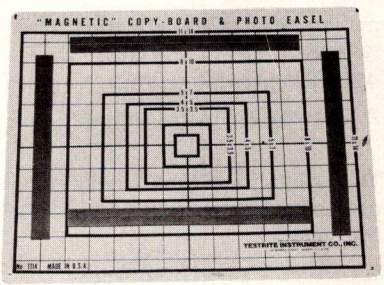
Copy Light Assembly for TC-1.
BG5175 . . . . . **$119.95**

Bowens Copy Equipment

Bowens Copytran. Compact slide duplicator features daylight balanced flashtube, modeling lamp which allows metering of slides through camera, and universal mounting stage to accept most 35mm SLRs with a normal macro set for 1:1. Accommodates both 35mm and 6 x 6cm mounted slides. Voltage stabilized. Dimensions: 8"(H) x 8½"(W) x 14½"(L).
BW5700 . . . . . **$239.95**

Bowens Illumitran. With bellows unit and universal transparency holder for mounted slides in 2" x 2" and 2¾" x 2¾" mounts, plus unmounted transparencies up to 2¼" x 2¾." (Without lens adapter and camera body adapter.)*
BW5501 . . . . . **$499.95**

Bowens Illumitran 3C. With contrast control unit. (Without lens adapter and camera body adapter.*)
BW5503 . . . . . **$679.95**

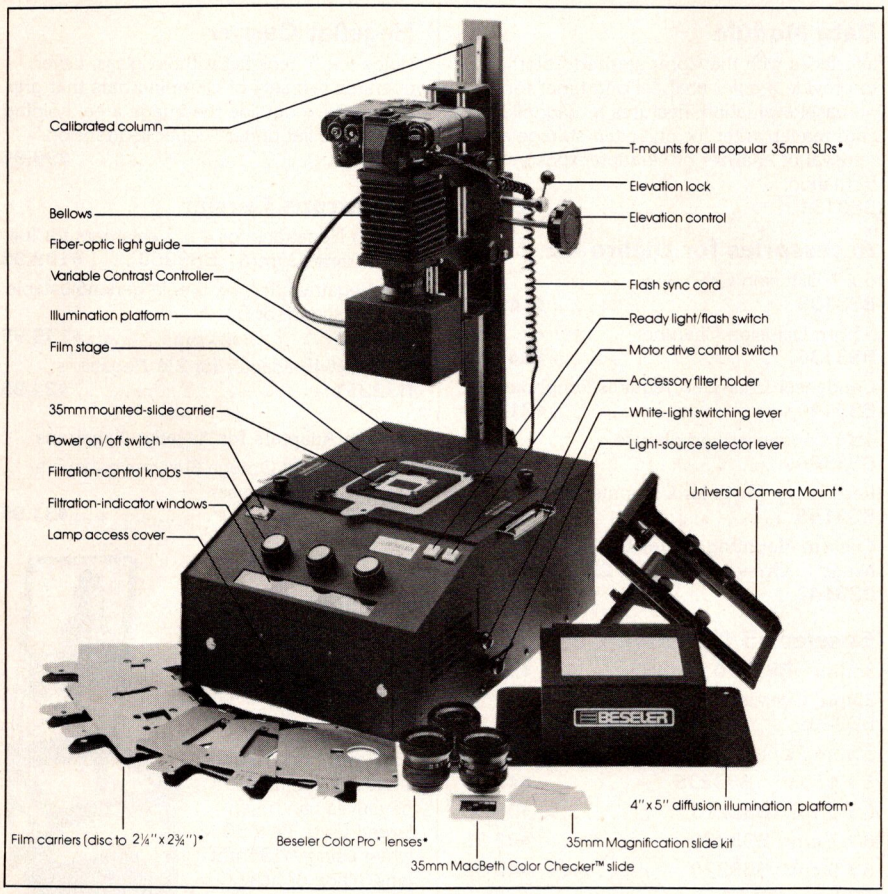


Testrite Magnetic Copy Board

Holds copy flat, mounts on wall or copy stand. Prevents hot spots.
No. 1114 Board with two 8" and two 10" strips. **MS4190** **$18.95**

No. 1620 Board with two 10" and two 14" strips. **MS4192** **$25.95**

Beseler Dual-Mode Slide Duplicator



*NOTE: camera body and optional accessories not supplied.

BESELER DUAL-MODE SLIDE DUPLICATOR & INTERNEGATIVE MAKER

Producing fast, accurate duplicates of original transparencies, in house, is finally within the reach of the small Audio Visual Department or Photo Lab.

PROBLEM: The colors in my duplicates don't match the original.

PROBLEM: My duplicates have more contrast than the original.

PROBLEM: The shadows in my original have a blue cast.

PROBLEM: I'm not certain whether I'll standardize on daylight or type B film.

PROBLEM: My lab is only set up for making prints from color negatives. To print color slides with high quality I need a low cost system for making internegatives.

The Beseler Dual-Mode Slide Duplicator addresses all of these problems besides giving you a level of creative control previously attainable only in systems costing thousands of dollars. Total color control is provided. The dichroic filter dials on the front panel allow the operator to "dial in" precisely the quantity of filtration (0 to 200 unit range) needed to make the duplicate match the original. By adjusting these dials it is actually possible to improve the coloration of many old or improperly processed transparencies. An original 35mm transparency of a Macbeth Color Checker is provided. This slide contains an assortment of 18 colors and 6 neutral tones (white through black). With this slide it is easy to test your film type to determine the correct settings to use on the dichroic filter dials.

A "Variable Contrast Controller" comes as standard equipment with the Beseler Dual-Mode Slide Duplicator. It mounts under the lens and gives you 10 different levels of contrast reduction that you can actually preview through the viewfinder of your camera. The contrast controller works by moving some of the light that normally illuminates the transparency up a fiber optic cable to a special beam splitter beneath the lens. The light being cast across the beam splitter causes the contrast of the duplicate to be reduced. A series of 10 neutral density filters, mounted on a wheel, control the amount of light going to the beam splitter and allow the operator to select the amount of contrast reduction by simply turning a dial on the side of the contrast controller.

The Beseler Dual-Mode Slide Duplicator has a special filter holder inside of the "Variable Contrast Controller". By inserting a complementary colored CC filter into this holder it is possible to remove any color cast which exists in the shadow areas without changing the overall color of the picture.

The Beseler Dual-Mode Slide Duplicator can accomodate any type of film because it allows you to choose between a daylight balanced electronic flash or, at the flip of a switch, you have a 3200 degree K quartz halogen light source. With either type of illumination you still have full color filtration and contrast control available. It is also possible to determine your electronic flash exposure by taking an exposure meter reading in the continuous light mode.

Production of internegatives from transparencies is easily accomplished by using any standard color negative film or by using Kodak Internegative Film. Full color and contrast control can be used just as in slide duplicating.

Other significant features include:

- Easy adaptability to virtually any 35mm SLR camera. Use a standard T-Mount (not included) to mount your camera to the top of the bellows.
- Accepts any "Leica Mount" (39mm screw in) enlarging lens or any T-Mount lens at the bottom of the bellows. Use of a high quality 80mm or 90mm focal length enlarging lens is recommended for 35mm work.
- Illumination of originals up to 6× 7 cm is standard. An optional diffusion chamber increasing the coverage to 4 x 5 inches is optional.
- A 3 position filter holder is located immediately below the transparency holder. It will hold virtually any type of correction or special effects filter you may want to use.
- Motor drive cameras can be plugged directly into the duplicator. This will allow you to "trip" your camera and advance the film by pressing the "Motor Drive" button on the front panel.
- Holders for film formats from Disc film through 6 x 7 cm are available.
- With the Universal Camera Mount (optional) most medium and large format cameras can be used.

The Beseler Dual-Mode Slide Duplicator comes complete with: 2 x 2 mounted slide holder, 35mm film carrier, flash sync cord, dust cover, bellows, film stage accessory holder, 250W quartz halogen lamp, flash tube, magnification slide kit, and Macbeth Color Checker 35mm slide.

BS6000 ..... **CALL**

T-Mount Adapters

T-Mount for Nikon Cameras
BR6602 ..... **$7.95**

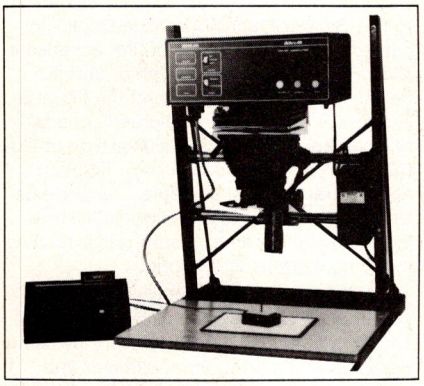
T-Mount for Canon Cameras
BR6600 ..... **$7.95**

T-Mount for Minolta Cameras
BR6604 ..... **$7.95**

T-Mount for Pentax-K
BR6606 ..... **$7.95**

T-Mount for Pentax Screw
BR6608 ..... **$7.95**

Beseler Enlargers



Beseler 45MXII Enlarger

Beseler 45MXII Chassis—Features rugged motorized elevation control and oversized baseboard for prints up to 16 x 20.
BS3000 ..... **$499.95**

Beseler 45MXII Variable Condenser Head
BS3300 ..... **$199.95**

Beseler Dichro 45 Computerized Colorhead

This state of the art colorhead actually reads the color of the light in the mixing chamber for accurate repeatable filtration. The custom designed 250 watt quartz halogen lamp provides extra-ordinarily bright, even illumination. Built-in power supply and voltage stabilizer.
BS3130 ..... **$899.95**

New Beseler Dichro 45S Colorhead

This low priced 4 x 5 colorhead has all the features of the Computerized Colorhead—except the computer. Features include: 0-200 CC filtration, "paper saver circuit," and built-in voltage stabilized power supply.
BS3128 ..... **$549.95**

Data Module

Interfaces with the Computerized Colorhead to provide a color analyzer and timer for on-easel evaluation. Features a magnetic card reader/writer for unlimited storage and retrieval of analyzer or filtration/exposure information.
BS3131 ..... **$899.95**

Accessories for Dichro 45

6 x 7 Diffusion Chamber
BS3135 ..... **$149.95**

35mm Diffusion Chamber
BS3136 ..... **$149.95**

Condenser Chamber (requires lamphouse)
BS3140 ..... **$214.95**

45M Condenser Lamphouse
BS3300 ..... **$199.95**

Repl. Lamp for Color Computer head
BS3145 ..... **$27.95**

Custom Mounting Kit for Beseler Colorheads to Omega D2, D5, & D6 enlargers.
BS3142 ..... **$119.95**

Beseler 45 Negative Carriers

35mm **BS3210** **$39.95**
35mm Oversize 25 x 37
BS3205 ..... **$39.95**
35mm Mounted Slide **BS3211** ... **$39.95**
6 x 4.5 cm **BS3235** **$42.95**
6 x 6 cm **BS3215** **$39.95**
6 x 7 cm **BS3230** **$39.95**
6 x 9 cm **BS3220** **$42.95**
3¼ x 4¼ Polaroid Pack
BS3245 ..... **$42.95**
4 x 5 cut film **BS3225** **$39.95**
4 x 5 Universal Glass
BS3240 ..... **$49.95**
Call Calumet for Beseler Lensboard information

Negaflat Carrier

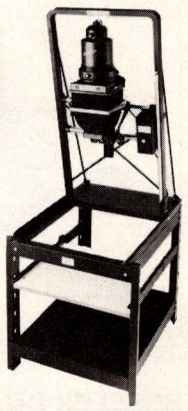
Holds 4 x 5 negs flat without glass. Lever operates two sets of clamping bars that grip the negative outside the image area, holding it taut and flat under "controlled tension."
BS3260 ..... **$99.95**

Negatrans Carrier

35mm Negatrans for 4 x 5 enlargers for full or ½ frame 35mm **BS3250** **$109.95**
2¼ Negatrans for 4 x 5 enlargers adjustable for 2¼ square or 6 x 7.
BS3255 ..... **$139.95**
Drop-in 645 adapter for 2¼ Negatrans
BS2251 ..... **$24.95**

Omega Adapters for Negaflat-Negatrans
Adapter for all Omega D series enlargers except D-2 condenser.
BS3275 ..... **$31.95**

Beseler Adjust-Table



A special table for Beseler 4 x 5 enlargers, allowing the enlarger's baseboard to be "dropped" for making oversized prints. 4 x 5 negatives can be enlarged up to 24 x 30 in. when using a 135mm lens. Made of heavy gauge steel for vibration-free support.

For 45M enlargers. Size 31"H x 29"W x 31½"D. **BS3050** **$199.95**
For CB7 enlargers. Size 31"H x 25"W x 38"D. **BS3057** **$199.95**

New Beseler/Minolta 45A Enlarger Light Source—Now Available!

The future is here! The new and totally unique Beseler/Minolta 45A Enlarger Light Source reflects the latest advances in color illumination technology—no moving parts, entirely solid-state and powerful pulsed xenon flashtubes that separately expose the red, green and blue color layers of your paper for reliably consistent and accurate exposures. Each tube is microprocessor controlled to flash the precise amount of filtered light required for repeatably outstanding color and black and white prints.

This self-monitored, closed-loop system is regulated by its own super-intelligent and versatile System Controller. As its name implies, it controls every operation and eliminates the need for separate timers, analyzers and voltage stabilizers. The controller does the work of all these and does it better, faster and more accurately.

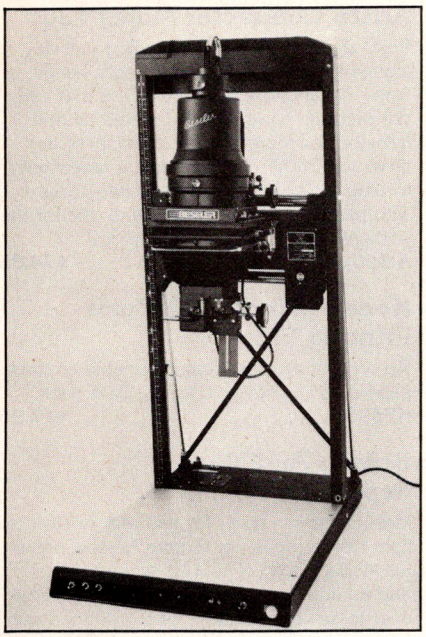
The System Controller features a multi-purpose, color-coded LCD display, full-command keyboard, five programmable memory banks and more. The easy to use, built-in analyzer can be programmed by pushing two buttons: exposure and color data, read by the low-profile, cosine-corrected easel probe, are instantaneously stored in one of the five memory banks. During the analyzation of new images the color and density data are automatically self-set to reproduce repeatable results immediately in the next print. In addition, the analyzer can average up to 15 points when programming or measuring reference tones, to further enhance accuracy and control.

Outstanding features include:

- Compact/Vibration-Free Colorhead—no cooling fans, no knobs and no moving filters, gears or cams. Just reliable simplicity.
- Unparalleled Dodging and Burning-in Control and Repeatability—with provisions to work with one color at a time, making it ideal for producing color separations for dye transfers.
- Automatic Ring-Around Sequence—faster and easier than any other system.
- Materials Mode Selector—whether you're printing from color negative, positive or black and white materials, the system automatically compensates for printing changes.
- Diffusion Illumination—produces exceptionally even brightness and reduces spotting.
- Failsafe Memory—built-in NiCad battery back-up system protects your programs from power-failure.

The Beseler/Minolta 45A Enlarger Light Source fits all Beseler 4 x 5 enlargers and comes complete with mounting brackets for all Omega D series enlargers.
BS3010 ..... **CALL**

Beseler CB7—The Ultimate Enlarger!



Structural rigidity and human engineering set the Beseler CB7 apart from other enlargers. Based on 4 points of support, 11 points of rigidity. 5 triangular truss areas and a solid steel T-beam base frame assembly, the CB7 is engineered to be vibration-free, delivering a new standard of clarity and sharpness.

Super-sized 7 inch condensers provide an effective 50% increase in coverage at the outer portions of the film — at the corners. There is an absolutely flat and even field of illumination for the entire image area. There are no hot spots and no center floodlighting. Illumination and dispersion are near perfect. The Beseler "cone of light" gives this superior uniformity to all negative sizes from 8mm to 4 x 5 inch without ever changing condensers.

CB7 FEATURES:

- All controls feature positive mechanical locks or unidirectional drive gear.
- Fingertip electrical controls.
- Motorized elevation
- Motorized variable speed focus with optional remote control.
- Negative rotation: 270°
- Negative Stage Tilt: calibrated ± 7½° w/micrometer drive.
- Lens Stage Tilt: calibrated ± 15° w/ micrometer drive.

CB7 SPECIFICATIONS:

- Height (fully extended)—with condensor head: 71″
- Baseboard Dimensions—Overall: 36 ¾″ (D) x 21 ½″ (W)
  Usable: 25″ (D) x 21″ (W)
- Weight (chassis only)—140 lbs.
- Line Voltage—120V ± 10%, 60 Hz

CB7 Super Savings

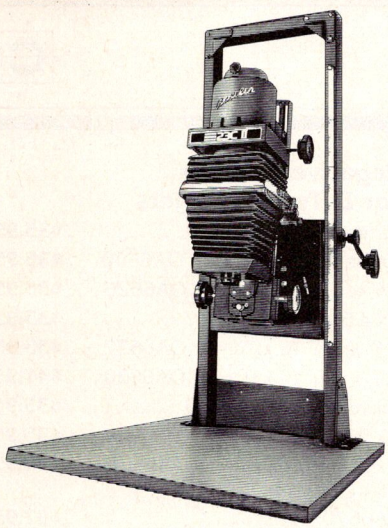
Beseler CB7 Chassis
BS3020..... **$1295.00**

Beseler CB7 with Condenser Lamphouse
BS3020/3022.... **$1395.00**

Beseler CB7 with Dichro Color Computer
BS3020/3130.... **$1995.00**

Beseler CB7 with Beseler/Minolta 45A
BS3020/3010.... **$2795.00**

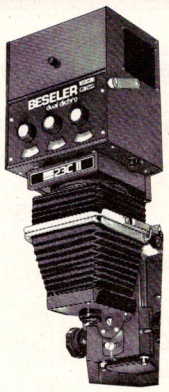
Beseler Medium Format Enlarger



Beseler 23CII Enlarger

This rugged 2¼ x 3¼ enlarger has been a standard in the industry for years. Features rack and pinion elevation control with concealed counterbalance spring. Tilting lens stage, lamphouse tilts 90° for wall projection. Filter drawer above condensers.
BS2000..... **$249.95**

23CII XL Enlarger. Offers 8½″ longer track and oversized baseboard.
BS2006..... **$299.95**



Dual Dichro-S Colorhead

Can be used with or without condensers. Features white light focusing lever, 0-200 filtration, and built-in solid state stabilized power supply
BS3008..... **$329.95**

35mm Mixing Chamber for Dual Dichro 23
BS3305..... **$54.95**

50mm Beseler Lens Kit for 23C

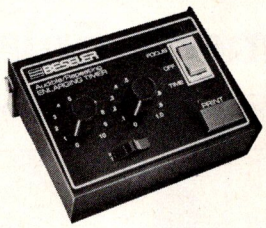
Consists of 50mm f3.5 Beseler lens with lensboard and 35mm carrier.
BS2510..... **$71.95**

23C Negative Carriers

35mm BS2210..... **$27.95**
35mm mounted slide BS2215... **$31.95**
6 x 4.5 BS2205..... **$29.95**
6 x 6 BS2225..... **$29.95**
6 x 7 BS2240..... **$27.95**
35mm Negatrans BS2255..... **$79.95**

Dichro-S Replacement Lamp

250W Replacement lamp for Dichro-S Colorhead BS3145..... **$27.95**



Beseler Audible Repeating Timer

Electronic timer with .1 to 110 second range and audible tone. Luminous dials and large "print" button, switch for silent or audible operation. Two grounded outlets, one for the enlarger and one for a safelight, each can handle up to 500 watts.
BS4500..... **$79.95**

Foot switch for Beseler Audible Repeating Timer. BS3133..... **$25.95**

Aristo Bes 23-C

This cold light head was especially customized to fit the popular Beseler 23-C enlarger.

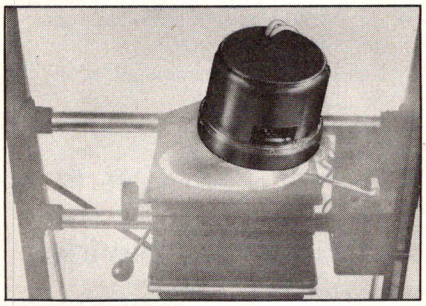
Equipped with thermostat control insuring uniform densities in sequential printing regardless of the duration of the exposure.

The unit installs easily in about ten minutes. AI1015..... **$149.95**

Prices and specifications subject to change without notice.

Aristo Cold Light Sources

Aristo Cold Light Sources



Aristo Cold Light Sources offer the following black and white printing advantages:

- Reduces negative "pop", buckle and warping. The housing remains at a low 105° constant temperature.
- Eliminates Hot Spots.
- Faster printing speed . . . up to 2½ times normal which means greater sharpness because of reduced vibration.
- Long lamp life—approximately 10,000 hours
- Less print spotting—The Aristo Highly Diffused Light Source suppresses dust and scratches on the negative.
- Eliminates the Callier effect for brilliant prints as close to contact print quality as possible from an enlarger.
- Easy to install on most enlargers.

Aristo D-2 Cold Light Source fits Omega *D series and Beseler** 4 x 5 enlargers
AI1000 . . . . . **$129.95**

*For Omega D Enlargers. Requires Omega D condenser lens collar supplied with Omega Condenser Lamp House.

**For Beseler 4 x 5 Enlargers. Requires Beseler Adapter Collar
AI1005 . . . . . **$17.95**

W45 Replacement Lamp for D-2
AI2000 . . . . . **$57.95**

Aristo Bes 23-C Cold Light Source

Fits Beseler 23-C Enlarger. No adapter required. Equipped with thermostat control to insure uniform densities in sequential printing, regardless of the duration of the exposure. Installs easily. **AI1015** **$149.95**

W45 Replacement Lamp for Bes 23-C
AI2010 . . . . . **$39.95**

Aristo B-22 Cold Light Source

Fits Omega B22 or B66 enlarger. The printing speed of the B-22, in most instances, will be faster than with the bulb and condensers in enlarger. **AI1010** **$149.95**

W45 Replacement Lamp for B-22
AI2015 . . . . . **$39.95**

Aristo STD45 Cold Light Source

Can be adapted to other 4 x 5 or homemade enlargers. Power consumption: 35 watts on 115 volts AC. Size: 4 ½ x 5 ½ x5". **AI1025** **$129.95**

W45 Replacement Lamp for STD 45
AI2020 . . . . . **$42.95**

Aristo Contractor Model 1200

Solid state booster and switching unit designed to isolate Aristo's cold light heads from digital and solid state timers that cannot properly handle loads created by the transformer. Increases the capacity of any timer to 1200W. This unit has a receptacle to plug the cold light into and two cords with plugs: one for the timer and one for the 110v AC outlet. Size—5" x 3½" x 2".
AI3500 . . . . . **$74.95**

Kodak 150mm 40Y Color Printing Filter

Recommended for printing variable contrast papers with Aristo cold lights. Twin pack.
KF5335 . . . . . **$16.95**

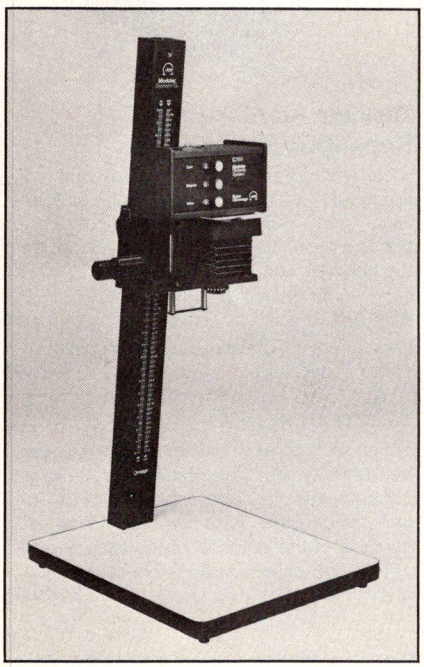
Beseler Audible Repeating Timer

Ideal electronic timer for use with Aristo cold light heads (does not require Aristo Contactor Model 1200). .1 to 110 second range and audible tone. Luminous dials and large, easy-to-see print button. Two grounded outlets can handle up to 500W each. Timer can produce a beep every second for dodging and burning reference operations. Switch for silent or audible operation.
BS4500 . . . . . **$79.95**

Footswitch for Beseler Audible Repeating Timer. **BS3133** **$25.95**

Prices and specifications subject to change without notice.

Omega Enlargers & Accessories



Special Offer

C760XL Dichroic Enlarger
OA5005/5015 . . . . . **$349.95***

Omega C760 XL Modular Enlarger System

C760 XL Chassis. Maximum ht. 50", prints up to full 16 x 20. **OA5005** **$219.95**

C760 Condenser Lamphouse
OA5010 . . . . . **$86.95**

Filter Drawer for condenser lamphouse.
OA5011 . . . . . **$12.95**

C760 Dichroic Lamphouse

Supplied with 35mm and 2¼ x 2¾ mixing chambers and 3 light attenuators.
OA5015 . . . . . **$199.95**

Solid State Voltage Stabilizer for 760 Dichroic Lamphouse **OA6470** **$69.95**

Carriers for C760 Enlargers

35mm **OA5035** **$26.95**
35mm Mounted Slide **OA5037** . . . **$26.95**
6 x 4.5 **OA5040** **$26.95**
6 x 6 **OA5043** **$26.95**
6 x 7 **OA5045** **$26.95**

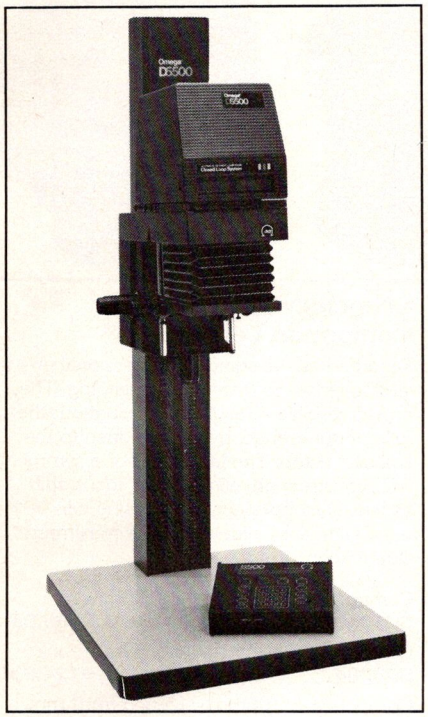
Negative Carriers For D-Type Enlargers

35mm **OA6609** **$35.95**
35mm Mounted Slide **OA6680** . . . **$35.95**
2¼" x 2¼" (6 x 6cm) **OA6626** . . . **$35.95**
6 x 4.5cm **OA6623** **$35.95**
2¼" x 2¾" (6 x 7cm) **OA6627** . . . **$35.95**
2¼" x 3¼" (6 x 9cm) **OA6630** . . . **$41.95**
Polaroid 105 **OA6640** **$35.95**
4 x 5 Cut **OA6645** **$35.95**
4 x 5 Universal Glass **OA6660** . . . **$74.95**
35mm Glass Rapid Shift
OA6670 . . . . . **$67.95**
2¼" x 2¼" Glass Rapid Shift
OA6671 . . . . . **$67.95**

FREE Omega Timer* with purchase of C760XL condenser or Dichroic Enlarger. Call for details.

*Limited offer. Subject to change.

Omega Enlargers—New Low Prices!!



Omega D5500 Dichroic Enlarger Package Includes:

- D550 Chassis **OA4000**
- Baseboard **OA4005**
- Auto CLS Lamphouse **OA4010**
- Auto CLS Controller II **OA4020**
- Three Lens Turret **OA4165**
- Micromega Critical Focuser **OA7710**
- Plus FREE VCR offer

Special Package Price **$1599.95**

Omega D5500 Dichroic Enlarger with Translator Controller

Special Package Price. **$2999.00**

Omega D5500 Condenser Enlarger Package Includes:

- D5500 Chassis **OA4000**
- Baseboard **OA4005**
- D5500 Condenser Lamphouse **OA4025**

Special Package Price **$799.95**

Omega D5500 Chassis

OA4000 . . . . . **$539.95**

Omega D5500 Baseboard
OA4005. . . . . **$49.95**

Omega D5500 Universal Condenser Lamphouse **OA4025** **$239.95**

Omega D5500 Auto CLS Lamphouse

OA4010 . . . . . **$749.95**

Omega D5500 CLS Controller

OA4020 . . . . . **$639.95**

Omega D5500 Lens Mounts

Flat single lens mount (replacement) requires lens plate. **OA4160**. **$21.95**

Three lens turret (requires special lens plates). **OA4165** **$159.95**

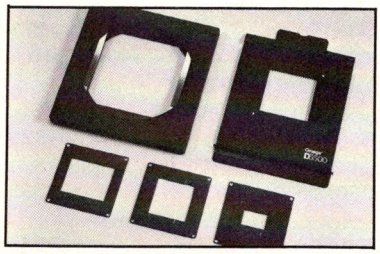
FREE VCR with purchase of D5500 Color Enlarger!

Purchase an Omega D5500 enlarger with CLS Lamphouse and Controller and Berkey Marketing will send you an instructional video tape as well as a FREE Video Tape Recorder to play it on. The Free VCR is a G.E. 6002, 4 event, 14 day programmable model with front loading and remote control. Offer expires September 30, 1985.

New Omega Pro Lab II Enlarger Includes:

- D5500 Chassis **OA4000**
- Baseboard OA4005
- DV Variable Condenser Lamphouse **OA6250**
- Plus FREE Three Lens Turret **OA4165**

Special Package Price **$699.95**



Omega D5500 Negative Carriers

Carrier Holder C (for masks up to 6 x 7)
OA4050. . . . . **$42.95**

Carrier Holder D (for masks 6 x 9 to 4 x 5)
OA4052. . . . . **$42.95**

Carrier Cassette for Film Strip Masks
OA4054 . . . . . **$149.95**

Rapid Shift Carrier Holder (C size)
OA4065. . . . . **$48.95**

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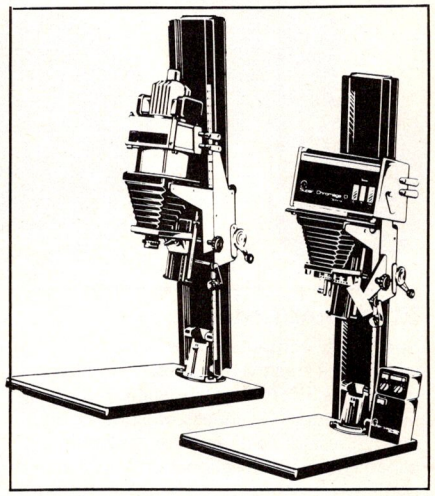
To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)



Omega D5-X1 Dichroic Enlarger Package Includes:

- D5-XL Universal Chassis **OA6226**
- Baseboard **OA6228**
- D Dichroic II Lamphouse **OA6440**
- Chromegatrol **OA6445**
- Three Lens Turret **OA6735**
- Micromega Critical Focuser **OA7710**

Special Package Price **$1459.95**

Omega D5XL Universal Enlarger System

Omega D5XL Universal Chassis Includes: Chassis and Girder Assembly, and universal mounting lever kit. (Less Baseboard)
OA6226 . . . . . **$519.95**

Omega D5XL Baseboard
OA6228. . . . . **$49.95**

DV Universal Variable Condenser Lamphouse
OA6250 . . . . . **$219.95**

D Dichroic II Lamphouse
OA6440 . . . . . **$589.95**

Dichroic II Lamphouse Accessories Standard Power Supply **OA6443** **$169.95**

Voltage Stabilizer **OA6475**. **$159.95**

DB Light Multiplier for negatives up to 2¼" x 2¾" **OA7150** **$129.95**

250 Watt Halogen Lamp for Dichro II
OA6925. . . . . **$21.95**

Chromegatrol Power Supply/Timer
OA6445 . . . . . **$299.95**

Chromegatrol Footswitch
OA6447. . . . . **$49.95**

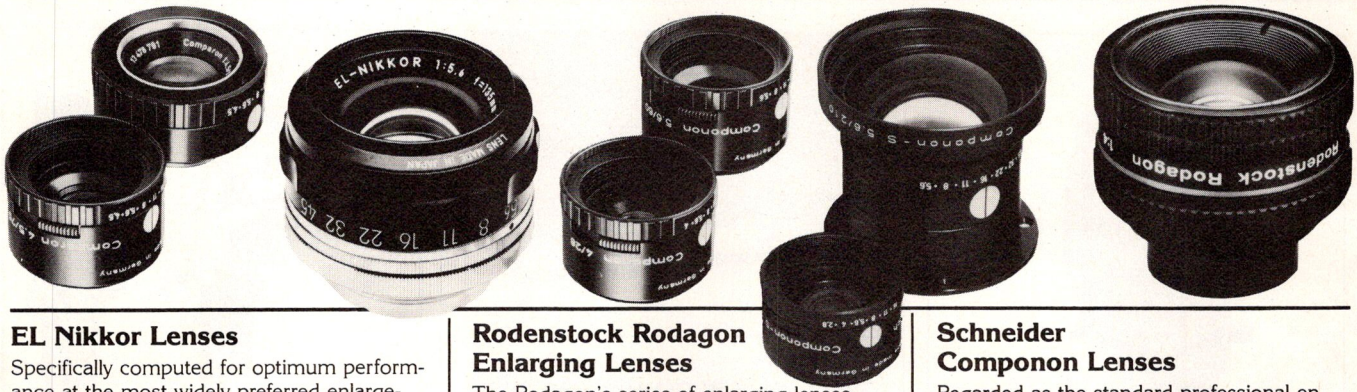
Three lens turret (Oval plates not included.)
OA6735 . . . . . **$139.95**

Slide-in Single Lens Mount must be used with appropriate oval lens plate.
OA6740. . . . . **$26.95**

Slide-in Single Lens Mount as above, but for lenses shorter than 50mm
OA6743. . . . . **$29.95**

Micromega Dual Range Focus Kit
OA7115. . . . . **$39.95**

Enlarging Lenses



EL Nikkor Lenses

Specifically computed for optimum performance at the most widely preferred enlargement sizes. EL Nikkor lenses offer resolving power, contrast, evenness of illumination and flatness of field far in excess of the capabilities of conventional optics. They are corrected for chromatic aberration beyond the visible spectrum, insuring against focus shift at every aperture and magnification. All EL Nikkor lenses, 50mm to 150mm, are supplied in universal (39mm) "Leica" thread mount.

EL Nikkor 50mm f/2.8—f/16, 39mm mnt.
NL8052 . . . . . **$59.95***

EL Nikkor 50mm f/4.0—f/16, 39mm mnt.
NL8050 . . . . . **$39.95***

EL Nikkor 63mm f/2.8N—f/16, 39mm mnt. **NL8062** **$99.95***

EL Nikkor 75mm f/4.0, 39mm mnt.
NL8075 . . . . . **$69.95***

EL Nikkor 80mm f/5.6—f/45, 39mm mnt.
NL8080 . . . . . **$89.95***

EL Nikkor 105mm f/5.6—f/45, 39mm mnt. **NL8105** **$119.95***

EL Nikkor 135mm f/5.6—f45, 39mm mnt.
NL8135 . . . . . **$159.95***

EL Nikkor 150mm f/5.6—f/45, 39mm mnt. **NL8150** **$199.95***

*Does not include retaining ring.

Long Focal Length EL Nikkor Lenses

EL Nikkor 180mm f5.6-f45 62mm mnt.
NL8180 . . . . . **$349.95**

EL Nikkor 210mm f5.6-f45 72mm mnt.
NL8210 . . . . . **$369.95**

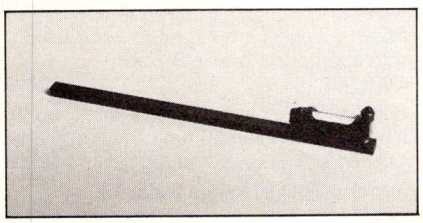
EL Nikkor 240mm f5.6-f45 82mm mnt.
NL8240 . . . . . **$559.95**

EL Nikkor 300mm f5.6-f45 100mm mnt.
NL8300 . . . . . **$799.95**

EL Nikkor 360mm f5.6-f45 130mm mnt.
NL8360 . . . . . **$1149.95**

39mm Leica Retaining Ring

jam nut **BS2145** **$3.95**



Rodenstock Rodagon Enlarging Lenses

The Rodagon's series of enlarging lenses exceed the most demanding professional requirements. The computer-designed six element formula utilizes special rare earth glass for outstanding color correction.

28mm f4.0, 39mm mnt.
RS5000 . . . . . **$243.95**

35mm f4.8, 39mm mnt.
RS5005 . . . . . **$197.95**

50mm f4.0, 39mm mnt.
RS5015 . . . . . **$79.95**

50mm f2.8, 39mm mnt.
RS5010 . . . . . **$89.95**

80mm f4.0, 39mm mnt.
RS5025 . . . . . **$119.95**

80mm f5.6, 39mm mnt.
RS5030 . . . . . **$89.95**

105mm f5.6, 39mm mnt.
RS5035 . . . . . **$159.95**

135mm f5.6, 39mm mnt.
RS5040 . . . . . **$169.95**

150mm f5.6, 50mm mnt.
RS5045 . . . . . **$219.95**

Long Focal Length Rodagon Enlarging Lenses

Rodagon 180mm f5.6, 50mm mnt.
RS5050 . . . . . **$329.95**

Rodagon 210mm f5.6, 58mm mnt.
RS5055 . . . . . **$399.95**

Rodagon 240mm f5.6, 72mm mnt.
RS5060 . . . . . **$599.95**

Rodagon 300mm f5.6, 72mm mnt.
RS5065 . . . . . **$899.95**

Rodagon 360mm f6.8, 90mm mnt.
RS5070 . . . . . **$1089.95**

Rodenstock Apo-Rodagon Lenses

Produce excellent contrast in fine detail at the edges of the image, even at wide apertures. Ideal for critical high magnification and extreme enlargements.

Apo-Rodagon 50mm f2.8 39mm mnt.
RS5080 . . . . . **$199.95**

Apo-Rodagon 90mm f4.0 39mm mnt.
RS5090 . . . . . **$329.95**

Calumet Enlarger Alignment Tool

Prints not sharp? Your enlarger may be out of alignment. The Calumet Alignment Tool with built-in adjustable spirit level is a precision instrument that permits you to properly align your enlarger for the sharpest possible prints. **CP9230** **$39.95**

Schneider Componon Lenses

Regarded as the standard professional enlarging lenses for true color enlarging. They provide excellent resolution throughout the full aperture range, from wide open to the smallest f/stop. The lenses are of a symmetrical construction, eliminating "focus shift" as lens is stopped down. Focusing can be done with lens "wide open" for maximum illumination.

Componon-S 50mm—f/2.8, 39mm mnt.
SC5050 . . . . . **$89.95***

Componon-S 80mm—f/4.0, 39mm mnt.
SC5084 . . . . . **$124.95***

Componon-S 100mm—f/5.6, 39mm mnt.
SC5100 . . . . . **$139.95***

Componon-S 135mm—f/5.6, 42mm mnt.
SC5135 . . . . . **$169.95**

Componon-S 150mm—f/5.6, 42mm mnt.
SC5150 . . . . . **$249.95**

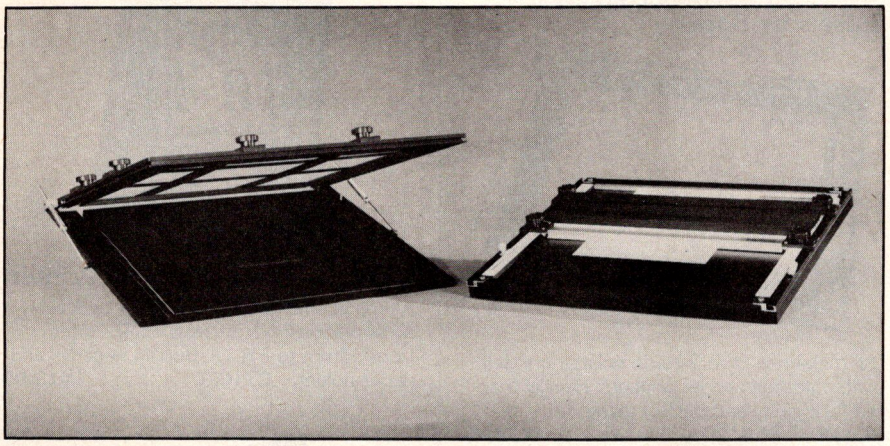
*Does not include retaining ring.

Choosing Enlarger Lens Focal Length

Choosing the proper focal length to match your format size is extremely important. If the enlarging lens is too short (i.e. 50mm lens for 6cm x 6cm negatives), the lens will not cover the entire image area of the negative. This will create illumination fall off on the corners and, in extreme cases, will produce a circular image on the print. If the focal length is too long (i.e. 135mm lens for 35mm negatives), your image magnification will be hampered, allowing only small enlargements, even with the enlarger head at maximum column height.

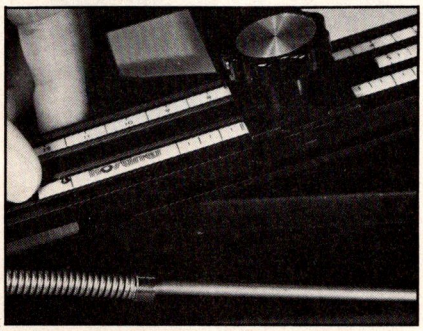
The first rule of thumb in choosing the proper focal length is that it should be at least the same focal length as the "normal" picturetaking lens for the format involved (i.e. 50mm lens for 35mm format, 80 mm lens for 6cm x 6cm, and 150mm for 4" x 5"). The focal length of the enlarging lens should be equal to or larger than the format diagnoal. One possible exception to this rule would be the use of a 135mm enlarging lens for 4 x 5 negatives. Although optimum performance will not be achieved through this combination, coverage is sufficient, making it a popular choice for 4 x 5 work.

Kostiner Easels



Kostiner Component Masking System

The Masker will help you make better pictures and add new dimensions to your darkroom technique. The format possibilities are limited only by your imagination!



The Masker lets you measure margins and image size, instantly and accurately, regardless of paper size or position on the baseboard. It allows fully adjustable outlines, hairlines or bold lines, anywhere and in any width. If your photograph requires a black border, the optional Reverse Border Printer will print fully adjustable black borders.

The Masker is made in a square format for continuous loading paper, either vertically or horizontally, from the front position. The stainless steel masking blades lock to the carriage with a three-part Delrin mold and locking knob designed so the blades must line up at 90 degrees to the carriage. The blades are instantly removable and are available in a variety of widths and shapes.

For Fast Delivery Call Free of Charge

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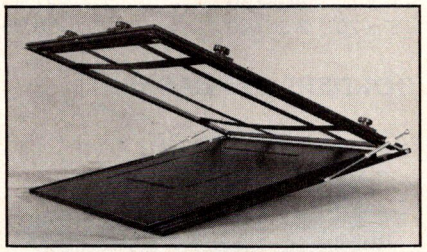
(In Illinois, call: 1-800-225-8601)



Kostiner Masking Easels

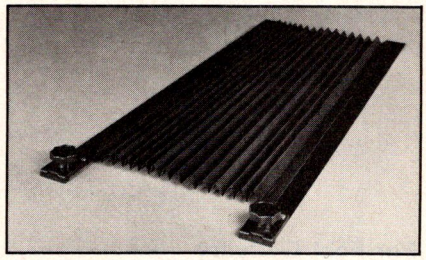
15 x 15 Masker with 4-1¼" masking blades
KS6000. . . . . **$139.95**

20 x 20 Masker with 4-1¼" masking blades
KS6020. . . . . **$225.00**

Accessories for 15 x 15 Masker

2" Masking Blade (each)
KS6002. . . . . **$17.95**

3" Masking Blade (each)
KS6003. . . . . **$19.95**



Penline Liner Adjustable (set)
KS6006. . . . . **$49.95**

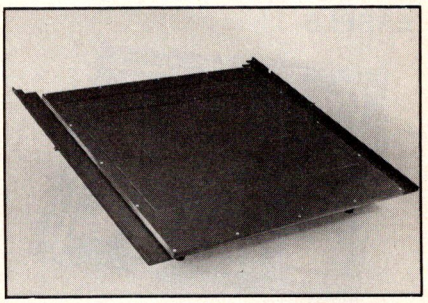
Accessories for 20 x 20 Masker

2" Masking Blade (each)
KS6022. . . . . **$23.95**

3" Masking Blade (each)
KS6023. . . . . **$28.95**

Call or write for detailed brochure.

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

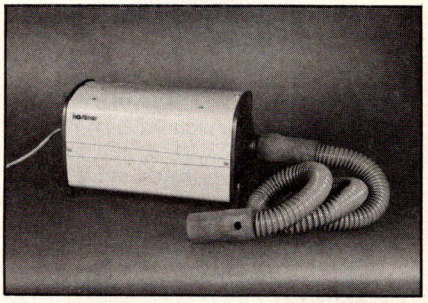


Kostiner Vacuum Base For 20 x 20 Masking Easel

Converts the 20 x 20 Masking Easel to a Vacuum easel. Air channel configuration designed to conform to 8 x 10, 11 x 14, and 16 x 20 paper sizes without having to block areas or adjust valves. Will operate with most any home vacuum, however under continual use it is recommended that a vacuum pump designed especially for this purpose be used.

A vertical and horizontal paper cleat is provided for easy paper alignment, a feature that comes in handy when using the vacuum easel as a copy stand base.

KS6055. . . . . **$160.00**



Kostiner Vacuum Pump

Designed specifically for the Kostiner Vacuum Easel, this quiet and efficient pump comes complete with air-hose assembly.

KS0000. . . . . **$300.00**

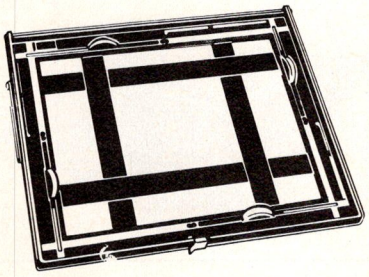
Kostiner Anti-Static Dust Removing Brush

Carbon-coated, acrlic-fiber brush will remove static electricity and dust from negatives, sheet film, enlarging lenses, glass plates or electronic parts. Neutralizes positive charged ions through resistance flow without radioactive elements. Brush may be washed with soap and water. Hardsome wooden handle provides comfortable grip.

KS7000. . . . . **$29.95**

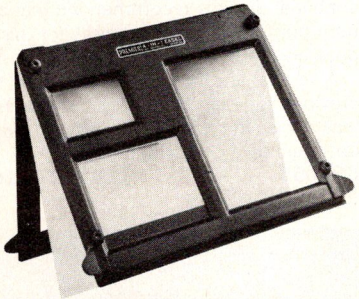
Easels and Proofers

ADJUSTABLE 4 BLADE EASELS



Coast 14 x 17 Professional Precision Easel

Handles all size paper up to 14″ x 17″. 4 overlapping, individually adjustable masking blades. All metal construction. Non-skid base. Excellent value.
CT1005 . . . . . **$59.95**

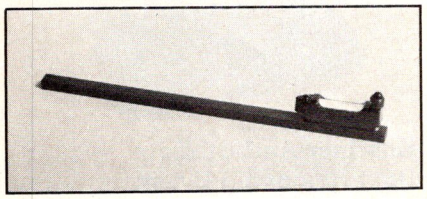


Premier 4-in-1 Enlarging Easel

Magnetic latching with four fixed frames with ¼″ margins—8″ x 10,″ 5″ x 7,″ 3½″ x 5,″ 2½″ x 3¼.″ White base, black frame.
PM6320 . . . . . **$22.95**

Did You Know?

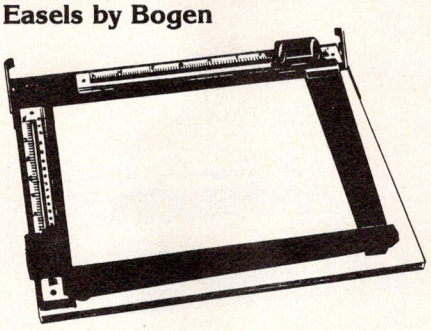
Enlarger alignment is an often overlooked element of the photographic process. Most photographers are aware of the importance of a top quality enlarging lens; however, the performance of even the best lenses will be greatly diminished if the enlarger is out of alignment. The Calumet Enlarger Alignment Tool is designed to help you accurately adjust the negative stage and the lens stage parallel to the baseboard. This alignment is most important when setting up a new enlarger, but periodic adjustment of all enlargers will assure optimum performance.



Calumet Enlarger Alignment Tool

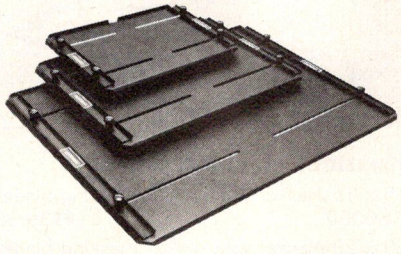
Prints not sharp? Your enlarger may be out of alignment. The Calumet Alignment Tool with built-in adjustable spirit level is a precision instrument that permits you to properly align your enlarger for the sharpest possible prints **CP9230** **$39.95**

Economy 2 Blade Adjustable Easels by Bogen



All metal precision 2-blade enlarging easels with automatic paper grippers. Heavily braced for rigidity and perfect flatness.
8″ x 10″ **BG6120** **$19.95**
11″ x 14″ **BG6130** **$27.95**
16″ x 20″ **BG6140** **$59.95**

BORDERLESS EASELS



Beseler Borderless Easels

Borderless, adjustable easels with an anti-reflective black finish. Features include rubber feet for greater stability and a small cut-out for easy lifting of paper.
8″ x 10″ Easel **BS8000** **$17.95**
11″ x 14″ Easel **BS8005** **$27.95**
16″ x 20″ Easel **BS8010** **$37.95**

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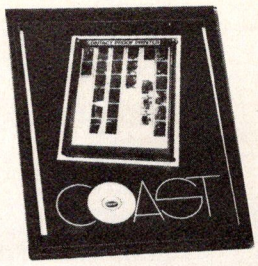
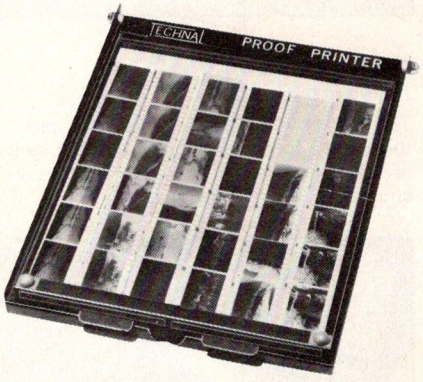


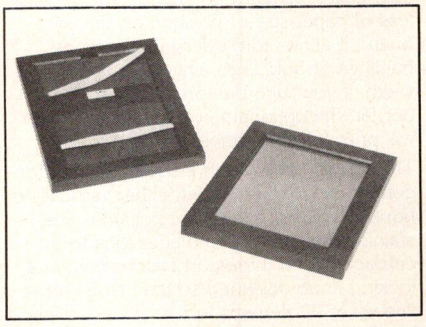
Universal Contact Proof Printer

All metal construction with solid optical glass pressure plate. Takes all film sizes from 35mm to 8 x 10. Built-in negative and paper holder. **CT1020** **$19.95**



Technal Proof Printer

Features both a practical negative hold-down system, which will accommodate all film formats up to 8 x 10, and a printing paper locking guide. Hinged "book" design allows for quick and easy contact printing.
BG6750 . . . . . **$27.95**



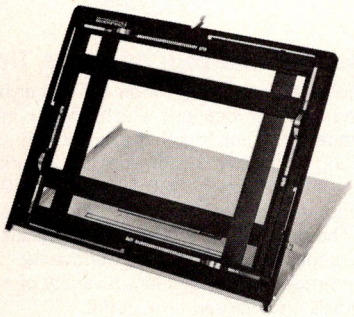
Premier Professional Print Frames

Solid wood construction with spring steel clamps. Assures perfect contact. Pressure back is felt lined. Frame glass is included.
Premier 8 x 10 Print Frame
PM6500 . . . . . **$24.95**
Premier 11 x 14 Print Frame
PM6520 . . . . . **$32.95**

Saunders Enlarging Easels

Adjustable 4 Blade Center-Masking Easels

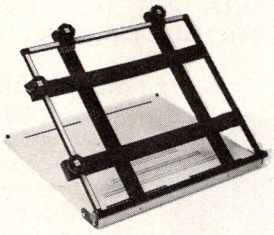
Center-masking easels remain conveniently centered on the baseboard regardless of print size or format.



Saunders 14 x 17 Adjustable Universal Easel

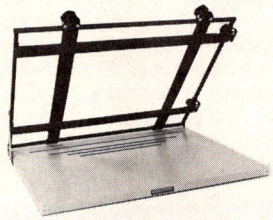
The original and still the most popular professional enlarging easel, Saunders' Universal 14 x 17 easel has been found in serious darkrooms since 1946. Beautifully made and extremely accurate. Four black-finished stainless steel blades hold paper extremely flat. Borders are individually adjustable on paper sizes up to 11 x 14; the masking assembly snaps out to give fixed 3/16" borders on 14 x 17. All-metal, rust-proof, and finished in focal yellow and black. Oversized non-skid base pads.

SO6210 . . . . . **$89.95**



Saunders 11 x 14 Master Easel

SO6310 . . . . . **$159.95**

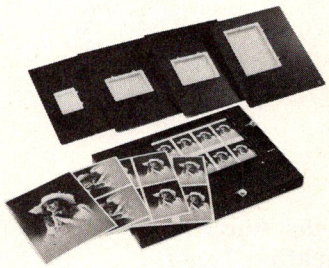


Saunders Heavy Duty Professional Easels

These easels all feature a rigid, calibrated masking frame and a precise blade adjustment system driven by large control knobs. Stretcher-levelled steel construction, focal yellow and black finish, 1" high autofocus base, fully adjustable for prints down to passport.

16" x 20" Easel **SO6250** **$299.95**

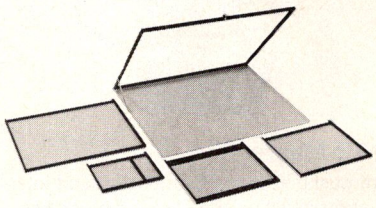
20" x 24" Easel **SO6255** **$449.95**



PR810 8" x 10" Print and Repeat Easel

The original light-tight professional multi-print easel for 8 x 10 paper. Comes complete with a set of four light-tight hinged cup masks. Cups are recessed to the focal plane to permit accurate focusing with paper in the easel. Easel remains stationary while the paper carrier moves. Prints 8-wallets, 4-3½" x 5", 4-4" x 5", 2-5" x 7", or full 8" x 10". All-metal, with 1" high autofocus base.

SO6410 . . . . . **$245.95**



Saunders Single Size Easels

Saunders offers a wide selection of hinged, single-size easels, both in standard and special purpose sizes. All-metal, with machined steel hold-down frame and heavy, non-skid base which permits rapid loading/unloading without movement. 16 x 20 size has Stay-Open Hinge and front catch.

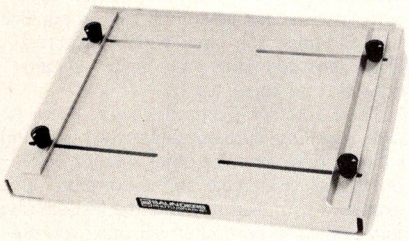
8 x 10 Single Size **SO6050** **$24.95**

11 x 14 Single Size **SO6055** **$27.95**

16 x 20 Single Size **SO6060** **$69.95**

35mm Full Frame: 8 x 10
SO6062 . . . . . **$29.95**

Square Format on 8 x 10
SO6064 . . . . . **$29.95**



Saunders Deluxe Borderless Easels

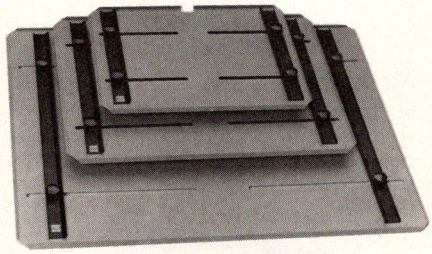
Saunders Deluxe Borderless Easels use patented "Cone of Light" angled retaining bars to hold paper flat for full borderless image area. Double or triple hold-down bars, 1" autofocus base, focal yellow finish. All-steel construction, except 20" x 24" which is laminated high-density particle board.

8" x 10" **SO6120** **$22.95**

11" x 14" **SO6125** **$31.95**

16" x 20" **SO6130** **$75.95**

20" x 24" **SO6135** **$189.95**



Saunders Series 18 Borderless Easels

Series 18 easels, named for their photo gray finish, are economy borderless easels. Fast-working design with double retaining bars and a finger notch for easy paper removal. Strong, all-metal construction, with non-skid base pads. Choose from 3 sizes.

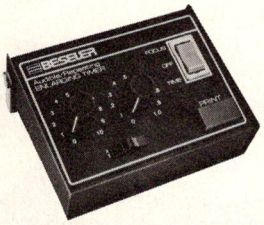
8" x 10" **SO6010** **$16.95**

11" x 14" **SO6012** **$26.95**

16" x 20" **SO6014** **$34.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call 312-860-7447)

Darkroom Timers

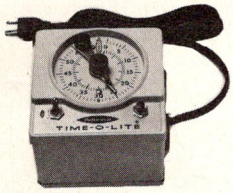


Beseler Audible Repeating Timer

Electronic timer with .1 to 110 second range and audible tone. Luminous dials and large "print" button, switch for silent or audible operation. Two grounded outlets, one for the enlarger and one for a safelight, each can handle up to 500 watts. Timer can produce beep every second for dodging and burning operations. **BS4500** **$79.95**

Footswitch for Beseler Audible Repeating Timer. **BS3133** **$25.95**

TIME-O-LITE TIMERS

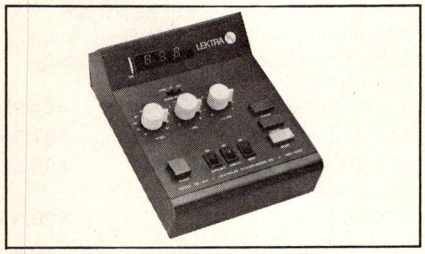


M-72 Master Timer

With pushbutton start, auto reset and interval and remaining time indicators. Heavy-duty motor with 750W load capacity. UL Listed. **TL6720** **$69.95**

GR-72 Enlarging Timer

With pushbutton start, auto reset and luminous dial. 750W load capacity. UL Listed.
TL6730 . . . . . **$45.95**



Lektra TM-851 Heavy Duty Digital Timer

This heavy duty enlarger timer offers three timing ranges at the flip of a switch:

- Standard Mode- .10 to 99.9 seconds.
- Critical Exposure Mode- .01 to 9.99 seconds.
- Extended Time Mode- 1.0 to 999 seconds.

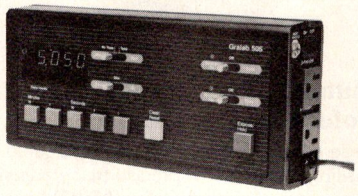
The TM-851 features digital circuitry, ½" LED display with adjustable brightness or may be turned off completely, positive setting click-stop dials, one second audible signal with on/off control and automatic reset.
LK1000 . . . . . **$219.95**

Footswitch for Lektra TM-851 Timer
LK1010 . . . . . **$21.95**

NEW GRA LAB ELECTRONIC TIMERS

Model 450

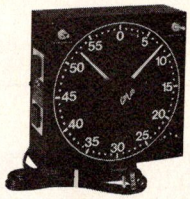
Features LED digital display which counts down electronically from two time ranges —seconds (from 99 sec.) and tenths (from 9.9 sec.) Display can be run at two brightness levels or switched off completely. Three audio signal choices include continuous, metronome beeps every second, or no audio at all. Timer resets itself automatically. Power rating of AC outlet —600W. Will accept Gra Lab 560 accessory footswitch. Measures 3½" x 4" x 8".
GL7010 . . . . . **$89.95**



Model 505 Digital Timer

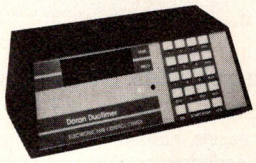
Quartz crystal time base, auto-reset, tenth of a second precision up to 59 minutes, 59.9 seconds. **GL6750** **$134.95**

Footswitch for Gra Lab Electronic Timers #505, #450, #451, and #900.
GL6031 . . . . . **$19.95**



Model 300 Timer

60 minute time range sets in minutes and seconds. Luminous dial, two outlet receptacles with combination time/focus switch. Buzzer alarm. UL Listed.
GL6710 . . . . . **$59.95**

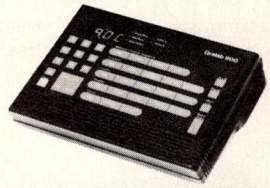


Doran DT-2 Time Control Center

Two independent digital timers in one: Nine step programmable process timer with simultaneous enlarger timer. Enlarging range: ⅒sec. to 110 minutes. Process range: 1 sec. intervals to 100 minutes each program. Enlarger capacity: 400 watts. Digital count down display. Accuracy: 0.005%.
DN3000 . . . . . **$99.95**

Footswitch for Doran DT-2 Timer
DN3005 . . . . . **$19.95**

GRA LAB ENLARGING TIMER

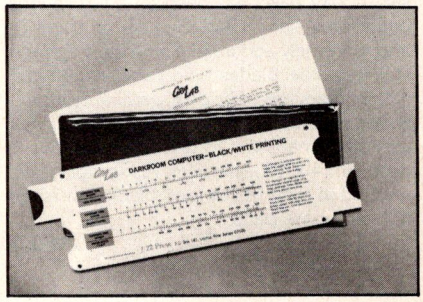


Model 900 Programmable Timer

The 100% solid state Model 900 timer has nine memory locations which operate independently or link together to create an interacting system. And each memory location allows time entry from 0.1 second to 60 hours—with four programming options.

These options allow forward or backward sequencing, automatic clear and reset, programmed outlet switching, a variety of audio signals and elapsed time count.

There are also two AC outlets, manual and automatic outlet controls, recall capability, display brightness controls, and both input and output receptacles for easy linkage with other equipment. Dust and moisture resistant cover. **GL6900** **$229.95**



Gra Lab Darkroom Computer

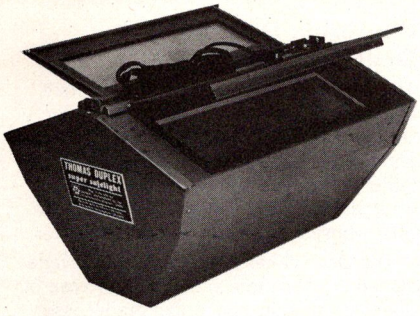
This computer will calculate the new exposure time needed when changing magnification, CP color filter pack, variable contrast filters, lens openings, paper speed, paper contrast and paper type.

The Darkroom Computer works like a slide rule. One side computes for black and white printing and the other side for color printing. Just indicate on the computer what exposure you used to make the last satisfactory print. The computer will show you precisely how much exposure you need to make the next print in any size. The new exposure times are automatically compensted to eliminate most of the dangers of recipocity failure.

Gra Lab Darkroom Computer
GL5000 . . . . . **$10.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Darkroom Safelights



Thomas Duplex Super Safelight

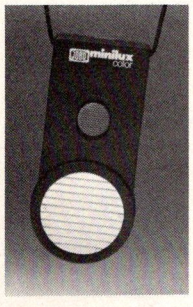
Lights the room almost as brightly as natural daylight. Features sodium vapor light source. Two adjustable flaps act as filters to control the intensity of the light and can be interchanged with others to allow use with X-rays and color printing papers.

DUB Safelight for all black & white printing materials. **TI7500** **$199.95**

DUC Safelight for color printing materials. **TI7550** **$199.95**

LDS Sodium Vapor Tube (replacement). **TI7600**. **$69.95**

FCD Color Filters. **TI7650**. **$24.95**

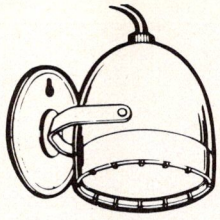


Jobo Minilux Color Safelight

The Minilux Color is a portable darkroom lamp for local illumination in the color and B&W darkroom. You can pin it, hang it, or clip it wherever you need light. The Minilux automatically switches itself off in bright light. The spectral emission of the long life LEDs exactly matches the sensitization gap of color papers. Uses two AA batteries not included. **JB0100** **$19.95**

Jobo Maxilux Color Safelight

This A.C. powered color darkroom lamp can be bench or wall mounted and features a tilting, spherical lamphead to point in any direction. The Maxilux uses LED's concentrated in a small space for high output over a large area. Special filters for Agfa and Kodak materials modify the emission spectrum. Higher intensity for black and white materials is obtained by swinging the light-cutting color filters out of the way. **JB0110** **$49.95**

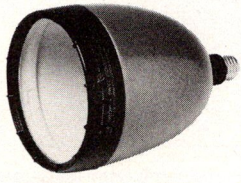


Adjustable 5½" Circular Safelight

Features all metal construction with bracket for mounting to wall, table or ceiling. Includes filter and lamp. **CT2010** . . . **$29.95**

Kodak Adjustable 5½" Circular Safelight

Filter and lamp not included.
KK9488. . . . . **$59.95**

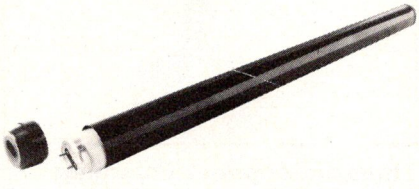


Kodak 5½" Circular Safelight

For use in wall socket or from a drop socket. Filter and lamp not included.
KK9485. . . . . **$22.95**

Kodak 5½" Safelight Filters

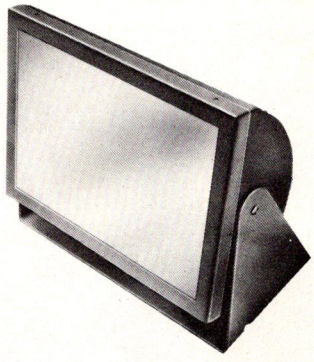
Type	Description	Part No.	Price
OC	Light Amber	KK9502	$16.95
1A	Light Red	KK9504	$19.95
13	Amber	KK9508	$19.95



48" Flourescent Safelight Sleeve

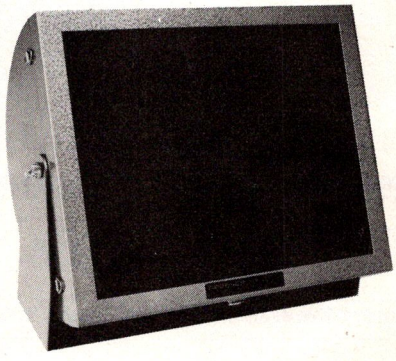
Economically bright way to light up your darkroom. "OC" sleeves fit on any 40W fluorescent tube and yield enough light to read a newspaper by. Fluorescent tubes are far more economically efficient than incandescent lamps and last up to 20 times longer.
AK0605. . . . . **$32.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)



5" x 7" Multi-Purpose Safelight

All metal with base bracket for table or wall mounting. Easy change of 5 x 7 filters. 6' line cord with on/off switch. Includes 15-watt bulb and amber filter. **CT2000** . . . **$18.95**



Premier 10" x 12" Multi-Purpose Safelight

- All metal construction
- Base bracket for table or wall mounting
- Includes amber filter for general purpose B&W printing
- 25 w bulb included
- 6' line cord with on/off switch
- Easy change of 10" x 12" filters

PM6820. . . . . **$59.95**

Kodak 10" x 12" Utility Safelight

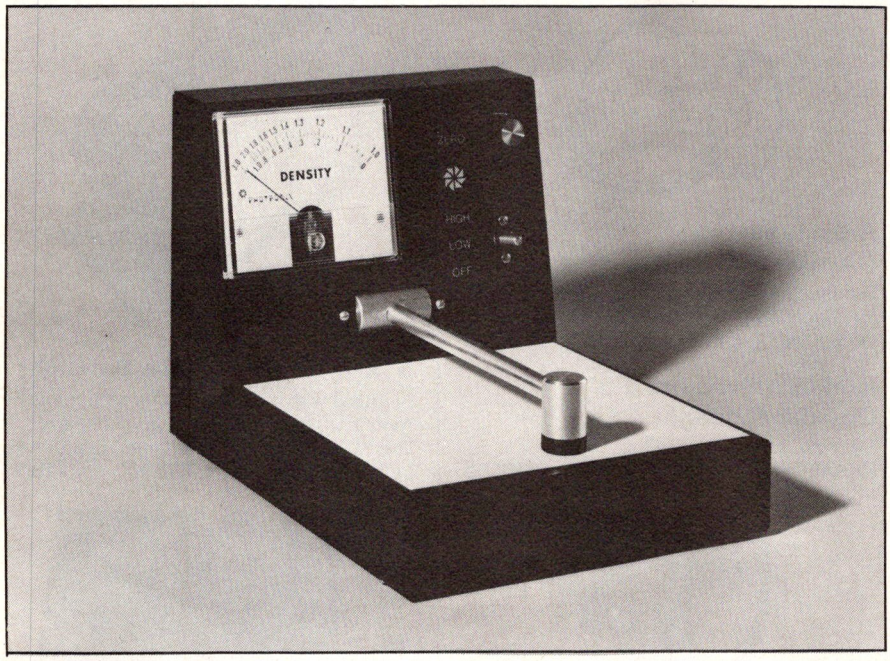
Suspends from ceiling for direct or indirect illumination. Provided with support chain and 6' line cord without switch. Filter and bulb not included. **KK9490**. **$68.95**

Kodak wall mount bracket for 10" x 12" Utility Safelight. **KK9491**. **$16.95**

Kodak 10"x12" Safelight Filters

Type	Description	Part No.	Price
OC	Light Amber	KK9522	$49.95
1A	Light Red	KK9524	$49.95
13	Amber	KK9528	$49.95

Photronix Delta III Densitometer



Photronix Delta III Densitometer

This professional quality black and white, transmission densitometer is suitable for a beginner to the Zone System, yet accurate and reliable enough for the most demanding user. The Delta III represents the best value that we have seen for the photographer whose work requires a densitometer.

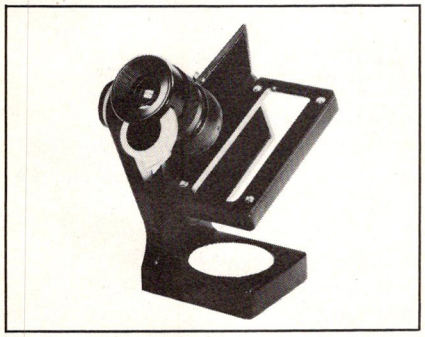
The Delta III has been restyled and redesigned to offer more versatility and ease of operation than its successful predecessor. New features include a sloped meter panel for effortless readings, a plug-in power transformer, and the ability to accommodate negatives up to 11"in width.

Other features of the Delta III include:

- A large, easy to read meter with two density ranges: 0-1.0 and 1.0-3.0
- A 2mm spot light source
- CDS Light Cell
- Solid state amplifier
- Built-in line voltage regulation
- Accuracy ± .05 density unit

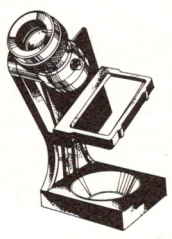
AA1303..... **$289.95**

Focusing Aids



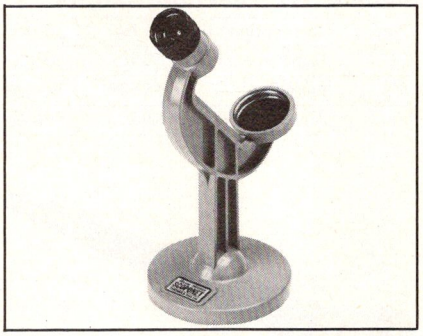
Micromega Critical Enlarging Focuser

Precision focusers for fine, accurate enlarging. Feature a 10-power achromatic Kellner eyepiece consisting of three coated lenses in two groups plus an optical glass disc with an engraved framed rectangle at the focal point. The mirror assembly includes a front surface mirror. **OA7710**..... **$159.95**



Omega Grain Focuser

Features 10X, f/1.4 4-element, coated wide angle eyepiece. Wide angle coverage gives effective and accurate use in any area of the image up to 21° from the optical axis of the enlarger lens. Front surface mirror, protected by a felt-lined, hinged cover. Adjustable eyepiece and rubber eyecup. **OA7711**..... **$79.95**

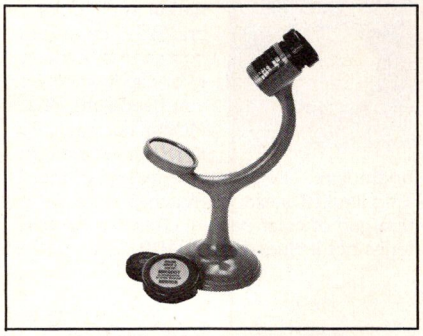


Thomas Scoponet Enlarging Magnifier

Features 20X, flat field eye piece which permits quick and easy focus on the actual grain of negative. "Micrometer reticle" allows for compensation for paper thickness or makes allowance for light traps on special easels or printing machines. Height—8½". Weight—8 oz. **TI7800**..... **$31.95**

Calumet Enlarger Alignment Tool

Prints not sharp? Your enlarger may be out of alignment. The Calumet Alignment Tool with built-in adjustable spirit level is a precision instrument that permits you to properly align your enlarger for the sharpest possible prints. **CP9230**..... **$39.95**



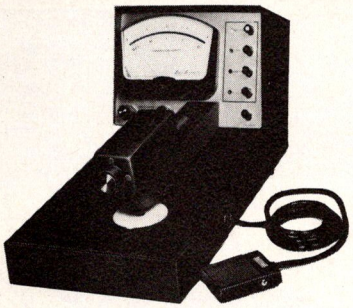
Micro-Sight Enlarger Focusing Magnifier

25X enlarger grain focusing scope features an extremely bright triple element achromatic lens and "Mikodot Superbrite" mirror for sharp, clear reflection, free from "ghost" or double images. Adjustable eyepiece with air suspended hair reticle. Sturdy construction with weighted base. **BR2325**..... **$49.95**

Magna-Sight Enlarger Focusing Magnifier

Enlarger magnifying focusing sight can be focused on any area of the projected image from corner to corner, not just in the center. Precise and accurate focus, individually adjusted for perfect focus. Made of metal with weighted base. **BR2320**..... **$29.95**

Densitometers and Analyzers



Speedmaster® T-85C Densitometer

Transmission densitometer for both photographic and graphic arts applications requiring full color measurement. Programmable null mode system allows operator to set-up or "program" a standard from which to take ± readings. Large, easy-to-read 7½" meter features mirrored face to reduce parallax errors, 0.00 to 4.00 density scale, and a .01 to 100% transmission scale so that all readings are single range, without any calculations. Throat depth of over 11", permitting readings from negatives up to 20" x 24". Features the following:

- Interchangeable reading apertures (supplied with 2mm; 1 and 4mm are optional accessories.
- Accuracy is to ± .02, repeatability ± .01
- Includes filters: wratten 106 visual, #92 red, #93 grn., #94 blue, corning #9780, as well as Infrared 720nm dichroic.
- Size—10" x 19" x 10". Weight—30 lbs.

SP1001 . . . . . **CALL**

Beseler Analite 400

This pre-calibrated B&W analyzer features 100% solid state circuitry, light-emitting diode, and transilluminated dial which provides reliable exposure indication. Gallium Arenide photo detector is sensitive to 0.0005 ft. candles and is totally immune to white light blinding or "memory" effects. Dial is calibrated for ANSI paper speeds from 10 to 1000, exposure times from 1 to 100 seconds, and paper contrast grades 0 through 5. May be used for pinpoint spot or integrated readings with the light diffuser provided. Uses 9 volt battery (not included).

BS5024 . . . . . **$69.95**

Beseler Analite 500

Operates down to light levels as low as 0.0025 ft. candles. Accuracy and repeatability are insured be an all solid-state voltage stabilized circuit. A detailed instruction manual includes information on ANSI paper speed, paper grade determinations, density measurements, and foot candle readings.

BS5026 . . . . . **$99.95**

Beseler PM3L Color Analyzer

Solid state design with instant warm-up, internal stabilization, and ½" high LED digital display with variable brightness control which gives direct readouts of both filtration and exposure time. Photo multiplier light detector is extremely sensitive and ideal for making prints from very dense negatives or at high magnifications. Low light sensitivity is an exceptional 0.0001 foot candle. Filtration display capability covers from −999 to +999 units of filtration. Operating density range is greater than 4.00. Exposure time display from .1 sec. to 199.9 sec.. "Program Verify" switch makes it easy to visually confirm the program stored in any module. Built-in memory bank allows an infinite number of additional programs for color balance and exposure.

BS5020 . . . . . **$429.95**

Beseler PM4L Color Analyzer

This top of the line analyzer features ½" LED digital display with variable brightness control. For maximum ease and speed when changing programs, this unit is equipped to accept interchangeable plug-in program modules, which can be programmed for such variables as different types of subject matter, spot or whole area integration, or different paper emulsions. One module is supplied with the unit and any number can be added as accessories. "Program Verify" switch lets user check on the program in any module. Photomultiplier sensor is built into the body of the analyzer, resulting in an unusually compact probe, with built-in cosine correction with alignment lock.

BS5022 . . . . . **$699.95**

Memory Module for PM3L and PM4L

BS5016 . . . . . **$45.95**

Speedmaster SM400 Color Analyzer

The SM400 makes available the benefits of Speedmaster color analyzing at an affordable price. Features include: solid state circuitry, fibre cosine corrected optic probe and large 4" illuminated meter. Program read feature assures accurate monitoring and readout.

Specifications:

- Programming range—12 f/stops in each sensitivity position
- Probe—3mm aperture
- Readout system—Illuminated 4" taut band meter
- Functions—+30cc to −60cc null density 4 seconds to 64 seconds time
- Accuracy—Density ±1.5cc, Time ± 2%
- Size—12" x 8" x 6"
- Weight—22 lbs. (packed)

SP1090 . . . . . **$579.95**

Speedmaster® SM1400 Digital Analyzer

Memory for up to 8 programs. "Program Save" retains programs indefinitely when power is out. Sensitivity: .0001 to 40 foot candles. Digital (LED) display. Accuracy: ±.01 density. Probe: 48" fiber optic. 5mm aperture filters: 92, 93, 98, 106 vicual IR.

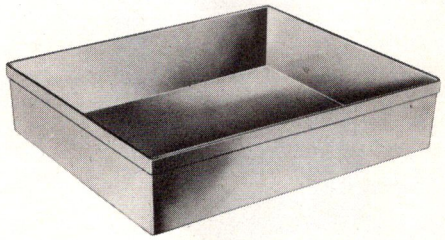
SP1400 . . . . . **$1624.95**

Trays

Calumet Stainless Steel Trays

These Type 316 Stainless Steel trays are heliarc welded, ground, polished and passivated so that the finished tray is one piece seamless construction. Easy to clean, resists stain and provides highest temperature conductivity. Sides are tapered for easy nesting for storage. Calumet trays give you years of quality performance . . . can't chip.

Available in 8 sizes to fit standard material size—other sizes can be made to your specifications. Prices on request.



For Size Material	Dimension at Bottom	Outside Dim. at Top	Cat. No.	Price
11″ x 14″	12″ x 15″ x 3″ deep	13″ x 16″	AY7010	$ 56.95
14″ x 17″	15″ x 18″ x 3″ deep	16″ x 19″	AY7015	$ 62.95
16″ x 20″	17″ x 21″ x 3″ deep	18″ x 22″	AY7020	$ 72.95
18″ x 22″	19″ x 23″ x 3″ deep	20″ x 24″	AY7025	$ 84.95
20″ x 24″	21″ x 25″ x 3″ deep	22″ x 26″	AY7030	$ 96.95
11″ x 14″	12″ x 15″ x 6″ deep	14″ x 17″	AY7050	$ 81.95
14″ x 17″	15″ x 18″ x 6″ deep	17″ x 20″	AY7055	$ 89.95
16″ x 20″	17″ x 21″ x 6″ deep	19″ x 23″	AY7060	$ 93.95
20″ x 24″	21″ x 25″ x 6″ deep	23″ x 27″	AY7065	$134.95

Removing Stains from Stainless Steel

The best way to remove chemical deposits is scouring them with an abrasive cleaner, such as Bon Ami. Care should be taken to rub with the grain of polished steel. Steel wool or steel brushes should never be used as particles of these materials will adhere and cause immediate rusting and breaking down of the stainless steel.

Tray Ladders

Conserve space, stack three developing trays in the space of one with tray ladders. Manufactured with epoxy coated, zinc plated steel and designed for use with all trays. Stores flat.

For 3-11 x 14 or smaller trays.
AY0455 . . . . . **$28.00**

For 3-16 x 20 or smaller trays.
AY0456 . . . . . **$40.00**

Kostiner Stainless Steel Tongs

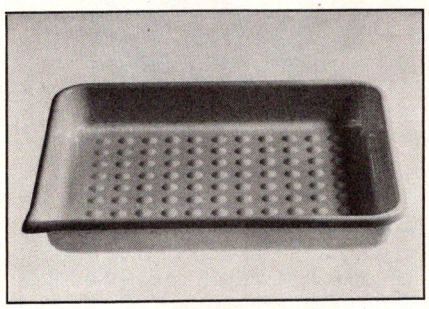
A set of three tongs specifically designed to prevent emulsion damage or scratching. If excess finger pressure is applied, the tongs will release. **KS5000** **$17.95**

Plastic Trays

Cesco-Lite Trays

Fully seamless, white, heavyweight, high-impact plastic trays. Maximum corrosion resistance—58% solution of acetic acid. Safe for normal photo processing.

5″ x 7″ **CS7505** **$2.95**
8″ x 10″ **CS7510** **$5.95**
11″ x 14″ **CS7513** **$9.95**
14″ x 17″ **CS7514** **$15.95**
16″ x 20″ **CS7515** **$19.95**
20″ x 24″ **CS7517** **$34.95**



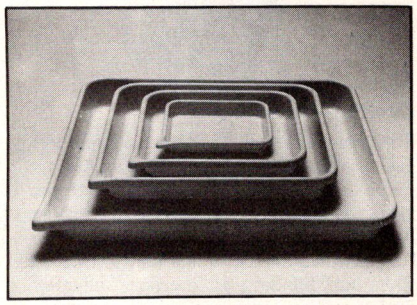
Cesco-Lite Dimple Bottom Trays

8″ x 10″ **CS7525** **$5.95**
11″ x 14″ **CS7526** **$9.95**

Cesco-Lite Deep Hypo Bath Trays

11″ x 14″ **CS7520** **$24.95**
16″ x 20″ **CS7521** **$34.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

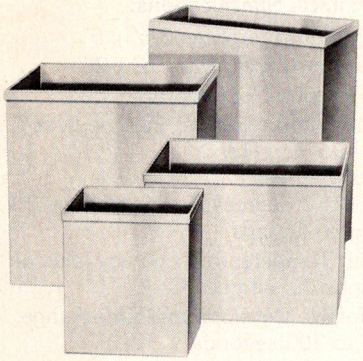


Kodak Duraflex Trays

Fully seamless, heavyweight, high-impact plastic trays.

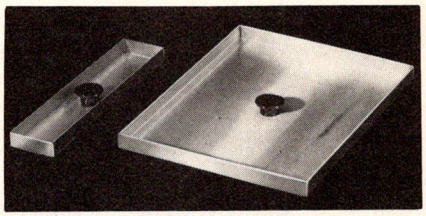
For print size 5″ x 7″. Tray size—9⅛″ x 7⅛″ x 1⅜″. **KK9727** **$5.95**
For print size 8″ x 10″. Tray size— 13⅛″ x 11¼″ x 2″. **KK9730** **$9.95**
For print size 10″ x 12″. Tray size—15¾″ x 13¾″ x 2¼″. **KK9732** **$14.95**
For print size 11″ x 14″. Tray size—17½″ x 14½″ x 2½″. **KK9734** **$18.95**
For print size 16″ x 20″. Tray size—23¾″ x 19¾″ x 2¾″. **KK9736** **$32.95**
For print size 20″ x 24″. Tray size—28½″ x 24¾″ x 2¾″. **KK9738** **$57.95**

Calumet Stainless Steel Tanks



Calumet Standard Developing Tanks and Accessories

Calumet photographic grade stainless steel processing tanks and accessories are corrosion-resistant to all photographic solutions including color bleaches and rapid fixers. They are highly polished for easy cleaning. Long-life construction and low price make them the best value obtainable in photograph processing equipment. Tanks feature hemmed lips and leak-free construction and are made of heliarc welded type 316 stainless steel.

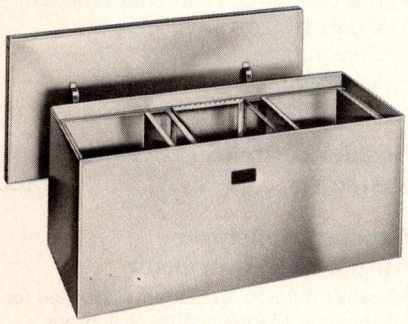


Accessories available include:

- Floating lids to prevent oxidation.
- Dust covers to prevent contamination.
- Racks to hold cut film hangers and reels.
- Racks with gas burst distributors are also available (see page 133).

Tank Cap	Nom. Film Size	Film Hangers	35mm Reels	Inside Dimensions	Tank Cat. No.	Tank Price	Float Lid Cat. No.	Float Lid Price	Dust Cover Cat. No.	Dust Cover Price	Hanger Rack Cat. No.	Hanger Rack Price
½ gal.	4″ x 5″	12(7)*	3	4½″ x 5½″ x 6″d.	CPO372	$40.00	CPO373	$24.00	CPO374	$26.00	AY8030	$31.95
1 gal.	4″ x 5″	24(15)*	6	5½″ x 9″ x 6″d.	CPO362	$49.00	CPO363	$26.00	CPO364	$28.00	AY8025	$35.95
1 gal.	8″ x 10″	6(4)*	N.A.	2½″ x 10½″ x 10⅛″d.	CPO375	$56.00	CPO376	$24.00	CPO377	$26.00	AY5526	$47.00
2 gal.	8″ x 10″	12(7)*	15	4⅜″ x 10⅞″ x 10⅜″d.	CPO365	$60.00	CPO366	$27.00	CPO367	$30.00	AY5520	$36.95
3½ gal.	8″ x 10″	18(13)*	30	7⅞″ x 10⅞″ x 10½″d.	CPO352	$65.00	CPO353	$30.00	CPO354	$34.00	AY5510	$36.95

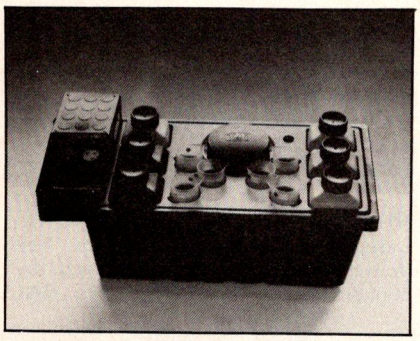
*Higher number is individual hangers closely spaced. Lower number is capacity with rack.



Temp Tanks

Temp tank sets include a type 316 stainless steel water jacket with ⅜″ IPS water inlet and 1″ IPS water outlet that provides a water bath around the chemical tanks allowing close temperature control. Each unit includes two chemical tanks but there is room in the center for a water rinse or a third tank. Extra tanks and floating lids are available from the above chart.

Tank Cap.	Nom. Film Size	Outside Dimensions	Temp Tank Cat. No.	Temp Tank Price	Cover Cat. No.	Cover Price
½ gal.	4″ x 5″	9½″ x 20½″ x 7½″h.	CPO370	$250.00	CPO361	$49.00
1 gal.	4″ x 5″	9½″ x 20½″ x 7½″h.	CPO360	$250.00	CPO361	$49.00
3½ gal.	8″ x 10″	13″ x 29″ x 12½″h.	CPO350	$330.00	CPO351	$58.00

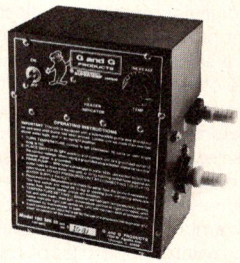


Jobo TBE2 Tempering Box

The TBE2 waterbath brings all your chemicals up to the right temperature and keeps them there, with an accuracy of ±0.36°F (±0.2°C). This unit is ideal for home processing with color materials as well as pre-tempering larger amounts of chemistry. Water resistant control unit allows you to select working temperatures between 20° and 45°C (68-113°F). Storage capacity is designed for 6-1000 ml bottles and 6-260 ml graduates. Developing tank can also be submerged to control its temperature.

- Technical Data:
- Dimensions—10″ (H) x 24″ (L) x 12″ (W)
- Weight—5.5 lbs. (empty)
- Voltage—110/60 Hz.
- Heating Power—300 W
- Waterbath—2.9 gallons (11 litres)
- TBE2 comes complete with 4-1000 ml white bottles, 2-100 ml black bottles and 6-260 ml color-coded graudates.

JB2060 . . . . . **$169.95**



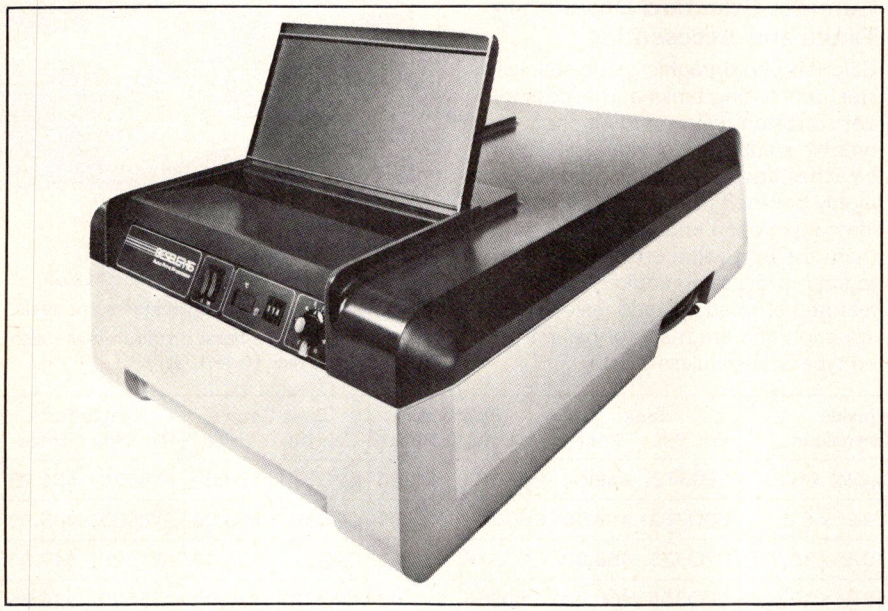
G&G SuperTemp 200- Recirculates 200 gallons per hour. Features 2 heaters; 1500 watts. Thermal output (time per degree gallon) - 8 seconds.

GG2000. . . . . **$219.95**

G&G SuperTemp 200-D Permits direct pumping of photographic solutions. Recirculates 120 gallons per hour. Features 2 heaters; 750 watts. Thermal output (time per degree gallon) - 12 seconds.

GG2050. . . . . **$269.95**

The Beseler-16 Auto Print Processor



THE BESELER-16 AUTO PRINT PROCESSOR

Print Processing is a Pain in the ***!

Take the hassle and mess out of print processing with the Beseler-16 Auto Print Processor. Both color and black & white prints can be processed using standard RC paper and conventional chemistries. Simply feed your exposed paper into the front and a completely processed, washed, and dried print comes out the back. Dry to dry black & white prints in only 3.2 minutes. Dry to dry color prints in only 10.5 minutes.

The Beseler-16 is a four bath processor. Baths one and three are reserved for your developer and fixer (or bleach/fix in color printing). Chemical recirculation and tempering take place in these baths. Baths two and four are running water washes (bath two can alternately be set up as a stop bath using acetic acid)

Two digital temperature indicators are on the front panel. One shows the temperature you have selected for your particular process. The other shows the actual temperature of your solutions. The desired processing temperature is set in with a push button digital selector. When the processor is first turned on, the chemistry is heated at a rate of 1 degree F per minute until it reaches the desired temperature. That temperature will then be maintained to plus or minus 0.2 degrees C (0.5 degrees F).

A dial on the front panel allows a continuous adjustment of the transport speed from 2 to 22 inches per minute giving an effective development time range of 25 to 300 seconds. By adjusting the transport speed and temperature it is possible for the Beseler-16 to accomodate any conventional chemistry/RC paper combination. 74 color 8 x 10 prints or 18 color 16 x 20 prints can be processed in one hour. 222 black and white 8 x 10 prints or 54 black & white 16 x 20 prints can be processed in one hour.

Most processors require several gallons of chemistry to get them up and running. Only four liters (one gallon) of chemistry is required in the Beseler Auto-16. This not makes your life easier with regard to chemical mixing and handling; but it also means that if you are not planning to do any print processing for a few days you can simply drain your solutions into two one gallon bottles. This will prevent oxidation of the chemistries so that when you start up again your solutions will still be fresh and ready to use. If you plan on processing prints every day, the chemistry can be left inside the processor.

Chemical replenishment is accomplished by using replenishment bottles on top of the processor. To replenish your chemistry simply open the drain hose on the processor's side and drain off ½ liter (17 oz) of solution. Fresh chemistry will automatically flow into the processor from the replensishment bottles, precisely replacing the amount removed. It is recommended that this procedure be followed after every 20 8 x 10 prints.

Clean-up is a snap with the Beseler-16 Auto Print Processor. Each bath has a roller rack assembly that lifts out as a complete unit. To clean, simply rinse off each rack and rinse out the solution chambers. The design of this unit is such that is requires virtually no maintenance.

The processor can be used by itself or in conjunction with the Beseler-16 Auto Dryer. If used by itself the prints exit the processor ready for drying. When the Auto Dryer is attached the prints feed automatically from the processor to the dryer for a complete dry to dry system. The drive mechanism of the dryer mates to that of the processor, so that whatever speed is set for the processor is also automatically set into the dryer. The dryer has its own heat level adjustment (86 degrees F to 176 degrees F) and a temperature indicator.

Technical Specifications:

- Minimum Print Size: 3½" x 5"
- Maximum Print Size: 16" x 20"
- Roll Paper: Not Recommended
- Temperature Range: 20.0 degrees C to 49.9 degrees C
  68.0 degrees F
  to 121.8 degrees F adjustable by 0.1 degree C steps
- Bath Temperature Accuracy: plus or minus 0.2 degrees C
- Effective Development Time Range: 25 to 300 seconds
- Electrical Requirements: 117VAC, 60 Hz, 4.6A (10.9A with Dryer)
- Water Intake Connection: 1" threaded fitting, 6' hose supplied
- Drain Connection: ¾" I.D. hose fitting, 6' hose supplied
- Dimensions: 38½"D, 25½"W, 12½"H, (50" Depth with Dryer)
- Weight: Net 120 lbs., With Solutions 156 lbs., (Dryer: 20½ lbs.)
- Special Films/Processes: The Beseler-16 CAN process Kodak Duratrans display film and Kodalith sheet film (D-11 Chemistry).
- The Beseler-16 Auto Print Processor should NOT be used with:
  Cibrachrome Chemistry
  Agfachrome Speed Activator
  Stabilization Chemistry

Beseler Auto 16 Processor

BS8100 ..... **CALL**

Beseler Cibachrome Auto-16 CP Processor

A Beseler Auto-16 Processor is designed for Cibachrome processing—as well as any other 4-step operation. This model is constructed of stainless steel and titanium parts in all areas that could be adversely affected by caustic cibachrome chemistry.

Other features include:

- Replenishment bottle on all three chemical baths.
- Chemical recirculation and tempering on all three baths.

BS8102 ..... **CALL**

Beseler Auto 16 Dryer

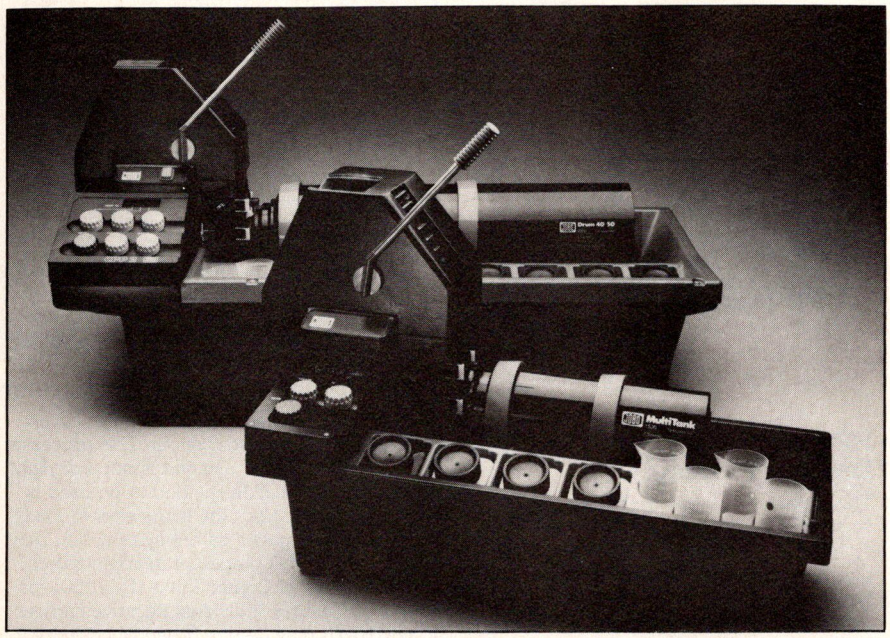
Designed exclusively to accept prints directly from the Auto 16 Processor for "dry to dry" print processing. **BS8105** ..... **CALL**

Free Chemistry Offer

Available in limited quantities. Call for details.

Beseler replacement chemistry is now available thru Calumet. For more information, call or write.

Jobo Processing Equipment



Jobo CPE-2 Processor

Features continuously variable temperature setting for water bath and two rotation speeds for film and print processing. CPE2 outfit includes processor, four 260ml graduates, three 600ml bottles (white) and one 600ml bottle (black). Processor uses Jobo 2500, 1500, 2800, and 3000 System tanks (not included). Magnetic Lids are required.
JB2000 . . . . . **$249.95**

Jobo-Lift for CPE2 - A quick, neat and efficient mechanical filling and emptying system. Requires Cog Lid for tanks and drums. **JB2050** **$99.95**

Jobo CPE-2 Starter Kit

Kit includes CPE2 processor, #2840 drum (for prints up to 16 x 24), #1520 tank (for two 35mm reels), two 1504 magnets, film wiper, film clips, print wiper, and thermometer. (#1501 reels not included).
JB2005 . . . . . **$279.95**

Jobo CPA2 Processor

Features precise 3-dial temperature control monitored with color thermometer; continuously adjustable speeds with automatic back and forth rotation or one way, and adjustable roller blocks for different size tanks. CPA2 outfit includes processor, one suction pump, four 260ml graduates, six 1000ml bottles (4 white, 2 black), set of step wedges, and a color thermometer. (Drums and tanks not included). Magnetic Lids are required. **JB2010** **$549.95**

Jobo CPP2 Processor

Same features as CPA2, but includes a built-in digital thermometer which constantly displays actual water bath temperature to be nearest 0.1°C. Includes same items as CPA2, without color thermometer. (Drums and tanks not included). Magnetic Lids are required. **JB2020** **$799.95**

Jobo-Lift for CPA2/CPP2 - Easily attaches to processors with two screws. Requires Cog Lids. **JB2051** **$99.95**

Jobo-Lift Accessory Kit for CPP/CPA Processors - Includes Jobo-Lift, #1520 tank for two 35mm reels w/cog lid, #2850 drum (for prints up to 11 x 14) w/cog lid, film wiper, 1 set of film clips, print wiper, film washer and one Photocolor II Kit (chemistry for film and prints). #1501 reels not included.
JB2052 . . . . . **$179.95**

JOBO ACCESSORIES

1500 Processing Tank Systems

(for inversion, Magnetic Drive, or Jobo-Lift. Reels not included.)

#1520 Uni-Tank (2-35mm)
JB2301 . . . . . **$16.95**

#1540 Multi-Tank (4-35mm)
JB2302 . . . . . **$19.95**

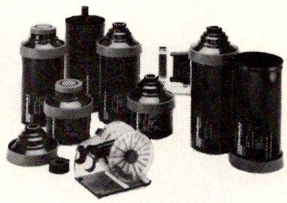
#1530 Tank Module (3-35mm). Must be used with one of the above tanks.
JB2310 . . . . . **$12.95**

Cog Lid for #1500 Series tanks (for use with Jobo-Lift). **JB2320** **$7.95**

Magnet for #1500 Series tanks (for use with Magnet Drive Processors).
JB2205 . . . . . **$5.95**

#1501 Adjustable Reel (for use with #1500 Series tanks). **JB2330** **$4.95**

Jobo TBE2 Tempering Box (see page 123 for details) **JB2060** **$169.95**



2500 Processing Tank Systems for Magnetic Drive and Jobo-Lift.

(reels not included)

#2523 Multi-Tank w/cog lid—(2-35mm)
JB2400 . . . . . **$24.95**

#2553 Multi-Tank w/cog lid—(5-35mm)
JB2410 . . . . . **$26.95**

#2563 Multi-Tank w/cog lid—(6-35mm)
JB2420 . . . . . **$28.95**

#2561 Multi-Tank w/magnetic lid — (6-35mm) **JB2430** **$26.95**

Cog Lid for #2500 tanks (for use w/Jobo-Lift) **JB2120** **$9.95**

#2501 Ro-Set-Adjustable Reel for 2500 (requires loader) **JB1060** **$8.95**

#2505 Loader for Ro-Set Reel
JB1065 . . . . . **$59.95**

#2509 Adjustable Sheet Film Reel (requires #2508 loader) **JB1050** **$13.95**

#2508 Sheet Film Loader Base (requires-guide) **JB1051** **$22.95**

#2512 4 x 5″ Film Guide
JB1052 . . . . . **$7.95**

#4341 Single Reel Sheet Film Kit - includes loader base, 4 x 5 guide, one #2521 tank, one #2509 reel. **JB1000** **$63.95**

#4342 Two Reel Sheet Film Kit - same as single kit, but includes one #2551 tank and two #2509 reels. **JB1002** **$86.95**

2800 Modular Drum System

(Cog lids or Magnets not included w/drum).

#2820 Test Drum (3½ x 5's)
JB2820 . . . . . **$16.95**

#2830 Drum (2-8 x 10's)
JB2201 . . . . . **$24.95**

#2840 Drum (1-11 x 14)
JB2202 . . . . . **$35.95**

#2850 Drum (1-16 x 20)
JB2203 . . . . . **$45.95**

#2870 Drum Module (2-8 x 10+) (Must be used with one of the above drums.)
JB2204 . . . . . **$21.95**

Cog Lid (for Jobo-Lift) **JB2120** **$9.95**

Magnet for 1500, 2500, or 2800 Series tanks or drums. (for Processors)
JB2205 . . . . . **$5.95**

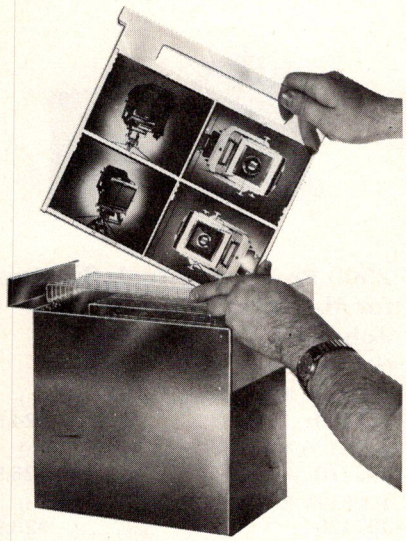
Jobo 3000 Series Film Drums

Series drums can only be used with CPP-2 or CPA-2 processors with the Jobo-Lift. Cog lid is included.

#3013 Sheet Film Drum—will process up to five 4 x 5s. **JB2150** **$69.95**

#3025 Sheet Film Drum—will process up to two 8 x 10s. **JB1020** **$79.95**

Sheet Film Processing Equipment



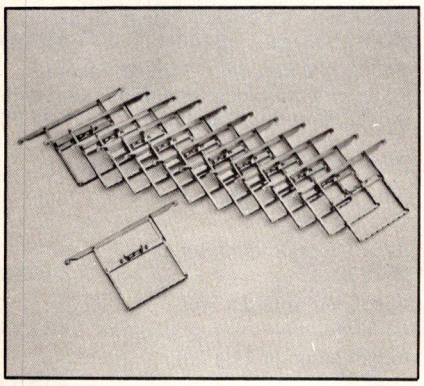
PPI Sheet Film Hangers

Each hanger is made of a solid piece of cast, clear plastic without perforations to assure cleaner, more evenly processed sheet film. These sheet film hangers reduce mottle, edge markings and processing defects. Dimensional characteristics are the same as existing standard metal hangers.

Model P445 Multiple 4″ x 5″ PPI hanger, four films per hanger. **PP0445** **$12.95**

Model P257 Multiple 5″ x 7″ PPI hanger, two films per hanger. **PP0257** **$12.95**

Model P81 8″ x 10″ PPI hanger, one film per hanger. **PP0810** **$12.95**



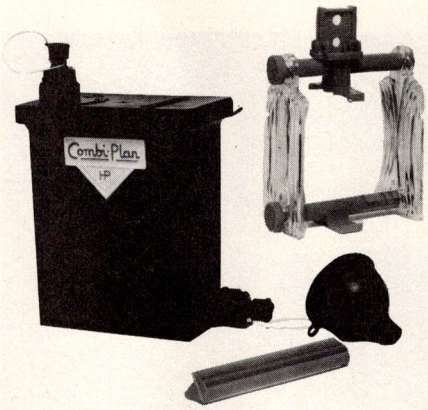
Calumet Stainless Steel Sheet Film Hangers

Calumet 4″ x 5 single hanger
CP9080 . . . . . **$7.95**

Calumet 4″ x 5″ 4-up hanger
CP9081 . . . . . **$31.95**

Calumet 8″ x 10″ hanger
CP9082 . . . . . **$12.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call 1-800-225-8601**)**



HP Combi Plan T 4x5 Daylight Processor

This unit is by far the most popular and successful daylight sheet film developing systems ever invented! A convenient and compact daylight sheet film processing system which is ideal for location processing or where space is at a premium. Features removable and adjustable negative carrier which is designed for simple and sure loading in the dark by use of a special loading guide frame. Film retention clips hold film securely in negative carrier, which is necessary since the Combi Plan T System utilizes the same inversion agitation method as a standard 35mm roll film daylight tank. Tanks require only 35 oz. of solution and will process up to (6) 4 x 5″ black and white or color sheets of film at a time.

The special lid design of the model "T" system permits filing and draining solutions as well as developing in daylight. Included with the Combi Plan T Processor are two light-tight hose connectors with screw-in stoppers; a funnel to facilitate filling; negative carrier with loading guide; tank; and light-tight, non-spill lid. **HC1000** **$37.95**

HP Combi Plan T Tank Only, without pouring spout. **HC1050** **$18.25**

HP Combi Plan T film carrier, with loader.
HC1070 . . . . . **$21.00**

HP Combi T daylight lid, w/o stopper.
HC1055 . . . . . **$4.50**

HP Combi T screw-in stopper.
HC4060 . . . . . **$1.50**

HP Combi Plan Super Processor

This special system will process up to 12 sheets of 4 x 5″ black and white or color film in only 64 oz. of chemistry. It's unique, adjustable negative carrier will also accommodate six sheets of 5 x 7″. The Combi-Plan Super also features a light-tight, spill-proof rubber lid which permits inverse agitation in daylight. Super Processor includes tank, lid, negative carrier, and conversion parts for processing 12 sheets of 4 x 5″ film. Note: This is not a daylight tank. Lid must be removed to change chemistry.
HC1020 . . . . . **$59.95**

SPECIAL OFFER

Purchase any HP Combi Processor and receive a free copy of Rudi Dietrich's informative article, *Perfect Negatives with the HP Combi Plan Tank*, reprinted from Calumet's *Journal of American Photography*. In his article, Dietrich offers time tested advice that will maximize your performance and negative quality while using the Combi System. Helpful tips include how to process 12 sheets of 4 x 5″ film with the Combi T Daylight Tank and how to prepare for more than one film batch. Dietrich's article is an invaluable asset to working with the Combi System.

HP Combi Plan L Lab Processor

Similar to the Combi Plan T except cover does not contain pour spout. This processor is designed for lab use and is not a daylight processor. Agitation method to be used is dip and dunk. Uses the same easy to load, adjustable negative carrier system. You may wish to use this processor in conjunction with additional Combi Tanks (HC1050) for line processing. Individual negative carriers (HC1070) may be purchased when a dry back up is needed for a second run.

Combi Plan L Processor includes tank with cover, lab lid, negative carrier for (6) 4 x 5's, loading guide, and a screw-in stopper.

Note: This tank is NOT a daylight, inversion agitation process tank.
HC1010 . . . . . **$28.95**
HP Combi L lab lid. **HC1065** **$4.00**

HP Combi Plan Super Tank with light tight non-spill lid, 5 x 7 negative carrier with film guides and divider plate for 12-4 x 5 sheets.
HC1020 . . . . . **$59.95**
Call for prices on extra tanks and accessories.

Kodak Hard Rubber Tanks

4″ x 5″ ½-Gal. takes six 4″ x 5″ or smaller Kodak film and plate developing hangers No. 4A, or eight Kodak sheet film developing hangers No. 6. **KK9410** **$15.95**

5″ x 7″ 1-Gal. takes eight 4¾″ x 6½″ or 5″ x 7″ Kodak film and plate developing hangers.
KK9420 . . . . . **$19.95**

8″ x 10″ 3½-Gal. takes twelve 8″ x 10″ or twenty 5″ x 7″ Kodak film and plate developing hangers. **KK9430** **$49.95**

4 x 5 floating lid. **KK9470** **$6.95**

5 x 7 floating lid. **KK9471** **$8.95**

8 x 10 floating lid. **KK9472** **$9.95**

Did You Know?

PPI hangers can be used for processing sheet film in a tray. Simply load the sheet film in the usual way, put the hanger or hangers in a tray film side up making sure there is sufficient developer to cover the film. Agitate by rocking the tray one way then the other at the recommended agitation intervals (usually once every minute). It may be desirable to cut the handle off which will allow use of a smaller tray.

Prices and specifications subject to change without notice.

Roll Film Processing Equipment

Kindermann Stainless Steel Developing Tanks

This is perhaps the best roll film processing system that we have seen. Made of the highest quality materials available, this system offers fast, efficient, internal flow control which saturates all the film instantly for even development. Leak proof, snug-fitting PVC tops for immersion agitation, corrosion-proof, tank is made of super quality nickel stainless steel. Tanks do not include reels.

Tank for 1-35mm reel.
KD2000 . . . . . **$16.95**

Tank for 2-35mm or 1-120mm reel.
KD2010 . . . . . **$18.95**

Tank for 4-35mm or 2-120mm reels.
KD2020 . . . . . **$42.95**

Tank for 1-220mm reel (4" diameter).
KD2030 . . . . . **$64.95**

Tank for 2-220mm reels (4" diameter).
KD2040 . . . . . **$89.95**

Tank for 1-70mm reel (Kukalit PVC).
KD2050 . . . . . **$109.95**

Kinderman Stainless Steel Developing Reels

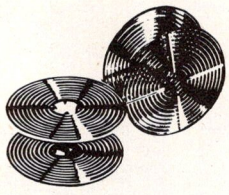
Made of chrome-nickel steel are unbreakable, resistant to chemicals, heat resistant and can be used even when wet. They provide for reliable reverse exposure of reversible films. Only fractions of a millimeter of the film area are in contact with the reel. Exactly dimensioned for the appropriate film size.

35mm reel. **KD1000** **$12.95**
120mm reel. **KD1010** **$12.95**
220mm reel. **KD1020** **$27.95**
70mm reel. **KD1030** **$139.95**

Kinderman Film Loaders

The best and quickest way of loading reels with films without scratching or leaving fingerprints. The film is guided and handled only at its perforation.

35mm loader. **KD1050** **$4.95**
120mm loader. **KD1060** **$5.95**

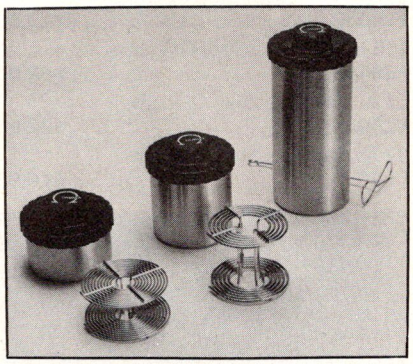


Calumet Stainless Steel Developing Reels

S. Steel developing reel—35mm film.
CP9075 . . . . . **$4.00**

S. Steel developing reel—120mm film.
CP9076 . . . . . **$4.25**

S. Steel developing reel—220mm film.
CP9077 . . . . . **$7.00**



Omega Stainless Steel Tanks and Reels.

35mm/126 developing tank with reel
OA8327 . . . . . **$8.95**

120/620 developing tank with reel
OA8333 . . . . . **$11.95**

120 developing tank with 2-35mm reels
OA8335 . . . . . **$13.95**

110 reel only **OA8415** **$4.95**

35mm/126 reel only **OA8425** **$4.50**

120/620 reel only **OA8435** **$4.50**

35mm/126 developing tank only
OA8325 . . . . . **$7.95**

120/620 developing tank only
OA8330 . . . . . **$8.95**

Multiple developing tank 7" only
OA8340 . . . . . **$18.95**

Multiple developing tank 12" only. Rod included.
OA8345 . . . . . **$31.95**

Jobo 2400 Daylight Tank

Processing without a darkroom is easy with the Jobo 2400 daylight-loading tank. Insert the film by daylight and start processing. Processes partially exposed films also. For 35mm films only. **JB1100** **$34.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Beseler Equipment

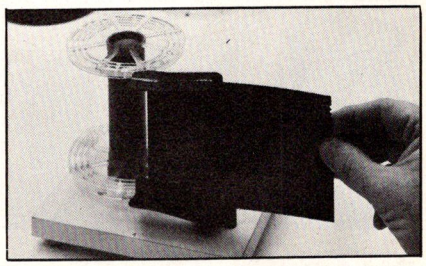
Motor Base Agitator. Exclusive Stabilizing Bands prevent larger drums from "walking." Two prs. Stabilizing Bands included with motor base.
BS4025 . . . . . **$69.95**

Deluxe Motor Base Agitator. Dual operation modes provide the option of continuous (one direction) agitation or automatic intermittent reversing action.
BS4030 . . . . . **$89.95**

Color Print Processing Drums.
8" x 10" drum **BS4005** **$22.95**
11" x 14" drum **BS4010** **$41.95**
16" x 20" drum **BS4015** **$64.95**

Jobo System 2500 for Sheet and Roll Films

The unique "spider web" design of the processing reels permits little surface contact with the film which allows less restricted flow of chemistry around the film for even development.



Single Reel Sheet Film Kits

Single Reel Sheet Film Kit—Contains one 6 sheet capacity sheet film reel and convenient loading stand. The tank capacity is 1350 CC. and may be used for inversion agitation, roller bases, or the Jobo Processors. **JB1000** **$63.95**

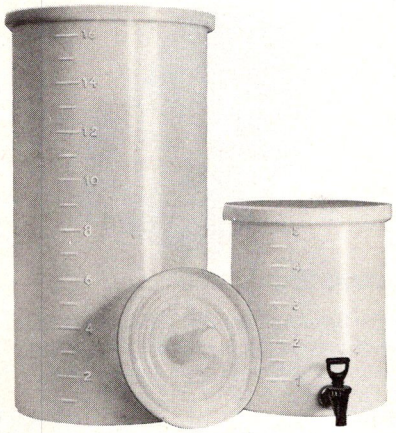
Two Reel Sheet Film Kit—Consists of two Sheet film reels, loader, and larger 2850 CC. tank. **JB1002** **$86.95**

Jobo Ro-Set Reel—Adjustable reel for 35mm (up to 72 exp) and 120/220 film. For use with Jobo 2500 system tanks. Requires use of Ro-Set loader listed below.
JB1060 . . . . . **$8.95**

Jobo Ro-Set Film Loader—Free standing adjustable film loader for use with Ro-Set reels. For 35mm and 120/220 films.
JB1060 . . . . . **$59.95**

Jobo CPE-2 Processor—Features thermostatically controlled water bath and 2 rotation speeds for consistent film development. Uses Jobo 2500 system tanks.
JB2000 . . . . . **$249.95**

Graduates and Thermometers



Nalgene Polyethylene Storage Tanks

Nalgene 5 gallon Polyethylene Tank with dust cover **NG0050** **$15.95**

Nalgene Floating Lid **NG0052** . . . **$17.95**

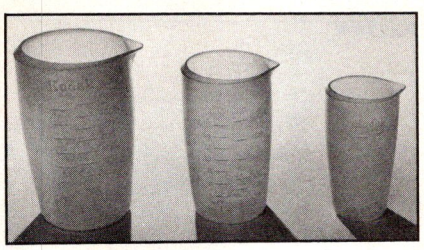
Nalgene 15 gallon Polyethylene Tank with dust cover **NG0150** **$27.95**

Nalgene Floating Lid **NG0152** . . . **$18.95**

Nalgene 30 gallon Polyethylene Tank with dust cover **NG0300** **$41.95**

Nalgene Floating Lid **NG0302** . . . **$19.95**

Faucet, self closing, non-corrosive, ⅜" IPS (free installation when purchased with tank) **NG1000** **$10.00**



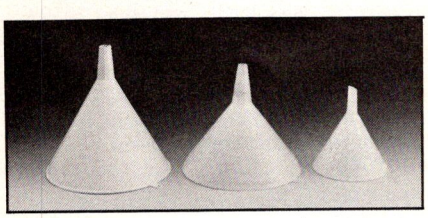
Kodak Darkroom Graduates

Constructed of lightweight, shatterproof polyethylene. Splashproof edge. Marked in ml. and oz. graduations on both sides.

8 oz. **KK9475** **$4.25**

16 oz. **KK9477** **$5.25**

32 oz. **KK9480** **$6.50**



Filter Funnels

Constructed of thick white polyethylene with fine-mesh stainless steel filter.

16 oz. size **BR9112** **$2.95**

32 oz. size **BR9114** **$3.95**

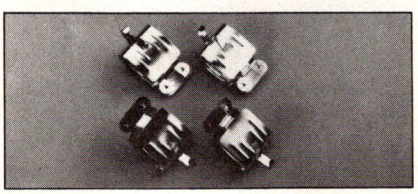
Calumet Graduates and Mixing Beaker

1 gallon Stainless Steel Mixing Beaker
VL9030 . . . . . **$29.95**

128 oz. Stainless Steel Graduate.
AY0440 . . . . . **$62.00**

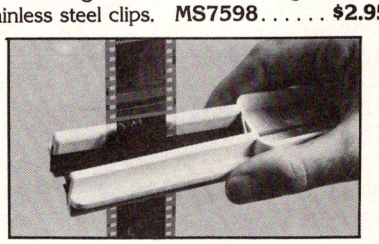
64 oz. Stainless Steel Graduate.
VL9020 . . . . . **$22.95**

32 oz. Stainless Steel Graduate.
VL9010 . . . . . **$16.95**



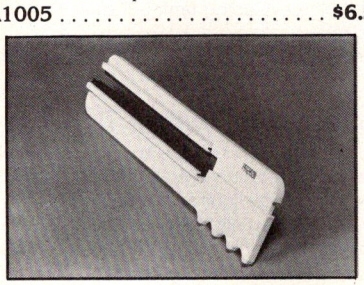
Film Clips

With two regular and two lead weighted stainless steel clips. **MS7598** **$2.95**



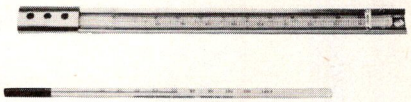
Paterson Film Squeegee

Removes excess moisture and prevents drying marks on film. Extra soft rubber blades remove excess moisture from film without scratching. 3" long wiping blades are suitable for all film up to 4 x 5.
PA1005 . . . . . **$6.50**



Paterson RC Print Squeegee

Efficiently removes excess water from black & white and color prints up to 16 x 20. Promotes rapid and even drying. Features floating action blade and comfortable hand grip. **PA1010** **$18.95**



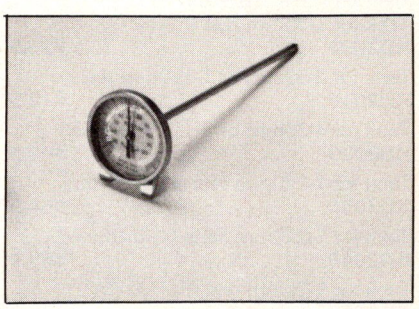
Kodak Thermometers

Process thermometer—Precision made "standard of the industry." Dual scale, 12 to 60°C and 55 to 140°F±0.25 degrees F. Glass in stainless steel sheath.
KK9496 . . . . . **$59.95**

Color Thermometer—10" long, glass F scale accuracy ±0.5 degree.
KK9495 . . . . . **$11.95**

Beseler Thermometer

Precision dial thermometer with 60-160°F. range, accurate to ±½° in most-used 68 to 100° range. Big 2¼" dial with glow-in-the-dark numbers, with Fahrenheit and Centigrade scales. Fully adjustable for lifetime accuracy. Fast temperature response. Clip fastens thermometer to any tray or tank.
BS4035 . . . . . **$19.95**



Weston Dial Thermometers

Standard—stainless steel, for tank or tray use. Accuracy ±.025°F.
BR8200 . . . . . **$23.95**

3" diameter—dual scale 6" spiked stem. Accuracy ±0.25°F. **BR8210** **$26.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

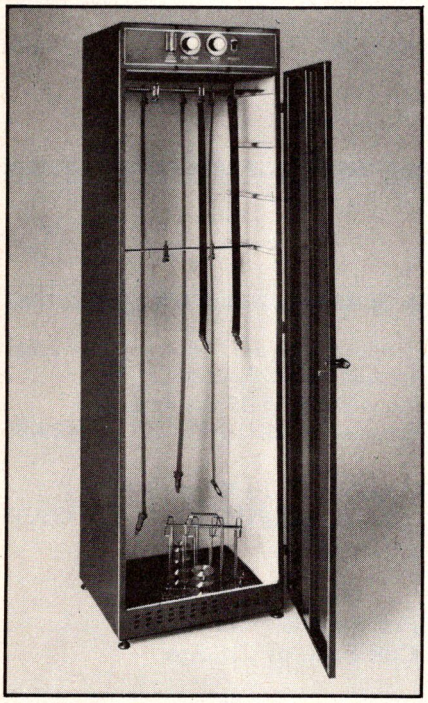
Print Dryers

DSA/Senrac Film Dryer

The DSA/Senrac dries roll film right on your stainless steel processing reels in 2 minutes. Filtered, temperature controlled air sweeps film dry without dust or drying marks.

Features built-in 10 min. timer with bell, warm or cool switch with internal thermostat, corrosion resistant construction with washable filter, weight 18 lbs., height 24", 115 volts, 615 watts with 8' power cord, capacity 3-120mm or 5-35mm reels or combination up to 8½". Includes wall mount. **AA3500** **$289.95**

Replacement Filter for DSA film dryer.
AA3510 . . . . . **$6.95**

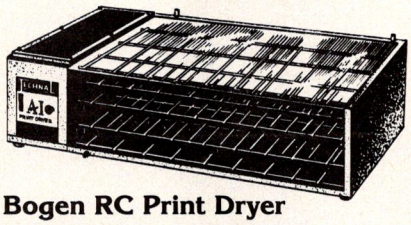


The MFD 1 Film Dryer

Dimensions: 24" x 24" x 80" outside, electrical 15 amps, 115 volts, fan only 1 amp, weight 150 lbs., uses standard 16" x 20" x 1" furnace filter.

MFD 1 Film Dryer with rods and brackets
AY0451 . . . . . **$950.00**

Optional Print Rack for MFD 1. Set of four.
AY0453 . . . . . **$45.00**

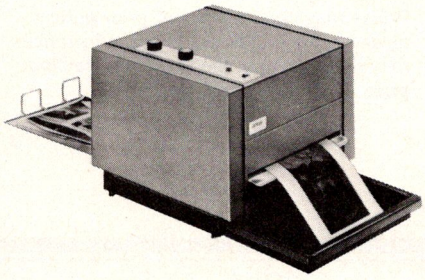


Bogen RC Print Dryer

Technal A-1 is designed specifically for resin (RC) and plastic coated papers by the best means possible—heated air. This method actually allows RC prints to lie flatter than if they were dried at room temperature. Color and black and white prints can be dried in as little as four minutes time by a gentle stream of filtered, heated air. Four plastic coated steel racks will accept up to 8 8" x 10" or 4 11" x 14" prints. This compact dryer is 23" x 14" x 6½" and weighs only 21 lbs. Power consumption is 650W.
BG5182 . . . . . **$199.95**

Accessory Film Drying Racks

Convert A-1 print dryer into a film dryer which will hold up to 6 35mm or 120 stainless steel reels and will also dry sheet film up to 4" x 5". Five-piece kit comes with holder, two racks, and two rods.
BG5180 . . . . . **$21.95**

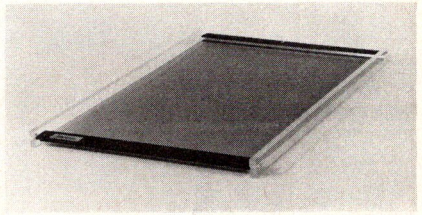


Arkay Print Dryers

Arkay RC-1100—This new table top "RC" print dryer features adjustable speed and heat controls. Dryer handles up to 300 8 x 10 black and white RC prints per hour. Accepts sheets from 3" to 12" wide. Fits on standard table, measures 17" x 17" x 13" (add 14¾" to depth for rear print tray.) Weight 49 lbs. **AK0315** **$645.00**

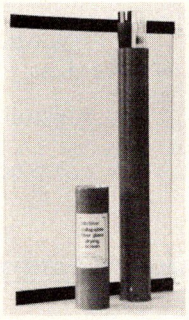
Arkay RC2100—Variable speed "RC" print dryer has capacity to handle 600 8 x 10 B&W prints per hour. Will also dry stabilization and diffusion transfer (print type) materials. Will accept prints up to 20" wide. All metal construction measures 26 x 17 x 13" (add 25" to depth for rear print tray) Weight 60 lbs. **AK0313** **$995.00**

Arkay Dual Dri 150 Conventional fiber base paper dryer with 22" wide chrome plated stainless steel drum.
AK0300 . . . . . **$999.95**



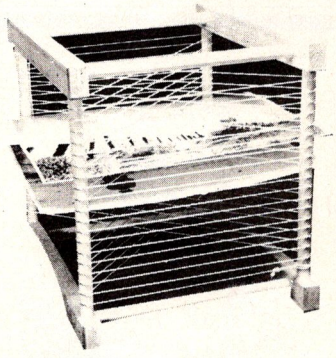
Kostiner Collapsible Print Drying Screen

These new print drying screens will be a welcome, space-efficient addition to any darkroom. The Kostiner Fiber Glass Drying Screens are fully collapsible to eliminate the need to permanently tie up precious working space. The screens easily snap together to form a rigid fiber glass drying screen and, when assembled, are self stacking. After use, simply collapse the frame so that you can easily rinse the screen so it is clean for your next darkroom session. Prints can be dried on any table surface. Screens come packaged individually in reusable tubes for easy storage



PS-24 Kostiner Drying Screen- Holds up to 4 (8 x 10's), 2 (11 x 14's) or 1 (16 x 20).
KS8000 . . . **$21.95**

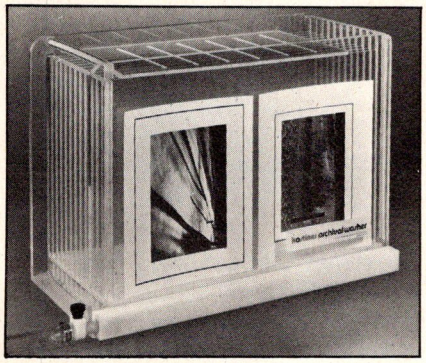
PS-36 Kostiner Drying Screen- Holds up to 9 (8 x 10's), 6 (11 x 14's), 2 (16 x 20's) or 1 (20 x 24).
KS8005 . . . **$31.95**



Warner Stak-Rak RC Dryer

Large capacity. Holds up to 18-11" x 14" prints, 38-8" x 10"'s and more 5" x 7" size. Compact cube design saves space. Shrink pack kit 14" x 5" x 3". Air circulates to both sides of prints. Hardwood frame with nylon cord. Assembly required.
KT6050 . . . . . **$24.95**

Kostiner Archival Washers



Kostiner Archival Print Washers

Maximum print permanence with minimum water use. Kostiner washers are acclaimed by some of the world's finest photographers. In our opinion, they are the best constructed archival type washers available. Air turbulated water keeps prints continuously floating with no sticking together. Low water consumption. The washers will operate effectively at a minimum flow rate of one gallon per minute.

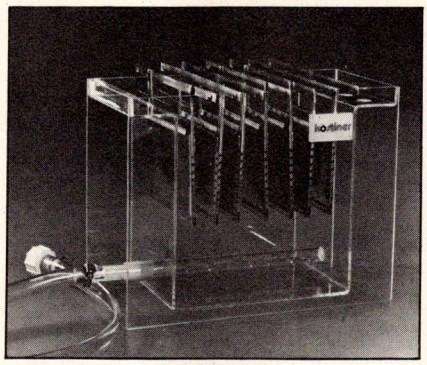
Kostiner 11 x 14 Archival Print Washer
KS1000..... **$375.00**

Kostiner 16 x 20 Archival Print Washer
KS1500..... **$475.00**

Kostiner 20 x 24 Archival Print Washer
KS2000..... **$650.00**

Out of sink attachments for table top use.
11 x 14 out of sink attachment.
KS1005..... **$60.00**

16 x 20 out of sink attachment
KS1505..... **$75.00**



Kostiner Sheet Film Washers

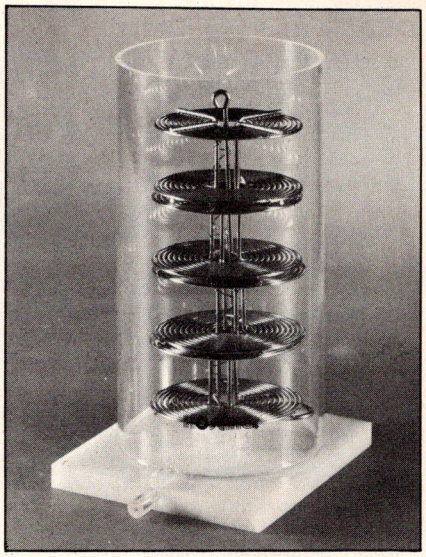
The Kostiner sheet film washer uses an air turbulated concept which prevents air bubbles from collecting on the film assuring a better, cleaner archival wash.

Water flows through the adjustable air turbulator valve and into the washer. Includes 4-foot hose with standard garden hose connector.

4 x 5/5 x 7 Washer—capacity 15-4″ x 5″ or 12-5″ x 7″ hangers
KS3000..... **$65.00**

8 x 10 Washer—capacity 12-8 x 10″ hangers
KS3005..... **$90.00**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.



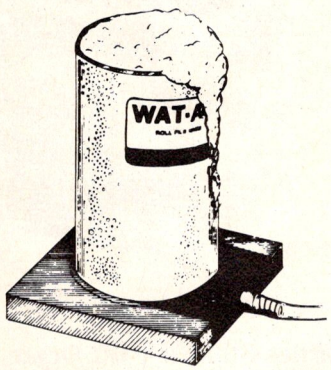
Kostiner Frusto-Conical Negative Washers

Designed specifically for roll film. Its large 4 3/16″ inner diameter accepts, 35mm, 120 and 220 reels of stainless steel or plastic. The Frusto-Conical water dispersion system provides perfect water distrubution with the correct amount of agitation over the entire negative surface. Hose included.

7″ Tall Frusto-Conical Washer
KS4000..... **$29.50**

13″ Tall Frusto-Conical Washer
KS4200..... **$45.00**

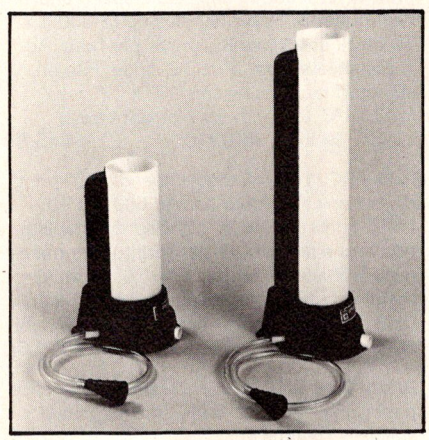
Film Washers



Wat-Air Film Washers accepts film on reels. Reduces "wet time," removes hypo from wash in 4 min. Built-in filter, clear vinyl hose. For Nikor type steel reels.

435 8-35mm reels (or 2-120)
PF8310..... **$23.95**

835 8-35mm reels (or 4-120)
PF8312..... **$31.95**



Doran Aqua/Vac Washers

Optimum washing for maximum permanence of roll film. Accepts 35mm, 120-220 reels up to 4″ in diameter. Differs from other washers, because vacuum syphon-action automatically empties from the bottom of the washer instead of overflowing.

Aqua/Vac for 5-35mm Reels or Equivalent **DN1000**..... **$29.95**

Aqua/Vac for 10-35mm Reels or Equivalent **DN1500**..... **$39.95**

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

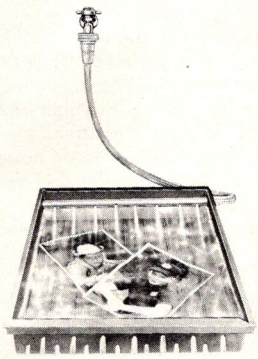
Print Washers and Accessories

Calumet Automatic Print Washer

A fully automatic, motor powered print washer that washes faster while using less water. Prints wash faster because the Calumet Print Washer surrounds each print in a small volume of continuously fresh water. A wave action and hydraulic jet from the bottom shuffles the prints continuously, lifts prints off the bottom and flows water between the prints. Small air bubbles introduced into the wash water act as a lubricant to prevent print sticking. Prints are always in motion and separated. The combined air, wave and hydraulic jet action washes prints in 25 to 45 minutes. Up to 125 8″ x 10″ prints may be washed at one time.

- Uses less water—approximately 2 gal. per minute as compared to equal capacity drum washers using 5 or more gal. per min.
- Automatic cycling—a timer with 0 to 60 minute adjustments turns on the water, starts rocking motion and hydraulic action.
- Stainless steel 24″ x 30″ interior.
- ½″ water inlet with automatic 2 gal. per min. flow control valve.
- 120V, 60-cycle gear reduction motor.
- 1½″ I.P.S. stainless steel drain fitting.
- Total height from floor is 37½″. Outside dimensions are 28″ x 34″.

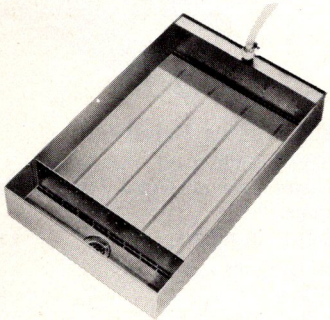
Model 515 Automatic Print Washer
AK9100 . . . . . **$1025.00**



Testrite Print Washers

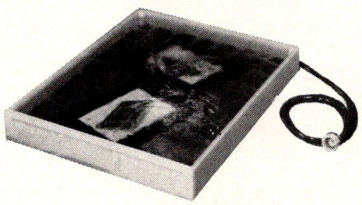
Compact ribbed plastic tray with straight line jet-flow action. Adjustable faucet attachment with flexible hose.

Takes up to 11 x 14 Prints and Film
BR8215 . . . . . **$12.95**



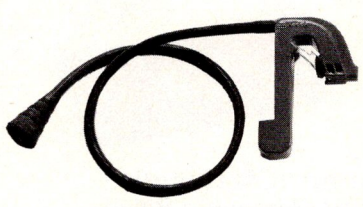
16 x 20 Rapid Print Washer

Water is forced through numerous jets that constantly flow water through the washer to separate and wash both sides of the prints. Excellent for RC papers. Accepts up to ten 16 x 20 prints. Stainless steel construction with 1½″ bottom sink drain. Includes 3′ intake hose. **AK0210** **$139.95**



Kostiner Pre-Rinse Tray

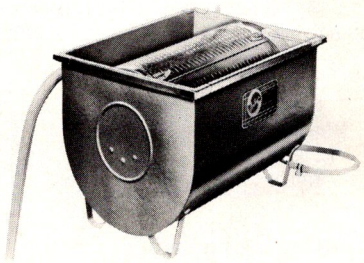
This oversized, 16″ x 20″, pre-rinse or holding tray is an ideal accessory to any darkroom, and can double as an efficient R/C, color, or Cibachrome print washer. Because of its unique design, which incorporates a "basket weave" water jet flow from all four sides, prints are kept suspended and continuously wetted on both sides, producing a very efficient holding or wash bath. Prints are not allowed to stick to the bottom of the tray, while the top print will not go dry from floating on the water's surface. The Kostiner Pre-Rinse Tray is the perfect, maintenance-free, holding tray and saves space while doubling as an R/C print washer.
KS3050 . . . . . **$109.95**



Kodak Automatic Tray Siphon

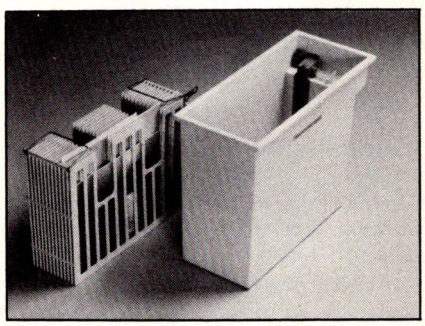
Converts ordinary tray into print washer. Keeps prints in motion and separated. With faucet connector and 3′ of ⅜″ rubber tubing. **KK9473** **$24.95**

Prices and specifications subject to change without notice.



Arkay Loadmaster Print Washer

Perforated drum rotates constantly by water power. Accepts 75-8 x 10 prints. Prints washed thoroughly in minutes—do not mat together on drum. 100% stainless steel with brass fittings. Bottom hose for self draining into sink. Size: 19⅜″ x 15″ x 13.″ One gal. per min. 6 changes per hour.
AK0200 . . . . . **$219.95**



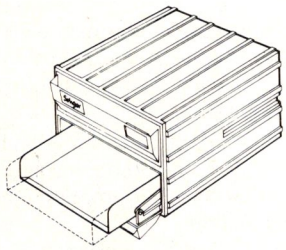
Paterson Auto Print Washer

Provides an economical and efficient way to thoroughly wash all fiber base papers for archival permanence. Uses a low pressure water supply and provides even distribution of wash water over both sides of prints utilizing the unique oscillating action of the print cradle. Will wash up to 12 8″ x 10″ prints, 24 5″ x 7″'s, and 48 4″ x 5″ prints. Supplied with standard tap connector.
PA1000 . . . . . **$89.95**

Paterson 11 x 14 Print Washer

Maximum print capacity: 12 (11 x 14's), 24 (8 x 10's) or 48 (4 x 5's)
PA1015 . . . . . **$125.00**

Darkroom Accessories

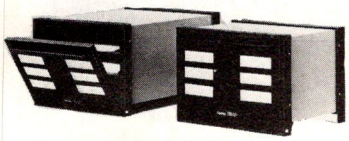


Soligor Paper Safes

The Soligor Store 'N Feed Paper Safes provide convenient, economical, protective storage of all photographic papers. A built-in paper counter keeps track of how much paper has been used. The spring loaded access door dispenses one sheet at a time and prevents inadvertent fogging. The unit features modular construction which allows one unit to be stacked on top of another.

8" x 10" Double drawer, 200 s/w sheets or 100 d/w sheets. **IP1005**..... **$39.95**

11" x 14" Double drawer 200 s/w sheets or 100 d/w sheets. **IP1010**..... **$59.95**

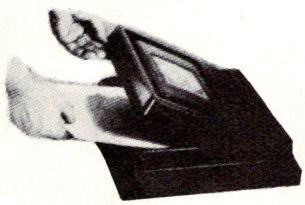


Premier Paper Safes

Modern square design with adjustable shelf dividers. Incl. printed labels.

PS-81 for 8" x 10" **PM6910**..... **$53.95**

PS-114 for 11" x 14" **PM6915**.... **$69.95**



Doran Paper Safes

Positive light-tight protection. Easy open/close with positive lock. Tilt top fans paper for easy sheet removal. 2" deep.

8" x 10" **AK0100**..... **$18.95**

12" x 16" **AK0110**..... **$22.95**

16" x 20" **AK0120**..... **$37.95**

Spot-Lite Glow-In-Dark Tape

Pressure sensitive phosphorescent vinyl tape glows in total darkness after exposure to any type of light. No radium. Non-toxic. Hundreds of darkroom uses. 1" x 5 yds. kit.

KT0350..... **$7.95**

Falcon Dust-Off Pro System

Includes 32 oz. size can of Dust-Off, 6' extension hose with special nozzle and trigger mechanism, and wall/countertop bracket for can. **FA7140**..... **$43.95**

32oz. replacement can. **FA7141** ... **$9.95**

Falcon Stat-Off Adapter for Standard Nozzle.

Will convert Dust-Off to produce an ionic charged blast, thus eliminating static. May be used on negatives, lenses, cameras, projectors and slides. **FA7151** **$15.95**

Dust-Off

Removes dust and lint on negatives and lenses, in cameras, enlargers and projectors. Variable control, leaves no smudges or scratches.

No. FG Dust-Off (14 oz.)
FA7110..... **$17.95**

No. FG-R Dust-Off Refill (14 oz.).
FA7113..... **$3.95/ea.**

FA7120..... **$44.95/doz.**

Dust Off II

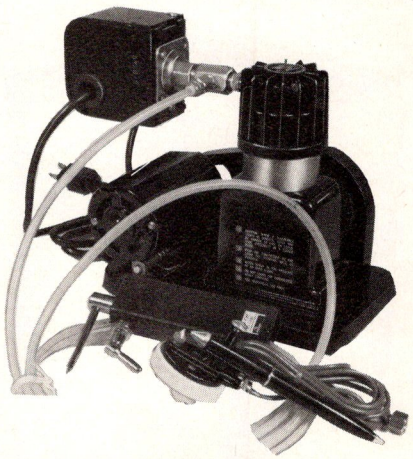
New modern design for 20% more blasts per can. Three way trigger control produces light to strong blasts in 3 settings. Triple filtering. Trigger assembly can be removed from refill can without loss of pressure. Dust-Off II nozzle with one can of air.
FA7160..... **$19.95**

Refill can for use with Dust-Off II nozzle only **FA7161**..... **$3.95 ea.**

FA7162..... **$44.95/doz.**

Kostiner Anti-Static Dust Removing Brush

Carbon-coated, acrylic-fiber brush will remove static electricity and dust from negatives, sheet film, enlarging lenses, glass plates or electronic parts. Neutralizes positive charged ions through resistance flow without radioactive elements. Brush may be washed with soap and water. Handsome wooden handle provides comfortable grip.
KS7000..... **$29.95**



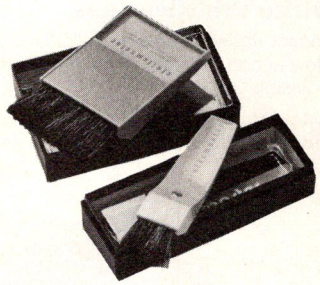
Ban Dust Air Compressor

Supplies an unlimited supply of clean, forced air and will not give negatives a "freon bath" or run out of air in the middle of a printing session.

The economical and ecological Ban Dust compressor is activated by simply depressing the air valve trigger and shuts off when the trigger is released. Strength of air flow is controlled by finger pressure.

As with any air compressor, noise and vibration are factors and should be considered when installing the unit.

Unit is a compact 5¼" x 8¼" and includes 8' flexible extension hose dusting gun and air brush attachment. Accepts the Falcon stat-off accessory to remove static electricity from negatives.
AR4500..... **$189.95**



Staticmaster Brushes

Features polonium strip that neutralizes and eliminates static electricity. With replaceable cartridge.

1" Model. **BR8830**..... **$10.95**

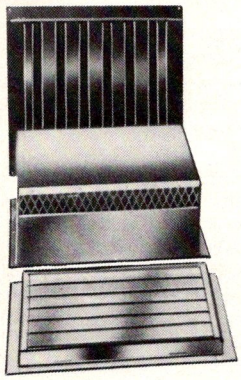
1" Replacement Cartridge.
BR8831..... **$6.95**

3" Model. **BR8832**..... **$21.95**

3" Replacement Cartridge.
BR8833..... **$14.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Air Cleaning and Ventilation



Air-No-Lite Exhaust Fan

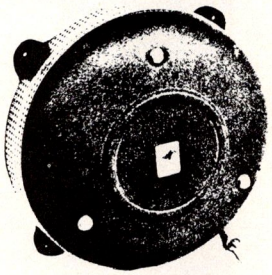
Absolutely light tight exhaust fan exhausts up to 300cfm. Efficient for darkrooms up to 12′ x 14′ x 8′. The Air-No-Lite can be used either to suck the air out through the ceiling where the motor is above the ceiling and the louver is flush with the ceiling, or it can be used to push the air to another room.

Air-No-Lite can be grounded by attaching the ground wire to any one of the screws on the unit. All components are UL tested and approved. Stainless steel fan housing will not corrode. Features self-lubricating motor, w/ 5-blade fan. Outside dimensions: 12″ x 12″. **AA3000**..... **$159.95**

12″ x 12″ Light-Tight Darkroom Louvers

Light tight metal louvers with 1″ flange. Offer efficient fresh air exchange when used in conjunction with exhaust fan for air intake use, louvers should be purchased in pairs.

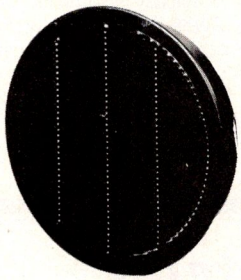
12″ x 12″ Louver **ED1212**..... **$39.95**



Starfield Darkroom Ventilator

Precision quiet motor keeps constant flow of fresh air circulating, moves 200 C.F.M. per minute. Easy to install on square plywood panel. Size 12″ dia. 7″ thick, 70 watts, 110 volts, 50-60 cycle A.C., 6 ft. cord. Baffle design. Double air intake.

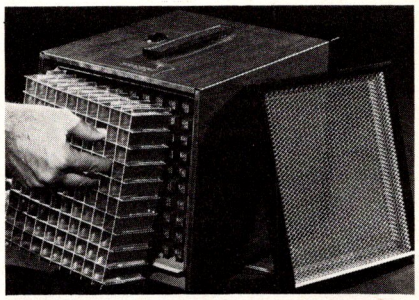
KT6020..... **$139.95**



4″ Darkroom Louvers

Low priced. One piece light-proof air vent for darkroom doors, walls. For regulating heat and ventilation. Black anodized aluminum. Easy to install—slips into 4″ hole.

KT6000..... **$6.95**



Calumet Electronic Air Scrubber

Effectively cleans the air of dust, tobacco smoke, pollen, and other bacteria. Ideal for use anywhere pollution is a problem.

The dirty polluted air is drawn through the unit by a quiet two-speed fan and is electronically cleaned. Very small particles of bacteria, virus, smoke, and other contaminants are suspended in the airstream and assume a positive charge as they are carried past the ionizer point. As the airstream carries them further, they are repelled by the high voltage probes which also have a positive charge and are attracted to or "thrown against" the negative charged walls of the collector cell. Maxi Air Scrubber is designed for rooms up to 600 sq. ft., features a 12″ fan blade, measures 15¾″ x 14½″ x 15″ and weighs 32 lbs. Air volume on high is 320 c.f.m. and on low is 200 c.f.m.

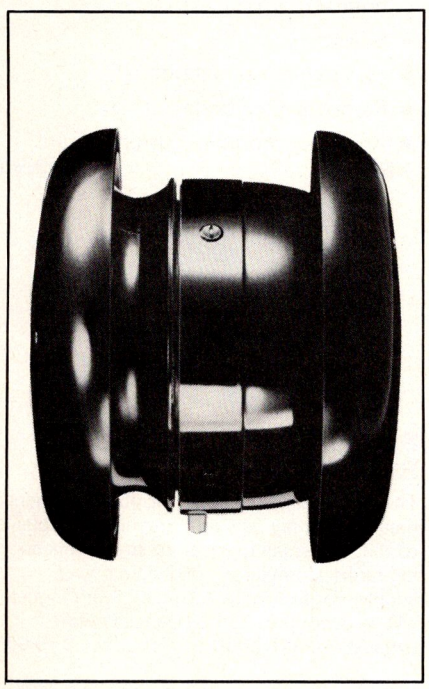
Maxi Air Scrubber

CP9135..... **$299.95**

Collector cells for Maxi Air Scrubber

Throw away (3 Pack) **CP9136**.... **$11.95**

Permanent **CP9137**..... **$38.95**



Vent-Axia Darkroom Ventilator

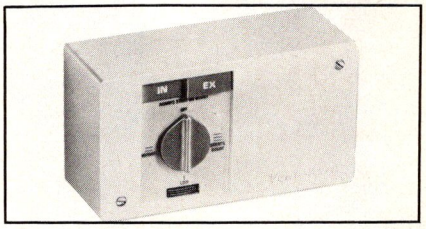
Uniquely designed with two mushroom cowls, which offer light-tight and weather-proof protection, these units can be mounted in any wall or window partition up to ⅜″ thick (for fitting into thicker walls or ceilings, an optional adapter kit and two fixings plates are available.

All models are constructed of non-corrosive black PVC and contain reliable, long-life, quiet motors. Fans can be wired for either intake or extract, depending upon preference, and can be connected directly to a 110 volt 60 Hz power outlet. Each Vent-Axia Ventilator carries a 2-year warranty.

7″ Vent-Axia Darkroom Ventilator. Features a 7″ fan which produces 10 air changes per hour in an 800-1100 cubic foot area. Size: 13″ diameter, 10 ⅝″ long. Mounts into 8¾″ diameter opening and can be fitted into a wall up to ⅜″ thick. **ED1217**.... **$299.95**

9″ Vent-Axia Darkroom Ventilator. Features a 9″ fan which produces 10 air changes per hour in an 1100-1900 cubic foot area. Size: 10¼″ diameter, 12 ⅛″ long. Mounts into 11⅝″ diameter opening and can be fitted into a wall up to ⅜″ thick.

ED1219..... **$379.95**



Vent-Axia Rangemaster Controller

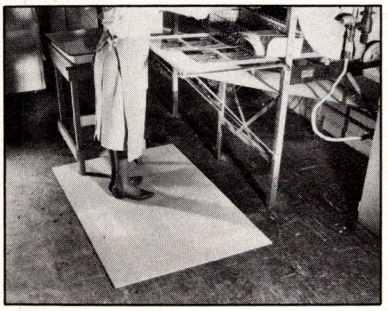
Offers 3-speed power control and push button intake/extract flow control for Vent-Axia Ventilators. Controller gives a choice of low, normal and boost operation. Rangemaster Controllers have double-pole switching, auto-transformer and neon pilot light and can be supplied for 50-60 Hz single phase at all standard voltages. Seprate plug-in base is supplied for ease of wiring.

Vent-Axia Rangemaster Controller for 7″ Unit - Allows performance range of 11500, 15000 and 18000 cubic feet of air moved per hour. **ED1227**..... **$82.95**

Vent-Axia Rangemaster Controller for 9″ Unit - Allows performance range of 18000, 25000 and 30000 cubic feet of air moved per hour. **ED1229**..... **$89.95**

Darkroom Furnishings

Ace Lite Step
Koralite Darkroom Mats



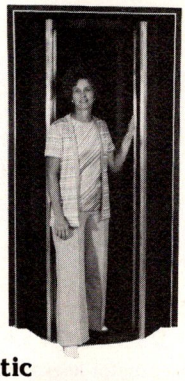
These anti-fatigue mats are completely shock absorbent to cushion all types of floor surfaces. Made entirely of closed cell vinyl that will not absorb darkroom liquids.

⅜" thick Koralite

Black 24" width per ft. **AC1010**. . . . **$9.00**

Black 36" width per ft. **AC1015**. . . **$13.50**

Note: Please specify length in feet when ordering. Example: 5' AC1010 would be a 5' x 24" black mat, ⅜" thick with total cost of $45.00



Speedmatic
Revolving Darkroom Door

Provides light-tight, easy access to and from any type darkroom without stopping film and paper processing or other activities requiring a dark environment.

Shipped completely assembled for fast installation. 2W36 model fits in any standard 3' door opening. Furnished with specially designed breakaway hardware for emergencies and for moving large pieces of equipment in and out.

Constructed of sturdy high impact polystyrene with steel reinforced supporting members. Easy rotation from either direction facilitated by ball bearing center suspension and lower guide.

Model	2W2B	2W36	3W48
Overall Ht.	82¼"	82¼"	82¼"
Wall Opening Ht.	80"	80"	80"
Wall Opening Wth.	29"	36"	49½"
Overall Dia.	28"	35"	46¾"
Inside Dia.	25½"	32½"	45"
Inside Ht.	74¾"	74¾"	74¾"
Entrance	18"	20"	20"
Door Wt.	157 lbs.	187 lbs.	225 lbs.
Crated Wt.	203 lbs.	233 lbs.	265 lbs.

2-Way model 2W2B **SP2000** . . . **$929.95**

2-Way model 2W36 **SP2005** . . . **$989.95**

3-Way model 3W48 **SP2010** . . **$1269.95**

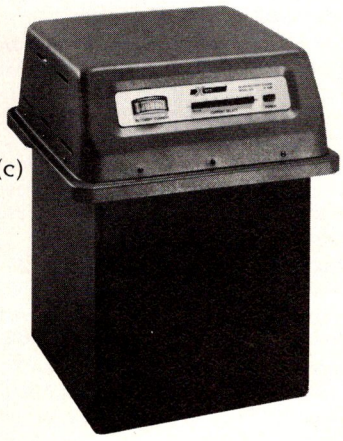
Note: Revolving doors are shipped by truck freight collect. F.O.B. Cushing, OK.

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Silver Recovery Systems

(a)

(b)



(c)

The increasingly higher price of silver now makes silver recovery advantageous for nearly all professional labs and amateur darkrooms.

X-Rite Silver Recovery Systems

From the most sophisticated, high volume recovery requirements down to the smallest lab application.

X-Rite Model 601 (a)

For manual and batch systems

- Tank size: 2 gallons, not for bleach
- Recovery rate: .125 (⅛) troy ounce per hour
- "Oil Can" Cathode Disc
- Compact, solid state with overload protection, continuous duty, variable current control.

XR2000 . . . . . **$299.95**

X-Rite Model 603 (b)

Ideal for small to medium size labs

- Tank size: 5 gallons, not for bleach
- Recovery rate: .375 troy ounces per hour (3 amps)
- 3 Removable Discs
- Solid state with multiple current selection
- Ammeter monitors current output

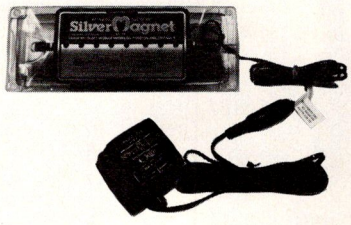
XR3000 . . . . . **$399.95**

X-Rite Model 610 (c)

A mid-size unit for both fixer and bleach

- Tank size: 10 gallons
- Recovery rate: 1.25 troy ounces per hour (10 amps)
- 8 Discs
- Short circuit protection
- Removable cathode
- Ammeter monitors current output

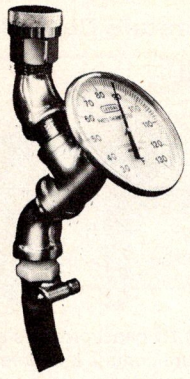
XR4000 . . . . . **$699.95**



Silver Magnet
Silver Recovery Unit

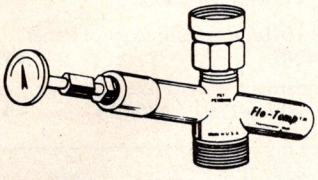
The Silver Magnet is ideal for photographers, dental and x-ray labs and graphic arts houses that use small to medium sized processing tanks. Completely solid state power supply. For fixer only. A single Silver Magnet will recover up to 33 troy ounces before exhaustion. **SR2000** **$49.95**

Water Filters And Accessories



Econotemp

An economical method of water temperature control, features a large 3″ dial, attaches easily to most faucets, swivels for easy positioning, and ends with the hose barb.
AY0431 . . . . . **$40.00**



Flo-Temp Thermometer Well—Attaches to faucet and holds Weston/Beseler type dial thermometers. Built in filter, adjustable temperature.

Black **PF5410** **$14.95**
White **PF5412** **$14.95**

Leedal Flo Meter (1-5 GPM)

Tells at a glance the water flow in gallons per minute. Installs easily on any water line (½″ MPT inlet and outlet) and is ideal for use with washers, processors, and any situation where a continual minimum or maximum water flow is important. Maximum temperature —100°F.
AY0436 . . . **$60.00**

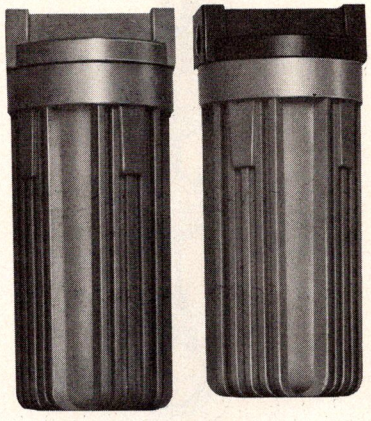
For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

Calumet Water Filters



Water filter housings made from tough polypropylene with talc filled walls for greater insulation. The cold water filter housing is rated at 125 psi at 125°F; the hot water filter housing is rated at 200 psi at 200°F. Either filter housing can be installed easily on new or existing plumbing. ¾″ NPT inlet and outlet.

FCC-10 Filter Housing—For cold water line, 9¾″ cartridge included.
AT0100* **$29.95**

FCH-10 Filter Housing—For hot water line. 9¾″ cartridge included.
AT0200* **$59.95**

Wall Bracket—Facilitates mounting the filter housing when plastic or flexible tubing are incapable of supporting the water filled housing. **AT0315** **$2.95**
*Plumbing connections required.

Installation Kit—Includes two shut-off valves and compression fittings for quick, easy installation on ¾″ pipe, rubber reducers for adaption to ½″ pipe, teflon tape and instruction sheet. **AT0320** **$19.95**
Replacement "O" Ring **AT0325**. . . . **$1.50**

Replacement Filter Cartridges

Dirt/rust S1 Pleated Paper 20 microns. —Hot or cold. Removes sand, silt, sludge, rust, scale, algae 9¾″. Sold in pairs only.
AT0305 . . . . . **$5.95**

C1 Activated Carbon.—5 microns, for cold water only. Removes foul odors, taste of chlorine, sand, silt, and rust. Sold in pairs only. **AT0310**. **$12.95**

P25 Polypropylene Dirt/Rust.—25 microns. Hot or cold, sold in pairs only.
AT0306 . . . . . **$7.95**

P5 Polypropylene Dirt/Rust.—5 microns. Hot or cold, sold in pairs only.
AT0307 . . . . . **$7.95**

The above filters are standard 9¾″ long, and can be used in most other filter systems.

Wing-Lynch Electronic Water Temperature Controller

Electronic water temperature control means quick, consistant, and reliable, response to the precision demands required for high quality film processing. The Wing-Lynch Electronic Water Temperature Controller delivers contamination-free water at temperatures varying no more than 0.2°F over an operating range of 60°F to 110°F, and at flow rates from 0.2 to 4 GPM. Electronic sensors respond instantly to temperature changes in incoming water and activate a unique blending system that pulses in the exact amount of hot and cold water needed, unaffected by changes in incoming water pressure or temperature. Other features include two temperature presets, allowing you to change temperature output by just the flip of a switch, and a digital display with a 0.1°F resolution that monitors either temperatures setpoint or actual water temperature readouts. A unique, built-in alarm system will warn you when your hot water supply falls below what's needed to maintain desired temperature, and will shut off the entire system if, for any reason, the flow of hot or cold water stops. One more safety feature includes a built-in 12-volt converter which will automatically keep the unit operational in case of a power outage (Batteries are not included).

The Wing-Lynch Controller requires no inlet pressure regulator and contains built-in anti-siphon protection against backflow.

Specifications include:

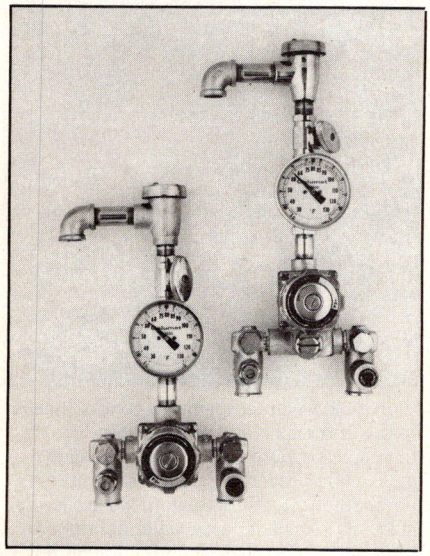
- Power: 60 Hz. 120 volt adapter plugs into conventional grounded receptacle. Power consumption: 12 watts
- Inlets: ½″ pipe thread for inlet lines.
- Outlets: Male ¾″ hose connection with shut-off and anti-siphon protection.
- Control Range: Settings from 60°F to 130°F. Provides readout in either Fahrenheit or centigrade
- Accuracy: ±0.2°F at normal inlet conditions (between 60°–110°F.)
- Flow Range: 0.25 to 4.0 G.P.M. at nominal 40 p.s.i. inlet pressure.
- Alarm: Audible alarm may be overridden.

WL1000. . . . . **$790.00**

Water Temperature Controls

Calumet Water Temperature Control Valves*

WR and WRP Series Temperature Control Valves.



Eliminate time consuming adjustments in mixing hot and cold water for proper temperature. Calumet's temperature controls mix and regulate output temperature and hold it to ½° of the desired setting. They feature an accurate dial thermometer and a thermostatic motor. Each temperature control includes thermostatic valve, plumbing fittings, flow control valve, shut-off valve, check stops with strainers, indicating thermometer with recalibration screw setting and vacuum breaker. WRP valves also include a pressure equalizing chamber which maintains equal pressure to the thermostatic section regardless of incoming pressure changes. Large incoming pressure fluctuations may cause temperature variations in the WR Series mixing valves. All shipped fully assembled.

WR-1 Temp. control valve, ½-2½ GPM
CP0502 . . . . . **$309.95**

WR-2 Temp. control valve 2-7 GPM
CP0505 . . . . . **$319.95**

WR-4 Temp. control valve 7-12 GPM
CP0506 . . . . . **$329.95**

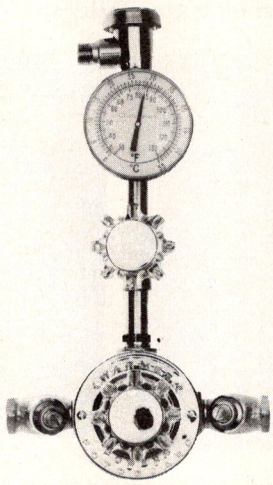
WRP-1 Temp. & Press. control valve, ½-2½ GPM **CP0602** **$359.95**

WRP-2 Temp. & Press. control valve, 2-7 GPM **CP607** **$359.95**

WRP-4 Temp. & Press. control valve, 7-12 GPM **CP0605** **$479.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

*Plumbing connections required.



WER-2 Econo-Temp Valve. Calumet's incredibly affordable WER-2 temperature control valve brings temperature control to every darkroom that requires optimum thermostatic water mixing for the finest quality film and print processing. The WER-2 features heavy-duty construction, large dial thermometer calibrated in both Fahrenheit and Celsius, tempered water flow control, accuracy of ±½°F at normal flow rate, flow rated at 1-4 G.P.M. ½" N.P.T. hot and cold water inlets, ⅜" N.P.T. tempered water outlet and ⅜" vacuum breaker.
CP0501* **$219.95**

Calumet Valve Repair Kits. Everything necessary to restore thermostatic valves back to like new condition.

W-97-2 Repair kit for W-97 & WRP-1
LL0602 . . . . . **$139.95**

W-97-4 Repair kit for W-98 & WRP-1
LL0603 . . . . . **$139.95**

W-97-15 Repair kit for WRP-4
LL0605 . . . . . **$189.95**

W-99-2 Repair kit for WR-1
LL0502 . . . . . **$109.95**

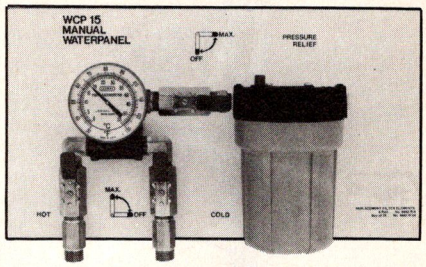
W-99-4 Repair kit for WR-2
LL0503 . . . . . **$109.95**

W-99-12 Repair kit for WR-4
LL0506 . . . . . **$109.95**

W-99-20 Repair kit for WR-5
LL0507 . . . . . **$109.95**

**For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time**
1-800-CALUMET
(In Illinois, call 1-800-225-8601)

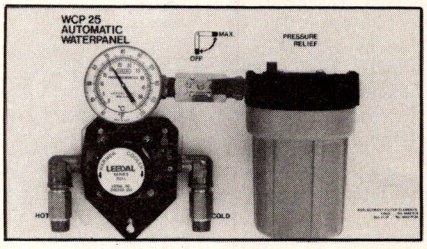
Temperature Control Panels



The WCP 15 panel provides economical temperature control. It features separate hot and cold water adjustment valves for temperature mixing, preplumbed 3" dial thermometer, flow control valve, ½" N.P.T. inlet connections, ¾" garden hose outlet connection, and a 30 micron reuseable water filter. The unit is supplied on a convenient to mount wall panel. Accessories include optional vacuum breaker and spray hose which require user installation.

WCP 15 Temperature Control Panel
AY0434* **$159.95**

Replacement Water Filter Cartridge, Sold in Sets of Four Only **AY0439** **$18.00**

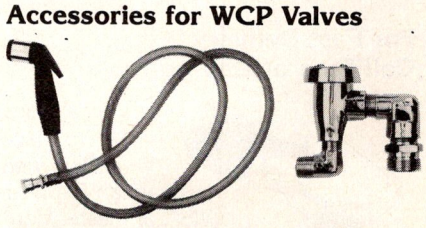


The WCP 25 provides a thermostatic mixing valve for accurate temperature control. It features preplumbed mixing valve, 3" dial thermometer, flow control valve, ½" N.P.T. inlet connections, ¾" garden hose outlet connection, hot and cold water check valves, and a 30 micron reuseable water filter. This unit maintains plus or minus ½ a degree accuracy at normal flow rates of 1 to 5 G.P.M. The WCP 25 is supplied on a convenient to mount wall panel. Accessories include an optional vacuum breaker and spray hose which require user installation.

WCP 25 Temperature Control Panel
AY0435* **$319.95**

Replacement Water Filter Cartridge, Sold in Sets of Four Only **AY0439** **$18.00**

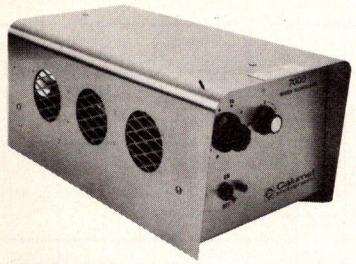
Accessories for WCP Valves



Optional Hose and Spray Unit w/shutoff.
AY0437 . . . . . **$21.95**

Optional Vacuum Breaker With Fittings (partially assembled)
AY0438 . . . . . **$21.95**

Water Temperature Controls



Model 7000 High-Temp Recirculator

The Model 7000 is the ideal industrial-quality recirculator for maintaining constant temperature with today's modern processes. The heavy duty, long-life pump has the capacity for use with water jackets, sinks, processors.

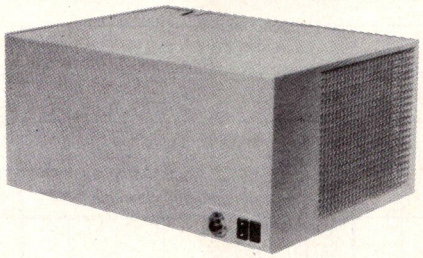
FEATURES:

- Stainless Steel Exterior
- 1000 Watt Heating Element
- High Temperature P.V.C. Heater Tank
- Seal-less Magnetic Drive Pump
- Manual Reset On/Off Switch with built-in circuit breaker
- Automatic Reset Thermal Protection for Pump Motor
- Hand operated thermostat adjustment
- Heater Indicator Light (On/Off Switch)

SPECIFICATIONS:

- Electrical: 105 to 130 Volts, 50 to 60 Hertz
- Temperature Range: 75° to 110° F.
- Temperature Regulation: ± ¼° F.
- Overload Temperature: 185° F.
- Pump Capacity: 5 GPM
- Dimensions: 6¾" high x 8" wide x 15½" deep
- Weight: 15 lbs.
- Supplied with plastic hook-up hose.

CP5025 . . . . . **$374.95**



61W Recirculation Unit

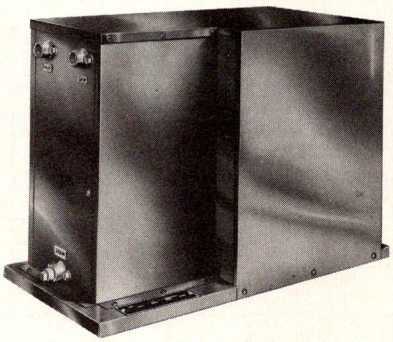
Pumps water from sink through a chamber containing both heating and cooling elements. The water is brought to predetermined temperature, regulated by a precise control. Tempered water is then circulated back to the trays or tanks to maintain a constant temperature. The unit is completely automatic.

SPECIFICATIONS:

- 1000W immersion heater and ⅓ HP water chiller are regulated by thermostat with ½° F accuracy
- Temperature settings may be made from 55° to 85° F
- Circulating pump handles a minimum of 9 gallons (a sink) or a maximum of 25 gallons (a water jacket)
- Power: 115V, 60 cycle, single phase AC
- Pump capacity of 3.7 to 5 gpm depending on water in sink
- Heat reduction capacity of 1° to 1.4° per gallon of recirculated water per minute
- Heating and cooling tank holds 6 quarts and is provided with a drain outlet
- Air cooled heat exchanger
- Dimensions: 17" x 28" x 18"

CP9110 . . . . . **$1149.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.



50W Water Chiller

For temperature control devices and processing sinks when city water rises above processing temperatures in the summer. The Calumet Water Chiller chills the water to approximately 40°F and delivers it to the mixing valve connection. An internal thermostat is adjustable. The hermetically sealed compressor has a 5-year warranty* and is lubricated for life. The cooler, compressor, condenser and all wiring are completely enclosed. Bypass valves can be used to reduce energy costs in summer and winter. Compact 33¾" x 14¼" x 16⅛" size allows for storage beneath processing sink.

*Warranty by manufacturer.

Performance Data

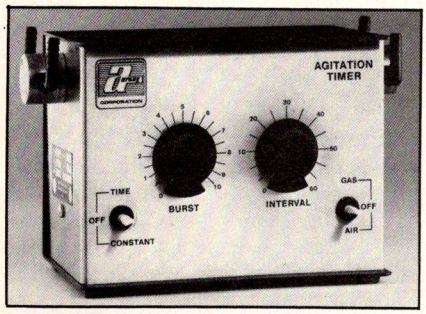
Usable output available, based on incoming temperatures into water chiller:

	Water Line Temperature		
Output At	80°	85°	90°
68°	94.0 GPH	84.0GPH	69.0 GPH
50°	34.6 GPH	30.0 GPH	25.4 GPH

SPECIFICATIONS

- Condenser: Water cooled: drain required
- Connections: Water input, cold water output, drain ⅜"
- Horsepower: 1 HP
- Electrical: 115V 60/50 cycle—single phase 11 amp. average draw
- Holding Tank: Stainless steel—0.9 gal. capacity

CP9100 . . . . . **$769.95**



Gas Burst Timer

The solid state design of the Arkay NC-2 gas burst timer means greater reliability and accuracy at the lowest possible cost.

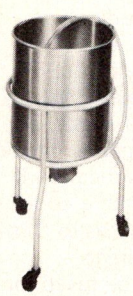
The NC-2 features dual solenoid control so that both nitrogen and air can be used in the same timer. A conveniently located switch lets you instantly select nitrogen or air agitation.

The NC-2 has a large, easy-to-read double pointer dial for setting burst duration from .25 seconds to 6 seconds. The interval between bursts can be set from 1 second to 60 seconds.

The timer housing is stainless steel with a black baked enamel cover. It can be wall or bench mounted. Electrical requirement: 110v. A.C.

NC-2 Nitrogen/Air Combination Timer
AY9020 . . . . . **$289.95**

Gas Burst Timer Hose ¼" I.D.
AY9025 . . . . . (per foot) **$1.69**



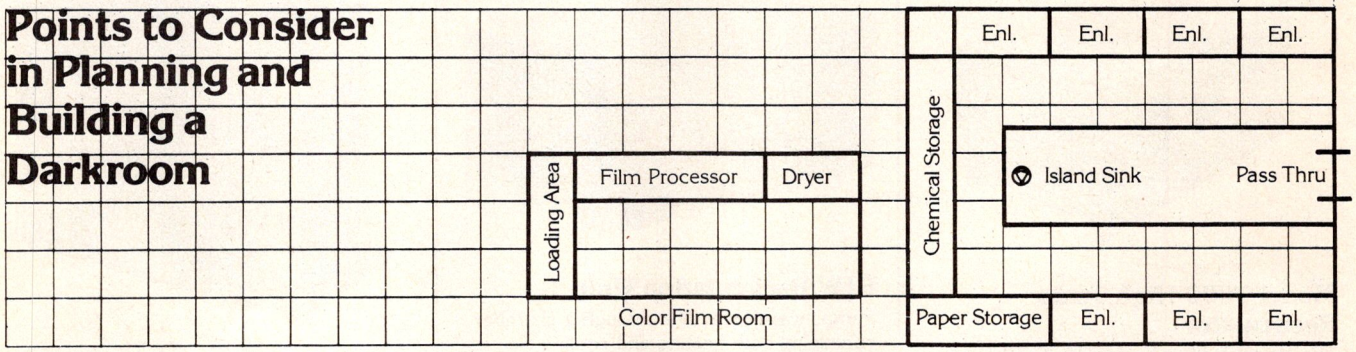
Calumet Chemical Mixer—Transfer Pump

Deep drawn 10-gallon Type 304 photographic stainless steel tank has a powerful non-corrosive pump for recirculating and mixing photographic chemicals. Includes 6' of flexible plastic delivery hose coiled inside tank. Pump circulates at over 6 gallons per minute and is completely sealed against moisture and chemicals. Storage stand is equipped with casters for easy transfer of chemicals from room to room **CP5011** **$369.95**

Prices and specifications subject to change without notice.

Calumet Darkroom Equipment

Points to Consider in Planning and Building a Darkroom



Ventilation

Air should be changed in the darkroom about six times an hour for maximum comfort and efficiency of personnel. The clean air should be pumped into the darkroom so that pressure inside is greater than outside. This causes a seepage through cracks or ventilators and minimizes any danger from dust. Incoming air can be passed through a glass fiber type filter for removal of dust and particles.

Consideration should be given to the installation of an electrostatic air cleaner such as the Calumet Air Scrubber or an air conditioner in the darkroom. The unit type air conditioners make excellent installations, particularly if it is the type having air filters, and can be set on fan operations only. The exhaust ducts, if any, should be so constructed that no light comes in and the pattern of air flow should move so that it goes from dry end of the darkroom into the wet end. Thus, vapors arising from processing solutions can be dissipated immediately.

If print dryers, film dryers and refrigeration units are installed, these units should be vented outside, so as to remove heat and moisture caused by those processes.

Electrical

We recommend that ground fault outlets be installed in your darkroom or other damp area of your studio. If an unsafe electrical condition occurs, the ground fault will automatically turn off electrically operated equipment virtually eliminating the possibility of shock. The enlarger should be on a separate circuit and should be equipped, particularly if color work is being done, with a constant voltage transformer, so as to eliminate fluctuations in line voltage. Equipment circuits should be fused for 30 amps, and it is suggested that if electrical type print dryers are used, a separate circuit be used for it. Wall plugs for plugging in electrical equipment should be double plugs, should be spaced about every five feet around the darkroom, and located about three feet high, so that connecting cords will not lie on the floor.

In placing the switches for the safelight circuit and the white light circuit, place the white light switch about 18" to 24" above the safelight switch, so that the white light will not be turned on inadvertently.

Plumbing

An adequate supply both of hot and cold running water is necessary. Sinks should be equipped with mixing faucets as well as automatic type blending valves such as the Calumet temperature controller. Consideration should be given to an adequate supply of hot water, particularly in those sections where during the winter months the temperature of the tap water goes below 60°. If color processing is done, some of the processes require large quantities of hot water.

The water should be clean and free of impurities, and for this reason it is well to install a water filter, particularly if the water contains sediment or suspended particles.

Sinks and processing tanks requiring a water supply and drain as a general rule should be located along the walls of the darkroom, so that the amount of plumbing is minimized and the drains can be along a common pipe.

Physical and Structural

The general physical requirements of a satisfactory darkroom are as follows: (1) the room must be light-tight; (2) both "safe" and regular incandescent illumination must be provided; (3) sinks, trays, tanks, and washers must be available for holding processing solutions; (4) running hot and cold water is needed; (5) mixing faucets, thermometers, and timers are necessary; (6) a bench top or wall viewing light should be available; (7) storage space of the proper type is necessary for photographic materials and supplementary equipment; (8) adequate bench space for placing printers, enlargers, and other equipment is needed; (9) open bench space or tables are required for work tables; (10) rooms must be large enough to accommodate the maximum size photographic materials to be handled, to enable adequate ventilation to be maintained, and to permit movement by darkroom personnel through adequate aisle space.

Floors should be of such a texture that if solutions are spilled on them, there is no chance of slipping, nor will they become stained. Cement floors are satisfactory. Probably the best type of floor is an ordinary asphalt tile.

Walls and ceilings should be painted a light color. This gives better general illumination under safelights.

Standard kitchen cabinet assemblies, of either wood or metal, make very fine bench and storage cabinet units. The bench tops can be of either linoleum or formica. Either of these is best for dry work benches. Drain boards and wet type benches should have stainless steel tops. A shelf above the sink is very handy for storage of bottles, trays, graduated measures, funnels, and small pieces of darkroom equipment used in and about the sink. A small peg board is useful to hang small items of equipment on, such as film hangers, tongs, etc.

Chemical Mixing and Storage

Ready mixed chemicals should be immediately available when needed, as it is a waste of time to mix chemicals in small quantities as needed. Mixing of the chemicals should take place in a separate chemical mixing room with its own sink and a place for storing dry chemicals. Storage should be in adequate sized tanks, each supplied with a cover and a floating lid to preserve the chemical life and to prevent fumes in the mixing room.

Calumet Deluxe Stainless Steel Sinks

Calumet Deluxe Line Sinks

Corrosion-resistant Calumet stainless steel sinks in an all stainless steel stand offer the highest value obtainable in processing sinks. Not only is stainless steel ideal for holding temperature, but it is also chemically pure and cleans with only a water rinse. It will withstand high impacts without the cracking that plastic sinks are susceptible to.

Calumet deluxe sinks feature special type 316-Photographic Grade stainless steel sink pans, aprons and bases . . . with ¾" thick insulation on all four sides and bottom. This insulated double wall construction prevents condensation, deadens sound and provides for better temperature control of processing. It's no surprise that Calumet stainless steel sinks offer an exceptionally long service life, and are unmatched for total value. Custom sinks quoted on request.

The optional stainless backsplash is fully self-supporting. The 3" wide, 7" high backsplash allows concealed piping or panel mounting of temperature control devices.

Dimensioning: Add 2½ to inside dimensions for outside area required. Add 3" additional to outside depth for sinks with backsplash. Overall height of all sinks is 36".

Deluxe Sink

Shown with optional backsplash and stainless steel shelf.

SALE

Save 10% on Shelves or Backsplash when ordered with any Calumet Deluxe or E.S. Sink.

Fast Delivery Program

Sinks highlighted below are normally in stock for shipment within 14 days. Other sizes are 6 to 8 week delivery, sinks are not subject to the standard Calumet return policy.

Note: 1½" IPS Drain in left rear.

Sink Inside Dimensions	Sink Model No.	Sink Price	Backsplash Model No.	Backsplash Price	Shelf Model No.	Shelf Price	Sink Mat Model No.	Sink Mat Price
23½" x 48" x 4⅝"	AY0109	$ 770.00	AY0141	$147.00	AY0209	$210.00	AY0243	$ 81.00
23½" x 60" x 4⅝"	AY0111	$ 810.00	AY0142	$158.00	AY0211	$225.00	AY0244	$101.00
23½" x 72" x 4⅝"	AY0113	$ 870.00	AY0143	$167.00	AY0213	$250.00	AY0245	$121.00
23½" x 84" x 4⅝"	AY0114	$ 925.00	AY0144	$175.00	AY0214	$267.00	AY0246	$141.00
23½" x 96" x 4⅝"	AY0115	$ 995.00	AY0145	$192.00	AY0215	$283.00	AY0247	$161.00
23½" x 108" x 4⅝"	AY0116	$1025.00	AY0146	$210.00	AY0216	$308.00	AY0248	$180.00
23½" x 36" x 9¼"	AY0117	$ 765.00	AY0140	$135.00	AY0208	$190.00	AY0242	$ 66.00
23½" x 48" x 9¼"	AY0118	$ 870.00	AY0141	$147.00	AY0209	$210.00	AY0243	$ 81.00
23½" x 60" x 9¼"	AY0119	$ 945.00	AY0142	$158.00	AY0211	$225.00	AY0244	$101.00
23½" x 72" x 9¼"	AY0120	$1040.00	AY0143	$167.00	AY0213	$250.00	AY0245	$121.00
23½" x 84" x 9¼"	AY0121	$1100.00	AY0144	$175.00	AY0214	$267.00	AY0246	$141.00
30" x 60" x 7"	AY0125	$ 965.00	AY0142	$158.00	AY0225	$258.00	AY0250	$130.00
30" x 72" x 7"	AY0126	$1060.00	AY0143	$167.00	AY0226	$275.00	AY0251	$160.00
30" x 84" x 7"	AY0127	$1130.00	AY0144	$175.00	AY0227	$308.00	AY0252	$180.00
30" x 96" x 7"	AY0128	$1220.00	AY0145	$192.00	AY0228	$325.00	AY0253	$210.00
30" x 108" x 7"	AY0129	$1310.00	AY0146	$210.00	AY0229	$350.00	AY0254	$240.00
30" x 118" x 7"	AY0130	$1385.00	AY0147	$228.00	AY0230	$417.00	AY0255	$260.00
34" x 96" x 4⅝"	AY0133	$1220.00	AY0145	$192.00	AY0233	$358.00	AY0258	$255.00
34" x 108" x 4⅝"	AY0134	$1310.00	AY0146	$210.00	AY0234	$383.00	AY0259	$293.00
34" x 118" x 4⅝"	AY0135	$1385.00	AY0147	$228.00	AY0235	$467.00	AY0260	$330.00

Sinks are shipped via motor freight collect.

Leg levelers included with sinks

Calumet TRP Sinks

Traditional Calumet Type 316 stainless steel construction combined with a factory installed temperature control system. Ideal for maintaining optimum temperatures.

The Calumet TRP Sink

The Calumet TRP sink contains a factory plumbed thermostatic valve, vacuum breakers, internal copper line, flow control valves and outlets in a special 11" high x 5" deep stainless steel backsplash. The TRP is a complete unit, ready to operate with minimum set-up time. Features such as a spray hose, water jet inlet in sink bottom and water outlets with garden hose type threads make this a truly functional sink. Requires some assembly and plumbing connections.

TPR Sink

(Shown above with optional sink mat and shelf.)

FEATURES:

- Panel mounted, factory plumbed thermostatic valve. 2-7 GPM (Model WR-2) with thermometer, quick acting ¼ turn volume controls, vacuum breakers, and water inlets with strainers, check valves and service shut offs.
- Two auxiliary water outlets on tempered water line with garden hose type threads.
- Water jet outlet in sink bottom to place an even fan of tempered water across sink bottom.
- Water spray unit on tempered water line, with additional shut off valve to reduce pressure to the spray head when not in use for longer spray head life.
- Drain is located left rear.

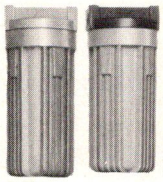
Type 316 Stainless Steel Construction

Calumet TRP sinks feature the same superb construction as our Deluxe-line Sinks. The TRP backsplash is 11" high and 5" wide to allow for concealed plumbing. Connections are ½" hot and ½" cold water supplies plus 1½" IPS drain in rear left (Front right also available at no extra charge). Optional type 316 stainless steel shelves are available.

Optional Plumbing Variations

Pressure Control Mixing Valve

For upgrade of thermostatic valve to our two stage pressure control model WRP-2. (see page 136 for description)
AY0500 . . . . . $75.00



Water Filter Package

A set of hot and cold water filters with stainless steel brackets welded onto the bottom of the sink, complete with shutoff valves for ease in changing filter cartridges. See page 135 for FCC and FCH 10 filter and cartridge specifications. (Requires assembly **AY1000 . . . . . $210.00**

Old Cat. No.	Size (Inches)	Cat. No.	Sink Price	Shelf Cat. No.	Shelf Price	Sink Mat No.	Sink Mat Price
TRP-2348	23½ x 48 x 4⅝	AY0309	$1830.00	AY0209	$210.00	AY0243	$81.00
TRP-2372	23½ x 72 x 4⅝	AY0313	$1940.00	AY0213	$250.00	AY0245	$121.00
TRP-23108	23½ x 108 x 4⅝	AY0316	$2150.00	AY0216	$308.00	AY0248	$180.00
TRP-2436	23½ x 36 x 9¼	AY0317	$1820.00	AY0208	$190.00	AY0242	$66.00
TRP-2448	23½ x 48 x 9¼	AY0318	$1920.00	AY0209	$210.00	AY0243	$81.00
TRP-2460	23½ x 60 x 9¼	AY0319	$1995.00	AY0211	$225.00	AY0244	$101.00
TRP-3072	30 x 72 x 7	AY0326	$2140.00	AY0226	$275.00	AY0251	$160.00
TRP-3084	30 x 84 x 7	AY0327	$2220.00	AY0227	$308.00	AY0252	$180.00
TRP-3496	34 x 96 x 4⅝	AY0333	$2310.00	AY0233	$358.00	AY0258	$255.00
TRP-34120	34 x 118 x 4⅝	AY0335	$2500.00	AY0235	$467.00	AY0260	$330.00

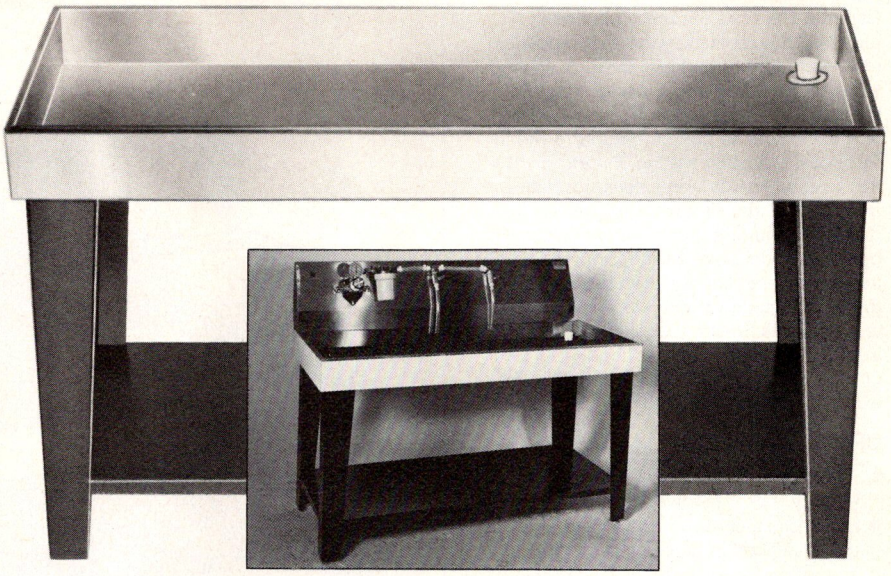
TRP Sinks can be ordered for any deluxe Calumet sink size. Ask for price quotation.

Calumet Economy Sinks

Calumet Econosinks

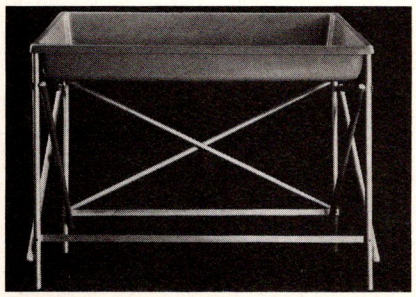
Calumet Econosinks are manufactured with type 316 stainless steel. These sinks are fully heli-arc welded and insulated. They are easy to clean and excellent for high temperature processes. Includes 1½" PVC drain in rear right and a removable stand pipe to maintain three inch water level. Optional Floorstand made with zinc plated steel, coated with oven baked black enamel. Includes adjustable leveling feet and storage shelf. 36" high. Optional backsplash is 6" high, type 316 stainless steel, detachable. Shipped KD.

New plumbed 12" backsplash is 316 Stainless with ½" wood backing. Complete with mixing valve, thermometer, water filter, two water outlets, two check valves, and two shutoffs. Some assembly required. Reuseable filter elements (AY0439) available on page 135.



Econosinks are also available in 7" depths. Call for details.

Sink Inside Dimensions	Econo Sink Model No.	Econo Sink Price	Floor Stand W/Shelf Model No.	Floor Stand W/Shelf Price	Backsplash Model No.	Backsplash Price	Plumbed Backsplash Model No.	Plumbed Backsplash Price
24" x 48" x 5"	AY0401	$320.00	AY0411	$149.00	AY0421	$102.00	AY0426	$502.00
24" x 60" x 5"	AY0402	$345.00	AY0412	$160.00	AY0422	$112.00	AY0427	$517.00
24" x 72" x 5"	AY0403	$400.00	AY0413	$170.00	AY0423	$140.00	AY0428	$550.00
24" x 84" x 5"	AY0410	$460.00	AY0415	$185.00	AY0425	$150.00	AY0429	$570.00

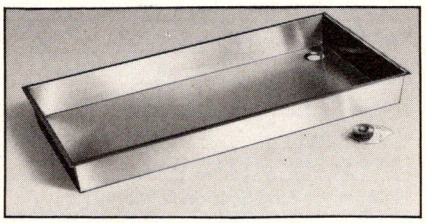


"The Sink"

"The Sink" is an ideal sink if you are on a budget, or a great backup sink in professional darkrooms. The front wall is 5" high and the backsplash 12" high with a 4" top shelf. Available in two sizes, with raised rib bottom, and center-rear drain. Light gray in color.
ABS material.

The Sink 72", 72" x 25" I.D.
PH7810 ..... **$189.95**
72" Metal Sink Stand **PH7815**... **$109.95**
The Sink 48", 46" x 25" I.D.
PH7817 ..... **$169.95**
48" Metal Sink Stand **PH7818**.... **$99.95**

Note: Some assembly and plumbing connections required.



304 Sink Pan

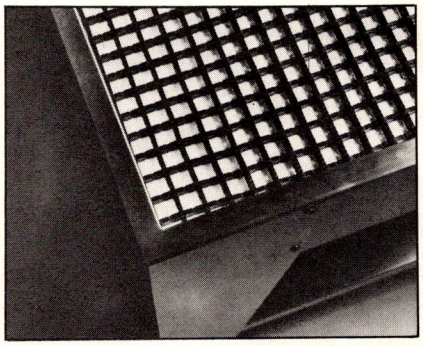
The least expensive, workable, stainless steel sink pan available. Made with type 304 restaurant grade stainless steel. It requires more care and cleaning than type 316 photographic grade stainless steel, but with proper maintenance, it will give good service. Includes: 1½" I.P.S. PVC drain,* not installed.
*Drain available in right rear only.

Sink Pan 24" x 48" x 5"
AY0405 ..... **$203.00**
Sink Pan 24" x 60" x 5"
AY0407 ..... **$223.00**
Sink Pan 24" x 84" x 5"
AY0406 ..... **$260.00**
Sink Pan 24" x 96" x 5"
AY0408 ..... **$280.00**

Stainless Steel Standpipes

Used to convert a sink to a water jacket. Installed in the drain, the standpipe will maintain a constant water level for controlling the temperature of processing solutions.

3" Water Level **AY4110** **$16.00**
5" Water Level **AY4112** **$20.00**
7" Water Level **AY4114** **$25.00**



Calumet Sink Mat

The Calumet Multi-Purpose Sink Mat is designed to support trays and tanks for better temperature control, and sound deadening for a quiet safer work surface. The mat is fabricated of soft ribbed PVC which is fully resistant to photographic chemicals. The lattice construction supports small items conveniently and features special drainage slots.

Sinkmat 23½" x 24"
AY0261A **$42.00**
Sinkmat 23½" x 36"
AY0261B **$63.00**
Sinkmat 29" x 24"
AY0262A **$55.00**
Sinkmat 29" x 36"
AY0262B **$82.50**

Note: Sinkmats are stocked in 2 ft. (A) and 3 ft. (B) sections for easier cleaning. If you require a mat 5 ft. long, order:
1 x **AY0261A**–2ft.
1 x **AY0261B**– 3 ft.
5 ft.

Calumet GA Sinks

Calumet GA sinks feature an internally plumbed thermostatic valve that regulates temperature automatically through flowing water into the tray and holding compartment. The thermostatic motor mixes hot and cold water to hold temperature within ½°F. of the desired setting. During most of the year, when city water does not rise above 68°F., the sink may be used as furnished without a supplementary chiller. The optional Model 50W chiller connects to the incoming water line for proper operation of the thermostatic valve in warm summer temperatures. Recirculation fittings are built-in for connection to the optional 7000 recirculator or 61-W recirculation machine for extreme temperature areas.

SPECIFICATIONS:

- Sink pan, bracing, stand and backsplash of Type 316 photographic stainless steel.
- Stainless steel dump trough with individual 1½" IPS drain across rear of sink.
- Tray compartment overflows into dump trough through a choice of 3 overflow heights. 1½" IPS drain in left rear.
- Separate washing compartment with overflow through dump trough. 1½" IPS drain with plug.
- Factory installed 7GPM thermostatic valve.
- Tempered water line with individual flow control valves connected to spray inlets in tray compartment and washer, and two auxiliary outlets on backsplash.
- Internal plumbing of copper with non-pressure feeders to spray inlets.
- Built-in vacuum breakers on each outlet.
- Internal fittings provided for optional recirculation unit.
- ¾" of insulating material on sink bottom and sides.
- Drain is located left rear.

Type 316 stainless steel temperature control sinks with built-in washing compartment and full dump trough.

Shown with optional stainless steel shelf. Some assembly and plumbing connections required.

GA-162 Floor space 86½" x 37½" for 3 size 16" x 20" trays	AY0300	$2500.00
Stainless Steel Shelf for GA-162	AY0227	$308.00
Sinkmat for Tray Section GA-162 Sink	AY0263	$125.00
Inspection Viewer for 16" x 20" trays	AY0304	$350.00
GA-204 Floor space 98½" x 41½" for 3 size 20" x 24" trays	AY0301	$2700.00
Stainless Steel Shelf for GA-204	AY0233	$358.00
Sinkmat for Tray Section GA-204 Sink	AY0264	$180.00
Inspection Viewer for 20" x 24" trays	AY0305	$380.00

Calumet Stainless Steel Trays

Manufactured using type 316 photographic grade stainless steel. After manufacture, these trays are polished and passivated for easy cleaning and years of quality performance.

Tray Size	Material Size	Cat. No.	Price
17 x 21 x 3	16 x 20	AY7020	$72.95
17 x 21 x 6	16 x 20	AY7060	$93.95
21 x 25 x 3	20 x 24	AY7030	$96.95
21 x 25 x 6	20 x 24	AY7065	$134.95

See page 122 for additional tray sizes.

Stainless Steel Standpipe

Standpipe will maintain a constant water level in sink compartment for controlling the temperature of processing solutions.

3" Water Level **AY4110** **$16.00**

5" Water Level **AY4112** **$20.00**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

Model 7000 High-Temp Recirculator

Features stainless steel exterior housing, seal-less magnetic drive pump and 1000 watt heating element housed in a P.V.C. tank. Temperature range 75° to 115°F with ± ¼°F accuracy. Weight: 15 pounds. Dimensions: 6¾" x 8" x 15½".

CP5025 ..... **$374.95**

For additional information see page 137.

Sinks are shipped via motor freight collect.

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

50W Water Chiller

For temperature control devices and processing sinks when tap water rises above processing temperature in the summer. The Calumet water chiller will chill the incoming water to 40°F. The hermetically sealed compressor has a 5 year warranty and is lubricated for life. By-pass valves can be used to reduce energy costs in summer and winter. The water cooled condenser requires a drain. **CP9100** **$769.95**

For additional information see page 137.

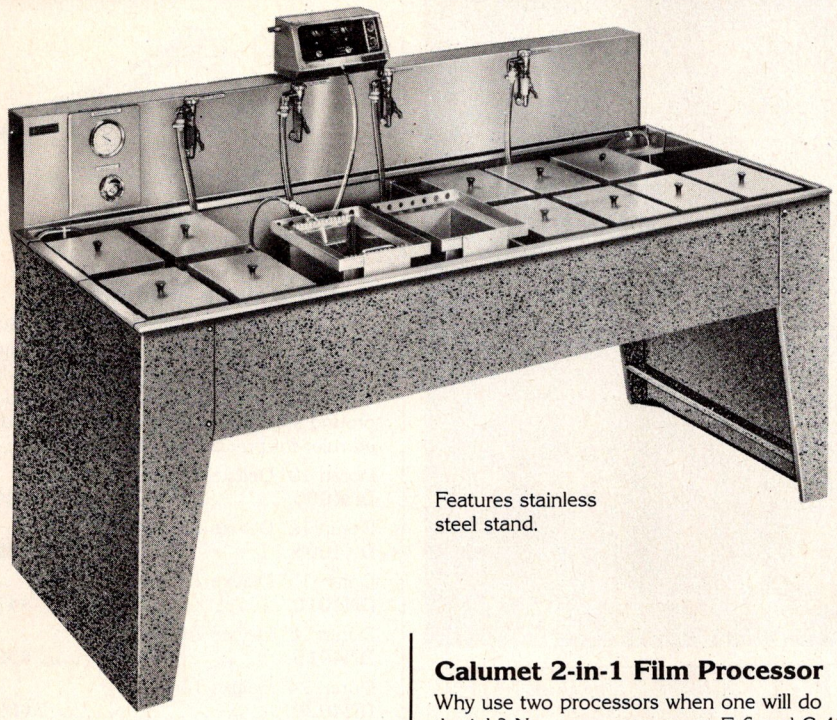
61W Recirculation Unit

Pumps water from sink through a chamber containing both heating and cooling elements. The water is brought to the predetermined temperature and regulated by a precise thermostat to ±½°F. Tempered water is then pumped back to the sink to maintain a constant processing temperature. Temperature settings adjustable from 50°F to 85°F. Air cooled compressor.

CP9110 ..... **$1149.95**

For additional information see page 137.

Calumet Color Film Processors



Features stainless steel stand.

Calumet 8 x 10 Color Film Processor

- E-6 Process.
- 2 or 3½ Gallons.
- 7-chemical tanks and covers.
- 2-quick dumpwash tanks.
- Accurate water temperature control.
- Automatic gas burst agitation timer.
- Air inlet for direct connection to your air and gas supply.
- Construction: Type 316 stainless steel.
- All internal plumbing factory installed.
- Nitrogen/Air Burst Agitation Timer with electrical change over switch, air pressure reducing valve with guage and bypass valve.
- Factory installed recirculation fittings.
- Tempered water inlet control valve with stainless steel outlet tube for filling and cleaning water jacket and tanks.

The Calumet "traveling" plenum attached to the rack and the electrical change over switch (from gas to air) feature is a simple system. No more unplugging the gas line and plugging into the air, simply flip the switch for automatic choice.

SPECIFICATIONS:

- Capacities: 3½ gal.—30-35mm or 18-120/620 reels, or 13-8 x 10 or 19-4 x 5 or 5 x 7 hangers.
- Floor Space: 3½ gal.—25"W x 99"L 2 gal.—25"W x 63"L
- Electrical: 115 V.A.C. 60 Hz. 05 amps
- Shipping Wt: 3½ gal.—475 lbs.

3½ Gal. Capacity
AY5066 . . . . . **$4495.00**
2 Gal. Capacity
AY5076 . . . . . **$3995.00**

Calumet 2-in-1 Film Processor

Why use two processors when one will do the job? Now you can process E-6 and C-41 in the same processor. This efficient, convenient-to-use Calumet processor is ideal for labs where space is at a premium.

This money-saving processing system offers a relatively small initial investment, and allows you to maintain quality control for all your E-6 and C-41 processing.

FEATURES:

- C-41 Side:
  3-Chemical Tanks and Covers
  1-Bleach Tank and Cover
  1-Quick Dump Wash Tank
- E-6 Side:
  7-Chemical Tanks and Covers
  1-Quick Dump Wash Tank

Control Panel Components:

- Water Temperature Valve and Dial Thermometer for accurate water temperature control.
- Nitrogen/Air Burst Agitation Timer with electrical change over switch, air pressure reducing valve with guage and bypass valve.
- Water Control Valves For Wash Tanks.
- Construction of fully insulated, type 316 stainless steel with stainless steel stand.
- Factory installed recirculation fittings**
- Tempered water inlet control valves with stainless steel outlet tube for filling and cleaning water jacket and tanks
- All the above is factory installed

SPECIFICATIONS:

- Capacities: 3½ gal.—30-35mm or 18-120/620 reels, or 13-8 x 10 or 19-4 x 5 or 5 x 7 hangers.
- Floor Space: 3½-gal.—35"W x 87"L
- Electrical: 115 V.A.C. 60 Hz 0.5 amps
- Shipping wt.: 3½ gal.—500 lbs.

3½ Gallon **AY5006** **$5069.00**

Calumet Multi-Use Processor

For Cut Sheet or Roll Film C-41 or any 4-Step Process. 2 or 3½ Gallon 8 x 10

FEATURES

- 4-8 x 10 chemical tanks and covers with one quick dump wash
- Automatic gas burst agitation system
- Water temperature regulator and dial thermometer
- All components and internal plumbing installed
- Construction: Type 316 stainless steel with stainless steel stand
- Factory installed recirculation fittings
- Tempered water inlet control valve with stainless steel outlet tube for filling and cleaning water jacket and tanks

SPECIFICATIONS:

- 3½ gal.—30-35mm or 18-120/620 reels, or 13-8 x 10 or 19-4 x 5 or 5 x 7 hangers.
- Electrical: 115 VAC, 60Hz, .05 amps
- Shipping weight: 3½ gal.—325 lbs.
- Floor Space: 3½ gal.—25" x 51"L

3½ Gallon **AY5046** **$2900.00**

Optional Air Adaption

In addition to the above standard equipment, the gas and air adaption includes 1 air electrical solenoid, electrical change over switch (gas to air) and air pressure reducing valve factory installed, with gauge.

3½ Gallon **AY5026** **$2925.00**

Processor Accessories

Hanger Racks

All Calumet Stainless Steel batch type film processors require a film rack with a built-in gas plenum. Your volume and film type will determine the quantity and type of hanger and/or reel racks needed. All Calumet film racks are built with type 316 stainless steel with PVC gas plenums and 6 ft. of vinyl hose with quick connect fitting to gas timer.

Hanger Racks with Plenums

2 gal. 8 x 10 (7 slots)
AY5525 . . . . . **$102.00**
3½ gal. 8 x 10 (13 slots)
AY5515 . . . . . **$116.00**

Reel Racks with Plenums

2 gal. 8 x 10 (15-35mm)
AY5555 . . . . . **$149.95**
3½ gal. 8 x10 (30-35mm)
AY5545 . . . . . **$169.95**
3½ gal. 8 x 10 (9-220mm)
AY5565 . . . . . **$179.95**

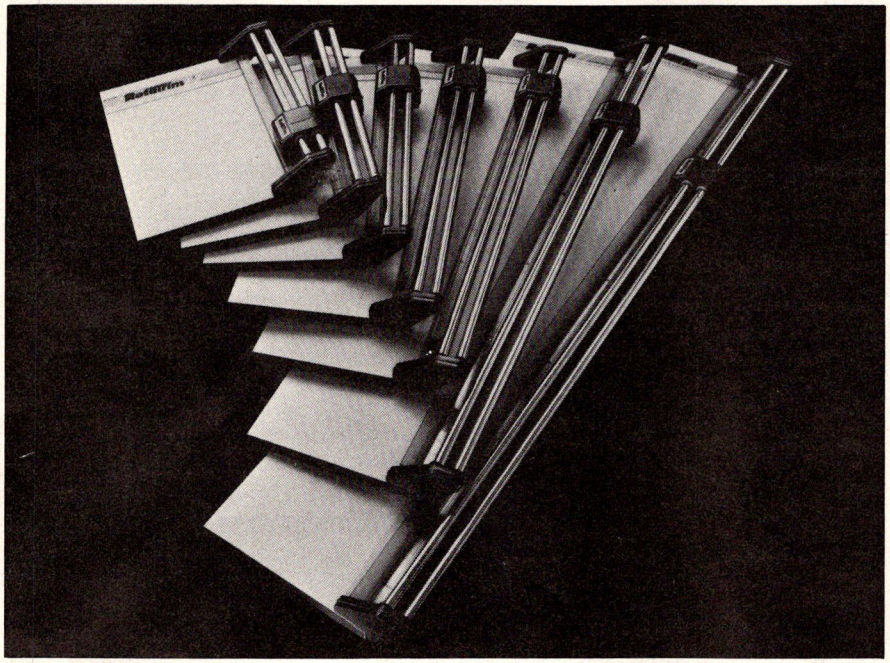
See pages 126 and 127 for hangers and reels.

Floating Lids

Especially recommended for developer tanks to slow down oxidation.

Floating Lid/2 gal. tanks
CP0366 . . . . . **$27.00**
Floating Lid/3½ gal. tanks
CP0353 . . . . . **$30.00**

Precision Trimmers



Rotatrim Professional Rotary Trimmers

This classic English professional rotary trimmer features a safe, totally enclosed cutting wheel mounted on nylon bearings, long life, self-sharpening tungsten steel rotary cutting blade, double-rail carriage track for optimum cutting accuracy, clear plastic clamp bar with loading lip and engraved trim guides which hold material firmly and permit convenient and exact alignment, and a full-laminated, non-skid, 12" wide, 1" thick baseboard. Double the cutting capacity of most other trimmers, Rotatrim Rotary Trimmers will cut a wide range of material —from tissue to ⅛" untempered Masonite (except 42" model).

Rotatrim M12 12" cut, dimensions: 17½" x 15", weight 10 lbs. **SO8012** **$114.95**

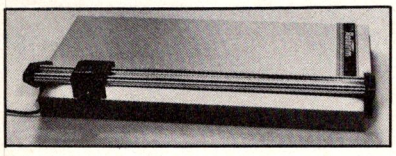
Rotatrim M15 15" cut, dimensions: 21½" x 15", weight: 11.5 lbs.
SO8015 . . . . . **$127.95**

Rotatrim M17 17.5" cut, dimensions: 24" x 15", weight 12 lbs. **SO8017** **$139.95**

Rotatrim M24 24" cut, dimensions: 30½" x 15", weight: 15 lbs. **SO8024** **$159.95**

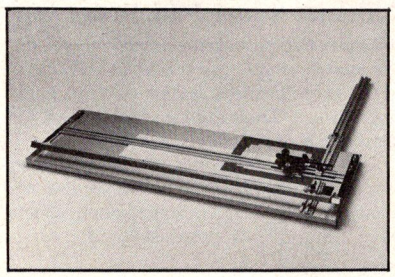
Rotatrim M30 30" cut, dimensions: 36½" x 15", weight 17.5 lbs.
SO8030 . . . . . **$219.95**

Rotatrim M42 42" cut, dimensions: 48½" x 15", weight: 22 lbs. **SO8042** **$299.95**



Edge Light Base

The Edge Light Base provides a 2" wide, full-length flourescent light strip along the cutting edge for precision trimming of transparency and negative materials
SO8050 . . . . . **$99.95**



Kleen Cut Arrow Mount Cutter

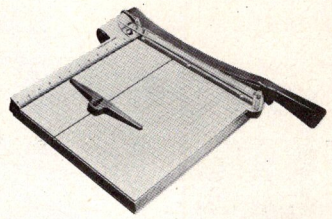
This precision straight line mount cutter is amazingly accurate and offers dependable repeatability with every cut. It's extruded aluminum base will not warp or bend and is gridded for easy and accurate alignment. Monoblock Cutter Head cuts bevel and vertical on the same track with adjustable blade depth. Comes complete with production stops which are calibrated for micro-adjustments and produce no undercuts or overcuts. Convenient twist lift and hold mechanism allows for two handed material loading. Will cut prints, mounts and polyboard up to 10mm thick.

34" Model
SO8055 . . . . . **$559.95**

44" Model
SO8060 . . . . . **$619.95**

66" Model
SO8070 . . . . . **$699.95**

Replacement Blades for Kleen Cut Arrow-pkg of 100
SO8070 . . . . . **$10.95**



Doran Deluxe Trimmers

One piece molded Styrene body won't warp or crack. Features adjustable cutting guide, transparent cutting guard, balanced blade arm which won't fall shut, and hardened, ground steel blade. Ruled table and graduated ruler for precise, square cutting.

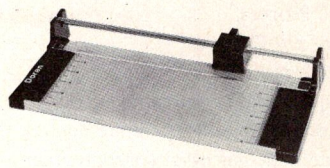
Doran 10" Deluxe Trimmer.
DN4000 . . . . . **$24.95**

Doran 12" Deluxe Trimmer
DN4005 . . . . . **$29.95**

Doran 15" Deluxe Trimmer
DN4010 . . . . . **$47.95**

Doran 18" Deluxe Trimmer
DN4015 . . . . . **$59.95**

Doran 24" Deluxe Trimmer
DN4020 . . . . . **$89.95**

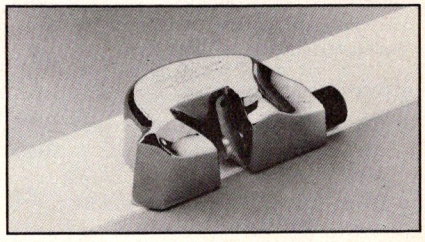


Doran Rotary Trimmers

Compact design and economical price. Features completely shielded; self-sharpening steel cutting blade, steel working surface with two 90 deg. calibrated edge supports, and transparent clamping plate for careful alignment and firm placement of material.

Doran 12" Rotary Trimmer - with 12½" cutting length. Dimensions: 16½" × 7½" × 2". **DN4050** **$27.95**

Doran 18" Rotary Trimmer - with 18" cutting length. Dimensions: 22¼" × 7½" × 2".
DN4060 . . . . . **$47.95**



Dexter Mat Cutter

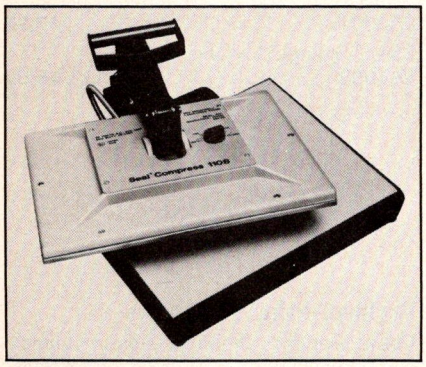
For cutting straight or bevel edges. Adjustable angle or depth.

Cutter w/5 blades **KT0300** **$13.95**
Set of 3 blades **KT0301** **$1.95**

Mounting Equipment & Supplies

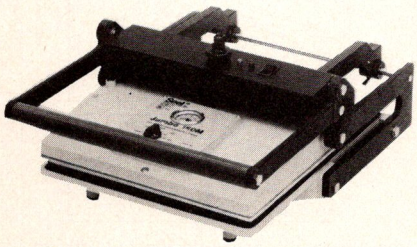
Seal Dry Mounting Presses

Feature floating platens, steel cantilevers and fast pressure adjustment of materials to 1" thick. For dry mounting, texturing and laminating. UL Listed.



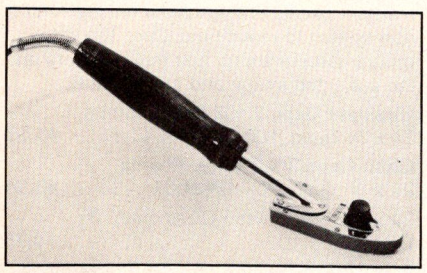
Seal Swing Arm 110S

This moderately priced "starter press" features a 12" x 15" platen which conveniently swings out of the way for easy access to work area. Mounts work sectionally up to 24" by any length. 10 amp, 850 watts, and weighs 38 lbs. **SA8811** **$259.95**



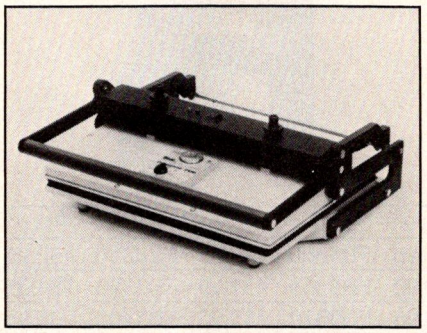
Seal Jumbo 160M

Good, affordable intermediate sized press. Platen measures 18 ½" x 15 ½". Handles larger work in sections up to 36" wide by any length. Contains built-in thermometer. Consumes 8.7 amps, 1000 watt heater, and weighs 62 lbs. **SA8816** **$429.95**



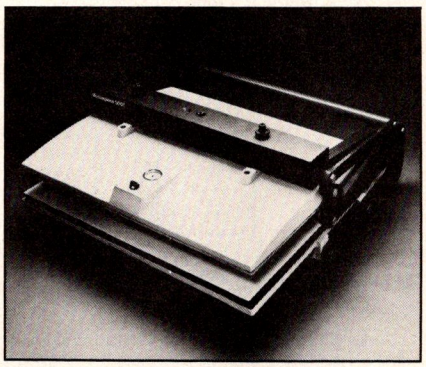
Sealecter Tacking Iron

A must for professional, precision mounting. Tacks artwork into position so it won't shift in the press. Equipped with thermostatic control and Teflon coated shoe. 115 volts. UL Listed. **SA8900** **$29.95**



Seal Commercial 210M

Smaller version of the Masterpiece, this is a good general purpose press for daily usage. Features an 18 ½" x 23" platen which handles work in sections up to 36" wide by any length. Consumes 11.3 amps, 1300 watt heater with temperature meter, and weighs 80 lbs. **SA8821** **$559.95**



Seal Masterpiece 500T

Features a large 26" x 34" platen which handles work in sections up to 52" by any length. Mounts large posters and prints easily. Consumes 15 amps, 1700 watt heater with thermometer, and weighs 265 lbs. **SA8850** **$1229.95**

Seal Release Paper

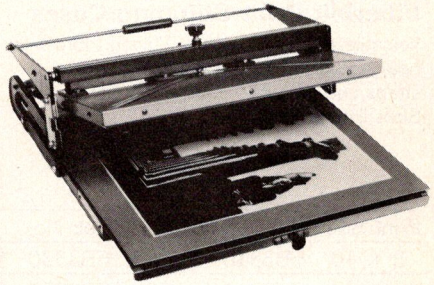
Special silicone treated paper that is essential to protecting your platen and your work. Can be used over and over again.

Roll 26" x 5 yds. **SA8790** **$12.95**
Roll 26" x 20 yds. **SA8791** **$32.95**

Delta Spotting Brushes

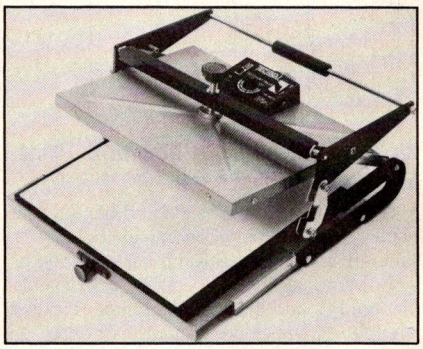
Made of finest grade pure red sable in seamless nickel ferrules. Polished white handles with black tips.

5/0 (00000) **BR8820** **$3.50**
4/0 (0000) **BR8821** **$3.95**
3/0 (000) **BR8822** **$4.50**
2/0 (00) **BR8823** **$4.95**
0 **BR8824** **$4.95**
1 **BR8825** **$5.50**
2 **BR8826** **$5.95**
3 **BR8827** **$6.25**



New Bogen Technal 560 Dry Mount Press

Features oversized yoke and new sliding bed for easier mount positioning. 18½" x 22½" platen. Mounts on 16" x 20" or 20" x 24" boards. **BG7121** **$499.95**



New Bogen Technal 510 Dry Mount Press

Mounts 11" x 14" prints on 16" x 20" board in one operation. Open on 3 sides with 12" x 15" heating platen, provides thermostatically controlled temperatures from 180° to 325°F. **BG7110** **$239.95**

Saunders Archival Dry Mounting Tissue

Saunders archival dry mounting tissue is an acid and sulphur free bleached wood based tissue, coated on both sides with an archivally approved adhesive. The adhesive name is Lamatec and has been used for many years in Europe, for archival mounting purposes in the British Museum and all major European archival organizations.

8 x 10-100 Sheets **SO5510** **$14.95**
11 x 14-100 Sheets **SO5514** **$27.95**
16 x 20-100 Sheets **SO5520** **$59.95**
20 x 24-100 Sheets **SO5524** **$89.95**

Seal Fusion 4000 Dry Mount Adhesive.

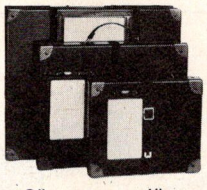
One step permanent dry mounting adhesive for mounting to all boards and materials. Neutral pH balance protects prints. Packs of 100 sheets:

8" x 10" **SA8770** **$16.95**
11" x 14" **SA8771** **$29.95**
16" x 20" **SA8773** **$59.95**

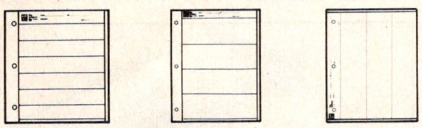
Print Cases - Slide Mounts - Neg Files

Fiberbilt Print Shipping Cases

Versatile shipping cases of Vulcan Fibre with heavy-gauge steel corners, extra-strong straps and patented Spring Clip Cardboard. Sizes listed below.



	1¼"		2"		3"		4"	
Print Size	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
8 × 10	FB3310	$23.95	FB3330	$28.95	FB3360	$29.95	FB3390	$32.95
11 × 14	FB3210	$25.95	FB3335	$29.95	FB3365	$31.95	FB3395	$34.95
14 × 17	FB3315	$27.95	FB3340	$29.95	FB3370	$33.95	FB3400	$36.95
16 × 20	FB3212	$27.95	FB3345	$32.95	FB3375	$33.95	FB3405	$37.95
20 × 24	FB3320	$38.95	FB3350	$42.95	FB3380	$46.95	FB3410	$49.95
24 × 30	FB3325	$44.95	FB3355	$47.95	FB3385	$51.95	FB3415	$56.95



Vue-All Negative, Slide and Print Storage System

Vue-All "Polyethylene" slide and negative file pages are the most economical choice when it comes to archival quality storage of your photographic images. The acid level is neutral PH. and they do not contain Plasticizers. Vue-All pages are thinner than other similar storage pages, which means they are more compact and can be easily folded. Vue-All's thin, soft pages are also less likely to scratch your negatives when inserting them. Vue-All pages have no 'frosted back', which cuts down on light transmittal and changes color values.

Vue All Negative Storage Pages

35mm Format—36 exp.
7 strips/5 frames. pkg. 25
VA1011 ..... **$5.95**

7 strips/5 frames. pkg. 100
VA1012 ..... **$22.95**

*6 strips/6 frames. pkg. 25
VA1001 ..... **$5.95**

*6 strips/6 frames. pkg. 100
VA1002 ..... **$22.95**

120 cm Format—2½" × 2¼"
*3 strips/4 frames. pkg. 25
VA1005 ..... **$5.95**

*3 strips/4 frames. pkg. 100
VA1006 ..... **$22.95**

4 strips/3 frames. pkg. 25
VA1003 ..... **$5.95**

4 strips/3 frames. pkg 100
VA1004 ..... **$22.95**

120 cm Format—6 × 7 cm
4 strips/3 frame 6×7 cm. pkg. 25
VA1007 ..... **$7.95**

4 strips/3 frame 6 × 7 cm. pkg. 100
VA1008 ..... **$27.95**

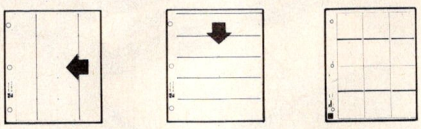
120 cm Format—6 × 4.5 cm
4 strips/4 frames 6 × 4.5 cm. pkg. 25
VA1009 ..... **$6.95**

4 strips/4 frames 6 × 4.5 cm. pkg. 100
VA1010 ..... **$23.95**

Large Format

*4" × 5" — holds 4 - 4 × 5 negatives or transparencies. pkg. 100 **VA2008** . **$24.95**

*8 × 10" — holds 1 - 8 × 10 negative or transparency. pkg. 100 **VA2009** . . **$18.95**



Vue-All Mounted Slide Pages

35mm
Side loaded—holds 20 2 × 2 mounted slides. pkg. 25 **VA2001** **$6.95**

Side loaded—holds 20 2 × 2 mounted slides. pkg. 100 **VA2002** **$25.95**

Top loaded—holds 20 2 × 2 mounted slides. pkg. 25 **VA2003** **$7.95**

Top loaded—holds 20 2 × 2 mounted slides. pkg. 100 **VA2004** **$29.95**

Heavy duty 2 × 2 slide page. Top loaded pkg. 50 **VA2005** **$14.95**

2¼ × 2¼ Mounted Slide Pages
Top loaded—holds 12 2¼ × 2¼ mounted slides. pkg. 100 **VA2006** **$29.95**

Heavy duty 2¼ × 2¼ mounted slide pages. Top loaded. pkg. 25 **VA2007**..... **$9.50**

Roll-A-File 1M Rolls

35mm single strip roll.
VA3001 ..... **$21.95**

120 cm single strip roll
VA3002 ..... **$23.95**

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

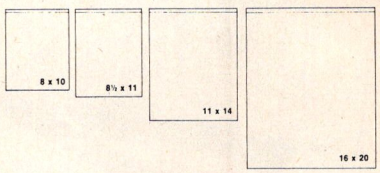
(In Illinois, call: 1-800-225-8601)

Vue-All Safe-T-Binder

Made of sturdy archival Polyurethane—safe for photographic materials. Unique 'box' construction with tight seal makes it virtually dust proof. Comes with or without built-in ring binders.

Safe-T-Binder with 1" metal rings—black.
VA4001 ..... **$7.95**

Safe-T-Storage Box—black.
VA4002 ..... **$6.95**

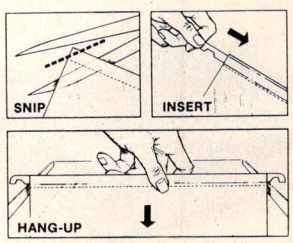


Archival Print Protectors

Convenient and safe way to store mounted and unmounted prints or large format transparencies and negatives.

8 × 10 — pkg. 500 **VA5002**..... **$44.95**
8½ × 11 — pkg. 500 **VA5003**... **$51.95**
11 × 14 — pkg. 200 **VA5004**.... **$31.95**
16 × 20 — pkg. 200 **VA5005**.... **$59.95**
20 × 24 — pkg. 200 **VA5006**.... **$89.95**

Vue-All Suspended Filing System.



Vue-All storage pages designated with an asterick (*) may be conveniently stored suspended in filing cabinets with these Vue-All spines. These spines are easily inserted into each page.

Vue-All Spines — pkg. 100
VA0900 ..... **$29.95**

Gepe Slide Mounts

Gepe slide mounts are constructed of heat resistant plastic and feature a unique ventilation system to reduce buckling. The glass mount assures sharp, fuzz free boarders on the projected image and prevent dust.

Glassless Gepe 2 x 2 Slide Mounts
24 x 36 quan. 100 **GM7001** **$5.95**

Glass Gepe 2 x 2 Slide Mounts
24 x 36 quan. 20 **GM6001** **$3.95**

24 x 36 Anti Newton Glass quan. 20
GM6002..... **$4.75**

24 x 36 Anti Newton glass and registration pins **GM6006**..... **$4.95**

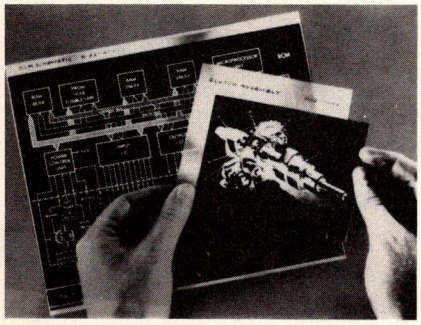
40 x 40 Super size with Anti Newton glass quan. 20 **GM6901**..... **$5.50**

2¼ x 2¼ Anti Newton glass quan. 20
GM2601..... **$8.95**

2¼ x 2¾ Anti Newton glass quan. 10
GM2701..... **$10.75**

Gepe Binding Press **GM8001** **$24.95**

Archival Filing Systems



Mylar® Sleeves for Archival Storage

Mylar® sleeves provide the safest means of negative and transparency storage. Mylar® (polyester), which is chemically inert and contains no plasticizers, is the only film type product approved by the U.S. Bureau of Standards for permanent storage of sensitized products.

Our sleeves are made with clear Mylar® on the face and matte Mylar® on the back. The matte not only enhances viewing, but prevents ferrotyping. The materials are welded together by ultrasonics—thus preventing any possible contamination from adhesives. Each size has a convenient index area for information relating to location, use or retrieval number.

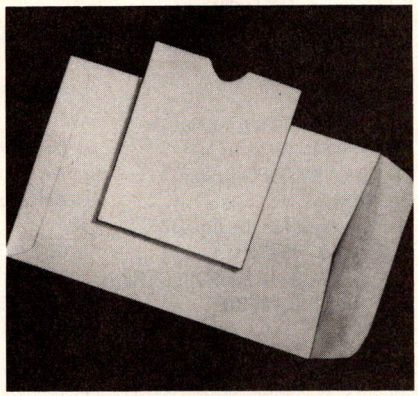
Film or Print Size	Negs per Sleeve	Catalog No.	Price/ 100 Pkg.
Single 2¼ x 2¼	1	PL2000	$8.95
Four 2¼ x 2¼	4	PL2002	$17.95
2¾ x 4½ (Carte de Viste)	1	PL2004	$9.95
35mm (2 rows of 6)	12	PL2008	$17.95
4 x 5	1	PL2018	$16.95
5 x 7	1	PL2020	$23.95
8 x 10	1	PL2022	$47.95

Did you know?

A word about Mylar®

The Mylar® products we sell were developed after consultation with leading photographic conservators. Mylar® polyester film is a flexible, exceptionally strong and durable transparent film. It possesses an unusual balance of properties such as high tensile strength and moisture resistance that make it suitable for many archival applications. Mylar® remains tough and flexible at temperatures from minus 100°F to more than plus 300°F. Its chemical inertness and outstanding surface finish make it a perfect archival storage method.

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)



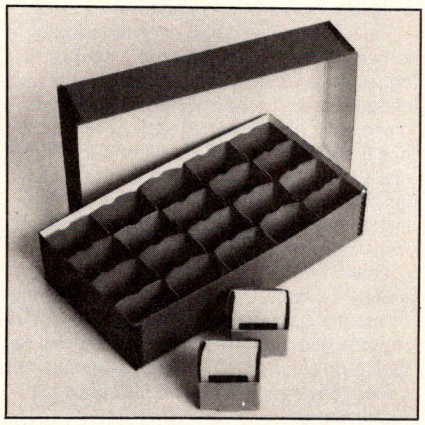
Acid-Free Archival Type Envelopes

Envelopes of chemically purified, long wood fibered paper provide maximum endurance and resistance to tears and abuse. The paper also has been sized with a non-acid substance and a calcium carbonate which provides a most effective shield against acid links and airborne sulphur dioxide. The elimination of acid in our envelopes is another important factor, as witnessed by its slightly alkaline pH of 7.5 minimum to 8.5

Size	Cat. No.	Price per 100
4⅜ x 5⅜	PL1010	$9.95
8½ x 10½	PL1020	$20.95

Archival Boxes

Calumet Archival storage boxes are made of tough .052 all-kraft fiber board with grain direction for utmost strength joined with a metal edge for exceptional durability and permanent rigidity. To produce this acid free board, special alkaline sizing is used and alkaline buffers (3% calcium carbonate) are added for ultimate longevity. Ph minimum 8.5.



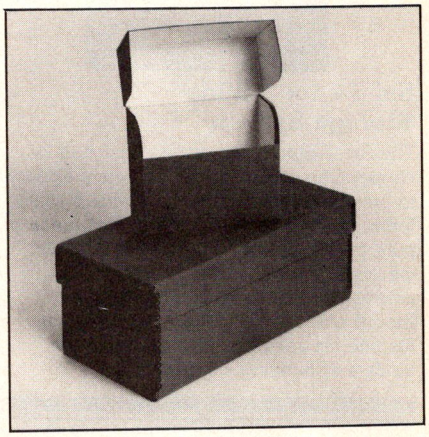
Archival Slide Box

Two piece construction. Fully telescoping with metal edges. Complete with 20 unassembled die-cut tan slide holders which hold 20 2 x 2 slides each.

HO1000 . . . . . each **$7.95**

Quality Discount

Save 20%! Purchase any assortment of 10 or more Hollinger Archival Print, Negative, or Slide Storage Boxes and receive a 20% discount.



Archival Negative Storage Boxes

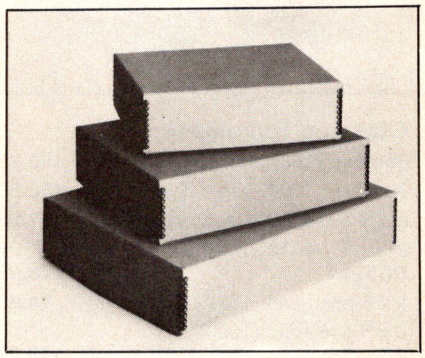
4 x 5 negative storage box, hinge top 2½" deep. Size 5¾" x 4¾ x 2½.

HO1150 . . . . . each **$3.50**

12" deep two piece "shoe box" style storage box for 4 x 5 negatives. Size 12" x 5¾" x 4½". **HO1100** . . . . . each **$4.50**

8 x 10 negative storage box hinge top 4" deep. Size 10⅝ x 8⅝ x 4.

HO1200 . . . . . each **$4.95**



Acid-Free Archival Print Boxes

Two piece drop front construction designed for maximum archival protection of standard size photographs.

10½ x 8½ x 3" for 8 x 10 Prints
HO2000 . . . . . each **$4.50**

12½ x 9½ x 3" for 9 x 12 prints
HO2005 . . . . . each **$4.75**

15 x 11½ x 3" for 11 x 14 prints
HO2010 . . . . . each **$4.95**

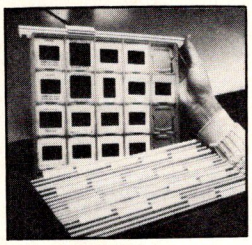
20½ x 16½ x 3" for 16 x 20 prints
HO2020 . . . . . each **$6.95**

20½ x 16½ x 1½" for 16 x 20 prints
HO2025 . . . . . each **$5.95**

24½ x 20½ x 3" for 20 x 24 prints
HO2030 . . . . . each **$7.95**

24½ x 20½ x 1½" for 20 x 24 prints
HO2035 . . . . . each **$6.95**

Archival Filing Systems



Saf-T-Stor™ Slide Storage System

The Saf-T-Stor™ system was designed in cooperation with a U.S. Government agency to provide a safe long term storage system for color slides. The slide pages are made of pure polypropylene with no plasticizers or catalysts. The 9½" x 11" page holds 20 cardboard, plastic, metal or glass 2 x 2 mount slides in individual slots. The page fits into file cabinets, desk top files, ring binders or hanging file drawers.

Saf-T-Stor Slide Pages

1-24 Saf-T-Stor page **FR7500** **$1.50**

25 pkg. Saf-T-Stor page
FR7500 . . . . . **$32.50**

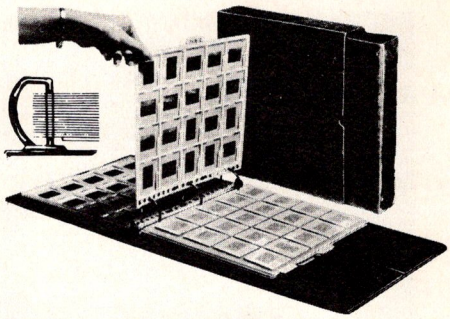
50 pkg. Saf-T-Stor page
FR7500 . . . . . **$60.00**

250 pkg. Saf-T-Stor page
FR7500 . . . . . **$270.00**

Hanger Bars for file drawers
Pkg. of 25 **FR7510** **$12.50**

Tabs and Labels for Hanger Bars
Box of 25 **FR7520** **$5.50**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

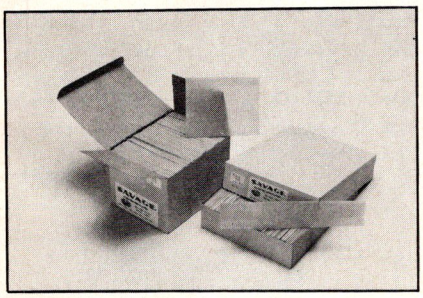


Saf-T-Stor™ Album

The convenient way to carry and house up to 20 Saf-T-Stor slide pages. This 3 ring 1¾ in. binder features D ring design so pages lay flat. Non-vinyl bound construction with slip-in storage case. Black, overall sizes 12½ x 11½ x 2½ inches.

Saf-T-Stor Album **FR7540** **$11.95**

Presentation and Storage



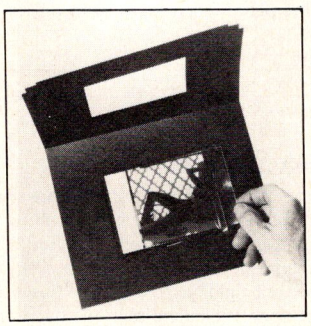
Glassine Envelopes

35mm-6 (100) pkg. **SG5110** **$5.95**
35mm-6 (1000) pkg. **SG5111** . . . **$50.95**
2¼ x 2¼-4 (100) pkg. **SG5113** . . . **$7.95**
2¼ x 2¼-4 (1000) pkg.
SG5114 . . . . . **$78.95**
4 x 5 open end (100) **SG5115** **$4.95**
4 x 5 open end (1000)
SG5116 . . . . . **$43.95**
4 x 5 open side (100) **SG5130** **$5.95**
4 x 5 open side (1000)
SG5131 . . . . . **$48.95**
5 x 7 open end (100) **SG5119** **$8.95**
5 x 7 open side (100) **SG5120** **$9.95**
8 x 10 open end (100)
SG5117 . . . . . **$14.95**
8 x 10 open side (100)
SG5118 . . . . . **$14.95**

Kraft Negative Preservers

(500 per box)

4 x 5 plain **SG5210** **$34.95**
4 x 5 printed 1 side **SG5217** **$34.95**
5 x 7 printed 1 side **SG5222** **$49.95**
8 x 10 plain **SG5230** **$84.95**
8 x 10 printed 1 side **SG5232** **$84.95**



Quik Mounts Display Mats

Quik Mount transparency display mats take away the hassle of preparation for viewing.

Quik Mounts with fold-over cover mats conceal transparency and polyester pocket edges for a cleaner, crisper presentation. Exclusive corner locking features gives one-piece look. Inside mat of each Quik Mount has a built-in "pocket" made of durable, optically clear Mylar® film. One side is matte finish to eliminate glare and enhance viewing. Transparencies are completely protected from damage through handling.

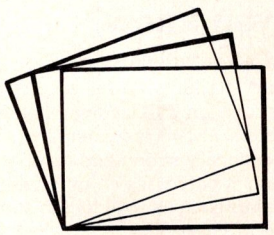
Quik Mounts are neat and trim; they greatly enhance the professional appearance of mounted transparencies. Replacement of mounts damaged through stripping and retaping or handling procedures is greatly reduced. Savings in time and file space are significant.

Features:

- **Fold-Over Cover Mat Design**—Film and pocket edges are completely covered.
- **Film Emulsion Protection**—2-sided polyester "pocket" eliminates scratches and dust problems.
- **No-Glare Viewing**—Matte polyester eliminates need for ground glass or light box.
- **Faster Inserting**—Reduces the inserting of film from 60 to 3 seconds per mount.
- **Less File Space**—50 mounts require only 1 inch of storage space.
- **Reduced Costs and Handling Damage**—Replaces old method of stripping and taping.
- **For display use**—Not archival

Quik Mounts (Black)

Finished Size	Film Size	Catalog No.	Price 100 per pkg.
4 x 5	2¼ x 2¼	PL3000	**$33.95**
4 x 5	2¼ x 2¾	PL3008	**$33.95**
8 x 10	4 x 5	PL3004	**$44.95**



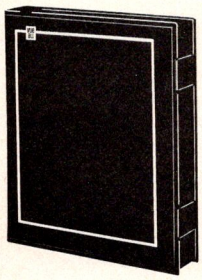
Kodak Acetate Sleeves

For sheet film negatives and transparencies. Transparent acetate covering offers protection from dust, scratches and finger marks. Boxes of 100.

4" x 5" Kodak Sleeves **KK9720** . . . **$12.95**
8" x 10" Kodak Sleeves
KK9725 . . . . . **$34.95**

For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)

Storage and Filing Systems



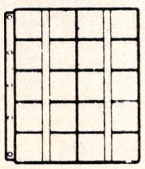
Vue-All Safe-T-Binder

Made of sturdy archival Polyurethane—safe for photographic materials. Unique 'box' construction with tight seal makes it virtually dust proof. Comes with or without built-in ring binders.

Safe-T-Binder with 1" metal rings—black.
VA4001 . . . . . **$7.95**

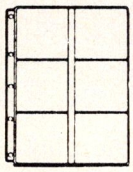
Safe-T-Storage Box—black.
VA4002 . . . . . **$6.95**

STYLE #SF-1



Holds 20—2 x 2 Color Slides

STYLE #SF-2

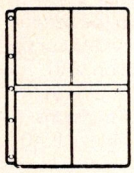


Holds 6—2¼ x 2¼ Mounted Transparencies

STYLE #SF-8

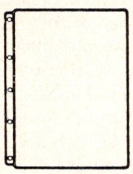
Holds 3 Strips 2¼" Roll Film

STYLE #SF-5



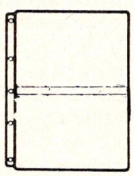
Holds 4—4 x 5

STYLE #SF-6



Holds 1—8 x 10

STYLE #SF-7



Holds 2—5"x7"

Vis Folio Protection Pages

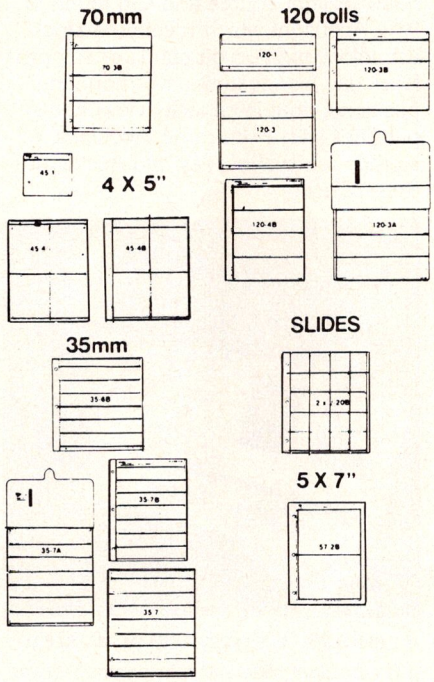
For protection and filing of 35mm slides and other films. Features see-through durable plastic clear front and frosted back. Punched for 3-ring binders.

Calumet has changed suppliers for these protection pages to provide a higher quality, more consistent product.

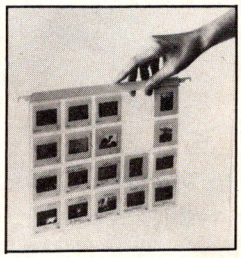
SF-1S holds 20 2 x 2 slides (side loading)
per pack of 25 **BR5600**. **$11.95**
SF-2 holds 6 2¼ x 2¼ slides
per pack of 25 **BR5602**. **$11.95**
SF-5 holds 4 4 x 5 transparencies
per pack of 25 **BR5606**. **$11.95**
SF-6 holds 1 8 x 10 per pack of 25
BR5610. . . . . **$11.95**

Print File/Negative Preservers

Let you make contact prints without removing negatives.



35-7 7 strip/sheet.
Per pack 100 **MS8530** **$16.95**
35-7A 7 strip/folder.
Per pack 100 **MS8535** **$29.95**
35-7B 7 strip/3 hole.
Per pack 25 **MS8510**. **$5.95**
35-7B 6 strip/3 hole.
Per pack 100 **MS8540** **$19.95**
36-6B 6 strip/3 hole.
Per pack 25 **MS8550**. **$5.95**
36-6B 6 strip/3 hole.
Per pack 100 **MS8545** **$19.95**
120-1 single strip.
Per pack 100 **MS8552**. **$7.95**
120-3 3 strip/sheet.
Per pack 100 **MS8554** **$16.95**
120-3A 3 strip/folder.
Per pack 100 **MS8556** **$29.95**
120-3B 3 strip/3 hole.
Per pack 100 **MS8558** **$19.95**
120-4B 4 strip/3 hole.
Per pack 25 **MS8515**. **$5.95**
120-4B 4 strip/3 hole.
Per pack 100 **MS8560** **$19.95**
45-1 single.
Per pack 100 **MS8564**. **$7.95**
45-4 4/sheet.
Per pack 100 **MS8562** **$16.95**
45-4B 4/3 hole.
Per pack 100 **MS8505** **$18.95**
57-2B 2/3 hole.
Per pack 100 **MS8566** **$19.95**
810-1 single.
Per pack 100 **MS8568** **$15.95**
70-3B 3 strip/3 hole.
Per pack 100 **MS8575** **$19.95**
2" x 2"—20B sides.
Per pack 100 **MS8585** **$24.95**
35-1M roll. 1000' **MS8590** **$21.95**
120-1M roll. 1000' **MS8592** **$24.95**
70-1M roll. 1000' **MS8594** **$29.95**



New VPD "Hang 20" Slide File Pages

VPD's new "Hang 20" slide file pages are designed to hang in standard file drawers. They are made of a special, non-plasticized material that provides greater protection and safety for long-term storage of your slides. Unique air-vent pockets let air circulate . . . preserving and protecting your slides from damage that suffocating storage can cause. Top-loading pockets make insertion and removal of slides easier and faster than ever.

"Hang 20" Slide Pages
Package of 10 **AR3525**. **$7.95**

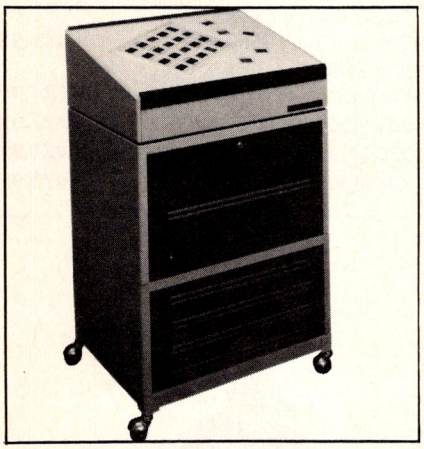
Special Discount on 50 or more "Hang 20" pages. Save 10%.

Hama DSR Slide Mounting Unit

This ingenious machine is one of the quickest and most efficient slide mounting systems we have seen. The Hama DSR mounter combines viewing, automatic framing, and cutting into one simple and precise operation. Framing is accomplished without even handling your slides and your film is cut AFTER it is in the DSR Slide mount. Slides are checked with a bright, strong magnifier and illuminator. Complete with 50 DSR glassless slide mounts and holder for Polaroid slide mounts.
PT0100 . . . . . **$29.95**

Hama DSR Slide Mounts
Pkg. of 100 **PT0120** **$4.95**

Viewers and Illuminators



Acculight Modular Viewing And Storage System

This new slide storage/retrieval system provides a modular design which can be arranged in a variety of ways to meet your present and future needs. Components include a color-correct Acculight viewer for sorting and viewing, four drawer file with inserts, lateral file designed to accommodate up to 100 hanging slide panels and a mobile base or a cabinet base with adjustable shelf. Both bases include 2" ball casters for easy mobility. All components measure 24" W x 18" D and lock-stack together assuring solid support. Finished in an attractive putty beige with walnut vinyl clad trim.

Modular Viewer. Features an ANSI standard 5000K light source with a CRI rating of 91+, 15° angled, break-resistant frosted plexiglass viewing surface and on-off switch. Electrical 120 VAC 60Hz with 6' grounded line cord. Viewing area 24" x 18". Capacity 96 2 x 2 slides. **KN2000** **$145.95**

Modular Four Drawer File. With inserts for group storage of all types of 2" x 2" slides. Insert capacity 11,200 ready mounts or 5600 glass mounts and includes 56 plastic dividers. Dimensions 24" W x 12" H x 18" D.
KN2005..... **$174.95**

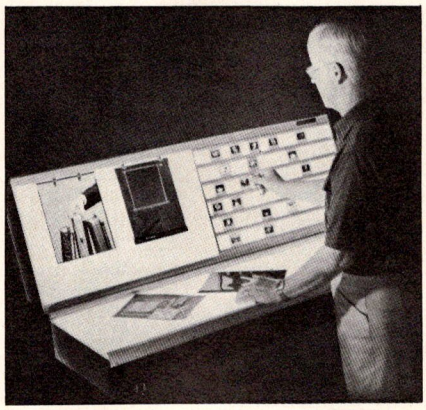
Modular Lateral File. Designed to accommodate up to 100 hanging slide panels (capacity 2000 slides). Includes lock and 2 keys.
Dimensions 24" W x 14½" H x 18" D.
KN2010..... **$139.95**

Modular Mobile Base with 2" Ball Casters.
KN2015..... **$36.95**

Accessory Cutting Surface. Translucent vinyl overlay which actually "heals" itself when scored with a craft knife or razor blade. Protects plexiglass surface from damage. Non-distracting, soft green grid provides a guide for paste-ups, keyline drawing and tracing. Dimensions 24" W x 18" D.
KN2026..... **$29.95**

Prices may change without prior notice, however, price changes in some instances may be lower than the published catalog price. Please call for confirmation.

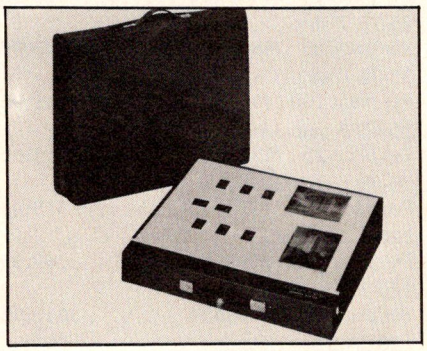
Acculight Transparency Editor-Sorter. View slides and transparencies clearly and conveniently with this special modular system. Features ANSI standard 5000° K light source and CRI rating of 91+ Acculight which meets the strictest color rendition demands of any professional. Also features five mounting positions, double-capacity viewing capabilities with Accuframe, Acculock storage/retrieval overlay and Acculight Sorter/Tray.



Acculight Viewer/Editor System

4 ft. Acculight slide and transparency viewer/editor 5000° K light, CRI rated 91+
KN1000..... **$179.95**

2 ft. Acculight slide and transparency viewer/editor 5000° K light. CRI rated 91+
KN1020..... **$139.95**



Portable Acculight viewer/sorter. Viewing area is 17³⁄₁₆" x 12³⁄₈". Capable of viewing up to 48 2" x 2" slides. Wt.: 12½ lbs. Compete with protective vinyl cover.
KN1040..... **$79.95**

Acculight accessories

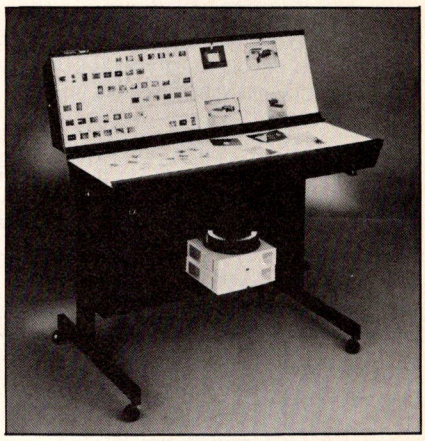
Acculock overlay for 2" x 2" mounts (72 cap.)
KN1010..... **$24.95**

Acculock overlay for 2¼" x 2¼" mounts (40 cap.) **KN1035**..... **$29.95**

Acculock overlay for 2" x 2" mounts (80 cap.) **KN1005**..... **$25.95**

Acculight portable overlay for 2" x 2" mounts (40 cap.). For Model KN1040.
KN1045..... **$22.95**

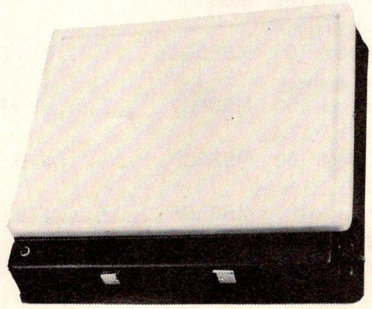
Acculight coupling frame
KN1025..... **$22.95**



New Knox Acculight Stands

6048 Acculight Stand - This stand will hold one or two 4 ft. Acculights (#6000) and is adjustable for two convenient heights-standing or sitting. With one Acculight, it may be used in either a flat (15°) or angled (75°) position. With two Acculights, one viewing surface is horizontal and the second is vertical. A full-length shelf provides convenient storage. All steel construction with baked black enamel finish, and four 2 in. casters (two locking). Overall Dimensions: 42"w x 40¾" or 47 ¼"h x 28"d. Weight: 40 pounds. UPS Shippable.
KN4000..... **$159.95**

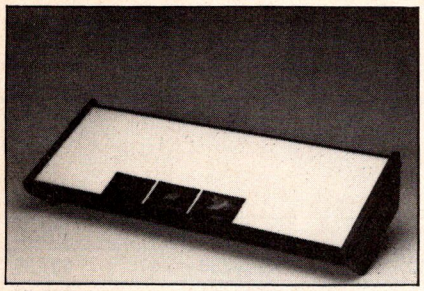
For fast delivery,
Call free of charge,
Monday through Friday
9 am to 5 pm Central Time
1-800-CALUMET
(In Illinois, call: 1-800-225-8601)



New Portable Ultralight Viewer

This economical viewer holds up to 48 2x2 transparencies. Color balanced to the ANSI stand of 5000° K, CRI 91.
Usable surface: 11½x16½ in.
Overall size: 4¼x18½x15¼ in.
Weighs less than 6 lbs.
AA0900 ..... **$89.95**

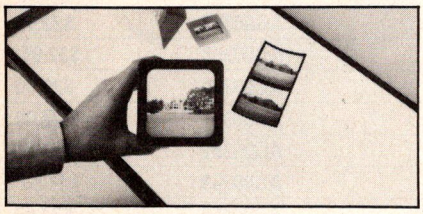
Storage and Presentation Systems



New Matrix Economy 3′ Viewer

This very affordable table top viewer has a 36″ x 12⅛″ viewing surface and 5000° ANSI standard light source. The viewer is constructed with a metal housing finished in an attractive brown color.

MX1050. . . . . **$119.95**



Journal Magnifier

The unique double lens design of this viewer focuses the image for viewing at a distance.

MX4080. . . . . **$19.95**

Dahle 8 in. Super Shear

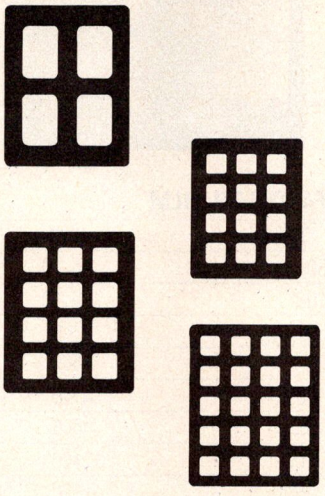
Finest quality scissors we have ever seen. Self sharpening blades made of highly polished, high quality, stainless steel. Grips made of breakproof ABS plastic.

DA5000. . . . . **$12.95**

Kostiner Anti-Static Dust Removing Brush

Carbon-coated, acrylic-fiber brush will remove static electricity and dust from negatives, sheet film, enlarging lenses, glass plates or electronic parts. Neutralizes positive charged ions through resistance flow without radioactive elements. Brush may be washed with soap and water. Handsome wooden handle provides comfortable grip.

KS7000. . . . . **$29.95**



Cardcrafts Transparency Vu-Mats

These heavy duty transparency presentation mats are an excellent means of presenting your work to clients. Simply slide your transparencies into individual, precision die-cut openings for a clean and professional appearance. Each Vu-Mat is finished in flat black and is rigidly constructed of pressed cardboard. Vu-Mats are designed to allow easy removal and interchangeability of your transparencies and should provide years of service. Included with each Vu-Mat is a protective plastic cover sleeve with frosted back to guard against dust and finger prints and allow viewing. Masks are provided to crop or block out individual frames.

35mm Vu-Mat-12

Holds 12 35mm mounted slides. Supplied with masks. **CD1000**. **$4.95**

35mm Vu-Mat-20

Holds 20 35mm mounted slides. Supplied with masks for horizontal or vertical orientation of slides in the mat.

CD1010. . . . . **$6.95**

2¼″ Vu-Mat

Holds 12 2¼ x 2¼ mounted transparencies. Supplied with masks. **CD1020** **$6.95**

4 x 5 Vu-Mat

Holds 4 4 x 5 transparencies. Supplied with masks. **CD1030**. **$6.95**

For Fast Delivery Call Free of Charge

To place orders with American Express, VISA or Master Card from anywhere in the Continental United States

1-800-CALUMET

(In Illinois, call: 1-800-225-8601)

Diatrans Bordered Sleeves

These high quality vinyl transparency sleeves feature wide opaque black borders for a professional look. The back of the sleeve is frosted for even light distribution.

Diatrans 4 x 5 Bordered Sleeve

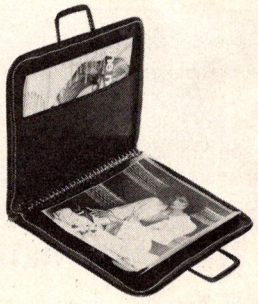
Package of 10. **MX6500** **$6.50**

Package of 100. **MX6501** **$52.00**

Diatrans 8 x 10 Bordered Sleeve

Package of 10. **MX6520** **$15.00**

Package of 100. **MX6521** **$120.00**



Zipper Portfolio Cases

Constructed with all around metal zipper, 2 full length inside pockets and are available in 4 popular sizes. Includes chrome multi-ring mechanism and 10 print protectors (capacity 20 prints). Case capacity 30 print protectors, 60 prints. Zipper Portfolio inserts available.

Brown Zipper Portfolio Case

With bokara bonded leather.

For 8½ x 11″ insert (no handles).

AR2250. . . . . **$24.95**

For 11 x 14 insert. **AR2251**. **$35.95**

Black Zipper Portfolio Case

With durable Dupont texon.

For 8½ x 11 insert (no handles).

AR2260. . . . . **$22.95**

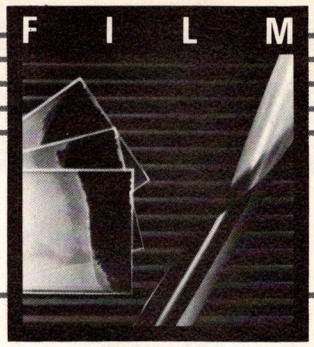
For 11 x 14 insert. **AR2261**. **$29.95**

Zipper Portfolio Inserts

8½ x 11 Pkg of 10 **AR2270** **$4.95**

11 x 14 Pkg of 10 **AR2271**. **$7.50**

Prices and specifications subject to change without notice.



AGFA COLOR FILM

AGFACHROME RS

This daylight balanced, E-6 compatible transparency film utilizes Agfa's "Twin Crystal" emulsion technology, which produces excellent sharpness, reduces graininess and improves color reproduction. The color emulsions in the new film are divided into two layers; the top layer contains only large, highly sensitive crystals, while the lower layer has smaller less sensitive crystals. Available in the following speeds: 50, 100, 200 and 1000.

AGFACOLOR XRS

Agfa's color print film utilizes the same twin crystal technology as the RS transparency film. This C-41 compatible film is available in ASA 100, 200, 400 and 1000.

FREE Agfa Film Offer

Purchase 4 boxes of Agfa Black and White 4 × 5 sheet film and receive one box FREE. 25 FREE sheets of film when you buy 100! Includes Agfa Pan 25, 100 and 400. Offer expires on August 31, 1985.

AGFA BLACK AND WHITE FILM

AGFAPAN 25—Slow speed negative film with extra fine grain and superb definition.

AGFAPAN 100—Medium speed film with high definition, fine grain, and good processing latitude.

AGFAPAN 400—High speed film which is ideal for general purpose large format photography.

AGFA COLOR FILM

Type	Size	Qty.	Cat. No.	Price
RS 50	8×10	10	**AG00250**	**$37.95**
RS 100	8×10	10	**AG00251**	**$37.95**
RS 50	4×5	10	**AG00150**	**$ 9.95**
RS 50	4×5	50	**AG00152**	**$ 47.95***
RS 100	4×5	10	**AG00151**	**$ 9.95**
RS 100	4×5	50	**AG00153**	**$ 48.95***
XRS 100	120	10	**AG00355**	**$19.00**
XRS 200	120	10	**AG00356**	**$22.00**
XRS 400	120	10	**AG00357**	**$23.50**
XRS 1000	120	10	**AG00358**	**$32.95***
RS 50	120	10	**AG00350**	**$21.00**
RS 100	120	10	**AG00351**	**$22.00**
RS 200	120	10	**AG00352**	**$23.00**
RS 1000	120	10	**AG00353**	**$41.95***
XRS100 135-36	35MM	10	**AG00455**	**$27.50**
XRS200 135-36	35MM	10	**AG00456**	**$31.00**
XRS400 135-36	35MM	10	**AG00457**	**$34.50**
XRS1000 135-36	35MM	10	**AG00458**	**$45.00**
RS50 135-36	35MM	10	**AG00450**	**$38.00**
RS100 135-36	35MM	10	**AG00451**	**$40.00**
RS200 135-36	35MM	10	**AG00452**	**$48.50**
RS1000 135-36	35MM	10	**AG00453**	**$69.90**

AGFA BLACK AND WHITE FILM

Type	Size	Qty.	Cat. No.	Price
PAN25	8×10	25	**AG00210**	**$22.00**
PAN25	4×5	25	**AG00100**	**$ 6.75**
PAN100	4×5	25	**AG00110**	**$ 6.75**
PAN400	4×5	25	**AG00120**	**$ 6.75**
PAN25	120	10	**AG00300**	**$13.75**
PAN100	120	10	**AG00310**	**$13.75**
PAN400	120	10	**AG00320**	**$13.75**
PAN 25	135-36	10	**AG00400**	**$21.50**
PAN100	135-36	10	**AG00410**	**$21.50**
PAN400	135-36	10	**AG00420**	**$21.50**

KODAK PROFESSIONAL TRANSPARANCY FILM

KODACHROME 25 PROFESSIONAL (PKM)

Color reversal professional film for daylight and electronic flash.

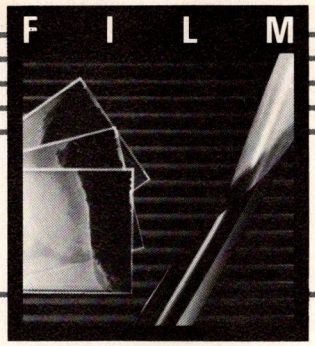
KODACHROME 64 PROFESSIONAL (PKR)

Medium speed color reversal film for daylight and electronic flash.

*Delivery to be announced.

KODAK COLOR ROLL FILM — 35MM

Type	Size	Qty.	Cat. No.	Price
Kodachrome 25 Professional (PKM) 36 exp.	35MM	10	**KP01400**	**$54.95**
Kodachrome 64 Professional (PKR) 36 exp.	35MM	10	**KP01402**	**$54.95**
Ektachrome 50 (EPY) 36 exp.	35MM	10	**KP01404**	**$55.50**
Ektachrome 64 (EPR) 36 exp.	35MM	10	**KP01406**	**$55.50**
Ektachrome 100 (EPN) 36 exp.	35MM	10	**KP01408**	**$59.95**
Ektachrome 160 (EPT) 36 exp.	35MM	10	**KP01410**	**$66.90**
Ektachrome 200 (EPD) 36 exp.	35MM	10	**KP01412**	**$65.90**
Ektachrome P800/1600 (EES) 36 exp.	35MM	10	**KP01414**	**$79.90**
Vericolor III Type S (VPS) 36 exp.	35MM	10	**KP01416**	**$36.75**
Ektachrome Slide Duplicating (ESD) 36 exp.	35MM	10	**KP01418**	**$43.25**
Ektachrome Slide Duplicating (ESD) 100′	35MM	1	**KP01500**	**$31.95**



KODAK PROFESSIONAL TRANSPARANCY FILM

EKTACHROME 50 (EPY)
Tungsten (3200K) balanced color reversal film. Process E-6.

EKTACHROME 64 (EPR)
Professional color-reversal film for exposure with daylight, electronic flash or blue flash bulbs.

EKTACHROME 100 (EPN)
Moderate speed professional color-reversal film featuring accurate color reproduction for exposure with daylight, electronic flash or blue flash bulbs.

EKTACHROME 160 (EPT)
High speed professional color-reversal film primarily for use under tungsten light conditions.

EKTACHROME 200 (EPD)
High speed professional color-reversal film, intended primarily for use with dim daylight conditions, or when faster shutter speeds and smaller apertures are required.

EKTACHROME P800/1600 (EES)
A high speed professional color-reversal film designed for push-processing use.

KODAK COLOR NEGATIVE FILM

VERICOLOR III TYPES (VPS)
Professional color negative film designed for electronic flash or daylight in exposure range of 1/10 sec. to 1/10,000 sec.

VERICOLOR II TYPE L (VPL)
Professional color negative film balanced for 3200K illuminants over an exposure range of 1/50 sec. to 60 seconds.

VERICOLOR II COMMERCIAL FILM (VCS)
Higher contrast color negative film for professional use with electronic flash, or daylight in exposure range of 1/10 sec. or shorter.

KODAK COLOR SHEET FILM — 8×10

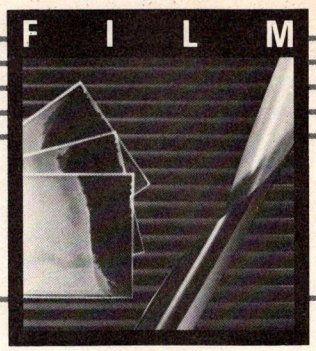
Type	Size	Qty.	Cat. No.	Price
Ektachrome Professional 6118 (EPY)	8×10	10	**KP01000**	**$ 44.90**
Ektachrome Professional 6118 (EPY)	8×10	50	**KP01002**	**$202.90**
Ektachrome 64 Professional 6117 (EPR)	8×10	10	**KP01004**	**$ 44.90**
Ektachrome 64 Professional 6117 (EPR)	8×10	50	**KP01006**	**$202.90**
Ektachrome 100 Professional 6122 (EPN)	8×10	10	**KP01008**	**$ 45.50**
Ektachrome 100 Professional 6122 (EPN)	8×10	50	**KP01010**	**$214.50**
Ektachrome 200 Professional 6176 (EPD)	8×10	10	**KP01012**	**$ 47.50**
Ektachrome 200 Professional 6176 (EPD)	8×10	50	**KP01014**	**$221.90**
Vericolor III Type S (VPS)	8×10	10	**KP01016**	**$ 43.95**
Vericolor II Type L (VPL)	8×10	10	**KP01018**	**$ 43.95**

KODAK COLOR SHEET FILM — 4×5

Type	Size	Qty.	Cat. No.	Price
Ektachrome Professional 6118 (EPY)	4×5	10	**KP01100**	**$11.30**
Ektachrome Professional 6118 (EPY)	4×5	50	**KP01102**	**$51.95**
Ektachrome 64 Professional 6117 (EPR)	4×5	10	**KP01104**	**$11.30**
Ektachrome 64 Professional 6117 (EPR)	4×5	50	**KP01106**	**$51.95**
Ektachrome 100 Professional 6122 (EPN)	4×5	10	**KP01108**	**$12.75**
Ektachrome 100 Professional 6122 (EPN)	4×5	50	**KP01110**	**$57.40**
Ektachrome 200 Professional 6176 (EPD)	4×5	10	**KP01112**	**$12.75**
Ektachrome 200 Professional 6176 (EPD)	4×5	50	**KP01114**	**$57.40**
Vericolor III Type S (VPS)	4×5	10	**KP01116**	**$10.75**
Vericolor III Type S (VPS)	4×5	50	**KP01117**	**$50.60**
Vericolor II Type L (VPL)	4×5	10	**KP01118**	**$10.75**
Vericolor II Type L (VPL)	4×5	50	**KP01119**	**$49.50**
Vericolor II Commercial Film (VCS)	4×5	10	**KP01120**	**$11.95**

KODAK COLOR ROLL FILM — 120/220

Type	Size	Qty.	Cat. No.	Price
Ektachrome 64 (EPR)	120	5	**KP01200**	**$14.75**
Ektachrome 100 (EPN)	120	5	**KP01202**	**$16.20**
Ektachrome 200 (EPD)	120	5	**KP01204**	**$17.95**
Ektachrome (EL)	120	10	**KP01206**	**$39.95**
Ektachrome 50 (EPY)	120	10	**KP01208**	**$29.50**
Ektachrome 160 (EPT)	120	5	**KP01210**	**$17.95**
Vericolor III Type S (VPS)	120	5	**KP01212**	**$11.95**
Vericolor II Type L (VPL)	120	5	**KP01214**	**$11.95**
Vericolor II Commercial (VCS)	120	10	**KP01216**	**$23.95**
Ektachrome 64 (EPR)	220	5	**KP01300**	**$29.50**
Ektachrome 200 (EPD)	220	5	**KP01304**	**$35.50**
Vericolor III Type S (VPS)	220	5	**KP01312**	**$23.50**



KODAK BLACK & WHITE FILM

KODAK PLUS-X—Medium speed panchromatic film for general purpose applications.

KODAK TRI-X—Fast panchromatic film with excellent exposure latitude.

KODAK TECHNICAL PAN

High resolution, fine grain film with extended red panchromatic sensitivity. This versatile film can be processed to a wide range of contrasts, and is recommended for pictorial photography, photomicrography, copying and other technical procedures.

KODAK KODALITH ORTHO FILM 2556-TYPE 3

High contrast litho film used for a wide variety of graphic arts and experimental photographic applications.

DIRECT POSITIVE PANCHROMATIC FILM 5246 (DP 402)

Black and white reversal transparency film. Processed with Kodak Direct Positive film developing kit for black and white slides.

KODAK BLACK AND WHITE SHEET FILM

Type	Size	Qty.	Cat. No.	Price
TRI X (4164)	8×10	50	**KP00014**	**$59.50**
PLUS X (4147)	8×10	50	**KP00022**	**$59.50**
KODALITH (2556)	8×10	50	**KP00042**	**$42.25**
TRI X (4164)	4×5	25	**KP00010**	**$ 9.50**
TRI X (4164)	4×5	100	**KP00012**	**$34.25**
PLUS X (4147)	4×5	25	**KP00018**	**$ 9.50**
PLUS X (4147)	4×5	100	**KP00020**	**$34.25**
TECH PAN (2415)	4×5	50	**KP00030**	**$18.95**
KODALITH (2556)	4×5	50	**KP00040**	**$12.75**

KODAK BLACK AND WHITE ROLL FILM

Type	Size	Qty.	Cat. No.	Price
TECH PAN	120	10	**KP00110**	**$24.50**
PXP PRO PK	120	5	**KP00115**	**$ 9.50**
TXP PRO PK	120	5	**KP00120**	**$ 9.50**
TX120	120	10	**KP00130**	**$16.50**
PXP PRO PK	220	5	**KP00210**	**$18.95**
TXP PRO PK	220	5	**KP00220**	**$18.95**
PX135-36	35MM	10	**KP00310**	**$24.95**
TX135-36	35MM	10	**KP00320**	**$24.95**
TP135-36	35MM	10	**KP00340**	**$37.95**
PX402 (100')	35MM	1	**KP00450**	**$17.95**
TX402 (100')	35MM	1	**KP00430**	**$18.95**
DP402 (100')	35MM	1	**KP00460**	**$23.95**

ILFORD FILM

ILFORD HP5

HP5 is a fast, black and white, panchromatic film with great versatility for general photographic applications. It has fine grain and excellent sharpness for its speed, and displays very good edge enhancement. HP5 will produce prints with a wide tonal range and good brightness.

HP5 Professional Sheet Film has a nominal speed rating of ISO 320/26', but may be used from ISO 160/23' to ISO 3200/36' by using modified development techniques.

HP5 Roll Films have a rating of ISO 400/27' to daylight, but can be increased by extending development, making it ideal film for poor lighting situations.

ILFORD FP4

FP4 is a fine-grain, medium contrast panchromatic film which offers high acutance and a wide exposure latitude. When given a standard development it has a speed rating of ISO 125/22' to daylight.

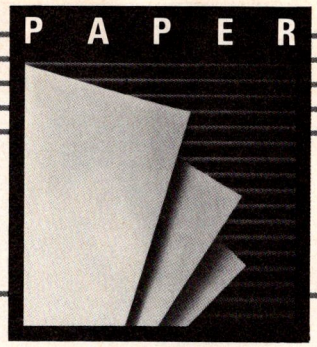
ILFORD BLACK AND WHITE FILM

Type	Size	Qty.	Cat. No.	Price
HP5	8×10	25	**IL0202**	**$ 26.10**
FP4	8×10	25	**IL0201**	**$ 26.10**
HP5	4×5	50	**IL0302**	**$ 15.80**
FP4	4×5	50	**IL0301**	**$ 15.80**
HP5	2¼×3¼	50	**IL0402**	**$ 12.95**
FP4	2¼×3¼	50	**IL0401**	**$ 12.95**
HP5	120	10	**IL0502**	**$ 15.15**
FP4	120	10	**IL0501**	**$ 15.15**
HP5	135-36	10	**IL0602**	**$ 23.65**
FP4	135-36	10	**IL0601**	**$ 23.65**
FP4	135-36	50	**IL0603**	**$110.00**
HP5	135-36	50	**IL0604**	**$110.00**
HP5	35MM LR (97')	1	**IL0612**	**$ 16.90**
FP4	35MM LR (97')	1	**IL0611**	**$ 15.20**

Free Ilford Film Technical Manual*

Purchase $25.00 or more of Ilford Film and receive a free copy of Ilford's 50 page booklet, "Ilford Films: Technical Information". This technical data guide is filled with pertinent information on all of Ilford black and white film. Included are film descriptions, characteristic curves, control/tone charts, processing guides, reciprocity characteristics, exposure data and more.

*Quantities are limited—so order soon.



KODAK PAPER

KODAK ELITE

A neutral-black image tone and a brightened base give ELITE Fine-Art Paper exceptional shadows and highlights. The brilliant whites; deep rich blacks; and smooth S surface also make it an excellent choice for making high-quality black-and-white prints.

ELITE Paper is available in three contrast grades that are speed-matched for tungsten light sources. A split-development technique can be used to produce intermediate contrasts for a precise match of the contrast of the paper to the requirements of the negative.

ELITE Paper is an extremely high quality paper with densely packed fibers. The premium weight is Kodak's heaviest paper stock—heavier than conventional double-weight papers.

KODAK ELITE PREMIUM WEIGHT PAPER

Size	Qty.	Grade	Cat. No.	Price
8×10	25	1	**KP23211**	**$ 16.95**
8×10	25	2	**KP23212**	**$ 16.95**
8×10	25	3	**KP23213**	**$ 16.95**
8×10	100	1	**KP23241**	**$ 56.95**
8×10	100	2	**KP23242**	**$ 56.95**
8×10	100	3	**KP23243**	**$ 56.95**
11×14	10	1	**KP23401**	**$ 12.95**
11×14	10	2	**KP23402**	**$ 12.95**
11×14	10	3	**KP23403**	**$ 12.95**
11×14	50	1	**KP23421**	**$ 54.95**
11×14	50	2	**KP23422**	**$ 54.95**
11×14	50	3	**KP23423**	**$ 54.95**
16×20	10	1	**KP23601**	**$ 27.95**
16×20	10	2	**KP23602**	**$ 27.95**
16×20	10	3	**KP23603**	**$ 27.95**
16×20	50	1	**KP23621**	**$112.95**
16×20	50	2	**KP23622**	**$112.95**
16×20	50	3	**KP23623**	**$112.95**
20×24	10	1	**KP23801**	**$ 39.95**
20×24	10	2	**KP23802**	**$ 39.95**
20×24	10	3	**KP23803**	**$ 39.95**

KODAK POLYFIBER

Selective contrast, fiber-based paper for general photographic use. Neutral image tone with medium speed. To be used with variable contrast filters

KODAK POLYFIBER F (DOUBLE WEIGHT)

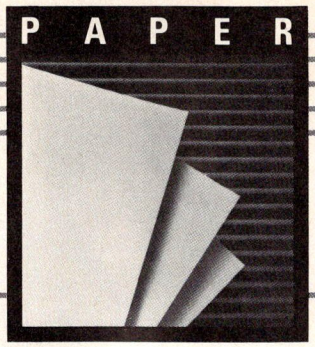
Size	Qty.	Cat. No.	Price
8×10	25	**KP32210**	**$11.40**
8×10	100	**KP32240**	**$37.50**
11×14	10	**KP32400**	**$ 8.95**
11×14	50	**KP32420**	**$37.50**

KODAK POLYPRINT RC

This new, selective contrast, RC (resin coated) paper permits up to three minutes of tray development control. With Polyprint's gradual image build up, you have the convenience of fine tuning your prints during development and can stop development at precisely the right moment. Polyprint also offers the other advantages of RC papers, such as faster wash and dry times, and the convenience of selective contrast.

KODAK POLYPRINT RC F

Size	Qty.	Cat. No.	Price
8×10	25	**KP11210**	**$ 9.80**
8×10	100	**KP11240**	**$34.10**
11×14	10	**KP11400**	**$ 8.00**
11×14	50	**KP11420**	**$34.50**



Pal Print

Pal Print produces exhibition standard black and white enlargements at incredibly competitive prices. This baryta coated, fiber-based, chlorobromide paper yields a bright, neutral white base and a richly delicate, warm black image tone. Pal Print has become increasingly popular among Master printers and stands as the best buy against all competition.

PAL PRINT PAPER (DOUBLE WEIGHT)

Size	Qty.	Grade	Cat. No.	Price
8×10	25	1	**PE11211**	**$ 8.00**
8×10	25	2	**PE11212**	**$ 8.00**
8×10	25	3	**PE11213**	**$ 8.00**
8×10	100	1	**PE11241**	**$29.15**
8×10	100	2	**PE11242**	**$29.15**
8×10	100	3	**PE11243**	**$29.15**
11×14	25	1	**PE11411**	**$15.40**
11×14	25	2	**PE11412**	**$15.40**
11×14	25	3	**PE11413**	**$15.40**
11×14	100	2	**PE11442**	**$56.25**
11×14	100	3	**PE11443**	**$56.25**
16×20	25	1	**PE11611**	**$31.85**
16×20	25	2	**PE11612**	**$31.85**
16×20	25	3	**PE11613**	**$31.85**
20×24	25	2	**PE11812**	**$48.95**
20×24	25	3	**PE11813**	**$48.95**

PAL PRINT PAPER TEST REPORT

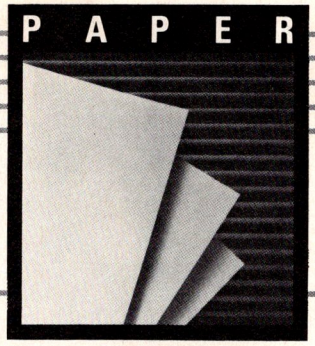
Calumet was interested to see how Pal Print Paper stacked up against its competition—black and white fibre-based "exhibition papers"—so we asked photographer/printmaker Robert Hoffman to run some tests for us. The results proved to be enlightening; especially when you consider Pal's economical price for a premium paper. See for yourself:

"After having tested Pal Print in the following areas, I have to say that it qualifies as certainly one of the best black and white fibre-based papers available. I would not hesitate to recommend it to the most demanding fine printer. The criteria I used for my evaluation are as follows:

1. Blacks—This should be the first priority checked for any paper because it is a good indicator as to the silver content of the emulsion. In this regard Pal Print ranks highly (even its Grade 1) and is on par with Oriental Seagull.
2. Whites—Bright, clean whites are very important in order to convey brilliance, crispness and the "feeling" of light. (Pal Print's) whites are clean, with only a slight bluish tint.
3. Low-End Separation—The ability of a paper to clearly deliniate the darkest tones is very important and desirable. This is because of the less than optimum shadow separation yielded by the black and white negative. My tests prove Pal Print to have superior shadow separation, including Grade 1. Most Grade 1's really flatten out in the low end but Pal Print still has guts.
4. Mid-Tone Separation—Practically speaking, the slope of this straight-line section will determine the overall contrast of the paper. Changes in slope from one grade to the next form what is called "grade spacing". Pal Print has predictable "grade spacing" and has slightly lower overall contrast than Oriental Seagull. This is not a big problem because changes in the developer formula can make the necessary compensation.
5. High-End Separation—Often it is the rendition of high values that either makes or breaks a fine print. Clean, distinct tonal gradations in this critical region will do much to enhance texture and brilliance. In my tests Pal Print proved to have moderate high-end separation when compared to the competition. This is a result of its lower overall contrast. Compensation can be made by altering the paper developer and printing the next higher grade. I must point out, however, that contrasty negatives will be easier to print with Pal—its' softening effect makes possible very long and smooth gradations of tone, Pal Print #1 has the longest tonal scale I've ever seen while still being able to deliver solid blacks.
6. Depth—Creating the effect of three-dimensional space within two dimensions is probably at the top of the fine printers' list of priorities, it is this elusive quality of illusion that gives a fine print "character" and "atmosphere".

   How well, then, does Pal Print generate this three-dimensional effect? Extremely well, indeed. Fully developed and properly toned, Pal Print gets very high marks. It definitely ranks a position alongside the finest papers.
7. Print Color—Pal Print has a nice neutral image color which can be modified to look slightly warm or slightly cold, depending on the developer formulation. Thus, Pal Print is a good universal choice for just about any subject matter.
8. Toning—Toning a paper in dilute selenium can add intensity, depth and richness. Usually, blacks become deeper, objects appear more isolated in space and the highlights acquire more snap. All papers are not created equal in this respect, some tone excessively and others tone hardly at all. Pal Print is an excellent paper for selenium toning. It tones evenly and predictably, taking on a rich print color along with intensified black tones.

All in all, tests concluded that Pal Print should prove to be an outstanding value."



ORIENTAL SEAGULL

This cold tone, bromide paper is renowned for its pitch black and pure white tones. Other features of this popular exhibition quality black and white paper include:

- High Sensitivity—considered to be one of the most sensitive papers available for enlarging applications.
- Excellent tonal reproduction gives faithful expression to all shades and tones.
- Exceptional tonal gradation produces an infinite number of grays, stretching from the highlight sections to the deepest shadows.
- Wide exposure latitude and superb reproducibility.

Seagull can be fully developed in most developers (with suggested dilutions) in two to three minutes. The paper was tested using prolonged developing times and the results were consistent and predictable. With increased developing times, there is a noticeable increase in paper speed, but only a slight increase in contrast. Increased development time does not appreciably increase the density of the blacks, in fact, after three minutes development, there is no measurable increase in density of the maximum blacks, regardless of the development time. The longer the development time, the greater the possibility of subtle degradation in the whites from safe light fog as well as chemical fog.

TYPES OF SEAGULL PAPER

SEAGUL G

This top-of-the-line exhibition paper uses a baryta coating and produces a beautiful smooth exhibition quality gloss.

SEAGULL N

This fine-grained surface and strong base paper produces a lustre brilliance.

SEAGULL F

Single weight paper with a smooth and glossy surface.

ORIENTAL SEAGULL F (SINGLE WEIGHT)

Size	Qty	Grade	Cat. No.	Price
8x10	100	2	**OR11242**	**$31.40**
8x10	100	3	**OR11243**	**$31.40**

ORIENTAL SEAGULL G (DOUBLE WEIGHT)

Size	Qty	Grade	Cat. No.	Price
8x10	25	1	**OR12211**	**$10.95**
8x10	25	2	**OR12212**	**$10.95**
8x10	25	3	**OR12213**	**$10.95**
8x10	25	4	**OR12214**	**$10.95**
8x10	100	1	**OR12241**	**$38.95**
8x10	100	2	**OR12242**	**$38.95**
8x10	100	3	**OR12243**	**$38.95**
8x10	100	4	**OR12244**	**$38.95**
11x14	10	2	**OR12402**	**$9.10**
11x14	10	3	**OR12403**	**$9.10**
11x14	10	4	**OR12404**	**$9.10**
11x14	50	2	**OR12422**	**$34.00**
11x14	50	3	**OR12423**	**$34.00**
11x14	50	4	**OR12424**	**$34.00**
16x20	10	2	**OR12602**	**$18.60**
16x20	10	3	**OR12603**	**$18.60**
16x20	10	4	**OR12604**	**$18.60**
16x20	50	2	**OR12622**	**$78.95**
16x20	50	3	**OR12623**	**$78.95**
16x20	50	4	**OR12624**	**$78.95**
20x24	10	2	**OR12802**	**$28.95**
20x24	10	3	**OR12803**	**$28.95**
20x24	10	4	**OR12804**	**$28.95**

ORIENTAL SEAGULL N (DOUBLE WEIGHT)

Size	Qty	Grade	Cat. No.	Price
8x10	25	2	**OR22212**	**$10.95**
8x10	25	3	**OR22213**	**$10.95**
8x10	100	2	**OR22242**	**$38.95**
8x10	100	3	**OR22243**	**$38.95**
11x14	10	2	**OR22402**	**$9.10**
11x14	10	3	**OR22403**	**$9.10**
11x14	50	2	**OR22422**	**$34.00**
11x14	50	3	**OR22423**	**$34.00**
16x20	10	2	**OR22602**	**$18.60**
16x20	10	3	**OR22603**	**$18.60**

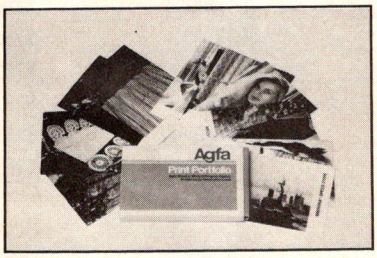
AGFA BLACK AND WHITE PAPER

AGFA BROVIRA

Characterized by a fast bromide emulsion. Brovira produces crisp, radiant whites and cool, silver-rich blacks. Its long exposure and development latitude offers an expanded tonal range. Plus, Brovira's range of five grades provides the sophisticated photographer with the versatility to print negatives of extreme over-and-under exposures.

AGFA PORTRIGA RAPID

Produces warm tone, cream base-tint prints with a subtle sheen finish. Characterized by a fast chlorobromide emulsion and high silver saturation. From glistening whites to deep shadows, Portriga-Rapid's velvet translucence gives photographs a timeless expression and an innocent sensuality. Available in glossy (#111) or fine grain semi-matte (#118) surfaces.



Free Agfa Print Portfolio*
Purchase any size or quantity of Agfa Black and White Enlarging Paper and receive a FREE Agfa Print Portfolio. This practical sample kit contains 15 original prints depicting Agfa's wide assortment of papers and print surfaces. See the difference between cold-tone Brovira and warm-tone Portiga-Rapid, between Portiga-Rapid 111 and Portiga-Rapid 118, between single weight and double-weight. Each packet also contains a detailed description of Agfa's papers, films and chemistry. *Portfolios available in limited quantities.

AGFA BROVIRA 111 (DOUBLE WEIGHT)

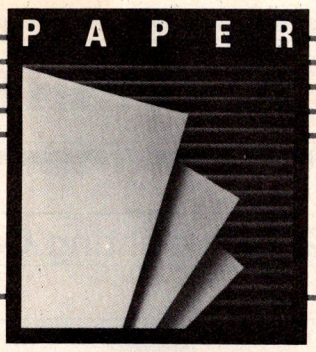
Size	Qty.	Grade	Cat. No.	Price
8×10	25	1	**AG12211**	**$ 9.95**
8×10	25	2	**AG12212**	**$ 9.95**
8×10	25	3	**AG12213**	**$ 9.95**
8×10	25	4	**AG12214**	**$ 9.95**
8×10	25	5	**AG12215**	**$ 9.95**
8×10	100	2	**AG12242**	**$32.95**
8×10	100	3	**AG12243**	**$32.95**
11×14	10	2	**AG12402**	**$ 8.30**
11×14	10	3	**AG12403**	**$ 8.30**
11×14	50	2	**AG12422**	**$32.50**
11×14	50	3	**AG12423**	**$32.50**
16×20	10	2	**AG12602**	**$16.90**
16×20	10	3	**AG12603**	**$16.90**
16×20	50	2	**AG12622**	**$71.95**
16×20	50	3	**AG12623**	**$71.95**
20×24	10	2	**AG12802**	**$24.95**
20×24	10	3	**AG12803**	**$24.95**
20×24	10	4	**AG12804**	**$24.95**

AGFA PORTRIGA RAPID 111 (DOUBLE WEIGHT)

Size	Qty.	Grade	Cat. No.	Price
8×10	25	1	**AG22211**	**$10.60**
8×10	25	2	**AG22212**	**$10.60**
8×10	25	3	**AG22213**	**$10.60**
8×10	100	2	**AG22242**	**$36.95**
8×10	100	3	**AG22243**	**$36.95**
11×14	10	2	**AG22402**	**$ 8.60**
11×14	10	3	**AG22403**	**$ 8.60**
11×14	50	2	**AG22422**	**$35.50**
11×14	50	3	**AG22423**	**$35.50**
16×20	10	2	**AG22602**	**$17.60**
16×20	10	3	**AG22603**	**$17.60**

AGFA PORTRIGA RAPID 118 (DOUBLE WEIGHT)

Size	Qty.	Grade	Cat. No.	Price
8×10	25	1	**AG24211**	**$10.60**
8×10	25	2	**AG24212**	**$10.60**
8×10	25	3	**AG24213**	**$10.60**
8×10	100	2	**AG24242**	**$36.95**
8×10	100	3	**AG24243**	**$36.95**
11×14	10	2	**AG24402**	**$ 8.60**
11×14	10	3	**AG24403**	**$ 8.60**
11×14	50	2	**AG24422**	**$35.50**
11×14	50	3	**AG24423**	**$35.50**
16×20	10	2	**AG24602**	**$17.60**
16×20	10	3	**AG24603**	**$17.60**



ILFORD BLACK AND WHITE PAPER

ILFORD GALERIE

Galerie produces an elegant, natural white and neutral black image color, with excellent tonal reproduction. Its high maximum density gives deep, rich blacks as well as excellent tonal separation in the shadow areas. Galerie has a high quality, baryta coated paper base and is now available in four grades. Its 1K glossy surface gives a high quality smooth finish when air dryed.

ILFOSPEED MULTIGRADE II

This versatile, variable contrast, resin-coated (RC) paper offers 11 half-grade contrast steps when used with the Ilford Multigrade II Filter set. The variable contrast emulsion allows low, medium and high contrast negatives to be printed from one box of paper, and features a simplified, less complicated exposure calculation system when changing filters. Multigrade II is designed so that prints can be made from negatives of normal contrast without filtration. This midweight, polyethylene-laminated paper has a neutral black image color and pure white base.

ILFOSPEED MULTIGRADE II FILTER SET

This set is comprised of 11 filters, gelatin coated on a polyester base specifically designed for Ilfospeed Multigrade II paper. These filters offer 11, one-half grade contrast steps. The whole number filters correspond approximately to the grades on the graded paper scale; the half number filters offer additional flexibility of ½ grades when required. Ilfospeed Multigrade II Filters are made of a high optical standard, which allows the user to focus the negative prior to inserting the filter. A simplified exposure calculation makes these filters easy to use when changing from one filter to another.

IL0050 . . . . . **$35.95**

Free 8 × 10 Archival Print Storage Box*

Purchase any 100 sheet box of 8 × 10 Ilford Paper, or larger, and receive FREE 8 × 10 Archival Print Storage Boxes. Limit one box per order.

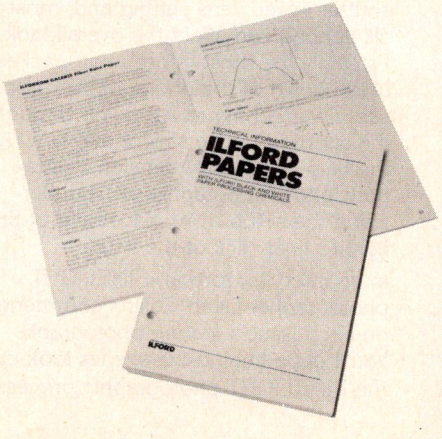
*Boxes available in limited quantities—order soon.

ILFORD GALERIE 1K (DOUBLE WEIGHT)

Size	Qty.	Grade	Cat. No.	Price
8×10	25	1	**IL11211**	**$13.50**
8×10	25	2	**IL11212**	**$13.50**
8×10	25	3	**IL11213**	**$13.50**
8×10	25	4	**IL11214**	**$13.50**
8×10	100	2	**IL11242**	**$46.90**
8×10	100	3	**IL11243**	**$46.90**
11×14	10	1	**IL11401**	**$10.80**
11×14	10	2	**IL11402**	**$10.80**
11×14	10	3	**IL11403**	**$10.80**
11×14	10	4	**IL11404**	**$10.80**
11×14	50	2	**IL11422**	**$45.10**
11×14	50	3	**IL11423**	**$45.10**
16×20	10	1	**IL11601**	**$21.80**
16×20	10	2	**IL11602**	**$21.80**
16×20	10	3	**IL11603**	**$21.80**
16×20	10	4	**IL11604**	**$21.80**
16×20	50	2	**IL11622**	**$92.00**
16×20	50	3	**IL11623**	**$92.00**
20×24	10	2	**IL11802**	**$33.80**
20×24	10	3	**IL11803**	**$33.80**
20 24	10	4	**IL11804**	**$33.80**

ILFORD MULTIGRADE II IMRC GLOSSY

Size	Qty	Cat. No.	Price
8×10	100	**IL21240**	**$30.00**
8×10	250	**IL21250**	**$63.50**
11×14	10	**IL21400**	**$ 6.90**
11×14	50	**IL21420**	**$29.00**
16×20	10	**IL21600**	**$14.50**
16×20	50	**IL21620**	**$61.00**

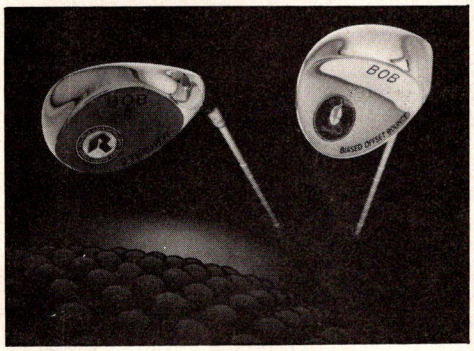


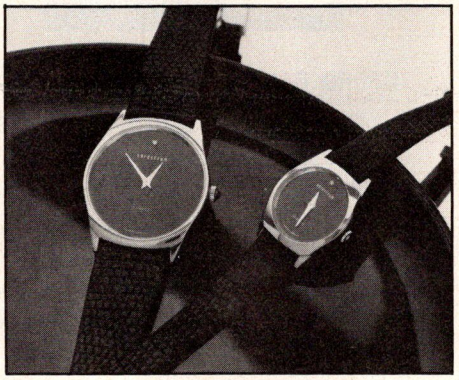
Free Ilford Paper Technical Manual

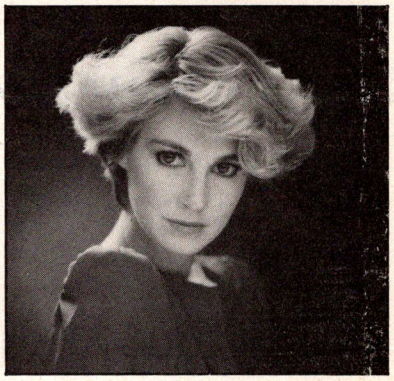
Receive a free copy of Ilford's 55 page "Ilford Papers: Technical Information" booklet with the purchase of $100 or more of any Ilford Paper. This detailed manual offers pertinant technical data and descriptions of Ilford's complete line of black and white enlarging papers, including Ilfospeed Multigrade II and Ilfobrom Galerie. Included are characteristic curves, paper contrast scales, and special sensitivity charts, as well as detailed instructions for archival processing procedures, toning, mounting and storage. This booklet is free while quantities last.

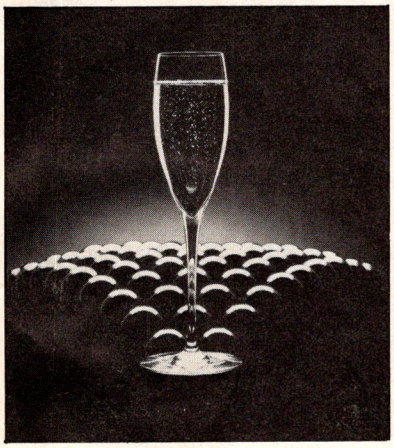
FINELIGHT

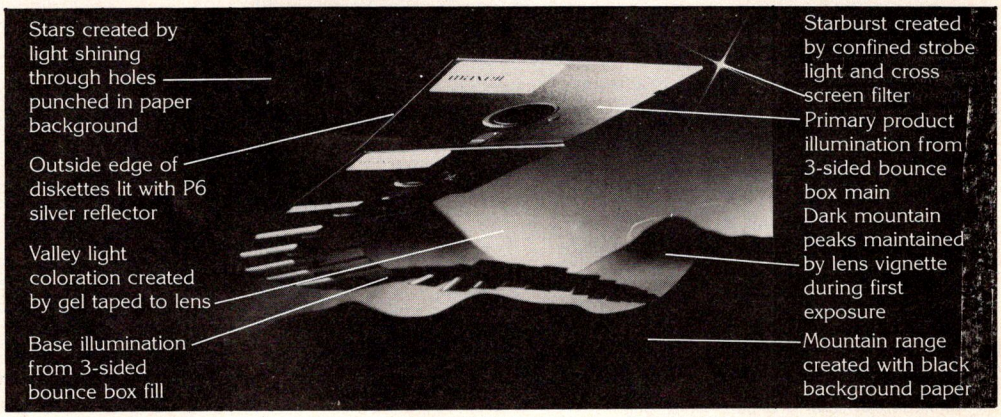
A 12 Part Lighting Course











FINELIGHT is a monthly publication designed to educate the reader on professional lighting techniques, covering situations ranging from outdoor portraiture to complex studio product photography. The reproduction quality of each four-color issue is truly exceptional. This publication actually gives you a formula for taking creative photographs. Among the data included are measurements of light in Watt-Seconds, meter readings, camera settings, building and lighting sets along with step-by-step explanations on how the shot was conceived and recorded.

FINELIGHT's creative research team illustrates improved methods of lighting and explores new approaches to photography through the evolution of each month's feature photograph. Even experienced professionals will discover that FINELIGHT has the most concise information on photographic lighting available.

As a Finelight subscriber, each month you will receive a new publication which will detail the techniques used to produce a feature photograph

Using a series of four to six color Polaroid® "checks," the feature photograph is shown at various stages of its lighting evolution. Polaroid® checks are also used to illustrate how changes in shutter speed, lens setting and, most of all, lighting can affect the overall look. Probably the most information-packed break down of the photographic process, *The Technique* walks you through the shoot in twelve simple steps. With the help of carefully detailed illustrations and photographs, you'll understand the setup from placement of first light to final click of the shutter.

In an interview format, FINELIGHT photographer Dean Collins comments on each issue's feature photograph. You'll get a behind-the-scenes look at the FINELIGHT photographic process and learn of the problems encountered and the steps taken to solve them. A three-dimensional drawing provides an uncluttered, overall look at the final setup and shows position of light control systems. Camera, background, lighting devices and subject are shown proportionately and in relationship to one another. *The View* is followed by a summary of the technical data used to create each photograph providing you with a quick and easy reference to this essential information.

The 1985 FINELIGHT series began in January. However if you order the series anytime during the year you will receive all previously published issues for 1985. We feel that you will find FINELIGHT to be an extremely worthwhile learning experience and an exceptional value.

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Catalog, Price List and Printed Material

We have made every effort to assure the accuracy of all information in the PHOTOGRAPHER'S CATALOG. However, we reserve the right to correct any errors whether in pricing, description, specification, etc. All prices and specifications are subject to change without notice. Some prices may be subject to quantities on hand and availability.

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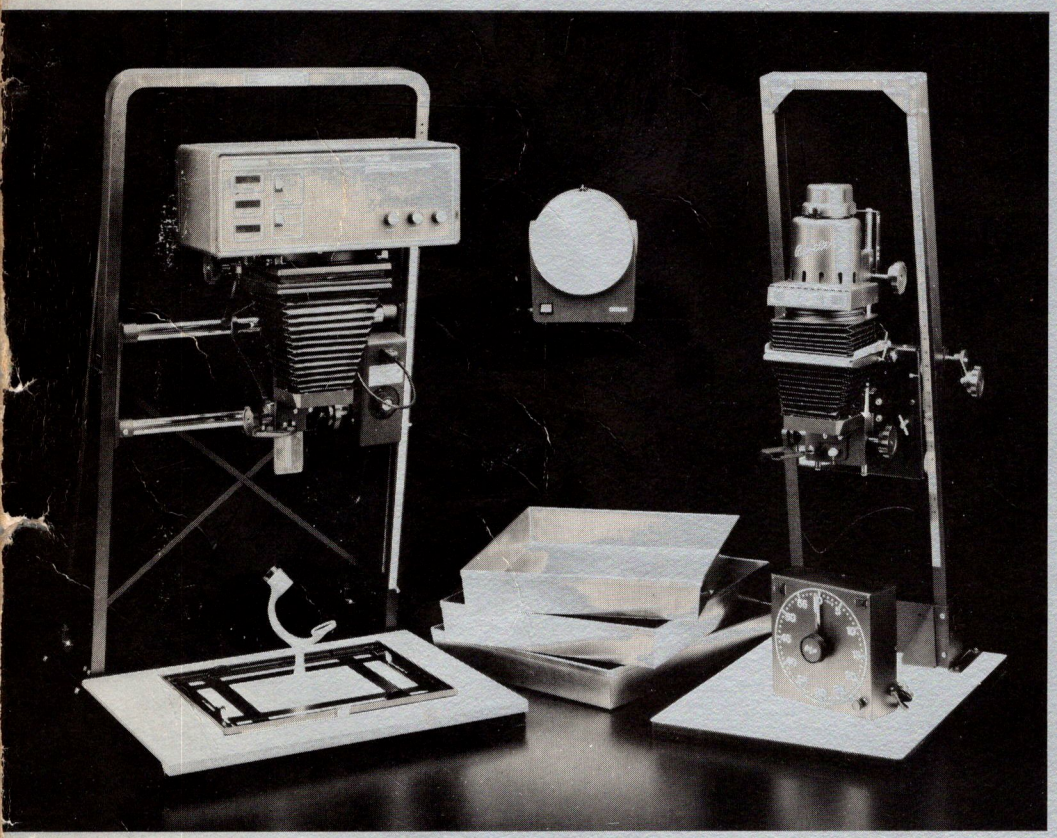

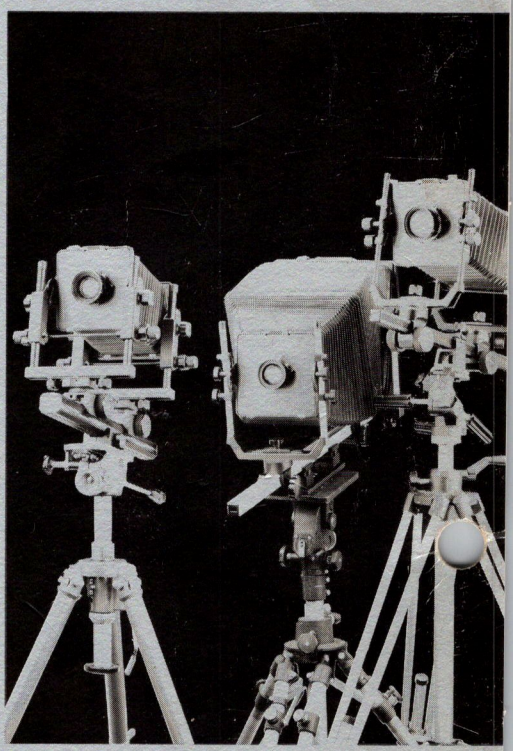

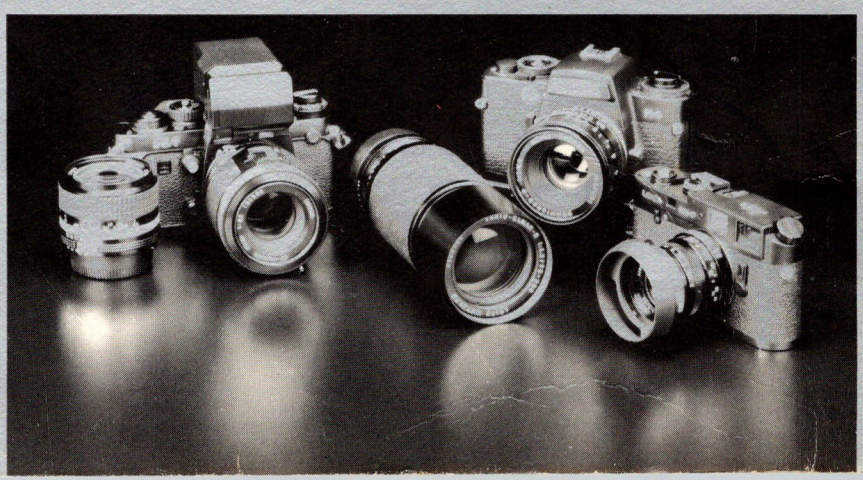

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