

Stuart
Gordon

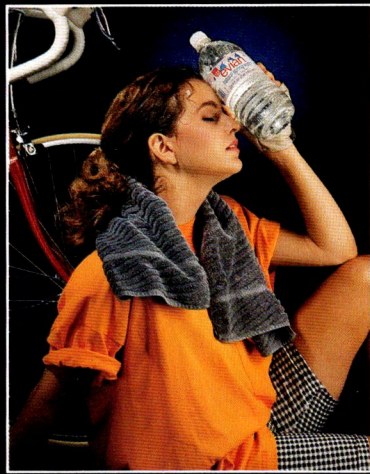


QUAD / PHOTO

Measured
photography:

- Quality
- Creativity
- Predictability

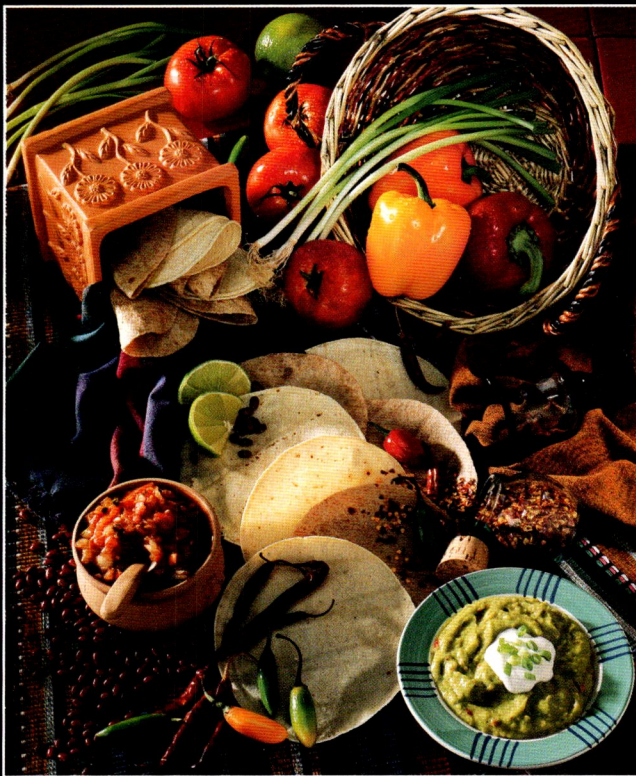
Cover photo by:
Jeff Koser



David Hermann



David Hermann / Christopher Zweifel



Scott Smetana



Christopher Zweifel



Scott Smetana

Designed, Photographed, Separated and Printed by Quad/Graphics Inc.

Our outside and inside front covers this year were created by Quad/Graphics of Pewaukee, WI. Gino Alfano, manager of the Quad/Photo division and Cal Newby, Manager of Prepress, talk about the success they have had using measured photography.

Quad/Photo was started five years ago to address many of the issues that printers today have problems with: meeting quality, meeting the expectations of clients from start to finish. In 1986, Cal Newby heard Sinar chairman Hans Carl Koch talk about the new methods used to help relate light values to density values — i.e. terms used by photographers to terms used by printers. We thought there might be some kind of link, even though photographers and separators or printers usually don't talk to each other.

We started talking to photographers, first in the Milwaukee area and then around the country and he found it hard to convince photographers of the value of this method. They really didn't know what we were talking about, and they were not listening. They did not believe in it. We decided it was time to do it ourselves.

Any photographer can take a pretty picture - but can it separate? Any separator can separate a beautiful transparency - but can it print? Don't forget that our clients do not show transparencies to their customers; they show catalogs and brochures. Their sales often depend on the quality of their product represented on the printed page, and that's the bottom line. By using measured photography, we can duplicate as closely as possible what you see in the transparency on the printed page. Using the whole range of the film but knowing where to put a dot to get detail in the highlight and where to put the dot to get the detail in the shadow area, that is what we call measured photography.

For instance, the cover shot was selected to show that photography can be very creative and can be taken right to the edge. In this example our brightest highlights with detail are still within a range of +2 stops from the midtone. (See page 26 for a step-by-step introduction to measured photography.) We allow the image to go to solid black in

areas where we know it can be black so that our type can be reversed. Anything else will be falling within the range that can be faithfully reproduced on press. We knew all this before we went to press because we measured everything right at the film plane, to be sure of what the picture would look like. Because we knew the exact relationship between our midtone, highlight and shadow, we could communicate this information to the separator so he

By using measured photography, we can reproduce what you see in the transparency as closely as possible on the printed page.

would know how to separate the transparency to get exactly the results we want. This way we can get things right the first time, instead of having to make changes at the separator where it is more costly.

We used a 4x5 Sinar p2 camera with a sinaron 210mm lens on a Foba stand, lit with a Broncolor Hazylight. We also added some painting with light, which can be measured as well. At Quad/Photo we will not use anything but Sinar cameras or Broncolor lighting equipment — not because it's the "Cadillac" of photo equipment but because it can

do the job. With the lighting, we can control it in 1/10 f-stops; we find that tenths make a big difference, especially in helping to precisely control highlight areas.

Since we began Quad/Photo, we've grown from one photographer in a 1,000 square foot space to six photographers plus some freelancers in a 6,000 square foot full-cyc studio. We're pretty unique in that this is the only studio of this size to be housed in a printing plant and incorporated into the whole system.

Ultimately, our customers get the benefits not only of Quad/Graphics' system approach but also our team approach. Our art directors, photographers, separators and printers are trained to understand each other's roles in the total print production process. Measured photography has made us accountable. When we're accountable, we're forced to get better.

Several years ago Sinar proposed the idea of measured photography for reproduction, but Quad was the first printing company to put the theory to practical testing and prove that it works. Now more and more large studios are coming to the same conclusion, because it *does* work.

White, min. highlight detail	50% Grey	Black, min shadow detail	Detailless black
+2, 0.0	+1, 0.2	-1, 0.5	-2, 1.0
-2, 0.1	+1, 0.3	-1, 0.7	-2, 1.3
			-2, 1.6
			-2, 1.9

Below left: Our cover image with important exposure points indicated for the color separator.
Below: Quad/Photo's manager, Gino Alfano.

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sinar

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broncolor

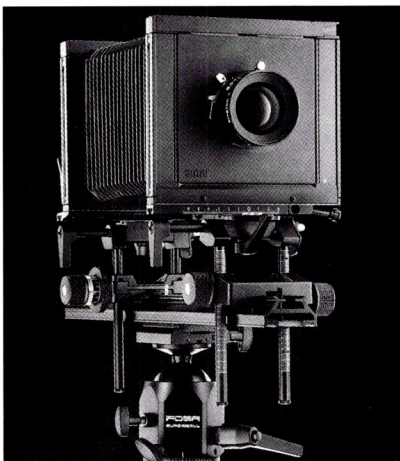
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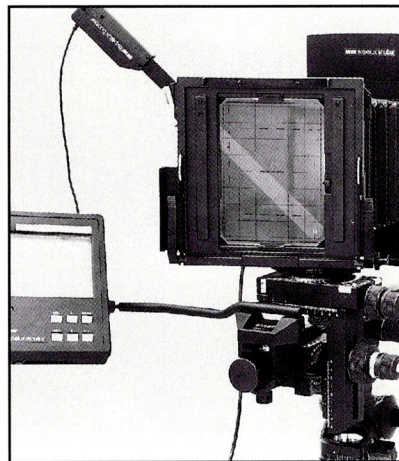
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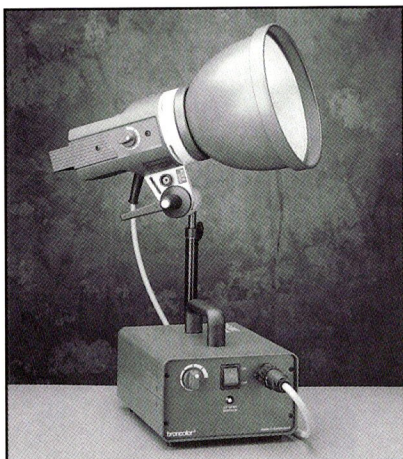
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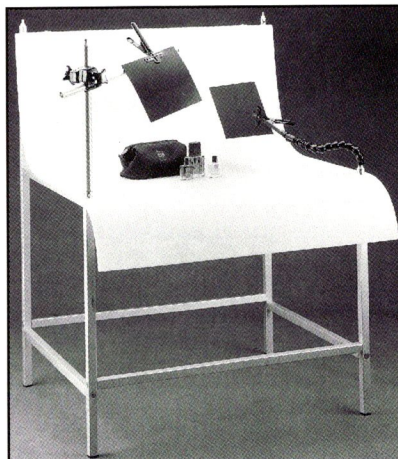
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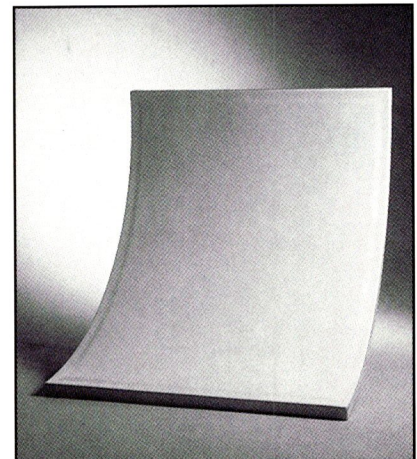
Prices valid as of February 15, 1993.



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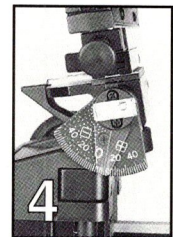
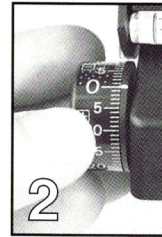
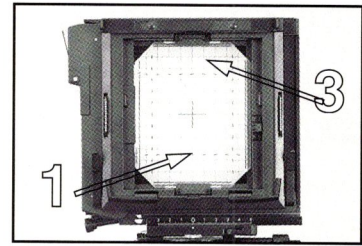
3 1/2' Radius Pro Cyc, Page 100

All Sinar view cameras are designed to eliminate the guesswork from setting swings, tilts and depth of field. With Sinar, it's as easy as 1,2,3!

a1/f1/f2

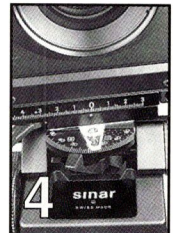
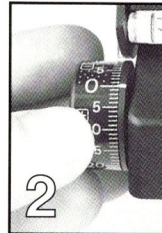
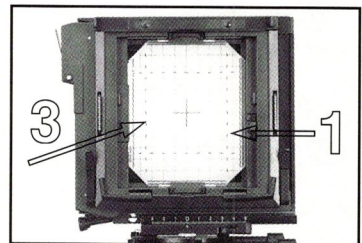
1 TILTS

1. **Focus** on the bottom horizontal dotted line on the groundglass.
2. **Zero** the angle calculator on the left side of the rear standard by turning it until the 0 lines up with the white mark.
3. **Focus** on the top horizontal dotted line on the groundglass, using the fine focus on the rear standard. The angle calculator will automatically indicate the required degree of tilt.
4. **Set** the front standard tilt to the angle indicated on the dial.
5. **Adjust** focus if needed.



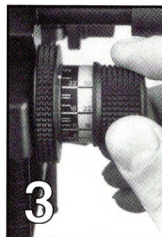
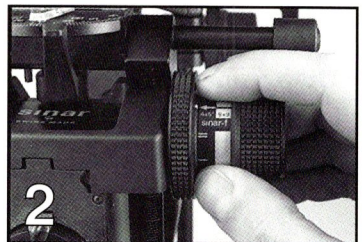
2 SWINGS

1. **Focus** on the right-hand vertical dotted line on the groundglass.
2. **Zero** the angle calculator on the left side of the rear standard by turning it until the 0 lines up with the white mark.
3. **Focus** on the left-hand horizontal dotted line on the groundglass, using the fine focus on the rear standard. The angle calculator will automatically indicate the required degree of swing.
4. **Set** the front standard swing to the angle indicated on the dial.
5. **Adjust** focus if needed.



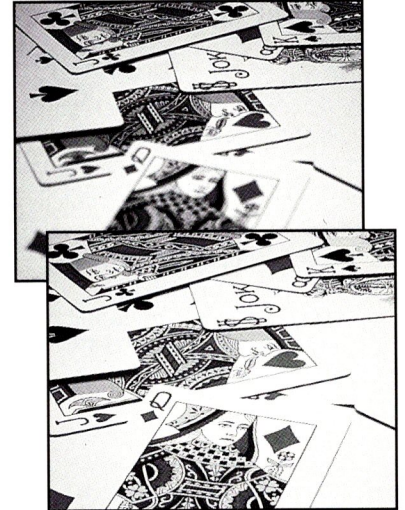
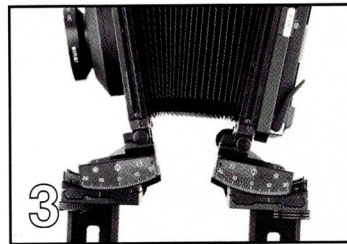
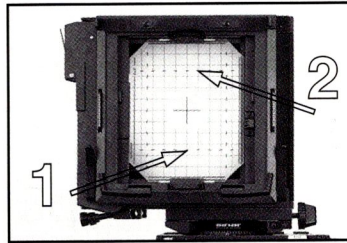
3 DEPTH OF FIELD

1. After setting any swings and tilts, **Focus** on the farthest point you want to keep in focus.
2. **Set** the depth of field scale to the zero point by lining up the arrow on the scale with the white dot on the camera. Turn the scale only, not the focusing knob.
3. **Focus** on the nearest point you want to keep in focus, using only the fine focusing drive on the rear standard.
4. **Set** your aperture to the f/stop indicated on the depth of field scale.
5. **Turn** the rear fine focus knob back until the depth scale reads half your working f/stop (for example, from f/22 you would turn back to f/11). You are now focused at the optimum point for that depth of field.

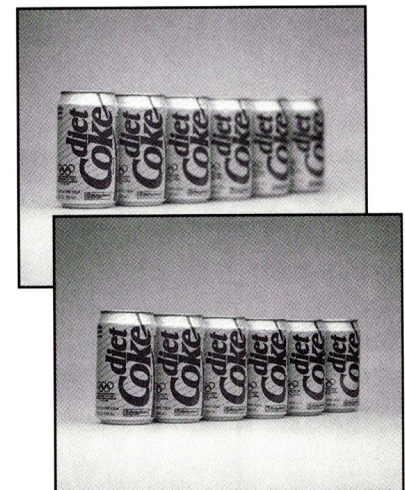
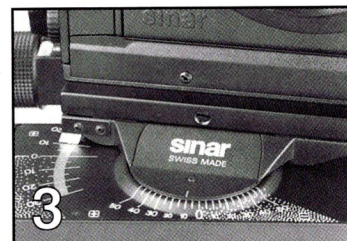
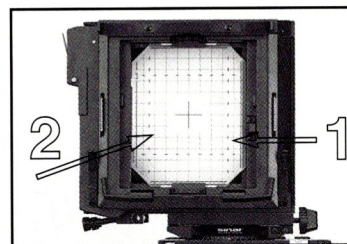


Sinar p2

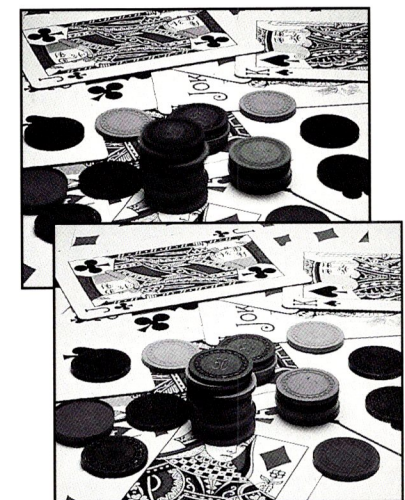
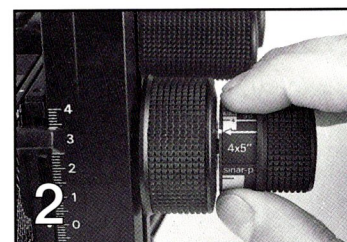
1. **Focus** on the bottom horizontal dotted line on the groundglass.
2. **Tilt** the rear standard until the image is sharp at the top dotted line.
3. **Transfer** the tilt angle to the front standard; ie. if your rear standard reads +5 degrees, set a tilt of +5 on the front standard. Note that the front standard will move in the opposite direction from the rear standard.
4. **Reset** the rear standard tilt to zero.
5. **Adjust** focus if needed.



1. **Focus** on the right-hand vertical dotted line on the groundglass.
2. **Swing** the rear standard until the image is sharp at the left-hand dotted line.
3. **Transfer** the swing angle to the front standard; ie. if your rear standard reads -7 degrees, set a swing of -7 on the front standard. Note that the front standard will move in the opposite direction from the rear standard.
4. **Reset** the rear standard swing to zero.
5. **Adjust** focus if needed.



1. After setting any swings and tilts, **Focus** on the farthest point you want to keep in focus.
2. **Set** the depth of field scale to the zero point by lining up the arrow on the scale with the white dot on the camera. Turn the scale only, not the focusing knob.
3. **Focus** on the nearest point you want to keep in focus, using only the fine focusing drive on the rear standard.
4. **Set** your aperture to the f/stop indicated on the depth of field scale.
5. **Turn** the rear fine focus knob back until the depth scale reads half your working f/stop (for example, from f/22 you would turn back to f/11). You are now focused at the optimum point for that depth of field.



SINAR a1 View Camera

Sinar a1 4x5

The new Sinar a1 is the most economical way to get started in the Sinar system. Despite its light weight and low cost, the a1 shares many of the unique features of the other Sinar cameras plus a few of its own, including:

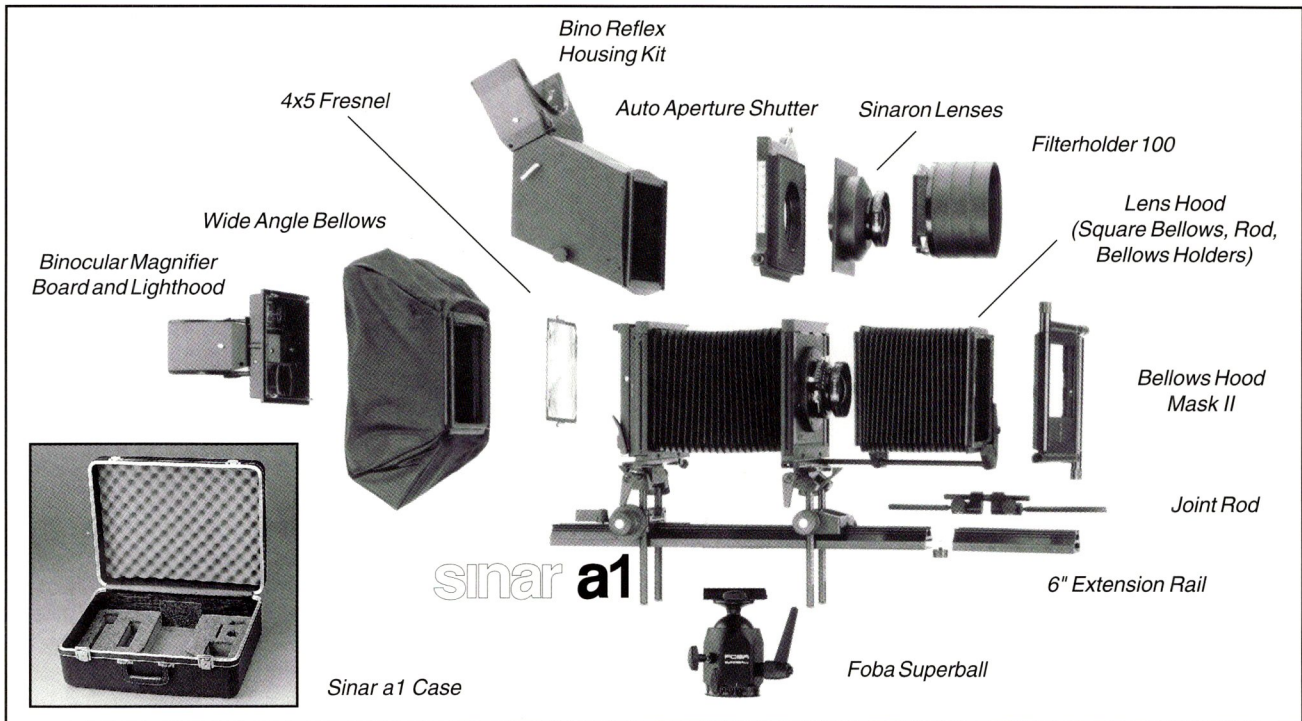
- Precision two-point focusing
- Built-in depth of field calculation
- Yaw-free movements
- Sinar system compatibility
- Includes hard case (\$99 value)
- Built-in 1/4 and 3/8 tripod sockets

The Sinar a1 is compatible with most Sinar system accessories, including automatic shutters, Sinaron lenses, film plane meters, Color Control filters, hoods, masks, rollfilm holders and more.

Of course, as your needs grow, we want to make sure your equipment will grow with you. At any time within 4 years after you purchase your Sinar a1, you can trade up to a Sinar f1, f2, c2 or p2 and we will credit you the full purchase price of your camera.

Maximum Extension: 19"
 Minimum Extension: 1.5"
 Standard Rail: 19"
 Weight: 6.75 lbs.

20-1001 \$849.00



SINAR f View Cameras

The Sinar f1/f2 view cameras give you an economical start in the Sinar system while outperforming any other camera in their class. A unique combination of features gives you unprecedented working speed and precision, but the f1 and f2 are still lightweight and compact enough to take with you on location.

- **Patented 2-point focusing** lets you calculate exact swings and tilts in seconds . . . with no guesswork!
- **Depth-of-field scale** helps you determine the optimum f-stop for your image — no more excessive stopping down, no guessing, no wasted test shots.
- **Full Sinar System compatibility** means you can add fully automatic shutters and film plane metering for even greater speed and precision. It also gives you access to the wide range of Sinar accessories.
- **Geared fine focus** combined with sliding coarse focus gives you the best combination of speed and precision.
- **True yaw-free movements** mean that verticals stay vertical in every situation.
- **Zero detents** on swing, tilt, rise and shift movements.
- **Infinitely extendable monorail** lets you shoot with complete stability no matter what your camera extension.
- **Fully upgradable** to larger formats or more sophisticated camera models, all camera components remain fully integrated into the system.



SINAR f1 4x5 View Camera

The SINAR f1 camera features rear standard with cylindrical angle calculator, depth of field scale, p2 style knobs, right hand operation, and 1/4 turn vertical shift lock. The front standard has an open clamp which makes it the ideal multipurpose standard if the f camera is upgraded to an f2 or a p2 model.

Maximum Extension with
Standard Bellows: 19"
Minimum Extension: 1.5"
Standard Rail: 12"
Weight: 7 lbs.

21-1005 \$1350.00

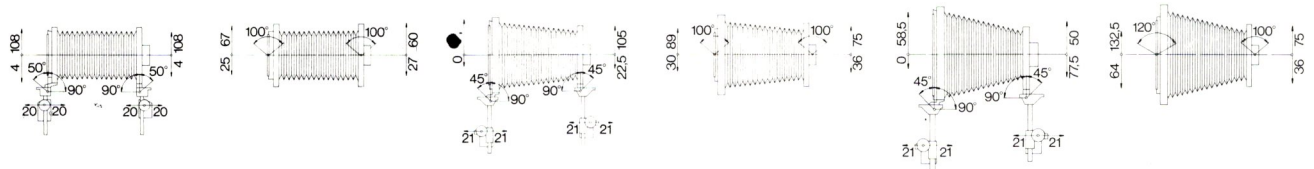
SINAR f2 4x5 View Camera

There are a few basic differences between the f1 and the f2. The f2 features an enclosed rail clamp on the front standard for greater stability. The front standard also has fine focus capability. The f2 comes equipped with a metering back to allow you to use film plane metering probes. Also, the swing and shift locks are separate on the f2, and feature a more positive locking mechanism for even easier operation.

Maximum Extension with
Standard Bellows: 19"
Minimum Extension: 1.5"
Standard Rail: 12"
Weight: 8 lbs.

21-1007 \$1990.00

*Lenses &
Lensboards*
See pages 30-34



SINAR Image Kits

For the photographer on the go SINAR offers the a1, f1 and f2 Image Kits. These kits are available with either the a1, f1 or the f2 4x5 camera and your choice of a 150 or 210mm **sinaron** lens.

The Image Kit can easily be used for studio, architecture or even landscape photography, all in one easily transportable case.

The Image Kit comes in a very handy briefcase-styled case, which fits in most airline overhead bins. Besides the camera and Image Kit accessories, the Image Case has room enough to store a Polaroid 545 holder, an extra 6" extension rail and 6 sheet film holders.

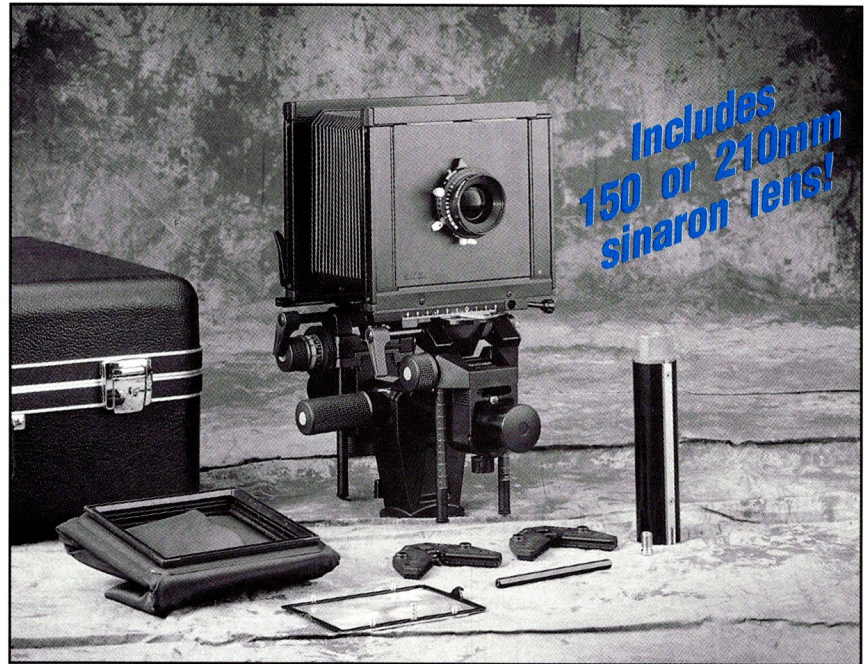


Image Kit Accessories

- 150 or 210mm high performance **sinaron** f5.6 Copal lens
- 6" Extension Rail (built in to a1)
- 4x5 Wide Angle Bellows
- Bellows Holder (2)
- 4x5 Fresnel
- Filter Rod
- Reducing Bushing (built in to a1)
- f1/f2 Image Case or a1 Case

SINAR a1 150mm Image Kit
20-1150\$1695.00

SINAR a1 210mm Image Kit
20-1210\$1895.00

SINAR f1 150mm Image Kit
21-5008\$2450.00

SINAR f1 210mm Image Kit
21-5012\$2650.00

SINAR f2 150mm Image Kit
21-5009\$2995.00

SINAR f2 210mm Image Kit
21-5013\$3195.00

Save up to \$392 over buying components individually!

Save up to \$425 over buying components individually!

Workshops

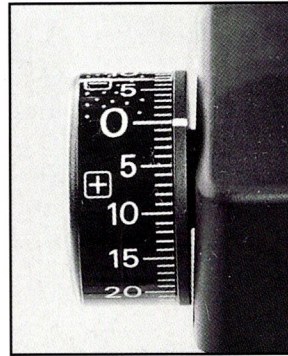
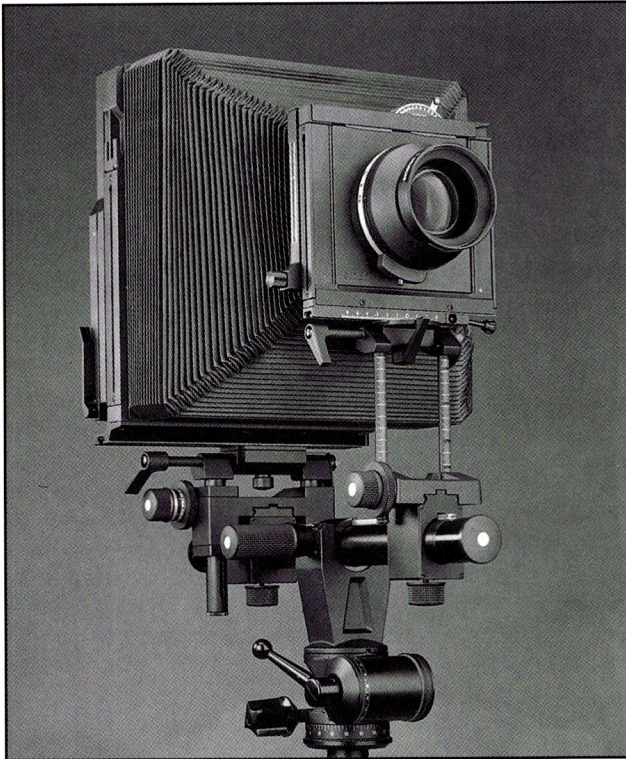
Our 4½ day Sinar view camera workshops are held throughout 1993.

Want to know more?
See pg. 104 for info,
or contact the
Workshop Coordinator.

(800) 456-0203



SINAR f1 8x10 View Camera



With SINAR's angle meter scale both swings and tilts are calculated quickly and precisely — no guesswork, no excessive stopping-down.

SINAR f1 8x10 View Camera

In addition to all the other features of the f-series cameras, the f1 8x10 also includes spring-loaded rise and fall on the rear standard and an f2 front standard.

- Maximum Extension
With Standard Bellows: 26"
- Minimum Extension: 2"
- Standard Rail: 12"
- Weight: 16.75 lb.

21-1002 \$3290.00

SINAR c2 View Cameras

The SINAR c2 (Combination) camera gives you the precision of the p2's micrometer-driven settings with the light weight and lower cost of the f2 camera.

The c2 takes advantage of SINAR system flexibility by combining the rear standard of the p2 with the front standard of the f2. You can use the asymmetric movements on the p2 rear standard to precisely determine swing and tilt angles, which you then set on the f2 front standard.

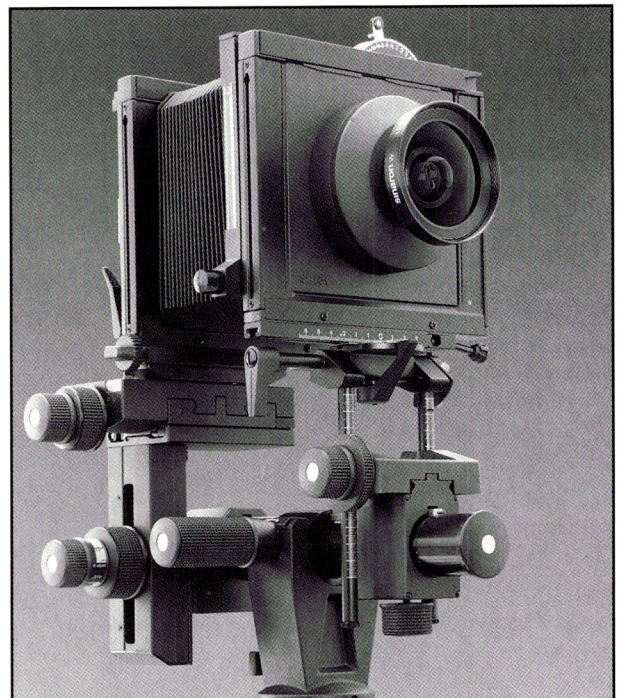
You can easily upgrade the c2 to a full p2 by adding a p2 front standard. The original f2 standard can then function as a multipurpose standard for use as part of a compendium lens shade or an intermediate bellows support.

SINAR c2 4x5 View Camera

The SINAR c2 camera features the p2 rear standard with asymmetric swings and tilts and depth of field scale. The f2 front standard features an enclosed front rail clamp and fine-focusing drive.

- Maximum Extension With Standard Bellows: 19"
- Minimum Extension: 2"
- Standard Rail: 12"
- Weight: 10.5 lb.

21-3301 \$4650.00



SINAR p2 View Cameras

When p stands for perfection you could only be talking about the SINAR p2, a camera truly in a class by itself.

- **The p2 is based on asymmetric tilts and swings**, not the traditional center or base tilts. This means rapid and precise settings, without ever losing sharpness on the axis.
- **You can calculate exact swings and tilts in seconds** using the asymmetric movements and measuring scales. You won't have to guess at your movements anymore, and it's fast — very fast.
- **All p2 movements are gear-driven.**
- **The p2's precision micrometer drives are smooth and self-arresting.** Once a movement is set, it stays - no more wrestling with locking knobs.
- **Depth of field calculator** tells you exactly how much depth of field you need for your image, so you can eliminate excessive stopping down forever.
- **Professional photographers have long appreciated the quality and value of the SINAR line of view cameras.** When you purchase a SINAR view camera you are not only purchasing many of the exclusive SINAR features, but also over 40 years of experience in large format, as well as complete system interchangeability.
- **Now includes the Rail Clamp 2 for added stability.**



Precision Micrometer Drives

SINAR p2 4x5 View Camera

Equipped with SINAR p2 front standard, SINAR p2 rear standard, 12" basic rail unit, rail clamp 2, bellows, metering back, ground glass and plate-holder for 4x5 format.

- Maximum Extension
With Standard Bellows: 18"
- Minimum Extension: 1.5"
- Standard Rail: 12"
- Weight: 13 lb.

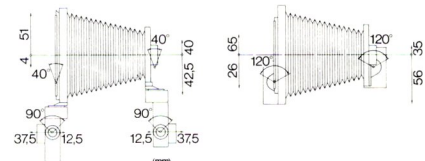
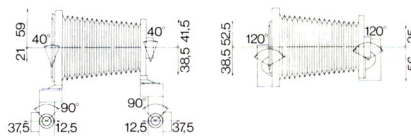
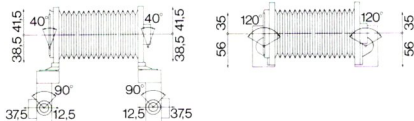
21-2201\$6490.00

SINAR p2 5x7 View Camera

The SINAR p2 5x7 comes complete with the SINAR p2 front and rear standards, 12" basic rail, rail clamp 2, 5x7 tapered bellows, 5x7 metering back and plate holder.

- Maximum Extension
With Standard Bellows: 18"
- Minimum Extension: 1.5"
- Standard Rail : 12"
- Weight: 15 lb.

21-2202\$7790.00



SINAR p2 View Cameras

View Cameras
Sinar



SINAR p2 8x10 View Camera

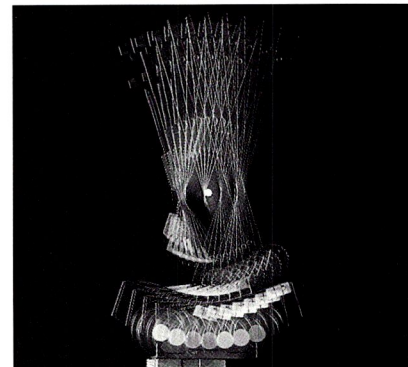
Comes equipped with special 8x10 front and rear standard bearers, 12" basic rail, tapered bellows, metering back, ground glass and plateholder for 8x10.

- Maximum Extension
With Standard Bellows: 28"
- Minimum Extension: 2"
- Standard Rail: 12"
- Weight: 18 lb.

21-2203 \$9090.00



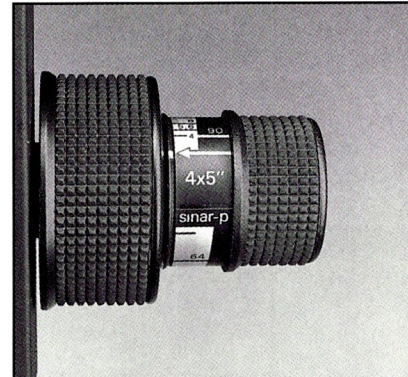
Special T- shaped standard



Asymmetric Tilts and Swings

sinar p2 8x10

23-2209 23-2206 23-1916 23-1919 23-3008 21-2203



Depth-of-Field control

SINAR Pro Kits



If you are looking for a complete package that includes not only the camera but a shutter, lenses, wide angle bellows and more, this is the kit for you.

The SINAR Pro Kit offers the professional photographer a complete ready-to-go system in one small case. If this is your first move into large format or even if it is an additional camera for an already busy studio, this outfit offers virtually everything you need.

The lenses offered with this kit are the **sinaron** lens series. These lenses have quickly become known worldwide for their superior quality and performance in view camera optics.

Pro Kit Accessories

- 18" Extension Rail (8x10)
- 6" Extension Rail (4x5)
- Auto Aperture Shutter
- Wide Angle Bellows (format)
- Fresnel Lens (format)
- Reducing Bushing
- Camera/Accessory Case (4x5)
- Expert Case (8x10)
- 1 or 2 Lenses (format)
- For 4x5: 210mm f/5.6 **sinaron**
90mm f/6.8 **sinaron**
- For 8x10: 300mm f/5.6 **sinaron**

SINAR p2 Pro Kit 4x5

Equipped with a SINAR p2 4x5 view camera and all Pro Kit accessories plus a **sinaron-n** DB 210mm f/5.6 lens, and a **sinaron-w** DB 90mm f/6.8 lens.
21-5003 **\$10895.00**

SINAR p2 Pro Kit 8x10

Equipped with a SINAR p2 8x10 view camera and all Pro Kit accessories plus a **sinaron-n** DB 300mm f/5.6 lens.
21-5005 **\$13995.00**

SINAR p2 Expert Camera Kits



For the discriminating photographer SINAR offers the Expert Kits. Both these kits feature the state-of-the-art SINAR p2 camera.

The Expert Kit features a large array of SINAR accessories to complement the p2 camera. The kit is set up for the studio photographer who wants the very best in equipment at his fingertips.

Even if you have to go on the road, this case is ready when you are. Four removable casters allow you to roll the case easily through airports or on location, and it's durable enough to be checked as airline baggage.

SINAR Expert Kit Accessories

- SINAR p2 camera (Format)
- 6" Extension Rail
- 18" Extension Rail
- Multipurpose Standard I
- 4x5 Square Bellows
- Wide Angle Bellows (Format)
- Bellows Holders (2)
- Bellows Hood Mask II
- Fresnel (Selected Format)
- Filter Holder Rod Set (3)
- Binocular Magnifier Board
- Lighthood w/ lightdrop
- Expert Case

Shown with sinaron-s 210mm DB lens, sold separately. See pg. 33.

SINAR p2 4x5 Expert Kit

Equipped with a SINAR p2 4x5 view camera and all Expert accessories.
21-6201 **\$9425.00**

SINAR p2 5x7 Expert Kit

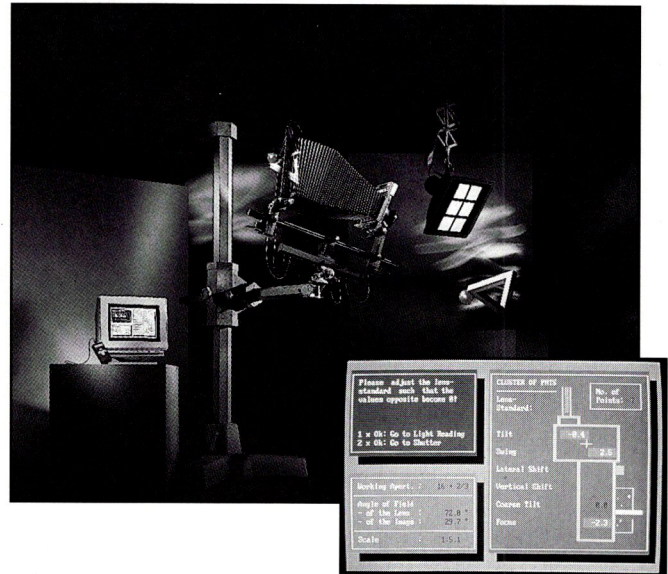
Equipped with a SINAR p2 5x7 view camera and all Expert accessories.
21-6202 **\$10675.00**

SINAR p2 8x10 Expert Kit

Equipped with a SINAR p2 8x10 view camera and all Expert accessories.
21-6203 **\$12350.00**

SINAR e Camera

- **Computer Aided Photography (CAP)** lets you concentrate on the creative aspects of photography while freeing you from many of the technical chores.
- **Very easy to use.** The user-friendly e-camera software guides you step-by-step through the camera movements and exposure for each shot.
- **Automatically calculate swing and tilt angles.** Use the wand to tell the computer which points in your image you want in focus, and the display immediately tells you the how much to adjust your standards for optimum swing, tilt and focus point. It does this faster and more accurately than you could manually, so you get the maximum definition and resolution for every focus point entered. Just a few of the advantages of this function are:
 - Saves time and materials — gets it right the first time.
 - Best possible 3-dimensional sharpness distribution.
 - Shoot at wider f/stops. This requires less flash power, and lens performance is optimized by avoiding smaller apertures.
 - If you decide to change perspective, just set the new angle on your image standard and the display instantly tells you what adjustments are needed on the front standard.
- **The most advanced film plane light metering available,** including
 - Single and multiple point
 - Flash, ambient or mixed light
 - Contrast measurement
 - Comparison points
 - Film reciprocity
 - Convenient on-screen gray scale display.
- **New! Full control of the Expolux electronic shutter** through Sinar e software version 3.0.
- **Highest image quality** — tolerance of ± 0.03 mm when used with the Precision Sheet Film Holder.
- **Ultrasonic sensors** automatically track camera configuration.
- **Fully compatible** with the rest of the SINAR system.
- **Two years** of free software updates.



SINAR e 4x5
21-9002 \$28900.00

SINAR e 8x10
21-9004 \$32900.00

8x10 Format Changing Set
Upgrade your 4x5 e to 8x10 in a matter of seconds. Includes 8x10 SINAR e Metering Back (23-1922), 8x10 Rear Carrier Frame (23-1919) and 8x10 MB Tapered Bellows (23-3008).
23-1904 \$9900.00

4x5 Format Changing Set
Allows you to change your 8x10 e camera to 4x5. Includes 4x5 SINAR e Metering Back (23-1920), 4x5 Rear Carrier Frame (23-2017) and 4x5 Square Bellows (23-3004).
23-1903 \$7900.00

Rail Clamp 2 e
If for reasons of stability (long camera extensions) two rail clamps have to be mounted between the standards, the rail clamp 2 e must be used; a standard rail clamp would interrupt the metering distance.
23-1002 \$1190.00

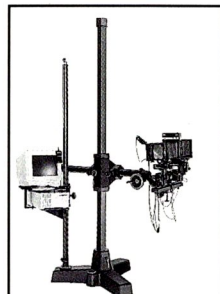
Expolux / e Camera Connecting Cable
22-2014 \$194.00

Flash Interface Cable
For communication between the Digital Shutter and the e.
22-2010 \$120.00

e release cable
Required when using the Digital Shutter with the e.
22-2015 \$120.00

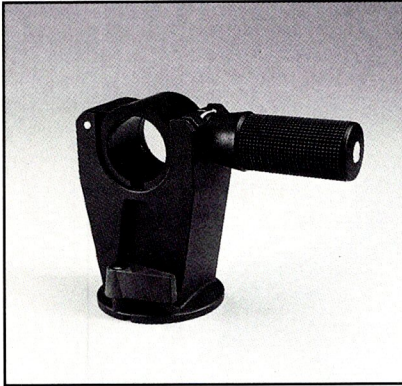
ASINE e Camera Stand

The ASINE is a Foba ASTIO camera stand specially adapted for use with the SINAR e. The stand features a second vertical column to hold the computer and monitor, so they can move around the studio with your e camera. Height of the monitor can be adjusted from 47" to 96", and the computer can be rotated for the best viewing angle. If you already have an ASTIO, you can install a computer column just by drilling a few holes in the base.



31-0180 \$6995.00

Camera Supports



Rail Clamp

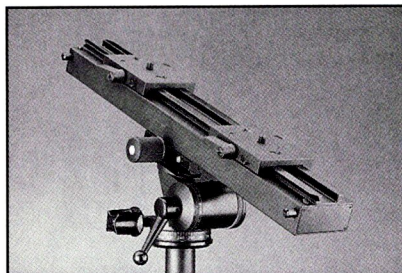
We recommend the use of an additional Rail Clamp and Base Plate (23-1003) with cameras that either have very long bellows extensions or for added support when you are using an 8x10 camera.

23-1001 \$210.00

Rail Clamp 2

The "over the top" clamping mechanism of the Rail Clamp 2 provides added stability for any Sinar view camera.

23-1019 \$590.00



Base Plate 2 Package

Includes everything you need to add extra stability to any Sinar camera.

- | | | |
|---|---------|-----------------------|
| 1 | 23-1016 | Base Plate 2 |
| 1 | 23-1018 | Quick Release Adapter |
| 2 | 23-1017 | Clamping Adapter |

This package requires one additional Rail Clamp (23-1001) or Rail Clamp 2 (23-1019).

23-1116 \$795.00



Pan Tilt Head

The SINAR Pan Tilt Head is designed to maintain the convenient right-hand operation of SINAR cameras. Its compact design makes it more stable than other heads, and its long lever handle is easier to tighten and loosen than traditional twist locks. The camera plate is keyed to SINAR rail clamps for quick camera attachment, and the 360° panoramic base is calibrated for precise positioning.

23-6010 \$589.00

Clamping Adapter Rail Clamp 1/2 to Base Plate 2

One clamping adapter is required for each rail clamp attached to the Base Plate 2.

23-1017 \$180.00

Quick-Release Adapter

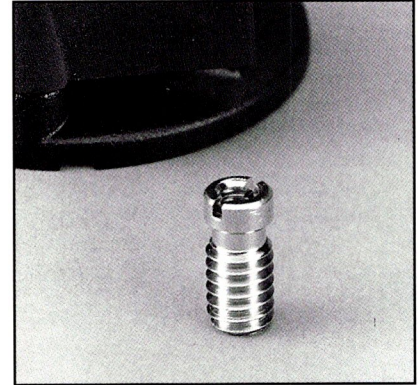
To attach the Base Plate 2 to a Pan-Tilt Head, tripod or camera stand.

23-1018 \$85.00

Accessory Shoe

To mount infrared transmitters or other devices with standard shoe to any SINAR standard.

23-4020 \$50.00



Reducing Bushing 3/8" to 1/4"

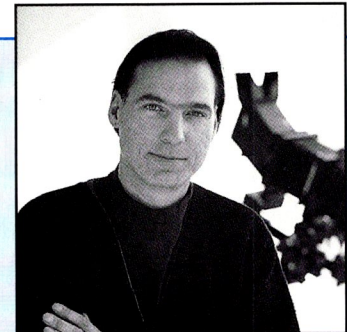
Unlike all other reducing bushings on the market, the SINAR reducing bushing is designed to be installed in the rail clamp from the top down, not from the bottom up. This allows greater security when using the 1/4" thread.

23-6006 \$16.00

Camera Support Platform for p2 Standard

Attaches to the top of the rear p2 standard so that a 35mm camera may be attached to permit micrometer-adjusted movements.

23-6008 \$143.00



The Sinar p2 is an incredible picture machine. I like the way the system is so modular; you can combine different components, and it's very nice how everything fits together. It's very European that way.

— *Henrik Kam*
San Francisco, CA

Extension Rails

SINAR extension rails provide your camera with virtually unlimited extension capability. Rails are available in 6, 12 and 18 inch extensions for use with a variety of lens sizes. For extra stability when shooting 8x10, consider the rock-solid 36 inch base rail.

Extension rails are simply screwed onto either end of a basic rail. An unlimited number of rails can be combined.

Rail Cap Black

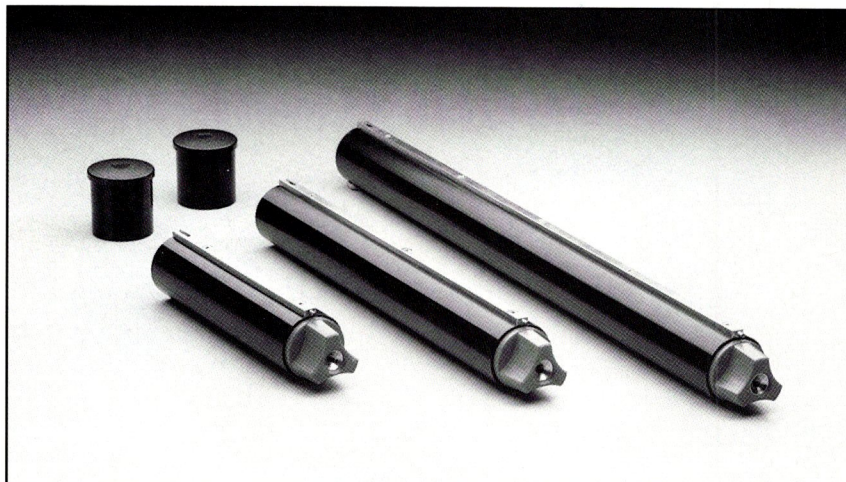
Replacement end cap for the base rail. This cap prevents unlocked standards from sliding off the rail.

23-1204 \$35.00

Rail Cap Special

Prevents unlocked standards from sliding off an extension rail used without a base rail.

23-1005 \$19.00



Length	Type	Color	Product #	Price
6"	Extension	Black	23-1207	140.00
6"	a1 Ext.	Black	42-1030	91.00
12"	Extension	Black	23-1209	175.00
12"	Basic	Black	23-1208	140.00
18"	Extension	Black	23-1206	245.00
36"	Basic	Black	23-1210	599.00

Call

For Orders

Product Information

Technical Support

Sinar Bron Dealers

Current Promotions

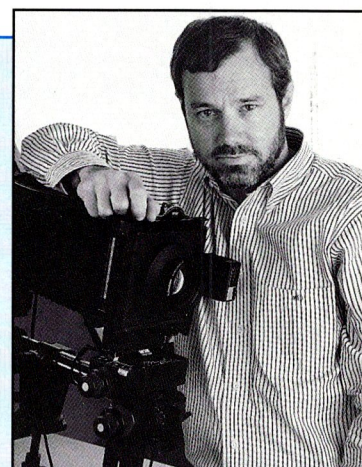
Educational Literature

View Camera Workshops

(800) 456-0203

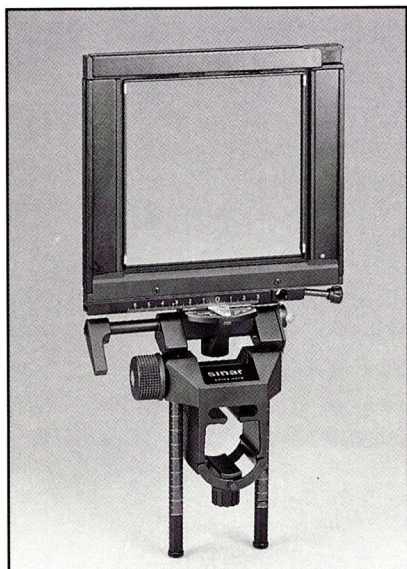
I have a full-line Sinar Bron studio — The Sinar p2 and f2, Foba ASABA stand, Broncolor Pulso 2 with a Hazylight, a little bit of everything. To me, it's the standard by which all other equipment is measured.

If you're going to make your living at photography, you've got to have the right equipment to work with. This equipment is precise beyond belief. Photography is a game of variables and the more of them you can nail down, the easier it gets. Then you're free to concentrate on your art.



—*Med Demet*
House of Photography,
Chattanooga, TN

Camera Standards



Front Standard f1

Also called the multipurpose standard, you can use this standard for a variety of applications. As a compendium lens shade it offers unparalleled versatility in adjustments. As an intermediate bellows support this standard will allow the use of an additional set of extension bellows for close up photography.

23-2210 \$619.00

Rear Standard f1 4x5

The rear standard for the f1 4x5 camera features full parallel shifts, swings and tilts, angle scale dial and depth of field scale.

23-2211 \$880.00

Rear Standard f2 4x5

In addition to all the features of the f1 rear standard, the f2 standard has separate swing and shift controls for more convenient handling.

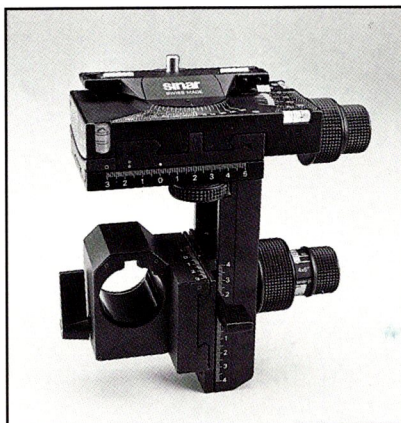
23-2213 \$925.00

Front Standard f2 4x5

The f2 front standard differs from the f1 standard in several ways. The f2 standard offers a fine focusing knob for critical work, and the rail clamp on this unit is enclosed, providing additional support for heavier lenses.

In addition, the swing and shift locks on the f2 front standard are independent of each other for more convenient operation.

23-2212 \$825.00



Rear Standard 4x5 p2

The SINAR p2 rear standard's features include asymmetric tilt and swing, a full range of parallel shifts, depth-of-field scale, angle calculator scales, anodized black finish and much more. This standard is used to upgrade the SINAR f camera into a c camera. It requires the use of a rear carrier frame (23-2017) to attach the bellows and plateholder.

23-2208 \$2945.00

Front Standard 4x5 p2

The front standard of the SINAR p2 camera offers you the ultimate in image control. It allows extremely fine, micrometer-driven adjustments. This standard, like all others, offers a full range of movements. It may be added to the c2 camera to turn it into a p2.

23-2204 \$3215.00

Multipurpose Standard 5x7

When shooting with an 8x10 camera that requires long extensions, you have to be careful of bellows cutoff. By using the 5x7 multi-purpose standard, a 5x7 standard bellows and an 8x10 to 5x7 special bellows this problem is virtually eliminated.

23-2200 \$1060.00

Rear Standard f1/f2 5x7

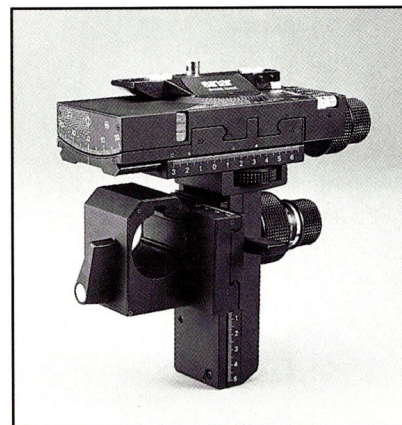
Features spring-loaded heavy duty posts for added stability.

23-2215 \$1998.00

Cross Spirit Level

Supplemental bubble level can mount to the top or side of any Sinar standard.

23-4017 \$128.00



Rear Standard 8x10 p2

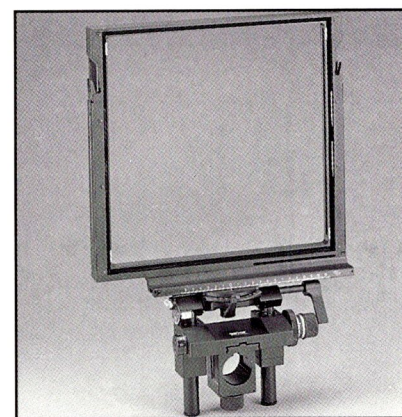
The SINAR p2 8x10 standard differs from the normal p2 standard in several ways. First, the standard is T-shaped to provide greater stability and shift range. The standard also offers additional rise for the 8x10 back. If you are shooting 8x10 this standard is a must.

23-2209 \$3580.00

Front Standard 8x10 p2

The SINAR p2 8x10 front standard offers greater rise and fall than the normal standard and is set up with detents at the 8x10 zero position.

23-2206 \$3760.00

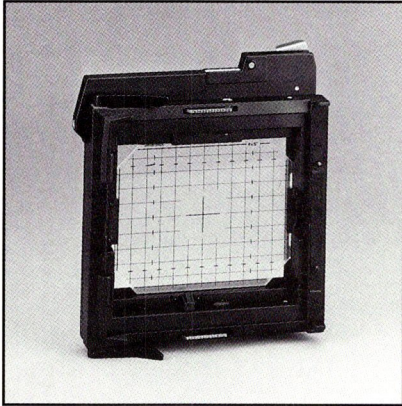


Rear Standard f1/f2 8x10

The SINAR f1/f2 8x10 rear standard offers an extended range of shifts for the 8x10 format. It is spring loaded so that both the rise and fall movement may be adjusted effortlessly. The support posts are thicker and are set into a special base for added support.

23-2201 \$2250.00

Carrier Frames and Plate Holders



Metering Back (MB) 4x5

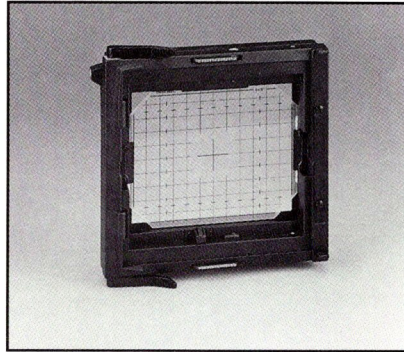
Standard equipment on the p2 and f2 cameras, the metering back allows easy installation of a metering probe (see page 25) for film plane spot reading. When used with a lightmeter holder, your light meter and probe are always available. Consists of 4x5 Screen Frame II (23-2024), and the 4x5 metering frame (23-2025).

22-1022 \$750.00

4x5 Metering Holder Frame

If you have a 4x5 camera without a metering back (f, f+, f1, older p), you can upgrade to a metering back just by replacing your non-metering frame with this one.

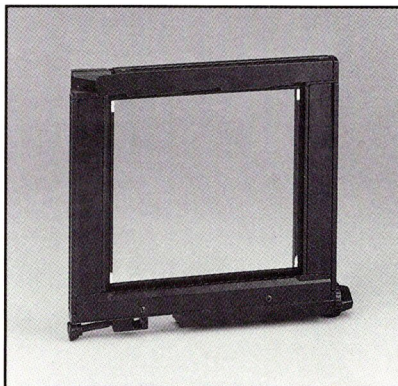
23-2025 \$490.00



4x5 Screen Frame II with Lifting Levers

The Screen Frame II allows you to upgrade an older back without lifting levers to one that has lifting levers. This unit combines with a 4x5 metering frame (23-2025) to form a metering back, or a 4x5 non-metering holder frame (23-2023) to form a non-metering back.

23-2024 \$295.00



4x5 Rear Carrier Frame

Used in conjunction with the c2/p2 rear standard. The coupling frame allows both the bellows and the film holder to be attached to the standard.

23-2017 \$374.00

4x5 Holder Frame/non-MB

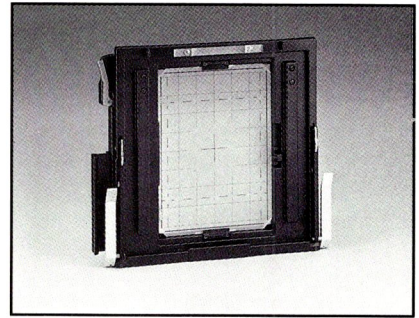
Part of the 4x5 non-metering back.

23-2023 \$150.00

4x5 Non-Metering Back

This basic back is standard on the f1 camera and comes with lifting levers but without metering capability. Consists of 4x5 Screen frame II (23-2024) and 4x5 Holder frame (23-2023).

23-2027 \$435.00



5x7 MB Glass and Holder Carrier

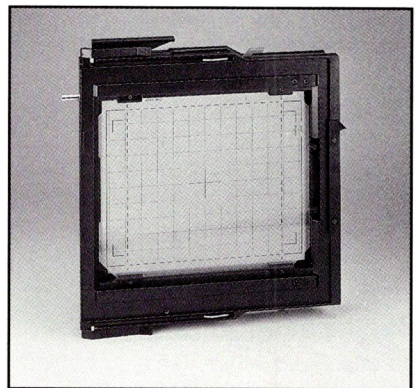
The 5x7 Glass and Holder Carrier features not only the meter back for convenient spot metering, but also a fluid dampened hydraulic back for ease of inserting and removing film holders.

23-2115 \$1270.00

5x7 Rear Carrier Frame

When you upgrade you SINAR p2 camera into a 5x7 the rear carrier frame is required to attach both the bellows and the 5x7 MB glass and holder carrier.

23-2018 \$785.00



8x10 MB Metering Back

The 8x10 metering back is used on all current SINAR 8x10 view cameras. Unique features include a fluid-dampened hydraulic system to cushion closing of the back. Another patented feature is the metering back, which will allow film plane spot meter readings with the SINAR Booster 1, Sinarsix Digital or Broncolor FCM probe anywhere in the image area.

23-1916 \$1885.00

8x10 MB Rear Carrier Frame

Used to support the 8x10 metering back along with the 8x10 MB bellows.

23-1919 \$1165.00

Call

For the name of
a dealer or sales
representative in
your area.

(908) 754-5800
(800) 456-0203

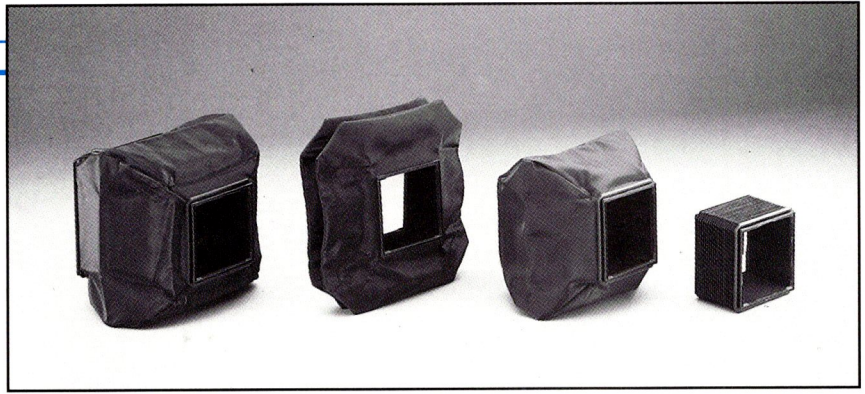
Bellows

The SINAR system features nine different bellows for every application. Virtually all of them can be employed as lens shades or groundglass viewing screens.

The **4x5 square bellows** is standard with all SINAR 4x5 cameras. In addition, this versatile bellows can also be used with Multipurpose standards to increase camera extension for all formats.

The **4x5 Wide Angle Bellows** is used with shorter lenses. This "Bag Bellows" lets you use full camera movements at short extensions.

To focus with lenses 65mm or shorter, you'll need the **Extra Wide Angle Bel-**



lows. Its thin-frame, double-bag design allows you to move the camera standards to within 1/4 inch of each other.

The **5x7 Tapered Bellows** is standard on all 5x7 cameras, and connects a 5x7 back to a 4x5 front standard. It can also be combined with a 5x7 Multi-

purpose Standard and an **8x10 to 5x7 Special Bellows** for extra-long extensions on an 8x10 without vignetting problems.

The **8x10 Tapered Bellows** is available in two varieties for current production meter-back (MB) cameras and the older, non metering frames (Non-MB).

Size	Type	Product#	Max. Ext.	Use with Lenses	Comments	Price
4x5	Square	23-3004	19"		Standard or multipurpose bellow	\$225.00
4x5	Wide Angle	23-3007	-	75-135mm		\$225.00
4x5	Extra Wide	23-3014	-	45- 65mm	For 65mm and shorter lenses	\$370.00
5x7	Tapered	23-3001	25"		5x7 to 4x5	\$388.00
5x7	Wide Angle	23-3005	-	90-165mm	5x7 to 4x5	\$330.00
8x10	Tapered MB	23-3008	23"		8x10MB to 4x5	\$749.00
8x10	Special	23-3010	50"*		8x10MB to 5x7 intermediate	\$1225.00
8x10	Wide Angle	23-3011	-	120-240mm	8x10MB to 4x5	\$645.00
8x10	Tapered Non-MB	23-3002	25"		For older non-MB 8x10's	\$720.00

(MB) Metering Back - Fits newer style 8x10 metering back camera with rear frame size 12¹/₈" x 12¹/₈".

NON Metering Back - Fits older style non-metering back type camera with rear frame size 10³/₄" x 10³/₄".

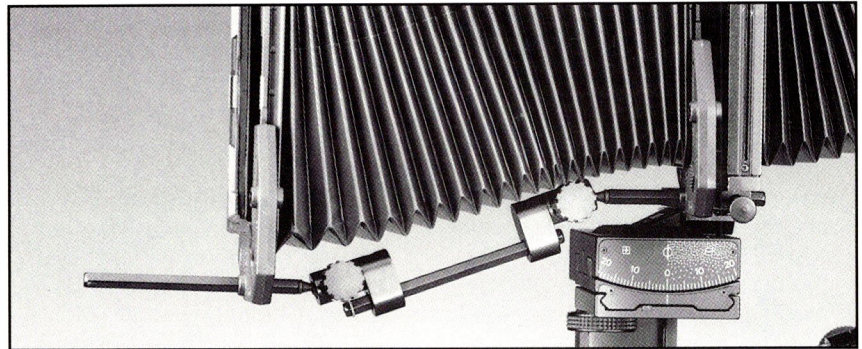
* Special bellows used with 5x7 tapered bellows and 5x7 Multipurpose standard to prevent vignetting with extensions over 35".

A filter rod combined with any 4x5 bellows and a pair of bellows holders gives you an instant bellows lens hood for any Sinar camera. For added flexibility, use a joint rod which gives the lens hood a full range of adjustments.

Filter Rod 4¹/₄"
23-1012 \$19.00

Filter Rod 6¹/₄"
23-1011 \$20.00

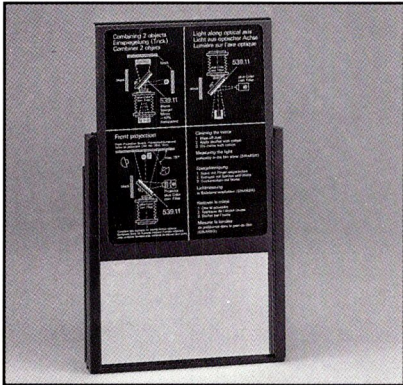
Filter Rod 10"
23-1010 \$26.00



Bellows Holder
Lets you attach the bellows to either the filter rods or joint rod for use as a lens shade.
23-1013 \$25.00

Joint Rod
Two-point swivel rod for attaching a compendium hood to the front of the camera as a lens shade or a bellows to the back as a focusing hood.
23-1015 \$185.00

Special Effects Accessories



5x5" Semi Reflecting Mirror with Housing

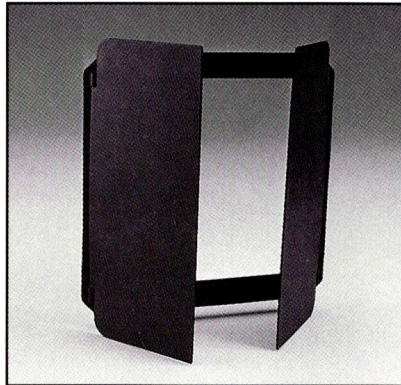
This mirror lets your camera "see" two sets at once, making it a valuable special effects tool. Mounts on a Multipurpose standard.

23-4005 \$510.00

4x6 Front Surface Mirror

Mounts to Multipurpose Standard for special effects photography.

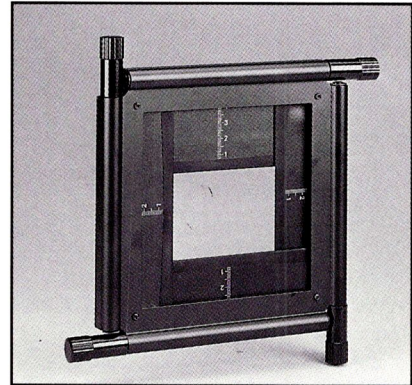
23-4001 \$125.00



Bellows Hood Mask I

Can function both as a lens shade and as a mask to block off part of the image from being exposed. Attaches to either a Multipurpose standard or a bellows holder. Features two built-in wings and a set of clips to hold two additional wings (supplied) or your own custom mask designs.

23-4015 \$98.00

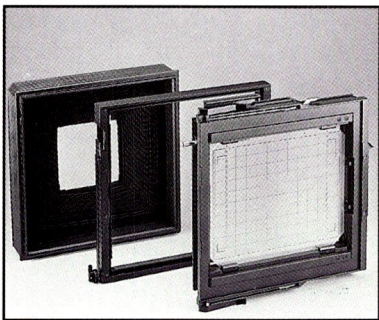


Bellows Hood Mask II

This versatile accessory uses four micrometer-driven curtains to give you precision masking capability and easy multiple images. As a lens hood, you get maximum reduction of stray light, resulting in better color saturation. Attaches to a Multipurpose standard, or to a Filterholder I for rotation capability.

23-4025 \$795.00

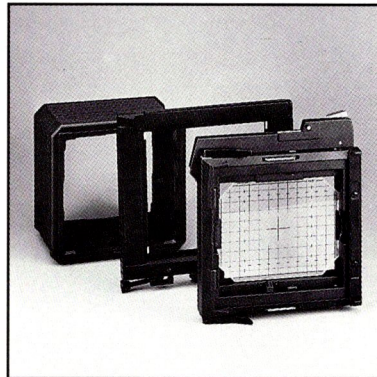
Format Changing Sets



8x10 MB Format Changing Set

Now you can convert your p2 4x5 camera into an 8x10 quickly and easily. Simply remove the 4x5 format bellows from the front standard, loosen one screw, place the 8x10 format changing kit in its place, retighten the screw, attach the bellows and you're shooting 8x10! The format changing kit consists of Tapered Bellows (23-3008), Rear Carrier Frame (23-1919) and Metering Back (23-1916).

23-1902 \$2995.00



4x5 Format Changing Set

To convert 8x10 into a 4x5 camera. Consists of Standard Bellows (23-3004), Metering Back (22-1022), and Rear Carrier Frame (23-2017).

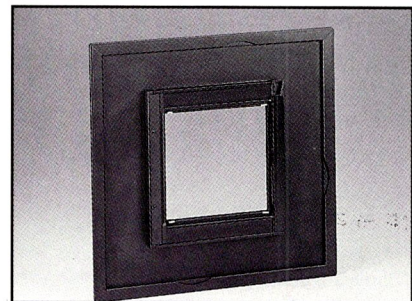
23-2003 \$1195.00

5x7 MB Format Changing Set

Consists of Tapered Bellows (23-3001), 5x7 Rear Carrier Frame (23-2018) and 5x7 Metering Back (23-2115.)

23-1901 \$2190.00

Reducing Backs



8x10 MB to 4x5 Reducing Adapter

Use a Reducing Adapter to shoot a quick 4x5 test print in place of a costlier 8x10 test. No refocusing is required.

23-1917 \$990.00

5x7 to 4x5 Reducing Adapter

23-7003 \$620.00

NOTE: All reducing adapters require use of a 4x5 Glass and Holder Carrier (23-2027), or Metering Back (22-1020).

Ground Glass

4x5 Ground Glass

With 1cm grid and calibration lines for asymmetric movements.

23-4007 \$46.00

5x7 Ground Glass

As above, with image size markings for standard and metric film sizes.

23-4010 \$51.00

8x10 MB Ground Glass

For the current line of metering back cameras. With 1 cm grid, calibration lines for asymmetric movements and image size markings in English and metric. Measures 10 $\frac{1}{2}$ " x 8 $\frac{7}{8}$ ".

23-4029 \$91.00

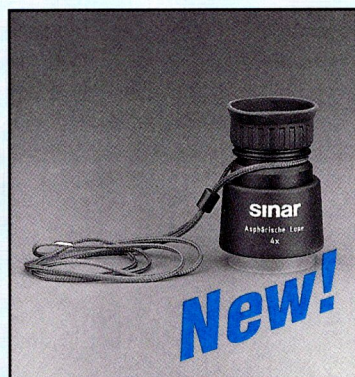
8x10 Ground Glass (non-MB)

Fits older style non-metering back cameras. Measures 10" x 8 $\frac{1}{4}$ ".

23-4009 \$91.00

5x5 Rapid Adapter Ground Glass

23-4008 \$48.00

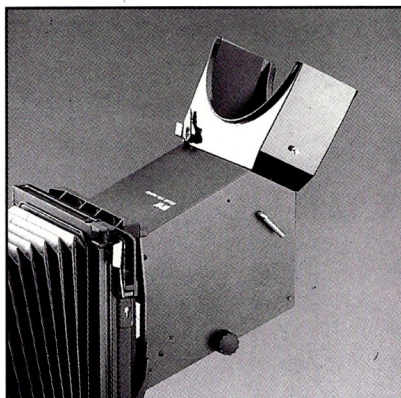


SINAR 4x Magnifier

- Aspherical two-lens design delivers a sharp, bright image from edge to edge with no distortion.
- Built-in opaque and transparent skirts allow you to conveniently view any type of subject — transparencies, reflective art or a view camera groundglass.
- Focusing eyepiece adjustable for individual eyesight from 0 to -2.5 diopter.

23-4018 \$119.00

Viewing Accessories



Bino Reflex Housing Kit

The SINAR Bino Reflex Housing allows you to view the entire groundglass area right side up. The mirror is adjustable to allow you to always have the brightest image on the groundglass, especially when used with our fresnel lens. This kit includes the Bino Reflex Housing (23-4019) and Lighthood (23-4030).

23-4022 \$599.00

Bino Reflex Housing Only

Housing only, for photographers who already own a Lighthood.

23-4019 \$499.00

Bino Reflex Housing with 4.25 Corrective Loupe

As above, with 4.25 corrective loupes. Includes Lighthood.

23-4024 \$699.00



Bino Magnifier Board

Can be used with any bellows attached to the back of the camera to view the ground glass without having to use a dark cloth. **New improved version** allows you to make the Bino Board self-supporting by attaching it to a bellows clip and filter rod. Requires Lighthood (23-4030.)

23-4031 \$185.00

Lighthood with Lightdrop

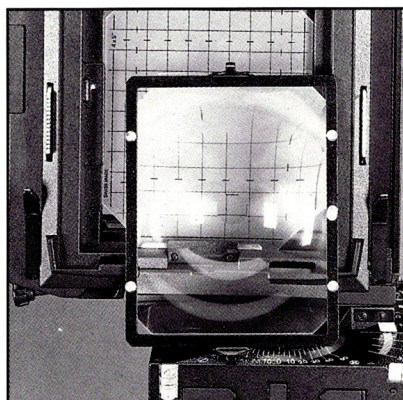
Attaches to either the Bino Reflex Housing or the Bino Board to block out ambient light.

23-4030 \$150.00

Corrective Loupe

4.25 Diopter.

23-4023 \$142.00



4x5 Mounted Fresnel Lens

The SINAR Fresnel Lens gives you a brighter viewing area to judge both camera movements and focusing. The fresnel can easily be snapped into place over the groundglass.

23-2012 \$165.00

Fresnel Lenses

4x5 Mask Fresnel Holder only

$\frac{1}{4}$ " frame for fresnel. Requires Fresnel lens (23-4011).

23-2013 \$44.00

4x5 Fresnel Lens Only

Replacement fresnel, Requires frame (23-2013).

23-4011 \$137.00

5x7 Fresnel Lens Only

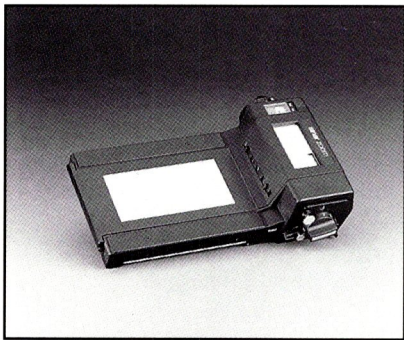
23-4013 \$202.00

8x10 MB Fresnel Lens

Fresnel lens for the current line of meter back cameras.

23-4032 \$320.00

Film Holders and Accessories



Zoom Multifformat Rollholder for 120/220 film

- Five different formats from 6x4.5 to 6x12cm.
- Inserted into the camera just like a regular film holder.
- Formats can be changed in the middle of a roll *with no overlap*.
- Specially engineered film path assures perfect film flatness - the film takes no sharp turns before entering the film gate.
- Locks into the back of your Sinar so the holder cannot be removed while the film gate is open.
- Fits *all* 4x5 view cameras.
- Includes Vario Mask (23-7084) and one film cartridge (23-7060).
- The only rollfilm holder you'll ever need.

23-7070 \$2295.00

6x9 Format Rollholder

For fixed format 6x9cm.

23-7078 \$1375.00

6x7 Format Rollholder

For fixed format 6x7cm.

23-7077 \$1375.00

Film Cartridge

Replacement.

23-7080 \$85.00

4 Film Cartridge Package

With case

23-7082 \$320.00



Precision Sheet Film Holder

- SINAR engineering eliminates the "weak link" in 4x5 view camera precision.
- Film is held in place by a two-stage pressure plate instead of just floating around in the holder.
- Tolerance of the film plane is just ± 0.03 mm no matter what emulsion you use.
- Three cutouts along the edges of the film holder allow the imprinting of copyright notices with a litho film insert.
- Adjustable dials can imprint two digits along the edge of the frame.
- Indicators show whether or not the holder is loaded and whether the film has been exposed.

23-7065 \$450.00



Adhesive Sheet Film Holders

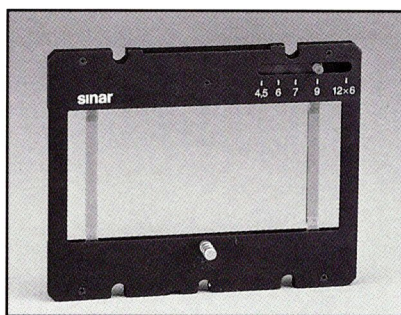
- Patented design achieves a level of precision never before possible in 8x10 and 5x7 photography.
- Film is held perfectly flat against the holder, which results in noticeable sharper images.
- Film is prevented from shifting within the holder, making it indispensable for multiple image work.

8x10 Adhesive Film Holder

23-7068 \$179.00

5x7 Adhesive Film Holder

23-7067 \$99.00



Vario Mask

23-7084 \$98.00

Viewing Mask Set

23-4016 \$48.00

All SINAR rollfilm holders are inserted into the camera back like a regular film holder. Each holder comes complete with film cartridge and format corresponding viewing mask. Spare film cartridges make film changing fast.

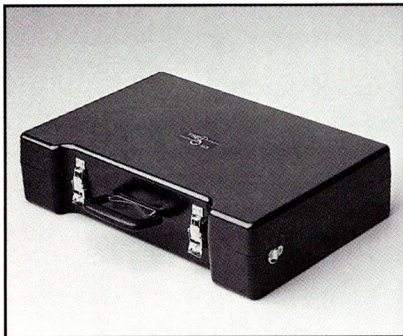
Camera and Shutter Cases



SINAR Camera or Accessory Case

This case is constructed of high density polyethylene. It is designed to be top loaded with the camera supported by the rail. Vertical dividers keep the camera firmly in place, while all interior surfaces are covered with an Etha-foam. Outside dimensions are 20" L x 11" W x 18" D. Weight 5 lbs.

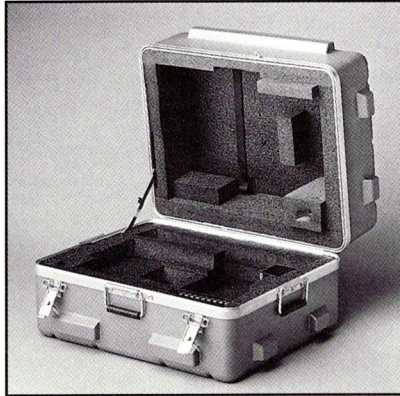
23-5021 \$345.00



Expolux Case

This compact and rugged case is designed to transport your Digital shutter, Module II, Sinarsix digital, Rapid Battery charger, and batteries in a convenient attaché styled case. Outside dimensions are 20" L x 12" W x 5" D. Weight 3 lbs.

23-5011 \$230.00



Expert Case, Heavy Duty

The SINAR Expert case is designed to hold either a 4x5 or 8x10 SINAR camera along with a full load of accessories. This case is manufactured from high density polyethylene that resists temperature changes, and has a shock absorbing rib design. The Etha-foam interior construction is custom die cut to hold your camera safely. A set of velcro straps further secures your camera for safe transportation.

The case has a continuous piano hinge for extra durability, with heavy duty military latches to assure that it won't come open in transit. Recessed, spring loaded padded handles are located both on the front and top of the case. It also features 3" hard rubber casters so that the case can be rolled along when loaded. Outside dimensions measure 25" L x 19" W x 15" D. Weight 9.5 lbs.

23-5023 \$499.00

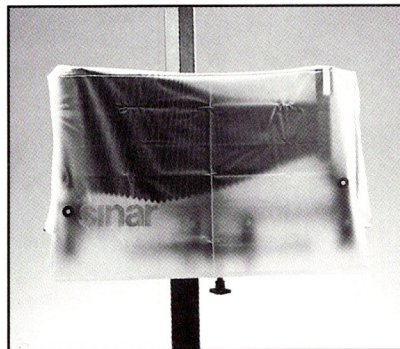


SINAR f1 & f2 Image Case

Designed to hold either the f1 or the f2 camera in a custom Etha-foam insert. In addition, the attaché styled Image Case has room to store two lenses, two extension rails, six film holders, a Polaroid 545 holder, wide angle bellows and bellows clips.

The exterior has a light weight aluminum closure, and a padded handle with suitcase-style latches. The locks are designed to prevent the case from being opened upside down. Outside dimensions are 21" L x 13" W x 8" D. Weight 2.5 lbs.

23-5026 \$174.00



Dust Cover, Large

Keep your camera dust-free when not in use. At the end of the day just cover it with this heavy vinyl dust cover.

23-5034 \$57.00

Workshops

Our 4½ day Sinar
view camera workshops
are held throughout 1993.

Want to know more?
See pg. 104 for info,
or contact the
Workshop Coordinator.

(800) 456-0203

Electronic Imaging

Performance Features	Leaf Digital Studio Camera	Transparency Film
Resolution Per Image Grey levels per color	4.2 million pixels 16384 gray gradations (14 bit)	4x5: 190 million pixels 8x10: 800 million pixels 64 gray gradations (6 bit)
Sensitivity	Max. ISO 300	ISO 15 to 3200
Lighting	Flash, continuous and mixed	Flash, continuous and mixed
Subject requirements	For reproduction of static scenes Long focal lengths	Can be used universally Long focal lengths
Choice of image perspective, sharpness plane and area shifting	Moderate movements in lens and image plane	Extensive movements in lens and image plane
Exposure time	B/w 1/500 sec., color 30 sec.	1/500 sec. to long exposure
Approx. price	\$35,500 + computer hardware	

At left is a comparison of the capabilities and characteristics of traditional film with the Leaf Digital Studio Camera, the first electronic imaging solution to be integrated into the Sinar system.

For more detailed information on the Leaf Digital Studio Camera, contact Leaf Systems directly at (508) 460-8300.

Reports of film's death have been greatly exaggerated. While the new electronic imaging technologies are very impressive and represent a tremendous leap forward in terms of quality and ease of use, they still cannot compare to the resolution and image quality of film. For the ultimate quality in today's electronic prepress systems, we still recommend scanning transparencies on a high resolution, wide dynamic range scanner.

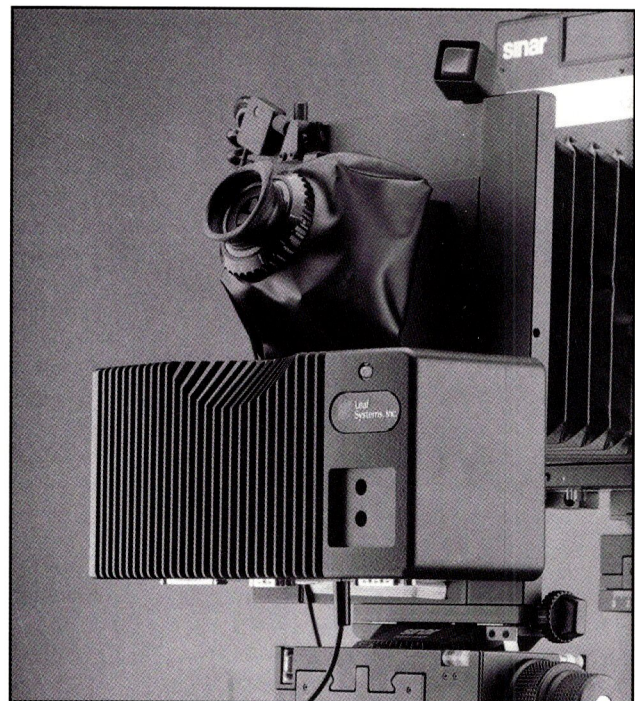
Another fast-turnaround method for placing view camera images into electronic publishing systems is to shoot instant prints and scan them on a high resolution desktop scanner.

Of course, Sinar recognizes the potential of these emerging new technologies. As viable electronic imaging solutions become available, we will make every effort to integrate them into the Sinar system. This will allow you to explore new options without sacrificing the advantages of view camera photography.

Electronic Imaging Stand

The Electronic Imaging Stand is a Foba ASABA camera stand specially adapted for use with electronic imaging systems. The stand features a second vertical column to hold a computer monitor for use with electronic systems which feature on-screen focusing. Height of the monitor can be adjusted from 47" to 96", and can be rotated for the best viewing angle. If you already have an ASABA, you can easily install a computer column just by drilling a few holes in the base.

31-0149 \$4990.00



Adapter for Leaf Digital Studio Camera

The Leaf Digital Studio Camera brings all the advantages of view cameras to electronic photography. By mounting the Leaf Adapter on a p2 rear standard, you can apply perspective and sharpness plane control to your electronic images. Currently, the adapter requires the version of the Leaf back adapted for view cameras. Specifications of the adapter are subject to change with future versions of the Leaf back.

23-1910 \$2500.00

Film Plane Meters



FCM 2 Flashmeter

Now featuring an extended sensitivity range, the Broncolor FCM measures both flash and continuous light in a range from f1 to f180^{9/10} in 1/10 stop increments. The FCM 2 is capable of multiple flash measurement, as well as mean and contrast readings.

With the addition of the FCM 2 probe or the Sinar Booster 1 (with adapter), the FCM 2 becomes a film plane metering system. In film plane mode, the FCM 2 functions as a nulling meter, reading the number of stops you are away from the correct exposure.

Requires one 9-volt battery (not included.)

16-1014 \$875.00

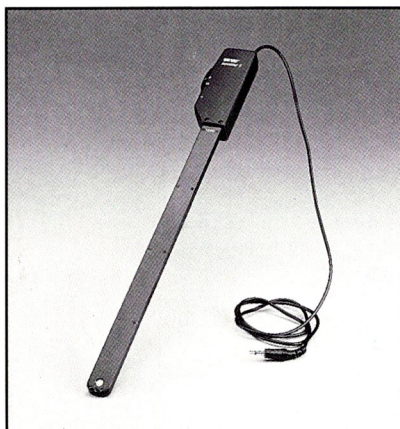
Probe for FCM 2 Flashmeter

16-1011 \$429.00

Adapter Booster 1 to FCM 2

Allows you to attach the Sinar Booster 1 probe to an FCM2 flashmeter. This further extends the sensitivity range of the meter/probe combination by 1 f/stop.

22-1026 \$250.00



SINAR Booster 1

The Booster 1 is designed to be used on either the Minolta Flashmeter IV or III. This probe is long enough to reach all areas of a 4x5, 5x7 or 8x10 metering back. It has a built in window on the tip of the meter to allow precise spot positioning. It also has two plastic bumpers so it will not damage the ground glass of your camera.

The meter is designed to turn off after 2 1/2 minutes to conserve batteries. The Minolta Flashmeter IV can be attached to the side of a SINAR camera with the use of SINAR Minolta Light Meter Holder (23-2028). The probe can measure both continuous and strobe light.

22-1025 \$990.00

Light Meter Cassette 4x5

The Light Meter Cassette is needed to use film plane meters such as the Booster 1, Sinarsix or Broncolor FCM for film plane metering in non-metering back or non-SINAR cameras.

22-1003 \$219.00

Light Meter Cassette 5x7

Same as the 4x5 Light Meter Cassette but for the 5x7 format.

22-1002 \$299.00

Minolta Light Meter Holder for Light Meter Cassettes

Fits Light Meter Cassettes 22-1002, 22-1003 and holds the Minolta Flashmeter III or IV.

23-2029 \$129.00

Minolta Light Meter Holder

Designed to attach the Minolta flashmeter IV to the side of a SINAR camera.

23-2028 \$63.00



Exposure Calculator

Simply place the cap of this pencil into your set, focus the camera, measure the side marked factor and read your bellows factor. If you are working with the depth-of-field scale in the close-up mode the f/stop scale will give you the compensation needed.

23-9020 \$19.00

Y-Sync Cable

The new Y-cable lets you trigger strobes with both your shutter and your light meter without switching cables. This simplifies the metering process when used with film plane meters such as the Broncolor FCM and probe, the Minolta IV/Booster 1, or the Sinarsix Digital.

22-3008 \$83.00

Call

For additional literature on any of
the products in our catalog.

(800) 456-0203

The Easy Guide to Measured Photography

Step 1: Know the Process

Have you ever wondered why your chromes look great on the light table, but so often disappoint you when you see them in print? One simple reason is density range. That transparency can show you a range of

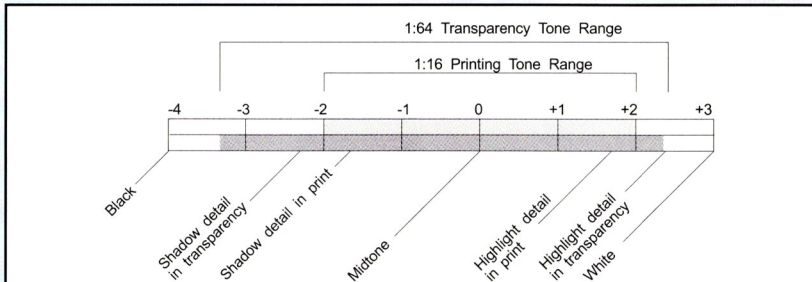
almost 8 f/stops from brightest highlight to darkest shadow. Once that image becomes ink on paper, that range

drops to the equivalent of 4 f/stops on your light meter. Somewhere in between the two is a color separator who will decide what part of that visual information will have to be lost — someone, in effect, reinterpreting the look of your work!

Maybe you're having some trouble maintaining consistency within a series of images. Having to individually fine-tune each photo during scanning can be costly and time consuming.

We're going to show you a few simple steps which will help you regain control over the production process and, ultimately, the way your images appear in print.

Measured photography will not limit your creativity, but will help you take your creativity to its actual limits.



Take a look at the range of density that you see in your transparencies. Now look at the "window" all that visual information has to be squeezed through to be reproduced on press. Without control over that process, you'll never really know how your work will look in print.

Step 2: Measure

The first step in controlling the reproduction process is to measure the contrast range of your images. Remember that in order to reproduce accurately, all the important information (everything from beginning of shadow detail to brightest highlight with detail) should fit within 4 metered f/stops.

For accurate measurements with large format cameras, you should use a film plane meter.

The most important points for you to measure in your image are:

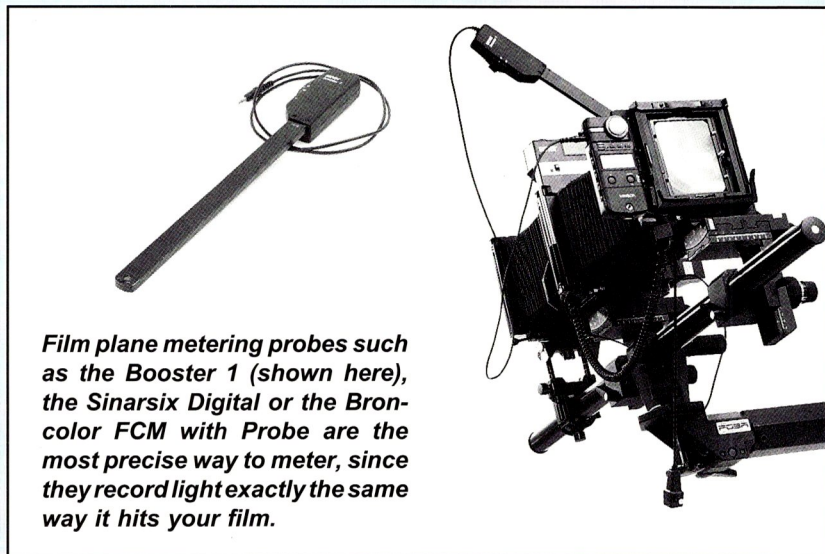
- The midtone
- The darkest area where you want to hold detail
- The brightest area where you want to hold detail.

These are the critical points you will have to communicate to your separator later on, so keep track of where they are. And don't forget, the contrast difference between those last two points should be no more than 4 f/stops.

If possible, try placing a Kodak Q-18 grey scale in your image while you are measuring. A Polaroid or

extra transparency of your image with the grey scale will help you in the communication step. It can also make it easy for you to find your midtone — just find a point in your image which matches the middle grey step on your scale.

And as for that consistency problem we talked about, measuring in the film plane can help you out there too. We recently heard from a customer of ours who had to keep the cases of a series of computer photos perfectly consistent. By directly metering the area he needed to hold steady, he could monitor and correct exposure variations to within $1/10$ of a stop.



Film plane metering probes such as the Booster 1 (shown here), the Sinarsix Digital or the Broncolor FCM with Probe are the most precise way to meter, since they record light exactly the same way it hits your film.

For more information on measured photography, give us a call at (800) 456-0203.

Step 3: Communicate, Communicate, Communicate!

Common sense dictates that a musician without a score would have a difficult time playing a piece of music. The same idea holds true in photography. Without proper communication, the lithographer has no guidance when interpreting your image — what detail should he keep, and what can be lost? What areas should he pay attention to for color balance? Where's the midtone?

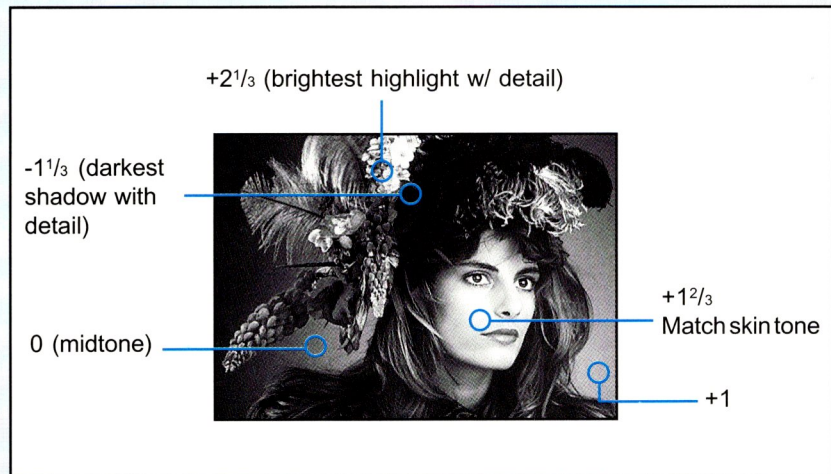
By simply marking the points you measured on a Polaroid or an overlay, you can communicate this information to the lithographer. Some of the important information you can relay this way is:

- Midtone, darkest shadow detail and brightest highlight detail.
- Areas which can go solid black or pure white, no detail necessary.
- Areas which require special attention for color, such as skin tones or important saturated areas of color.
- Actual light measurements of specific points, for reference. For example, indicate a point metered as 1 stop above midtone as +1, or 2¹/₃ stops below as -2¹/₃.

Communication must be approached as a team effort between the photographer, the client, the lithographer and the printer. One member of this group should serve as a project leader to

promote the common goal of serving the client in the best way possible.

Think of it as a construction project — every building has a general contractor whose responsibility it is to coordinate the activities and wishes of all the different subcontractors and the client. Without the contractor, there is no control over the project. The team leader serves the same function when you're practicing measured photography.



Easy, wasn't it? Now you can sit back and enjoy the many benefits of measured photography.

- **Time savings:** Because you've taken most of the guesswork and interpretation out of the process of scanning and color separation, most of your images can be scanned in one try, instead of three

Step 4: Enjoy

or four if constant adjustments were necessary. For jobs where you have used measured photography to maintain consistency through a series of images, the lithographer can often

"gang-scan" several photos at a time, again resulting in fewer scans and a savings of time and money.

- **Cost savings:** For both you and your client. You save on film and your client saves on separations.
- **Satisfied clients:** Naturally, your clients won't mind saving time, trouble and expense one bit. Of course, satisfied clients make it easier for you to get future jobs. And you won't mind that one bit, either.
- **Higher profits:** Because you're providing a specialized professional service, you can justify charging a higher rate. Since you've also found ways to save time and money, you can end up doing more work at a higher profit than before you began using measured photography.
- **Personal satisfaction:** The satisfaction that comes from seeing your work appear the way you intended it to; the satisfaction that comes from knowing that you are the one in control of your photography.

Typical Time and Cost Savings with Measured Photography

		Advertising (single jobs)	Catalog (serial jobs)
Photography	Contrast between highlight and shadow detail	4 stops or up to 6 stops maximum	Standardized 4-stop range
	Time Saving Cost Saving (film material)	None 50%	up to 30% 50%
Prepress	# scans	one single scan (compared to 3 or 4)	Gang scan (compared to individual scans)
	Time Saving Cost Saving	40% 25%	40% 40%

SINAR Auto Aperture Shutter



SINAR Auto Aperture Shutter

Now featuring f/4 maximum aperture!

The Auto Aperture shutter lets you concentrate more on your shooting and less on the mechanics of camera operation.

- **Control all operations from behind the camera** where you should be. No more having to kneel down in front of your camera to see if the shutter is closed, stopped down or even cocked.
- **The shutter is always fully open** so you have maximum brightness on the groundglass. When you insert a film holder into the back of the camera, the shutter automatically closes down - no more lost sheets of film!
- **Automatically self-cocking**
- **Shutter speeds** from 1/60 to 8 seconds, plus bulb
- **Aperture control** from f/4 to f/45 (higher apertures controlled through DB-manual mount)
- **Includes a filterholder** which accepts up to three 100mm filters inside the camera.
- **To be used with the Auto Aperture shutter**, lenses must be mounted in the SINAR DB mount. If you already have lenses in shutters you can buy a do-it-yourself DB conversion kit.
- **Includes:** Filterholder for behind-the-lens shutters, cable release, auto cable and synch lead adapter.

22-2001 \$1790.00

Cable Release

Replacement cable release for the Auto Aperture shutter.

22-2002 \$140.00

Automatic Cable

Replacement cable, connects the shutter to the plateholder so that the film holder automatically closes the shutter.

22-2003 \$145.00

Coupling Piece

Used to connect two auto cables when you have a long bellows extension.

22-2007 \$47.00

Bayonet Piece

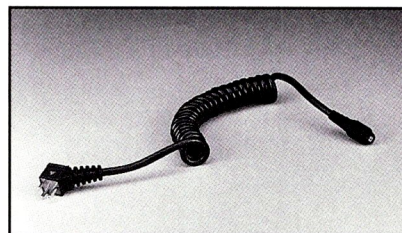
Replacement piece to attach the automatic cable to the camera back.

22-2004 \$37.00

Automatic Adapter

For use on 8x10 back. Permits use of Lisco holders with round corners.

22-2006 \$28.00



Synch Lead Adapter

Replacement coiled adapter to connect flash cables to the Digital and Auto Aperture Shutters.

22-3005 \$40.00

Flash Sync Cable 5m

To connect Digital Shutter to various power packs by adding your own male plug.

22-3006 \$88.00

Filterholder for Shutters

Allows you to mount up to 3 100mm Sinar Color Control filters on an Auto Aperture, Expolux or Digital Shutter.

58-3000 \$49.00

SINAR ALLOWS CLOSER SHOOTING CONCENTRATION

Automatic Shutter Operations	Conventional Shutters	SINAR Shutters
Focusing:		
Auto opening of shutter	NO	YES
Auto opening of diaphragm	NO	YES
Exposure:		
Auto closing of shutter	NO	YES
Auto closing of diaphragm	NO	YES
Self cocking shutter	NO	YES
Inserting of filmholder	NO	NO
Pulling dark slide, exposing,		
Replacing slide	NO	NO
Removing of film	NO	NO
Number of manual operations:	8	3
With bellows hood, filters:		
Shutter speed and aperture settings easily accessible	NO	YES
TOTAL	9	3

9 to 3 in Favor of SINAR!

Expolux Shutter System and Accessories

The Sinar Expolux electronic shutter system brings state-of-the-art electronics and a new level of user-friendliness to the Sinar shutter line. Expolux, like all Sinar shutters, lets you control all your lenses with a single shutter for greater accuracy. The system consists of four newly engineered components:

Expolux Shutter

This electronic, fully automatic behind the lens shutter was designed with ease of use and reliability in mind. The electronically controlled step motors give extremely accurate exposures in small increments down to 1/500 sec., with an aperture range of f/4 to f/128. The new actuating system is virtually vibration-free and has demonstrated very high reliability in fatigue tests.

The Expolux shutter can be controlled either from the Expolux Monitor or directly by the Sinar e camera.

22-4010 \$3990.00

Expolux Monitor

The "brains" of the Expolux system gives you total control over shutter functions, metering and exposure calculation. The 3x4 inch LCD display guides you interactively through a set of self-explanatory menus in order to achieve the correct exposure.

Sinar has created an open-ended system by placing all program functions on an interchangeable RAM card. This allows new functions to be added to the system just by inserting an updated Expolux Card.

22-4020 \$2490.00

Expolux Card

Contains all program functions of the Expolux Monitor.

22-4022 \$149.00

Monitor Holder

Attaches the Expolux Monitor to your Sinar camera for convenient operation.

22-4030 \$169.00

Expolux Power Supply

This universal-voltage unit powers the entire Expolux system. A rechargeable battery pack will also be available for location use.

22-4015 \$390.00

Expolux Booster

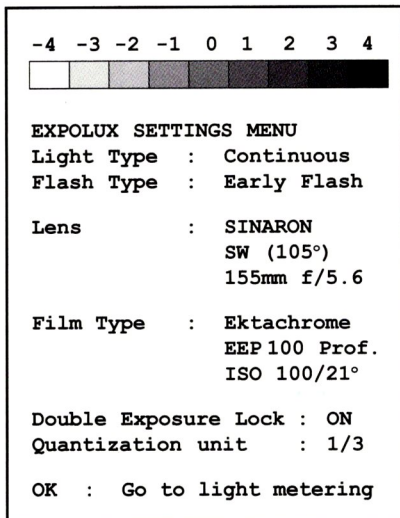
This exposure probe feeds spot readings from the film plane directly into the Expolux Monitor for the most precise light metering available. The Expolux Booster measures a very wide range of both flash and continuous light, or a combination of both. The probe is designed to measure all areas of the groundglass, no matter what the format. It is powered by the Expolux system and requires no batteries.

22-4025 \$990.00

Expolux System Complete

Includes:
Expolux Shutter
Expolux Monitor
Expolux Booster
Expolux Power Supply

22-4000 \$7500.00



The Expolux Monitor's main menu shows an overview of the shutter's status and gives you complete control of all the system's settings.



Any questions? Give us a call. (800) 456-0203

sinaron Lenses

sinaron lenses are:

- Manufactured to incredibly precise Swiss tolerances.
- Designed for optimum resolution, contrast and color rendition with minimal fall-off, distortion and flare.
- Mounted at the exact center of the lensboard and parallel aligned.
- Mounted with minimum deviation in centering and separation between the matched element groups.
- Tested for the best possible image performance.
- Designed to allow you to take full advantage of the wide range of swings and tilts available on the SINAR cameras.
- **sinaron** lenses used with SINAR cameras provide matched bearing points on the lensboard and lens standard, and minimum deviations between the film plane and the image standard bearing points.

sinaron W

- 102 to 105° angle of coverage.
- Distortion at infinity minimized to below 0.5%.
- 65, 75, 90, 115, 155mm

sinaron S

- 72° angle of coverage lets you take full advantage of camera movements without sacrificing quality.
- 135, 150, 180, 210, 240, 300, 360, 480mm

New!

sinaron SE

- Extra-wide 75°/68° angle of coverage expands the range of camera movements.
- ED (Extra-low dispersion) glass gives outstanding color rendition.
- Reduced light fall-off at the image edges.
- Optimum performance over a wider range of apertures.
- 135, 150, 180, 210, 240, 300, 360mm

sinaron WS

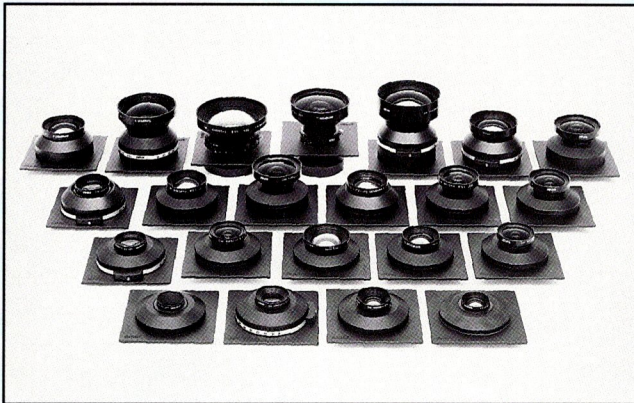
- 80° angle of coverage.
- Apochromatic design eliminates color fringing.
- Improved performance at edge of field.
- Performance is optimized for reproduction up to 1:3
- 150, 210 and 300mm.

Macro-sinaron

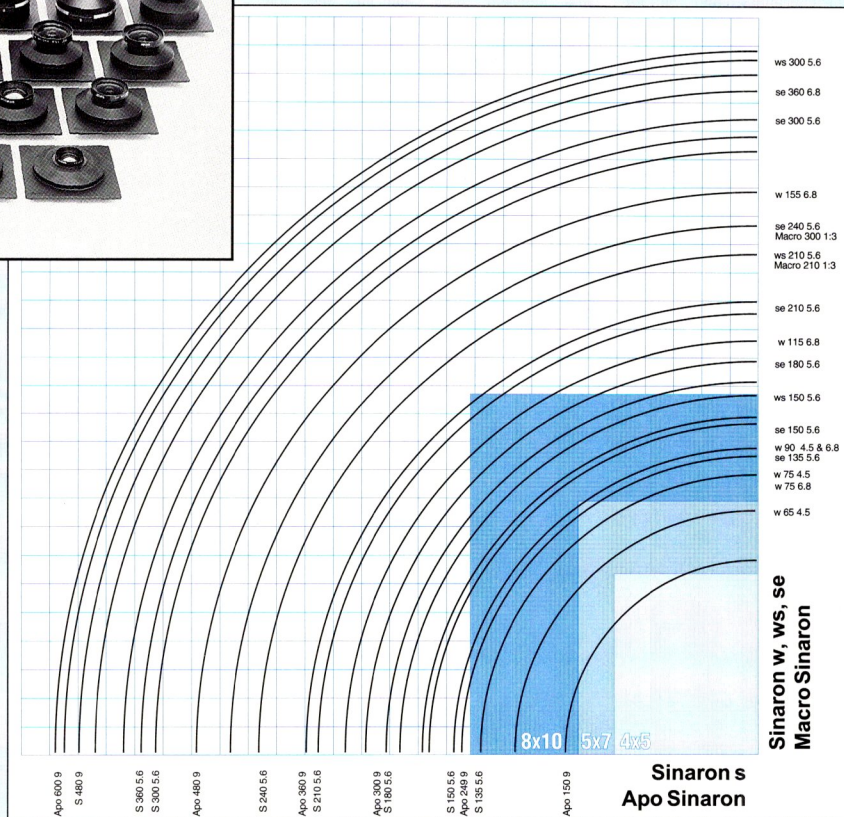
- Optimized for extreme reproduction ratios.
- Front and rear elements can be exchanged for ultimate image performance at up to 3:1.
- High speed for easy focusing at extreme extensions.
- 210 and 300mm

Apo sinaron

- Superior performance at 1:1
- Image quality maintained at smaller ratios for complete flexibility.
- Longer focal lengths for increased camera to subject distance.
- Four element symmetrical design.
- 150, 240, 300, 360, 480, 600mm



The coverage chart at right illustrates the image circles of the entire Sinaron lens line compared to 4x5, 5x7 and 8x10 film formats so you can see at a glance which lenses provide the coverage you need. Due to their extremely large image circles, the Macro-Sinarons only appear in the chart at the 1:3 reproduction ratio.



sinaron Lenses

Selecting a large-format lens

A few general rules of thumb for lens selection:

- A focal length of twice the long dimension of the film (240mm for 4x5, 480mm for 8x10) is useful for copy work and product shots.
- A focal length of three times the long dimension of the film is suitable for product photography, or for close-up portraiture.
- Architectural and landscape lens selection is governed by perspective considerations and by available viewpoints. Shots involving extreme perspectives in close-up situations generally call for very short focal lengths.

The choice of actual lenses used thus depends on focal length, format, perspective, parallel shifts and also cost. Consider, though, that a more expensive lens can often offer more versatility and cover multiple film formats, which in the long run would save money.

Concentrating on the Job

Traditionally, large-format lenses are supplied with their own individual shutters, as they have been for decades. All lenses supplied by SINAR are still available this way.

However, the traditional configuration does have its drawbacks. Between-the-lens shutters are completely manual - you have to open and close the diaphragm yourself, cock the shutter and remember to stop down the aperture after you focus. To set the shutter speed and f-stop, you have to move around to the front of the camera - not always easy if you're in a tight studio set or if your camera is perched on the edge of a cliff.

If you've ever forgotten to stop down before you shot, or pulled out the dark slide only to remember that the diaphragm is still open, you've probably realized that this is not the perfect solution.

The SINAR behind-the-lens shutters eliminate these problems.

- **Both shutter speed and aperture are set from behind the camera, and are always visible at a glance.**
- **The lens remains wide open until you shoot.**
- **When you insert a film holder, the shutter closes and the diaphragm stops down to the selected aperture.**

You'll never again lose a sheet of film to shutter operating errors.

To be used with the SINAR shutter system, lenses must be mounted on a SINAR DB board to allow automatic diaphragm control. Lenses are available in the DB mount, and DB conversion kits are available to convert most popular lenses to DB lenses in a matter of seconds.



Equivalent Focal Lengths with similar angles of view for most popular formats (in mm)

35mm	6x6	4x5	8x10
17	35	65	130
20	40	75	150
24	50	90	180
30	60	115	230
35	70	135	270
40	80	150	300
50	95	180	360
55	110	210	420
65	125	240	480
80	160	300	600
90	200	360	
125	250	480	

sinaron 5 year Unconditional Warranty*

Others Guarantee Their Glass.
sinaron Guarantees the Works.

Another clear **sinaron** advantage is our comprehensive five year unconditional warranty.

Sinar Bron will warranty all **sinaron** Copal or DB mounted lenses for a period of five years from date of purchase. This includes the glass, copal shutter or DB board. If any of these components fail within five years, Sinar Bron will repair or replace it at our option, free of charge.

* The only thing this warranty does not cover is misuse or abuse.

sinaron Lens Specifications

Lens type	mm	Angle of coverage	Copal Shutter	Filter thread	Image circle @ f/22	Shifts in mm at infinity and f/22						
						4x5		5x7		8x10		
						↔	↕	↔	↕	↔	↕	
sinaron-w f/4.5	65	105°	0	58	170mm	10	12	-	-	-	-	
	75	105°	0	67	195mm	25	29	-	-	-	-	
	90	105°	1	82	236mm	48	54	16	20	-	-	
sinaron-w f/6.8	75	102°	0	58	187mm	20	24	-	-	-	-	
	90	102°	0	67	221mm	40	45	7	9	-	-	
	115	104°	1	82	291mm	77	85	47	57	-	-	
	155	102°	1	105	382mm	125	133	95	110	42	50	
sinaron-s f/5.6	135	72°	0	40.5	200mm	28	32	-	-	-	-	
	150	72°	0	49	214mm	36	41	2	3	-	-	
	180	72°	1	39	262mm	62	68	30	38	-	-	
	210	72°	1	67	310mm	83	90	52	63	-	-	
	240	72°	3	77	350mm	108	116	79	92	23	28	
	300	72°	3	86	425mm	139	148	110	125	58	67	
f/6.8	360	64°	3	105	435mm	152	161	123	139	72	83	
f/9.0	480	56°	3	112	480mm	175	184	147	163	97	109	
sinaron-se f/5.6 <i>New!</i> f/6.8	135	75°	0	49	208mm	32	37	-	-	-	-	
	150	75°	0	49	231mm	45	50	12	16	-	-	
	180	75°	1	67	276mm	69	76	38	47	-	-	
	210	75°	1	72	316mm	91	98	60	72	2	3	
	240	75°	3	86	372mm	120	128	90	104	36	43	
	300	75°	3	100	448mm	159	168	130	146	79	91	
	360	68°	3	112	468mm	169	178	140	157	90	102	
sinaron-ws f/5.6	150	80°	1	72	252mm	56	63	26	33	-	-	
	210	80°	3	105	352mm	109	117	80	94	24	29	
	300	80°	3	127	490mm	180	190	152	169	102	115	
Macro sinaron f/5.6	210	64°	3	67	350mm	108	116	79	92	23	28	1:3
					525mm	202	208	170	188	121	135	1:1
					1050mm	463	474	436	457	393	414	3:1
	300	50°	3	77	360mm	115	123	85	99	30	36	1:3
					550mm	208	217	180	198	132	146	1:1
					1100mm	481	492	454	476	412	433	3:1
Apo sinaron f/9	150	48°	0	40.5	135mm	-	-	-	-	-	-	
	240	48°	1	49	212mm	35	39	-	-	-	-	
	300	48°	1	49	264mm	63	70	32	40	-	-	
	360	48°	3	58	318mm	92	99	62	74	3	4	
	480	46°	3	67	396mm	132	141	104	118	50	59	
	600	45°	-	95	496mm	-	-	156	172	106	119	

Footnotes for pricing chart (at right)

DBM Manual override already built in for smaller aperture openings. Manual override may be ordered for any DB lens or conversion kit at an additional charge. Order regular product number plus (24-1061).

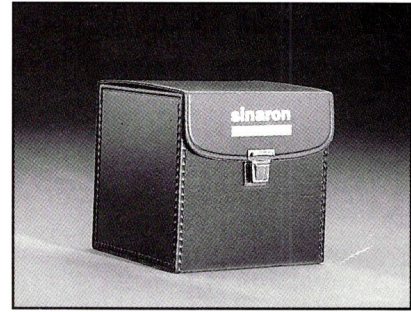
a) Camera movements are limited while focused at infinity.

sinaron Lenses

Lens Type	mm	DB mounted lenses are for use with Sinar automatic behind-the-lens shutters				Copal Mounted Lenses include:			
		DB Conversion Kits		DB Mount Lenses		<ul style="list-style-type: none"> • Lens precision mounted on Sinar lensboard • Leatherette storage case for lens on board • Board, mounting and case are a \$88.00 value included in prices below 			
		Prod. No.	Price	Prod. No.	Price	Prod. No.	Lensboard Mounting and Case	Price	
sinaron-w									
f/4.5	65	24-1101	\$425.00	24-3101a	\$1331.00	24-7201	\$88.00 N/C	\$1331.00	
f/4.5	75	24-1102	\$425.00	24-3102	\$1453.00	24-7202	\$88.00 N/C	\$1453.00	
f/4.5	90	24-1103	\$425.00	24-3103	\$1648.00	24-7203	\$88.00 N/C	\$1648.00	
f/6.8	75	24-1104	\$425.00	24-3104	\$964.00	24-7204	\$88.00 N/C	\$964.00	
f/6.8	90	24-1105	\$425.00	24-3105	\$1035.00	24-7205	\$88.00 N/C	\$1035.00	
f/6.8	115	24-1106	\$425.00	24-3106	\$1640.00	24-7206	\$88.00 N/C	\$1640.00	
f/6.8	155	N/A		N/A		24-7207	\$88.00 N/C	\$3519.00	
sinaron-s									
f/5.6	135	24-1110	\$425.00	24-3110	\$573.00	24-7210	\$88.00 N/C	\$573.00	
f/5.6	150	24-1111	\$425.00	24-3111	\$607.00	24-7211	\$88.00 N/C	\$607.00	
f/5.6	180	24-1112	\$425.00	24-3112	\$769.00	24-7212	\$88.00 N/C	\$769.00	
f/5.6	210	24-1113	\$425.00	24-3113	\$840.00	24-7213	\$88.00 N/C	\$840.00	
f/5.6	240	24-1114	\$595.00	24-3114	\$1333.00	24-7214	\$88.00 N/C	\$1333.00	
f/5.6 DBM	300	24-1115	\$820.00	24-3115	\$1771.00	24-7215	\$88.00 N/C	\$1771.00	
f/6.8 DBM	360	24-1116	\$820.00	24-3116	\$2008.00	24-7216	\$88.00 N/C	\$2008.00	
f/9.0 DBM	480	24-1117	\$820.00	24-3117	\$2709.00	24-7217	\$88.00 N/C	\$2709.00	
sinaron-se									
f/5.6	135	24-1130	\$425.00	24-3135	\$799.00	24-7235	\$88.00 N/C	\$799.00	
f/5.6	150	24-1131	\$425.00	24-3136	\$866.00	24-7236	\$88.00 N/C	\$866.00	
f/5.6 New!	180	24-1132	\$425.00	24-3137	\$1017.00	24-7237	\$88.00 N/C	\$1017.00	
f/5.6	210	24-1133	\$425.00	24-3138	\$1175.00	24-7238	\$88.00 N/C	\$1175.00	
f/5.6	240	24-1134	\$595.00	24-3139	\$1859.00	24-7239	\$88.00 N/C	\$1859.00	
f/5.6 DBM	300	24-1135	\$820.00	24-3140	\$2495.00	24-7240	\$88.00 N/C	\$2495.00	
f/6.8 DBM	360	24-1136	\$820.00	24-3141	\$2818.00	24-7241	\$88.00 N/C	\$2818.00	
sinaron-ws									
f/5.6	150	24-1118	\$425.00	24-3118	\$1264.00	24-7218	\$88.00 N/C	\$1264.00	
f/5.6	210	24-1119	\$820.00	24-3119	\$1937.00	24-7219	\$88.00 N/C	\$1937.00	
f/5.6	300	N/A		N/A		24-7220	\$88.00 N/C	\$3761.00	
Macro sinaron									
f/5.6	210	24-1121	\$595.00	24-3121	\$1709.00	24-7221	\$88.00 N/C	\$1709.00	
f/5.6 DBM	300	24-1122	\$820.00	24-3122	\$3225.00	24-7222	\$88.00 N/C	\$3225.00	
Apo sinaron									
f/9	150	24-1125	\$425.00	24-3125	\$795.00	24-7225	\$88.00 N/C	\$795.00	
f/9 DBM	240	24-1126	\$675.00	24-3126	\$1020.00	24-7226	\$88.00 N/C	\$1020.00	
f/9 DBM	300	24-1127	\$675.00	24-3127	\$1169.00	24-7227	\$88.00 N/C	\$1169.00	
f/9 DBM	360	24-1128	\$820.00	24-3128	\$1596.00	24-7228	\$88.00 N/C	\$1596.00	
f/9 DBM	480	24-1129	\$820.00	24-3129	\$1930.00	24-7229	\$88.00 N/C	\$1930.00	
f/9 CL	600	N/A		24-3130	\$3254.00	N/A		N/A	

Lens Boards for SINAR Cameras

Blank	24-1001	\$51.00
#0	24-1048	\$69.00
#1	24-1049	\$69.00
#3	24-1050	\$69.00
Manual Override for DB Conversion add	24-1061	\$235.00
Recess Board #0	24-1052	\$245.00
Recess Board #00	24-1053	\$245.00
X800 Board with spacer (State lens type)	24-1051	\$175.00
Linhof Lensboard Adapter - Allows use of Linhof Technika mounted lenses on SINAR cameras.	24-1005	\$345.00
Hasselblad Lens Adapter — Mount Hasselblad lenses for use with rollfilm holders	23-7008	\$199.00
Hasselblad Body Adapter	23-7007	\$473.00



Lens Box

Keep your large format lenses safe whether they're on location or on the shelf. Accommodates most lenses with lensboards.

24-1003 \$19.00

Lensboard Holder

Prevents accidentally released lenses from falling off the standard.

24-1002 \$17.00

DB Conversion Kits

Rodenstock DB Conversion

Lens Type	mm	DB Conversion Prod. #	Price
Grandagon f/4.5 105°	65	N/A	
	75	24-1082	\$425.00
	90	24-1084	\$425.00
Grandagon f/6.8	75	24-1086	\$425.00
	90	24-1088	\$425.00
	115	24-1090	\$425.00
	155	N/A	
Sironar-N f/5.6 72°	100	24-1014	\$425.00
	135	24-1013	\$425.00
	150	24-1015	\$425.00
	180	24-1016	\$425.00
	210	24-1017	\$425.00
f/6.8 64°	240	24-1029	\$595.00
	300	24-1030	\$820.00
	360	24-1031	\$820.00
	480	N/A	
Makro-Sironar f/5.6	210	24-1066	\$595.00
	300	24-1067	\$820.00
Apo-Sir. MC f/5.6	150	24-1091	\$425.00
	210	24-1092	\$820.00
Apo-Ronar f/9	150	24-1080	\$425.00
	240	24-1032	\$675.00
	300	24-1033	\$675.00
	360	24-1034	\$820.00
	420	24-1035	\$820.00
	480	24-1036	\$820.00
	600	N/A	

Schneider DB Conversion

Lens Type	mm	DB Conversion Prod. #	Price
Super Angulon 105° f 5.6	65	N/A	
	75	24-1021	\$425.00
	90	24-1022	\$425.00
Super Angulon 100° f/8	75	24-1023	\$425.00
	90	24-1019	\$425.00
	120	24-1020	\$675.00
	165	24-1071	\$2950.00
	210	24-1072	\$3225.00
Symmar -S 70° f/5.6	100	24-1024	\$425.00
	120	24-1073	\$425.00
	135	24-1025	\$425.00
* f/6.8 70°	150	24-1018	\$425.00
	180	24-1026	\$425.00
	210	24-1027	\$425.00
* f/8.4 56°	240	24-1028	\$595.00
	300	24-1007	\$820.00
Sup. Symmar HM 80° f 5.6	150	24-1076	\$425.00
	210	24-1077	\$595.00
Apo-Symmar f 5.6	120	24-1093	\$425.00
	150	24-1094	\$425.00
	210	24-1095	\$425.00

Nikkor DB Conversion Kits

Lens Type	mm	DB Conversion Prod. #	Price
Nikkor SW f/4.5	75	24-1068	\$425.00
	90	24-1044	\$425.00
f/8	90	24-1075	\$425.00
Nikkor W f/5.6	100	24-1069	\$425.00
	135	24-1037	\$425.00
	150	24-1038	\$425.00
	180	24-1039	\$425.00
	210	24-1040	\$425.00
Nikkor W f/6.3	240	24-1041	\$595.00
	300	24-1042	\$820.00
Nikkor M f/9	300	24-1046	\$675.00
	450	24-1063	\$820.00
Nik. AM-ED f5.6	120	24-1070	\$425.00

Many lenses not shown here can also be DB mounted. If you don't see your lens here, contact our Service Department for more information.

* DB conversion of lenses marked with an asterisk may not be possible. Contact Sinar Bron for details.

See The World In Color

Sinar Color Control Filters

Color Correction Filters

"CC" filters, as their name implies, are used to correct color casts caused by the balance of your film, the color of the light or reciprocity failure. The designation of each filter indicates its color and density (eg. CC20M is an 0.20 Magenta filter). Each CC filter absorbs its complementary color, as shown here:

<i>For This Color Cast</i>	<i>Use This CC Filter</i>	<i>For This Color Cast</i>	<i>Use This CC Filter</i>
Cyan	Red	Red	Cyan
Yellow	Blue	Blue	Yellow
Magenta	Green	Green	Magenta

CC (and CTC) filters are especially useful for correcting the color casts of fluorescent lights. Below are some approximate filter combinations for popular types of fluorescent lights. Only testing can determine the exact filtration for any given situation.

<i>Type of Tube</i>	<i>Daylight Film</i>	<i>Tungsten Film</i>
Daylight	40Y+40M	30Y+40M+CTC 85B
White	30M+20C	50Y+60M
Warm White	40M+40C	40Y+50M
Warm White Dlx.	30M+60C	10Y+10M
Cool White	30M	50R+10R
Cool White Deluxe	10M+20C	40Y+20M

Color Temperature Correction Filters

"CTC" filters compensate for differences between the color temperature of the light source and the film's own color balance. There are two basic types of CTC filters, those which have a warming effect, and those which have a cooling effect.

- **81 and 85 designations are warming filters**, with the yellowish 81 series weaker than the orange 85's.
- **The 80 and 82 series are cooling filters**, with the series 80 filters providing the most correction.
- **Color temperature meters** such as the Broncolor FCC will tell you the correction needed for your type of film.

Neutral Density Filters

"ND" filters reduce the amount of light entering the lens without affecting color temperature. They are calibrated in 1/3 f-stops, so an ND3 filter would reduce light transmission by one f-stop.

You can use neutral density filters to shoot at large

apertures or slow shutter speeds in bright-light situations. This allows you more creative flexibility with selective focus and shallow depth of field. With enough ND filtration, you can even use time exposure to make a fast-moving crowd disappear in broad daylight.

Graduated Filters

Graduated filters increase in density over their length, providing a smooth gradation of color or density across your image.

- **Neutral density graduates** let you compensate for drastic exposure differences by, for example, reducing the intensity of the sky in a photograph while leaving the

rest of the image unchanged.

- **Colored graduates** provide a gradual increase in color, creating exciting possibilities when you selectively add color casts to parts of your image. Different combinations of aperture and lens-to-filter distance let you achieve as gradual or abrupt a graduation as you desire.

Black and White Contrast Filters

Contrast filters used in black and white photography pass light of their own color while blocking others.

- **To darken a particular color, use the opposite filter.**
To darken a blue sky for added impact, use a yellow (holds back blue) or red (holds back cyan) filter. Blue light is held

back, so blue areas appear underexposed. The sky darkens, and clouds appear to stand out.

- **Lighten a color with a filter of the same color.** For example, a green or yellow/green filter will lighten foliage, which often reproduces darker in black and white.

Special Filters

These filters give you the capability to fine-tune the appearance of your image.

- **Polarizing filters** use their unique light-absorbing characteristics to reduce unwanted reflections and increase color saturation.

- **Diffusion and soft focus filters** use a textured surface to deliberately soften your image. The **fog filter** uses a slightly milky layer for a similar effect.

- **Star filters** create 4, 6 or 8-point stars wherever a spot of light occurs in the image.

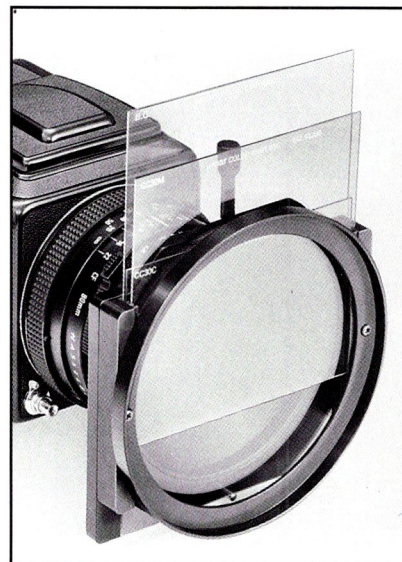
SINAR Color Control Filter System

The SINAR COLOR CONTROL filter system is designed for the practical professional and meets all needs. The filters are made of a special synthetic resin that transmits more light than glass, yet has a lower refractive index.

Optically, SINAR COLOR CONTROL filters match the best dyed-in-the-mass glass filters - but without the latter's weight, fragility, and cost problems. Moreover, dyeing optical glass is restricted to just a few hues. SINAR COLOR CONTROL filters, on the other hand, rely on a new mass-dyeing process for any hue and density.

SINAR COLOR CONTROL FILTERS

- Are optically plane parallel.
- Are lightweight, virtually unbreakable, and scratch-resistant.
- Offer precise, edge-to-edge uniform density and coloration.
- Are dyed-in-the-mass and therefore show consistent optical characteristics.
- Precisely meet Kodak absorption standards.
- Fit ALL camera systems of ALL sizes.
- Are equally usable on video and movie cameras.



COLOR CORRECTION	125 mm 5 inch \$89.00	100 mm 4 inch \$32.00	75 mm 3 inch \$19.00
CYAN 025	59-1103	59-2103	59-3103
CYAN 05	59-1105	59-2105	59-3105
CYAN 10	59-1110	59-2110	59-3110
CYAN 15	59-1115	59-2115	59-3115
CYAN 20	59-1120	59-2120	59-3120
CYAN 30	59-1130	59-2130	59-3130
CYAN 40	59-1140	59-2140	59-3140
CYAN 50	59-1150	59-2150	59-3150
MAGENTA 025	59-1203	59-2203	59-3203
MAGENTA 05	59-1205	59-2205	59-3205
MAGENTA 10	59-1210	59-2210	59-3210
MAGENTA 15	59-1215	59-2215	59-3215
MAGENTA 20	59-1220	59-2220	59-3220
MAGENTA 30	59-1230	59-2230	59-3230
MAGENTA 40	59-1240	59-2240	59-3240
MAGENTA 50	59-1250	59-2250	59-3250
YELLOW 025	59-1303	59-2303	59-3303
YELLOW 05	59-1305	59-2305	59-3305
YELLOW 10	59-1310	59-2310	59-3310
YELLOW 15	59-1315	59-2315	59-3315
YELLOW 20	59-1320	59-2320	59-3320
YELLOW 30	59-1330	59-2330	59-3330
YELLOW 40	59-1340	59-2340	59-3340
YELLOW 50	59-1350	59-2350	59-3350

COLOR CORRECTION	125 mm 5 inch \$89.00	100 mm 4 inch \$32.00	75 mm 3 inch \$19.00
RED 025	59-1403	59-2403	59-3403
RED 05	59-1405	59-2405	59-3405
RED 10	59-1410	59-2410	59-3410
RED 15	59-1415	59-2415	59-3415
RED 20	59-1420	59-2420	59-3420
RED 30	59-1430	59-2430	59-3430
RED 40	59-1440	59-2440	59-3440
RED 50	59-1450	59-2450	59-3450
GREEN 025	59-1503	59-2503	59-3503
GREEN 05	59-1505	59-2505	59-3505
GREEN 10	59-1510	59-2510	59-3510
GREEN 15	59-1515	59-2515	59-3515
GREEN 20	59-1520	59-2520	59-3520
GREEN 30	59-1530	59-2530	59-3530
GREEN 40	59-1540	59-2540	59-3540
GREEN 50	59-1550	59-2550	59-3550
BLUE 025	59-1603	59-2603	59-3603
BLUE 05	59-1605	59-2605	59-3605
BLUE 10	59-1610	59-2610	59-3610
BLUE 15	59-1615	59-2615	59-3615
BLUE 20	59-1620	59-2620	59-3620
BLUE 30	59-1630	59-2630	59-3630
BLUE 40	59-1640	59-2640	59-3640
BLUE 50	59-1650	59-2650	59-3650

Sinar Color Control Cleaning Kit

SCC filters should only be cleaned with this specially formulated solution. Use of other cleaning agents may

fog the filter. Kit contains solution and cleaning cloth.

51-0079\$33.00

SINAR Color Control Filter System

COLOR TEMPERATURE CORRECTION	125 mm 5 inch \$99.00	100 mm 4 inch \$36.00	75mm 3 inch \$22.00	NEUTRAL DENSITY	125 mm 5 inch \$199.00	100 mm 4 inch \$98.00	75mm 3 inch \$42.00
CTC 80A	59-1801	59-2801	59-3801	0.1 N.D. (1/3 stop)	59-1010	59-2010	59-3010
CTC 80B	59-1802	59-2802	59-3802	0.2 N.D. (2/3 stop)	59-1020	59-2020	59-3020
CTC 80C	59-1803	59-2803	59-3803	0.3 N.D. (1 stop)	59-1030	59-2030	59-3030
CTC 80D	59-1804	59-2804	59-3804	0.6 N.D. (2 stop)	59-1040	59-2040	59-3040
CTC 81	59-1810	59-2810	59-3810	0.9 N.D. (3 stop)	59-1050	59-2050	59-3050
CTC 81A	59-1811	59-2811	59-3811	POLARISERS	\$565.00	\$369.00	
CTC 81B	59-1812	59-2812	59-3812		59-1750	59-2750	N/A
CTC 81C	59-1813	59-2813	59-3813	GRADUATES	\$199.00	\$75.00	
CTC 81D	59-1814	59-2814	59-3814	YELLOW	59-1903	59-2903	N/A
CTC 81EF	59-1815	59-2815	59-3815	BLUE	59-1906	59-2906	
CTC 82	59-1820	59-2820	59-3820	CHOCOLATE	59-1910	59-2910	
CTC 82A	59-1821	59-2821	59-3821	SEPIA	59-1911	59-2911	
CTC 82B	59-1822	59-2822	59-3822	TOBACCO	59-1912	59-2912	
CTC 82C	59-1823	59-2823	59-3823	VIOLET	59-1913	59-2913	
CTC 85	59-1850	59-2850	59-3850	CORAL	59-1914	59-2914	
CTC 85B	59-1852	59-2852	59-3852	PINK	59-1915	59-2915	
CTC 85C	59-1853	59-2853	59-3853	TWILIGHT	59-1916	59-2916	
BLACK & WHITE	\$89.00	\$32.00	\$19.00	SUNSET	59-1917	59-2917	
# 8 YELLOW	59-1703	59-2703	59-3703		\$199.00	\$95.00	
#25 RED	59-1704	59-2704	59-3704	0.3 N.D. (0-1 stop)	59-1930	59-2930	
#1A SKYLIGHT	59-1710	59-2710	59-3710	0.6 N.D. (0-2 stop)	59-1960	59-2960	
#2B UV	59-1715	59-2715	59-3715	0.9 N.D. (0-3 stop)	59-1990	59-2990	
#16 ORANGE	59-1720	59-2720	59-3720	SPECIAL EFFECT	\$117.00	\$46.00	
#38 LIGHT BLUE	59-1725	59-2725	59-3725	SOFT FOCUS	59-1751	59-2751	59-3751
#47B DARK BLUE	59-1726	59-2726	59-3726	DIFFUSER 1D	59-1752	59-2752	59-3752
#11 YEL./GREEN	59-1730	59-2730	59-3730	DIFFUSER 3D	N/A	59-2770	N/A
#58 GREEN	59-1705	59-2705	N/A	DIFFUSER 6D	N/A	59-2757	N/A
				FOG	59-1753	59-2753	59-3753
				STAR 4MM 4 PT.	59-1756	59-2756	59-3756
				STAR 4MM 6 PT.	59-1754	59-2754	59-3754
				STAR 4MM 8 PT.	59-1755	59-2755	59-3755

Color Meter Kit

The SINAR Color Meter Kit includes all filters necessary to make color corrections based on readings from the Broncolor FCC or the Minolta Color Meter. It also includes a filter wallet for storage and a SINAR Color Control Filter cleaning kit.

1- 100mm Wallet (with 100mm kit only)

1- Filter Cleaning Kit

12- Color Correction Filters: Magenta, Green each in 6 Densities (0.025, 0.05, 0.10, 0.20, 0.30, 0.40)

17- Color Temperature Filters: Blue (80A, 80B, 80C, 80D, 82, 82A, 82B, 82C)

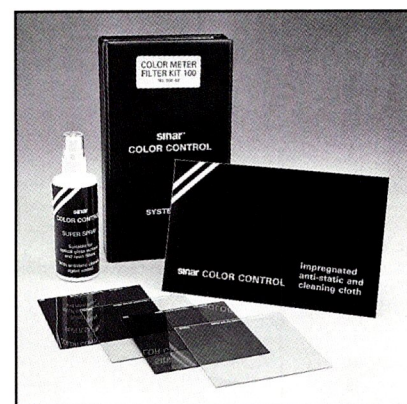
Orange (81, 81A, 81B, 81C, 81D, 81EF, 85, 85B, 85C)

75mm Kit

51-3200 \$695.00

100mm Kit

51-2200 \$880.00



SINAR Color Control Filter System Kits



100mm Standard Kit

Includes:

- 1 100mm Wallet
- 1 SCC Filter Cleaning Kit
- 1 Filterholder
- 2 Adapters - M67, M82
- 18 CC Filters: Cyan, Magenta, Yellow, Red, Green, Blue
each in 0.05, 0.10, 0.20 Densities
- 2 Color Temperature Correction Filters: 80A blue, 85B orange
- 3 Black and White Contrast Filters: 1A skylight, 11 yellow/green, 16 orange
- 2 Neutral Density Filters: 0.3ND, 0.6ND
- 3 Special Effects Filters: Polarizer, soft-focus, 4mm-6pt. star filter
- 2 Graduated Filters: 0.6ND, Tabac

30 Filters total
51-2600 \$1750.00

125mm Standard Kit

Includes:

- 1 Filter Case (55-1771)
- 1 SCC Filter Cleaning Kit
- 2 Filterholders (55-1711, 55-1721)
- 2 Adapters - M67, M82
- 18 CC Filters: Cyan, Magenta, Yellow, Red, Green, Blue
each in 0.05, 0.10, 0.20 Densities
- 2 Color Temperature Correction Filters: 80A blue, 85B orange
- 3 Black and White Contrast Filters: 1A skylight, 11 yellow/green, 16 orange
- 2 Neutral Density Filters: 0.3ND, 0.6ND
- 3 Special Effects Filters: Polarizer, Soft-focus, 4mm-6pt. star filter
- 2 Graduated Filters: 0.6ND, Tabac

30 Filters total
51-1600 \$3295.00

Expert Filter Kits

100mm Expert Kit

Includes:

- 1 100mm Wallet
- 1 SCC Filter Cleaning Kit
- 4 Adapters
M49, M58, M77, Hasselblad 60
- 36 CC Filters
Cyan, Magenta, Yellow, Red, Green, Blue
each in 0.025, 0.05, 0.10, 0.15, 0.20, 0.30 Densities
- 5 Color Temperature Correction Filters
80A blue, 81A orange, 82A blue, 85 orange, 85B orange
- 8 Black and White Contrast Filters
#1A skylight, #8 yellow, #11 yellow/green, #16 orange, #25 red, #59 light green, #2B ultraviolet, #38 light blue
- 3 Neutral Density Filters
0.3ND, 0.6ND, 0.9ND
- 5 Special Effects Filters
Polarizer, soft-focus, diffuser, 4mm-6pt. star filter, 4mm-8pt. star filter
- 5 Graduated Filters
0.3ND, 0.6ND, 0.9ND, Tabac, Blue

62 Filters total
51-2700 \$3100.00

125mm Expert Kit

Includes:

- 1 Filter Storage Box
- 1 SCC Filter Cleaning Kit
- 5 Adapters
M49, M58, M77, M82, M86
- 36 CC Filters
Cyan, Magenta, Yellow, Red, Green, Blue
each in 0.025, 0.05, 0.10, 0.15, 0.20, 0.30 Densities
- 5 Color Temperature Correction Filters
80A blue, 81A orange, 82A blue, 85 orange, 85B orange
- 8 Black and White Contrast Filters
#1A skylight, #8 yellow, #11 yellow/green, #16 orange, #25 red, #59 light green, #2B ultraviolet, #38 light blue
- 3 Neutral Density Filters
0.3ND, 0.6ND, 0.9ND
- 5 Special Effects Filters
Polarizer, soft-focus, diffuser, 4mm-6pt. star filter, 4mm-8pt. star filter
- 5 Graduated Filters
0.3ND, 0.6ND, 0.9ND, Tabac, Blue

62 Filters total
51-1700 \$6395.00

Filterholders and Adapter Rings



Filterholder 100

Holds three 100mm (4 inch) filters. Attaches to lens threads with an adapter ring, or to rear element with behind the lens adapter. Includes 3-25mm lens shades.

55-2751 \$195.00

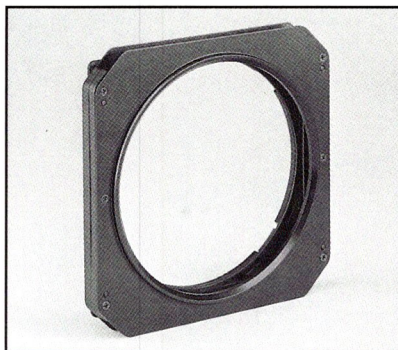
Replacement Tube 25mm

for Filterholder 100.

55-2010 \$17.00

Cap for Filterholder 100

55-2750 \$13.00



Filterholder-1

Holds one 125mm (5 inch) filter. Attaches to lens threads with adapter ring. Can take 4x5 bellows or Bellows Hood Mask II on the front, and allows them to rotate 360°.

55-1711 \$210.00

Filterholder-2

Same as Filterholder-1, for two filters.

55-1721 \$230.00



Swing-in Polarizer Holder

Sinar has reintroduced the popular swing-in polarizer holder. The holder mounts on a filter rod in front of the lens and swings 180 degrees out of the shooting position. This allows you to set the desired effect by viewing directly through the polarizer and then rotate the filter back in front of the camera without changing its effect. Requires Sinar polarizing filter.

100mm Polarizer Holder

23-7024 \$153.00

125mm Polarizer Holder

23-7025 \$153.00

100mm Adapter Rings			125mm Adapter Rings		
Size	Cat. #	Price	Size	Cat. #	Price
40mm	58-2040	\$49.00	40mm *	58-1040	\$87.00
49mm	58-2049	\$49.00	49mm *	58-1049	\$87.00
52mm	58-2052	\$49.00	52mm *	58-1052	\$87.00
55mm	58-2055	\$49.00	55mm *	58-1055	\$87.00
58mm	58-2058	\$49.00	58mm *	58-1058	\$87.00
62mm	58-2062	\$49.00	67mm *	58-1067	\$87.00
67mm	58-2067	\$49.00	72mm *	58-1072	\$87.00
72mm	58-2072	\$49.00	77mm *	58-1077	\$87.00
77mm	58-2077	\$49.00	82mm *	58-1082	\$87.00
82mm	58-2082	\$49.00	86mm *	58-1086	\$87.00
86mm	58-2086	\$49.00	95mm *	58-1095	\$87.00
Rollei	58-2271	\$98.00	100mm	58-1100	\$87.00
Hass.-70	58-2272	\$98.00	105mm	58-1105	\$87.00
Hass.-60	58-2270	\$98.00	110mm	58-1110	\$87.00
Hass.-50	58-2269	\$98.00	112mm	58-1112	\$87.00
Behind the Lens Adapters Select by rear lens element diameter			120mm	58-1120	\$87.00
			127mm	58-1127	\$87.00
42mm for 31.5-42mm	58-3042	\$65.00	* These rings may also be used with the 100mm filter system, but they may cause some inconvenience because of their larger external diameter.		
60mm for 42.1-60mm	58-3060	\$65.00			
80mm for 60.1-80mm	58-3080	\$65.00			

Filterholder for Behind the Lens Shutters

Allows you to mount three 100mm filters (excluding graduates) inside the camera when using the Auto Aperture, Digital or Expolux behind-the-lens shutters.

58-3000 \$49.00

Wood Filter Box

This lightweight container holds 10 4-inch SCC filters, except for graduates.

55-1769 \$49.00

Filter Wallet

Holds 30 100mm / 4 inch filters.

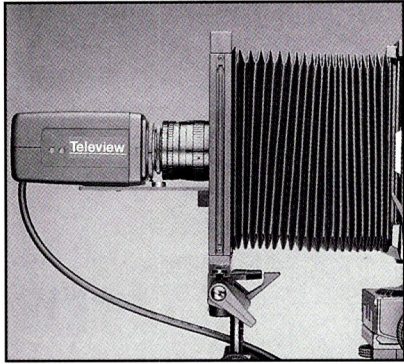
55-2772 \$53.00

Filter Storage Box

Holds 30 125mm filters, 4 graduates, 1 Filterholder-1, 1 Filterholder-2, 6 adapters and 1 filter cleaning kit.

55-1771 \$310.00

Teleview Video Preview System



Teleview Camera

This compact high resolution video camera attaches to the back of a SINAR view camera via the multipurpose standard f1. It allows you to view the ground glass on the set via a monitor (sold separately) as opposed to climbing up and down a ladder.

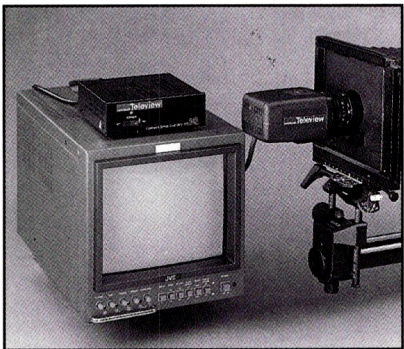
The camera comes complete with a special flat field lens, drive unit, and camera adapter.

26-1010 **\$2350.00**

Cables

BNC to BNC cable to connect drive unit to monitor.

26-1015 **\$50.00**



Teleview Package 4x5

This package includes the Teleview camera (26-1010), cables (26-1015), JVC TMR9U Monitor (26-1025), Multi-purpose standard (23-2210) and 4x5 Square bellows (23-3004).

26-1001 **\$3995.00**

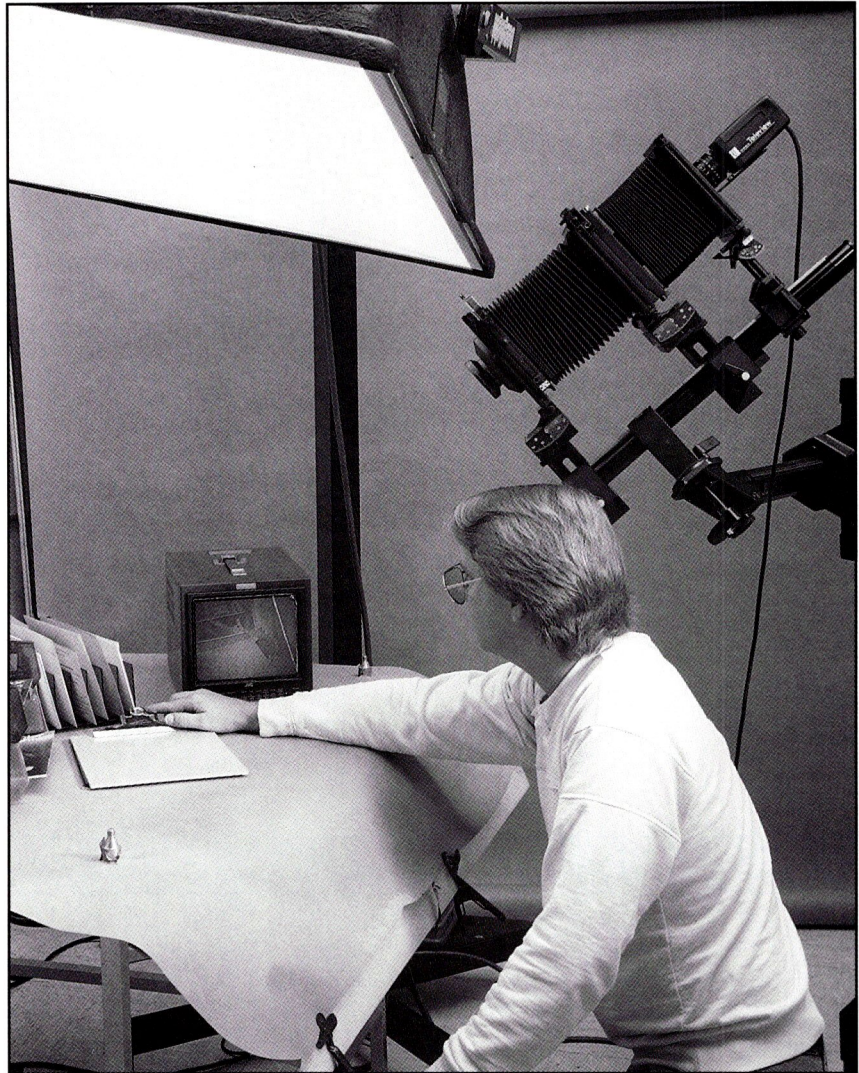
Camera Back Package 8x10

Same package as above but with the 8x10 bellows (23-3008) in place of the 4x5 square bellows for use on 8x10.

26-1005 **\$4495.00**

JVC TMR9U 9" Monitor

26-1025 **\$950.00**



The Teleview Package allows you to see changes in your set from the camera position as you make them.

Order by Phone

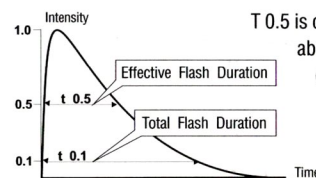
It's fast and it's easy.
Call our toll free order line
from 9 am to 5 pm Eastern.

(800) 456-0203

The Broncolor System

	Minipuls 40	Minipuls 80	Compuls 95	Primo	Primo A	Opus 2	Opus 4	Opus A2	Opus A4	Opus A8	Pulso A2	Pulso A4
Capacity	300Ws	600Ws	950Ws	1600Ws	1600Ws	1600Ws	3200Ws	1600Ws	3200Ws	2x3200Ws	1600Ws	3200Ws
Output ¹	f/32	f/45	f/45 ² / ₃	f/64 ¹ / ₃	f/64 ¹ / ₃	f/64 ¹ / ₃	f/90 ¹ / ₃	f/64 ¹ / ₃	f/90 ¹ / ₃	f/128 ¹ / ₃	f/64 ¹ / ₃	f/90 ¹ / ₃
Minimum Duration t 0.1	1/400	1/250	1/350	1/700	1/700	1/530	1/270	1/530	1/270	1/230	1/6000	1/6000
t 0.5	1/1250	1/800	1/1000	1/1700	1/2200	1/1700	1/850	1/1700	1/850	1/700		
100% Recycle Time	1.7 sec	2.3 sec	0.5-1.5 sec	1.4-2.5 sec	1.4-2.5 sec	0.5-1.8 sec.	1.0-3.5 sec.	0.2-1.8 sec.	0.3-3.5 sec.	0.8-6.9 sec.	0.2-1.9 sec.	0.3-3.6 sec.
Cordless Triggering	Separate IR Triggering or White Light Slave			Photocell	Photocell	Separate Infrared Triggering or White Light Slave						
Adjustment Range	3 stops	3 stops	4 stops	3 stops	3 stops	4 stops	4 stops	4 stops	4 stops	4.3 stops	6 stops	6 stops
Adjustment Increments	1/3 stops	1/3 stops	1/3 or 1/10	1/3 stops	1/3 stops	1/3 or 1/10	1/3 or 1/10	1/3 or 1/10	1/3 or 1/10	1/3 or 1/10	1/3 or 1/10	1/3 or 1/10
Prop. Modeling Light	250W	250W	250W	250W	250W	250W	250W	250W	250W	250W	250W	250W
Distribution	—	—	—	Symm	Asymm	Symm	Symm	Asymm/Symm	Asymm/Symm	Asymm/Symm	Asymm/Symm	Asymm/Symm
Lamphead Outlets	—	—	—	3	3	3	3	3	3	3	4	4
Flash Sequence	—	—	Yes	—	—	Yes ²	Yes ²	Yes ²	Yes ²	Yes ²	Yes ²	Yes ²
Trigger Delay	—	—	Yes	—	—	0.1-9.9 sec.	0.1-9.9 sec.	0.1-9.9 sec.	0.1-9.9 sec.	0.1-9.9 sec.	0.01-99.99 sec.	0.01-99.99 sec.
Sequence Delay	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes
"Ping Pong" Release ³	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TTL Metering ⁴	—	—	—	—	—	—	—	—	—	—	Yes	Yes
Flash Duration Control	—	—	—	Possible with addition of Varipuls						Yes	Yes	
Color Temp. Control	—	—	—	—	—	—	—	—	—	—	Yes	Yes
Stroboscopic Mode	—	—	—	—	—	—	—	—	—	—	Yes	Yes
Remote Capability ⁵	Yes	Yes	Yes	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Triggering Channels ⁶	All	All	2	—	—	2	2	2	2	2	2	2
Buzzer On/Off	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Requirements	100-240V Automatic, 6A		110V/15A	110-240V	110-240V	110V/15A	110V/15A	110V/15A	110V/15A	110V/15A	110V/15A	110V/15A
Dimensions	5x7x15	5x7x15	16x9x7	11x7x11	11x7x11	7x11x11	7x11x14	7x11x11	7x11x14	7x11x18	8x13x14	8x13x16
Weight	7 lb.	8 lb.	14 lb.	14 lb.	14 lb.	16 lb.	23 lb.	16 lb.	23 lb.	34 lb.	30 lb.	36 lb.
Catalog Number	11-1040	11-1080	11-1025	10-2008	10-2018	10-0020	10-0040	10-0025	10-0045	10-0085	10-1025	10-1045
Price	\$1190.00	\$1490.00	\$1990.00	\$1790.00	\$2090.00	\$3390.00	\$4990.00	\$4390.00	\$6190.00	\$7490.00	\$6290.00	\$8190.00

- Output measured at 6 1/2 feet (2 meters) with P70 reflector, ISO 100.
- Trigger delay and flash sequence can be combined on these packs.
- "Ping Pong" release fires two packs alternately for ultra-fast recycling.
- TTL metering requires dedicated module.
- Remote control with Servo 3 transmitter for Pulso/Opus, dedicated remotes for Compuls & Minipuls.
- Infrared triggering with IRI, IRS, IRS-E units.



T 0.5 is considered nominal flash duration. It measures the duration of the flash above 50% power. It is the standard used by most manufacturers; use it to compare Broncolor to other packs. T 0.1 is total flash duration. Because it measures the flash above 10% power, taking into account the trailing end of the flash curve, it is an accurate representation of actual motion stopping capability. T 0.1 measurements are virtually equivalent to camera shutter speeds.

Broncolor Breaks the Price/Performance Barrier

Until now, photographers shopping for a lighting system often faced a compromise — pay more for a system with top of the line performance, or sacrifice things like safety, efficiency and ease of use for a more affordable system.

With the introduction of the new Primo and Primo A power packs, Broncolor has brought their legendary lighting expertise into

a completely new price range. Primo features the same reliability, safety and ease of use photographers have come to expect from Broncolor. The packs are compatible with the entire Broncolor system, making the industry's widest selection of reflectors and specialized accessories

Broncolor has brought their legendary lighting expertise into a completely new price range.

available to more photographers than ever before.

Existing Broncolor owners can also benefit from the new Primo packs. Because they have the same power output as corresponding Pulso and Opus packs, they can be easily integrated into existing Broncolor studios. Current Broncolor users can expand their lighting capabilities without a substantial additional investment.

The system is further expanded by the Primo lamphead, the most compact and affordable Broncolor head available. Like the Primo packs, they make it easier for new and old users alike to build a complete lighting system.

Making the Right Lighting Decisions

Shopping for power packs by comparing watt-second ratings is a little like shopping for cars by comparing the size of their gas tanks.

The important factor is not how much energy your pack can store, but how much light it can create with that energy. What this means is that you can't rely on watt-second ratings as a measure of how much light you're going to get.

One manufacturer's pack rated at 3200Ws does not necessarily put out twice as much light as another company's 1600Ws pack.

And when you're talking about efficiency, all power packs are not created equal. A lot of things happen to your flash energy between the capacitors and your film — there are

cables, connections, plugs, more cables, flashtubes and reflectors. Any or all of these can reduce the efficiency of a power pack.

So, with some packs you may think you're getting a bargain in terms of dollars per watt-second, but in reality it might take two of those bargain packs to give you the same amount of light as a single, more efficient unit.

How, then, can you make an intelligent buying decision?

Just grab your light meter and head down to your local professional dealer. Place two units side by side with standard reflectors, at the same power level. Measure the light output from both units at the same distance and ISO setting. You might be surprised at the result.

Electronic Flash Duration

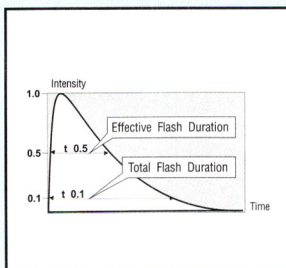
When an electronic strobe fires, it does not produce a steady amount of light during the flash. Rather, it peaks quickly and then trails off gradually, as you can see in the curve below. Because the curve has no specifically defined end, artificial definitions are required in order to compare curves of different durations with each other.

Effective flash duration $t 0.5$ gives you the time between flash power reaching half of its maximum intensity to falling back to half of that intensity again.

Total flash duration $t 0.1$ indicates the corresponding time between the 10% points of the curve.

$t 0.5$ is the one used traditionally and is normally stated in brochures and data sheets. The problem with $t 0.5$ is that it doesn't take into account much of the tail of the flash curve, so if a manufacturer's specified $t 0.5$ flash duration is, for example, $1/1000$ of a second, the actual duration will be substantially longer.

If *actual* flash duration is important for you, you must refer to $t 0.1$ measurements. As you can see on the curve and in the photos, a $t 0.1$ measurement includes the light at the tail end, giving you a measurement virtually equivalent to camera shutter speed.



The Flash Curve



Camera Shutter, 1/500 sec.



1/500 sec. at $t 0.5$



1/500 sec. at $t 0.1$

Primo Power Packs

Primo Powerpack

The new Primo power packs have all the power and reliability you've come to expect from Broncolor, at a surprisingly low cost, small size and light weight.

Primo is compatible with all the existing Broncolor lampheads and accessories, which means it's even easier for photographers on a budget to get started in the Broncolor system.

Current Broncolor owners will appreciate the way Primo fits into their existing systems as a low-cost way to expand.

The fixed asymmetric system of the Primo A lets you choose your power distribution by selecting the proper combination of lamphead outlets.



Primo/Primo A features include:

- 1600Ws power
- Broncolor's most affordable power packs
- Compact and lightweight
- Extremely simple to operate
- Compatible with all existing Broncolor heads and accessories
- Symmetric and asymmetric versions
- 3 f/stop range in 1/3 stop increments
- Dual voltage — can be used anywhere in the world
- Automatic proportional modeling light
- Slow recycle mode
- Built-in white light slave

Primo Lamphead

The Primo head is designed to complement the reduced size and weight of the Primo packs. It is fan cooled and accepts all standard Broncolor accessories.

Includes flashtube, modeling lamp and protection cap.

12-1018 \$590.00

	<i>primo</i>	<i>primo A</i>
Capacity	1600Ws	1600Ws
Output*	f/64 ^{1/3}	f/64 ^{1/3}
Flash Duration t 0.5	1/700-1/1700	1/700-1/2200
Flash Duration t 0.1**	1/230-1/530	1/230-1/810
100% Recycle Time	1.4-2.5sec	1.4-2.5 sec.
Triggering	Sync Cable / Photocell	
Adjustment Range	3 Stops in 1/3 stop increments	
Modeling Light	300 W proportional to flash power	
Distribution	Symmetrical	Asymmetrical
Lamphead Outlets	3	3
Dimensions	10.75"x6.5"x10.75"	10.75"x6.5"x10.75"
Weight	14.3 lbs.	14.3 lbs.
Catalog Number	10-2008	10-2018
Price	\$1790.00	\$2090.00

* Output measured at 6 1/2 feet (2 meters) at ISO 100 with a P70 reflector

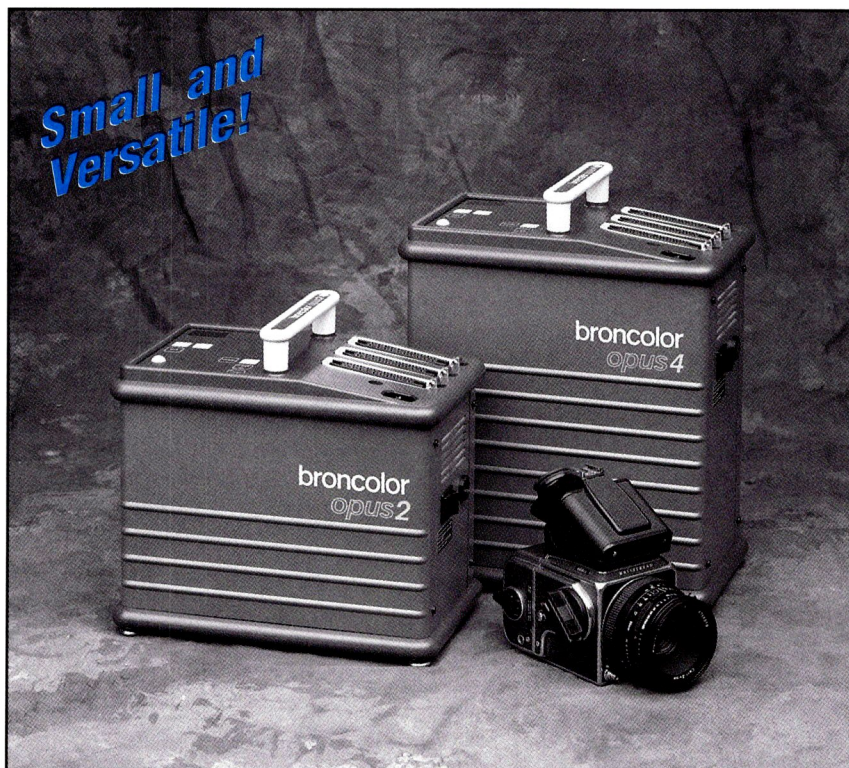
** t 0.1 is a measure of flash duration which is comparable to actual shutter speeds.

Order by Phone

It's fast and it's easy.
Call our toll free order line
from 9 am to 5 pm Eastern.

(800) 456-0203

Opus Power Packs



Broncolor Opus power packs combine light weight and low cost with many of Pulso's most advanced features.

Its extremely compact design makes Opus an ideal location unit. Because the packs are compatible with the Pulso accessory line, there is no compromise in terms of flexibility.

Opus packs are offered in 1600 and 3200Ws versions, providing the same output as equivalent Pulso A packs. All pack functions are controlled by Broncolor's familiar electronic touch-pad. Functions of these microprocessor-controlled packs include:

- Extremely compact size and light weight
- High output due to greater efficiency
- 4-stop range
- 1/10 or 1/3 stop adjustments
- 3 lamphead connectors
- Trigger Delay
- Flash Sequence
- "Ping Pong" alternate triggering
- Multiple pack stroboscopic mode
- Infrared control of power levels with FCM Meter
- Full remote capability with Servor 3
- Built-in infrared / white light slave
- Audible ready signal
- Wildcard function allows future program expansion
- Compatible with the entire Broncolor accessory line

	<i>opus 2</i>	<i>opus 4</i>
Capacity	1600Ws	3200Ws
Output*	f/64 ^{1/3}	f/90 ^{1/3}
Flash Duration t 0.1**	1/230-1/530	1/120-1/270
t 0.5	1/700-1/1700	1/350-1/850
100% Recycle Time	0.5-1.8 sec.	1.0-3.5 sec.
Triggering	IR/Cord/Cell	IR/Cord/Cell
Adjustment Range	4 stops in 1/10 or 1/3 stop increments	
Modeling Light	250 W proportional to flash power	
Distribution	Symm.	Symm.
Lamphead Outlets	3	3
Special Features	Flash Sequence, Trigger Delay, "Ping Pong" Alternating Release, Sequence Shift, 8 Servor Remote Addresses, 2 Studio and 2 IR Channels, Buzzer on/off	
Power Requirements	110V/15A	110V/15A
Dimensions	7x11x11	7x11x14
Weight	16 lb.	23 lb.
Catalog Number	10-0020	10-0040
Price	\$3390.00	\$4990.00

* Output measured at 6 1/2 feet (2 meters) at ISO 100 with a P70 reflector

** t 0.1 is a measure of flash duration which is comparable to actual shutter speeds. The more common t 0.5 measurement is approximately 3 times faster, but does not accurately reflect motion-stopping capability.

**Ask Your
Dealer**

**About Sinar Bron's
current promotions**

Opus A Power Packs

The Opus A2 and A4 are even more versatile, low-cost asymmetric versions of the Opus 2 and 4.

By splitting the capacitors into two separate banks, you can vary the output on each channel independently of the other for asymmetric control accurate to 1/10 f-stop.

And now, Broncolor has topped off the Opus A line with the new Opus A8. At 2x3200Ws, it can deliver a full 6400Ws through a twin lamphead, while still operating on 110V!



Opus and Pulso A packs let you set up shots like this in a flash.



broncolor
Opus

	<i>opus A2</i>	<i>opus A4</i>	<i>110V Power</i> <i>opus A8</i>
Capacity	1600Ws	3200Ws	6400Ws
Output*	f/64 ^{1/3}	f/90 ^{1/3}	f/128 ^{1/3} **
Flash Duration t 0.1***	1/230-1/530	1/120-1/270	1/120-1/230
t 0.5	1/700-1/1700	1/350-1/850	1/350-1/700
100% Recycle Time	0.5-1.9 sec.	0.7-3.6 sec.	0.8-6.9 sec.
Triggering	IR/Cord/Cell	IR/Cord/Cell	IR/Cord/Cell
Adjustment Range	5.7 stops in 1/10 or 1/3 stop increments		4.3 stops
Modeling Light	250 W proportional to flash power, full, dim and dim on recycle		
Distribution	Asymm/Symm	Asymm/Symm	Asymm/Symm
Lamphead Outlets	3	3	3
Special Features	Flash Sequence, Trigger Delay, "Ping Pong", Alternating Release, Sequence Shift, 8 Servo Remote Addresses, 2 Studio and 2 IR Channels, Buzzer on/off		
Power Requirements	110V/15A	110V/15A	110V/15A
Dimensions	7x11x11	7x11x14	7x11x18
Weight	16 lb	23 lb.	34 lb.
Catalog Number	10-0025	10-0045	10-0085
Price	\$4390.00	\$6190.00	\$7490.00

* Output measured at 6 1/2 feet (2 meters) at ISO 100 with a P70 reflector

** Output measured at 6 1/2 feet (2 meters) at ISO 100 with P65 reflector and Pulso Twin 4 lamphead

*** t 0.1 is a measure of flash duration which is comparable to actual shutter speeds. The more common t 0.5 measurement is approximately 3 times faster, but does not accurately reflect motion-stopping capability.

Pulso A Power Packs



The Pulso A packs are the ultimate step in the technologically advanced Broncolor power pack line. The A series maintains all of the features of the Pulso while adding many new functions, including:

- Asymmetric or Symmetric Power Distribution.
- Selectable Flash Duration from 1/125 to 1/6000 sec.
- Consistent color temperature over a 6 f-stop range on the asymmetric connections.
- TTL capability with selected Hasselblad cameras using the Flashlink (pg. 65).
- Up to 6 f-stop range controlled in 1/10 or 1/3 f-stop increments.
- Programmable features include multiple flash, delay flash and flash count.
- Trigger delay programmable to 1/100 of a second for flash sequences with multiple packs.
- "Ping Pong" function allows use of fast motor drives by alternately firing two power packs.
- High-speed stroboscopic capability.
- Fully proportional modeling light.
- True 100% recharge.
- Power stabilized to $\pm 1\%$.
- Fully microprocessor controlled.
- Safe, low-voltage touchpad controls.
- 3 sync modes - infrared, white light and cable.
- Programmable "*" function allows additional features to be added so your pack will never be outdated.
- 4 protected lamphead connections.
- Lamphead outlets can be independently switched.
- Infrared control of power levels with FCM meter.
- Infrared control of color temperature with FCC meter.
- All functions can be controlled remotely with the Servo 3.
- Flash duration can be displayed at any time.
- Fully compatible with the existing line of Pulso and Flashman power packs and accessories.

	<i>pulsoA2</i>	<i>pulsoA4</i>
Capacity	1600Ws	3200Ws
Output*	f/64 ^{1/3}	f/90 ^{1/3}
Flash Duration t 0.1**	1/250-1/6000	1/125-1/6000
100% Recycle Time	0.2-1.9 sec.	0.3-3.6 sec.
Triggering	IR/Cord/Cell	IR/Cord/Cell
Adjustment Range	Up to 6 stops in 1/10 or 1/3 stop increments	
Modeling Light	250 W, proportional to flash power	
Distribution	Asym/Symm	Asym/Symm
Lamphead Outlets	4	4
Special Features	All Pulso 2/4/8 Features plus TTL Metering, Stroboscopic Mode, Flash Duration Control, "Flip Flop" multi-pack sync	
Power Requirements	110v/15A	110v/15A
Dimensions	8x13x14	8x13x16
Weight	30 lb.	36 lb.
Catalog Number	10-1025	10-1045
Price	\$6290.00	\$8190.00

* Output measured at 6 1/2 feet (2 meters) at ISO 100 with a P70 reflector

** t 0.1 is a measure of flash duration which is comparable to actual shutter speeds.

With Broncolor I get reliable, repeatable results over and over. I can come back and repeat a shot months later if I have to, with no problems.

Since I started using Broncolor and Sinar, I've gone from an average of 6 shots a day to about 8. The cost of the equipment is paid for in my ability to do more work.

— *Frank Grunberg*
New York, NY

Broncolor Packages



broncolor
Pulso A and Packages

Every Broncolor power pack has been combined with a head and reflector* to form a kit with Special Savings, so you can be sure of a great deal no matter what you need!

* Pulso and Opus packages include power pack, sync cable, one head, flashtube, modeling lamp and standard reflector. Primo packages do not include reflectors. Primo package shown with optional P70 reflector.

Pack	Head	Reflector	Catalog #	Reg. Price	Package Price	Savings
Primo	Primo	Optional	10-3008	\$2380.00	\$2190.00	\$190.00
Primo A	Primo	Optional	10-3018	\$2690.00	\$2490.00	\$200.00
Opus 2	Primo	P70	10-3020	\$4130.00	\$3990.00	\$140.00
Opus 4	Pulso 4	P70	10-3040	\$6380.00	\$5990.00	\$390.00
Opus A2	Primo	P70	10-3025	\$5130.00	\$4990.00	\$140.00
Opus A4	Pulso 4	P70	10-3045	\$7580.00	\$7390.00	\$190.00
Opus A8	Pulso Twin 4	P65	10-3085	\$9399.00	\$8990.00	\$409.00
Pulso A2	Primo	P70	10-3125	\$7030.00	\$6790.00	\$240.00
Pulso A4	Pulso 4	P70	10-3145	\$9580.00	\$9290.00	\$290.00

Orders • Information

(800) 456-0203

Technical Support

Minipuls and Compuls Compact Units

- The Minipuls 40 and 80 are the smallest, most portable units compatible with the Pulso accessory line. If you already own Pulso or Flashman accessories and you need portable, lightweight units for location work, Minipuls is the ideal solution.
- Rated at 300 and 600Ws, respectively.
- Self-seeking multi-voltage power — Just plug them in anywhere in the world and they're ready to go.
- Bright 250W halogen modeling lamp — no sacrifice in terms of ease of use.
- 3 stop output range, adjustable in 1/3 stop increments.
- t0.1 flash durations (equivalent to camera shutter speeds) of 1/400 and 1/250 sec. respectively.
- Flash voltage of the Minipuls is stabilized to within $\pm 1\%$ of the selected level for consistent output, time after time.
- Can be triggered by sync cord, infrared sync or white light slave. Both units accept a cable remote to control all



Minipuls 80

functions on distant or hard to reach strobes.

- Comes complete with flashtube, modeling light, sync cable, power cord and protection cap.



Compuls 95

- **Compuls** combines the convenience of a self-powered unit with the microprocessor control and wide accessory base of the Pulso series.
- Power levels are comparable with stand-alone power packs
- All-in-one design makes Compuls even more efficient than power pack/lamphead units.
- 4-stop range in 1/10 or 1/3 stop increments, infrared triggering, sequence and delay functions and a switchable audible ready signal.
- Can be used with an optional cable remote which controls all touchpad functions (See pg. 49.)
- Includes flashtube, modeling lamp, sync cable and protection cap. Optional glass protection dome is available, see page 67.

	<i>minipuls 40</i>	<i>minipuls 80</i>	<i>compuls 65</i>	<i>compuls 95</i>
Capacity	300Ws	600Ws	650Ws	950Ws
Output*	f/32	f/45	f/45	f/45 ^{2/3}
Flash Duration t 0.5	1/1250	1/800	1/1500	1/1000
100% Recycle Time	1.7 sec.	2.3 sec.	0.4-1.0 sec.	0.5-1.5sec.
Triggering	IR/Cord/Cell	IR/Cord/Cell	IR/Cord/Cell	IR/Cord/Cell
Adjustment Range	3 Stops in 1/3 stop increments		4 Stops in 1/10 stop inc.	
Modeling Light	250W	250W	250W	250 W
	Modeling lights on all units proportional to flash power			
Special Features	Multiple & Delay Flash			
Power Requirements	Auto. Multi-Voltage	Auto. Multi-Voltage	110V/15A	110V/15A
Dimensions	5x7x15	5x7x15	16x9x7	16x9x7
Weight	7 lb.	8 lb.	13 lb.	14 lb.
Catalog Number	11-1040	11-1080	11-1065	11-1025
Price	\$1190.00	\$1490.00	\$990.00	\$1990.00

* Output measured at 6 1/2 feet (2 meters) at ISO 100 with a P70 reflector

Power Pack Accessories

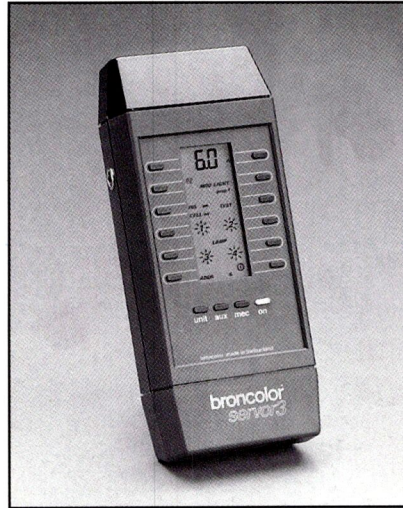
Server 3 Remote Control

The Server 3 is an intelligent remote control unit which lets you access all the functions of your Pulso, Pulso A and Opus packs and your motorized ceiling rail via an infrared link.

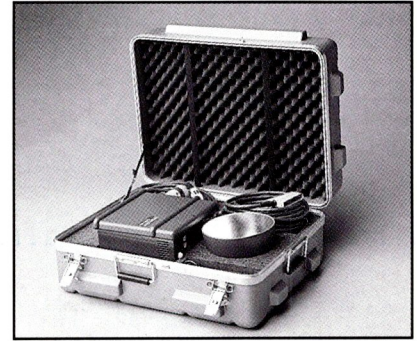
The graphic LCD display tells you the status of each pack and allows you to change power levels, turn on lampheads and modeling lights, even access the auxiliary functions of your pack.

By setting up to 8 packs to different Server addresses, you can control each one individually. Or, set packs to the same address and control several of them at once. The unit can be programmed to know which types of packs are on each channel, so it can present you with the proper range of functions.

If you have a light bank on a motorized rail system, you can use the Ser-



vor 3 to control vertical and horizontal movement as well as tilt and rotation.
16-3020 \$1195.00



ATA Primo/Opus Case

For Primo, Primo A, Opus 2/A2 or 4/A4, two heads and accessories.
10-1120 \$349.00

ATA Minipuls/Impact S Case

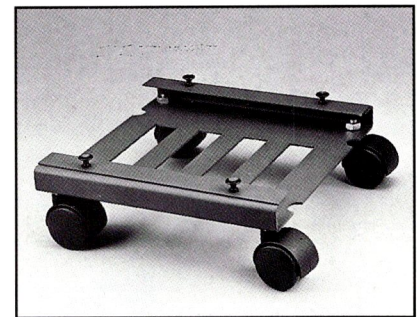
Holds up to 3 Minipuls or Impact S units and accessories.
17-2023 \$499.00

Casters

For above cases.
10-1122 \$30.00

Opus Travel Bag

10-1112 \$125.00



Studio Dolly for Pulso

Attaches easily to any Pulso or Flashman power pack, allowing the pack to roll along the floor. A special adjustable lip keeps the dolly attached to the pack even when it is lifted.

13-4040 \$210.00

Cable Remote Control

For all Compuls units.
11-1022 \$199.00

Minipuls Accessories

600Ws Flashtube for Minipuls 40/80

15-0080 \$215.00

Glass Protection Dome for Minipuls

15-0081 \$47.00

Mat Protection Dome for Minipuls

15-0082 \$67.00

Umbrella Reflector for Minipuls

12-0041 \$99.00



Minipuls Cable Remote

Control all functions of the Minipuls with this handheld remote. Cable length 11 feet.

11-1023 \$255.00

Any questions?

Our customer service staff will be happy to help.
Just call (908) 754-5800 or (800) 456-0203.

Primo/Pulso Lampbases



Broncolor Lamphead Features:

- 360 degree bayonet mount
- All heads are fan cooled
- Fireproof Makrolon plugs and recessed high voltage pins for maximum safety
- Exclusive five year flashtube warranty

New!

Primo Lampbase

The Primo head is designed to complement the reduced size and weight of the Primo packs. It is fan cooled and accepts all standard Broncolor accessories. Includes flashtube, modeling lamp and protection cap.

12-1018 \$590.00

Protection glass for Primo Lampbase

15-0022 \$99.00

Pulso 4 Lampbase

3200Ws max., 110V 60Hz. Fan-cooled lampbase with 16' lamphead cable. Includes protection cap, flashtube (15-0004), modeling lamp (15-2001) and protection glass (15-0026).

12-0004 \$1240.00

Pulso 4 Lampbase with 32' Cable

12-0009 \$1385.00

Pulso 8 Lampbase

6400Ws max., 208-240V 60Hz. Fan-cooled lampbase with 24' lamphead cable. Includes protection cap, flash tube (15-1005) and modeling lamp (15-2005).

12-0008 \$1730.00

Lampbases for the Hazylight are detailed on page 59.

Broncolor Accessory Compatibility

	Umbrella Ref.	Pulsoflex	Conic Snoot	P120 Reflector	P70 Reflector	P65 Reflector	P50 Reflector	P45 Reflector	Satellite Reflector	Softlight Reflector	Cumulite 2/Mini Cumi	Hazylight 2	Hazylight Soft
Lampheads													
Primo	●	●	●	●	●	●	①	①	●		●	●	●
Pulso F2 / F4	●	●	●	●	●	③	②	②	●	●	⑤	●	●
Pulso 4	●	●	●	●	●	●	①	①	●		●	●	●
Pulso 8		●	●	●	●	●	●	●				④	④
Pulso Twin		●	●	●	●	●	●	●				④	④
HMI F575		●		●	●	●	●	●		●	●	●	●

1. Center-focus light
2. Adjustable, heavily center focused or uniform
3. Adjustable, center focused or uniform
4. Requires aluminum counter-reflector
5. Focusing restricted

Pulso / Flashman Lampbases



Focusing lampbases allow adjustment of the light angle from 60 - 90° with an easy-access dial, providing greater control in direct light situations.

The fan-cooled F2 and F4 lampbases with their 16' lamphead cables, also feature a new built-in umbrella bracket. The umbrella reflector (12-0041) is required for umbrellas when used with the focusing heads. Both lampbases also include handles (12-0012).

Focusing Lampbase F2

1600 Ws max., 110V 60Hz.

Includes protection cap, flashtube (15-0002) and modeling lamp (15-2001).

12-0003 \$970.00

Focusing Lampbase F4

3200Ws max., 110V 60Hz

Includes protection cap, flashtube (15-0004), modeling lamp (15-2001) and protection glass (15-0026).

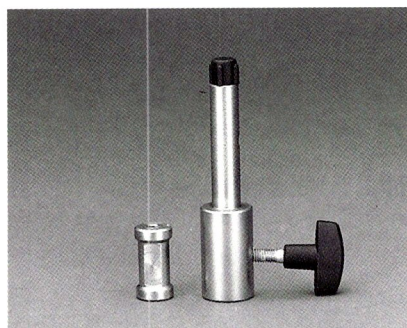
12-0005 \$1365.00

F2 Lampbase with 32' Cable

12-0007 \$1105.00

F4 Lampbase with 32' Cable

12-0010 \$1499.00



Broncolor Adapter

To put Pulso/Flashman lamp heads on Century or Bogen 5/8" stands.

13-3008 \$15.00

Locking Lever

Lever handles are now standard on all Broncolor lampheads. Older heads can easily be converted by replacing the blue knob with this handle.

12-0013 \$16.00

Handle for Lamphead

Accessory handle for all Pulso and Flashman lampbases makes precise adjustment of the heads faster and easier.

12-0012 \$20.00

Pulso Twin Lampbase 2

2x1600Ws, 110V 60Hz

- Connect two power packs to one head
- Up to 3200Ws of total output.
- Use for asymmetric distribution when combined with a standard lamphead.
- Fan-cooled.
- Includes protection cap, flash tube (15-0011) and modeling lamp (15-2001).

12-0011 \$1625.00

Pulso Twin Lampbase 4

2x3200Ws, 110V60Hz

- Up to 6400Ws of power.
- Compatible with Pulso 2/4, Pulso A and Opus.
- Full power through one head on an Opus A8.
- Fan cooled.
- Includes protection cap, flash tube (15-0012) and modeling lamp (15-2001).

12-0016 \$1795.00

HMI Continuous Lighting



HMI Continuous Lighting

Photographers, film and video makers who require continuous light can now enjoy all the advantages of the Broncolor system with the new HMI 575 system.

- "Open-face" design allows you to use many Broncolor system reflectors.
- The smallest, lightest HMI system on the market
- Electronically-controlled, flicker-free light.
- Daylight balanced.
- 2½ times the output of a comparable halogen bulb.
- Ballast unit features a stepless 1-stop electronic dimmer.

- Lamphead focusing mount provides up to 1 stop further control along with adjustment of the light angle from 40 to 100 degrees.
- "Hot strike" capability gives you light when you need it.
- Engineered for safety.



- Built-in hour meter (above) lets you know when to replace the bulb.
- Compatible with these Broncolor reflectors:

- P50
- P65
- P70
- P120
- Softlight
- Hazylight Soft
- Cumulite 2
- Mini Cumulite
- Giant Light Bank
- Megaflex
- Flooter
- Pulsoflex 80x80 HMI version
- Pulsoflex 80x140 HMI version
- Pulsoflex 110x110 HMI version
- Pulsoflex 150x150 HMI version

	Ballast Unit HMI 575	Lamphead HMI F 575
Power Consumption:	600W	
Intensity of illumination w/ clear protecting glass:		With P70 reflector @ 2m 12000 lx (f/11.5 100 ISO, 1/30s)
Power requirements:	100-240V switchable, 50-60Hz, 10AF	
Dimensions:	10.5x7.25x4.25	10.75x4.75x7.75
Weight:	6.75 lb.	5.75 lb.



HMI 575 Ballast Unit

Requires lamphead (14-1575)
14-0575 \$3390.00

HMI F575 Lampbase Complete

Requires ballast (14-0575). Includes bulb, glass dome and protection cap.
14-1575 \$2090.00

HMI 575 Package

Includes ballast and lampbase.
14-2575 \$5290.00

HMI Extension Cable

14-3570 \$95.00

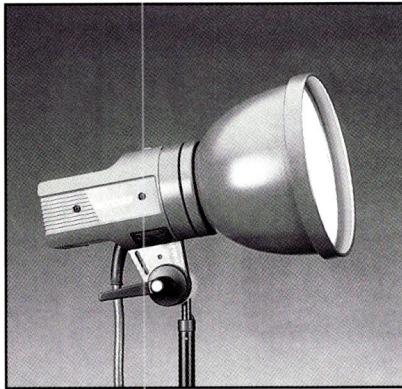
Replacement 575W SE Lamp

14-3575 \$590.00

HMI Protection Dome

14-3576 \$135.00

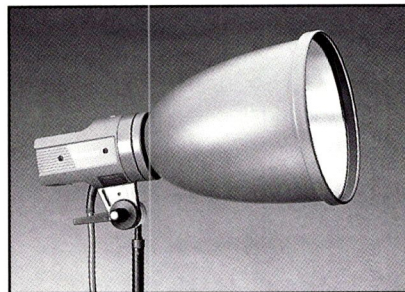
Reflectors



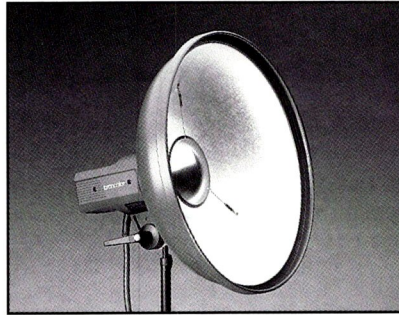
P70 Pulso Reflector
f/90¹/₃ at 6¹/₂ ft. (3200Ws, 100 ISO)
 Standard reflector for Primo, Pulso 2 and 4 lampbases, as well as Minipuls and Compuls units. Provides 70° coverage. Can also be used with Pulso 8 lampbase.
 12-0070 \$150.00

P65 Pulso Reflector
f/128¹/₃ at 6¹/₂ ft., (6400Ws, 100 ISO)
 Normal reflector for Pulso 8 lampbase. Can also be used with Pulso lampbases 2 & 4, Primo, Minipuls and Compuls. Provides 65° coverage.
 12-0065 \$179.00

P50 Pulso Reflector
f/128¹/₃ at 6¹/₂ ft. (6400Ws, 100 ISO)
 Narrow angle reflector for Pulso 8 and Twin lampheads.
 12-0050 \$395.00



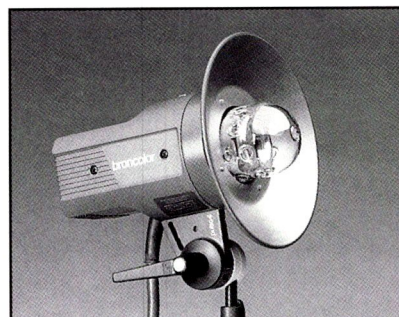
P45 Pulso Narrow Angle Reflector
f/128 at 6¹/₂ ft. (3200Ws, 100 ISO)
 An extra-deep parabolic reflector which concentrates output into a 45° coverage angle for increased efficiency over a smaller area.
 12-0045 \$280.00



Softlight Reflector for Pulso
f/45²/₃ at 6¹/₂ ft. (3200Ws, 100 ISO)
 Broad, indirect light for portraiture and other applications where softer light is desired.
 12-0080 \$330.00

Honeycomb to Softlight
 12-0180 \$145.00

Diffuser to Softlight
 12-0380 \$199.00

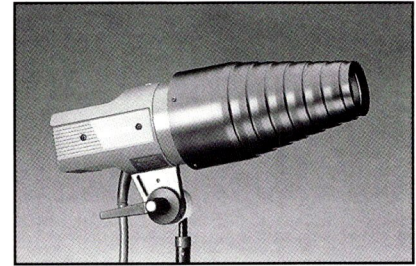


P120 Pulso W/A Reflector
f/45²/₃ at 6¹/₂ ft. (3200 Ws, 100 ISO)
 Provides 120° coverage.
 12-0120 \$78.00

Umbrella Reflector

For use with the F2 and F4 focusing lampbases, Minipuls self-contained units and all other heads with the new-style integrated umbrella bracket.

12-0041 \$95.00



Pulso Conic Snoot
f/32¹/₃ at 6¹/₂ ft. (3200Ws, 100 ISO)
 Provides a narrow 20° of direct light.
 12-0073 \$99.00



Satellite Reflector
f/180⁷/₁₀ at 6¹/₂ ft. (3200Ws, 100 ISO)
f/16⁶/₁₀ at 100 ft. (3200Ws, 100 ISO)
 This 35" parabolic dish reflector is capable of projecting an intense, even beam of light over large distances. It is especially useful for subjects like architectural photography where it may be necessary to light from a distance. It can also be used for unique effects in studio situations.

The reflector's angle of coverage can be changed by focusing the head or adjusting the position of the reflector on the mounting bracket. Clips around the edges of the reflector allow you to attach gobos or barn doors.

The Satellite Reflector is compatible with the Pulso F2/F4 lampheads and the Broncolor HMI 575. Due to its size, a Senior Stand or Mini-HazyLight Stand is recommended. An auxiliary umbrella-style reflector is included to channel all light from the head into the Satellite reflector. Requires mat protection dome.
 12-0095 \$1590.00

Barn Doors

Barn doors are used to control the coverage of lights by blocking light from falling on certain areas of the subject. They can be used to screen backgrounds, control reflections or narrow the lighting angle of a particular reflector.

Broncolor barn doors are unique in that their design does not allow stray light to spill out between the wings and the mounting ring or between the ring and the flash head. They also feature a built-in holder for filters and gels.

For Use With	Wings	Prod.#	Price
P70	4	12-0271	\$269.00
P70	2	12-0270	\$199.00
P65/P45	4	12-0266	\$435.00
Hazy, Strip, Cumi	2	12-4016	\$615.00
Mini-Hazylight	2	12-0469	\$299.00



Filters and Diffusers for Barn Doors

Broncolor filters are designed for use with Pulso barn doors. The 12 colored filters let you add a splash of color to your images. The grey neutral density and correction filters allow you to make corrections in exposure and color cast at the light source.

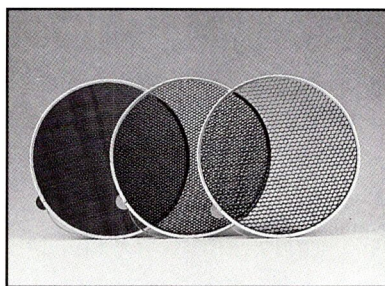
Type	For use with	Set of	Product #	Price
Color	P65/P45	12	12-0365	\$140.00
Color	P70	12	12-0370	\$110.00
Grey	P65/P45	12	12-0368	\$135.00
Grey	P70	12	12-0373	\$120.00
Opal Diffuser	P65/P45	12	12-0366	\$80.00
Opal Diffuser	P70	12	12-0371	\$65.00



Sinar Bron was always my first choice! The fine quality of the Sinar cameras and Broncolor lighting equipment has helped me produce consistently high quality images for years. The equipment makes my job a lot easier.

—*William Wagner*
Our Studio
Cranford, NJ

Honeycomb Spot



Honeycombs narrow the lighting angle of the standard reflector and produce dramatic, contrasty lighting. Their lighting effect falls off sharply from the center outward, the fine mesh giving the smallest circle of illumination. The limit of the lighting angle depends on the size of the meshing.

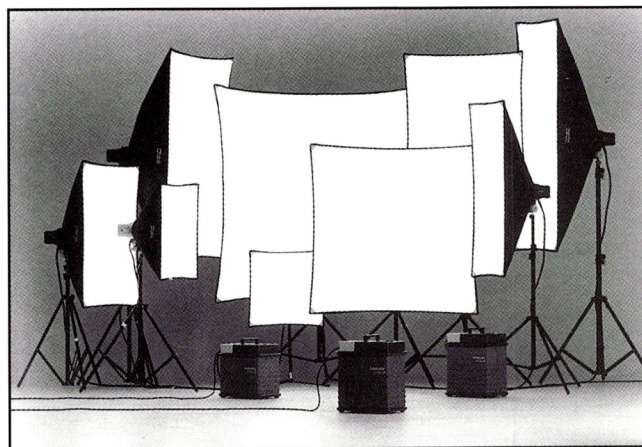
For Use With	Set of	Product #	Price
P70	3	12-0170	\$249.00
P65/P45	3	12-0165	\$389.00
Softlight Reflector	1	12-0180	\$145.00
Mini-Hazylight	1	12-0468	\$498.00
Hazylight 2 / Soft	1	12-0393	\$750.00
Striplite	1	12-6022	\$720.00
Mini-Cumulite	1	12-2019	\$555.00

Pulsoflex Diffused Light Sources

The Broncolor Pulsoflexes are lightweight, portable lightbox reflectors which will attach to any Broncolor Pulso/Primo lamphead, Minipuls or Compuls self-contained unit. More efficient than conventional umbrellas, the Pulsoflex provides soft, diffused, direct illumination, making it an excellent light source for almost any type of job.

VM Exclusives:

- Customized lighting effects — use with one diffuser, two diffusers, or none at all.
- Fast, easy assembly.
- High efficiency silver interior.
- Compatible with all lampheads, Minipuls and Compuls
- Includes travel bag.



Pulsoflex Type	Product #	Price
50 x 50 cm (20" x 20")	12-0705	\$335.00
80 x 80 cm (32" x 32")*	12-0708	\$440.00
Round Mask to 80 x 80	12-2012	\$ 89.00
110 x 110 cm (43" x 43")*	12-0711	\$595.00
150 x 150 cm (59" x 59")*	12-0715	\$690.00
35 x 60 cm (14" x 24")	12-0720	\$345.00

Pulsoflex Type	Product #	Price
55 x 95 cm (22" x 38")	12-0725	\$415.00
80 x 140 cm (32" x 55")*	12-0730	\$565.00
30 x 110 cm (12" x 43")	12-0735	\$415.00
40 x 155 cm (16" x 61")	12-0740	\$495.00
Starflex D170 (68" hex)	12-0285	\$870.00
Pulsoflex Bag	12-0745	\$9.95

* These Pulsoflexes are compatible with the HMI 575 system.

broncolor
 Light Control Acc., Pulsoflex

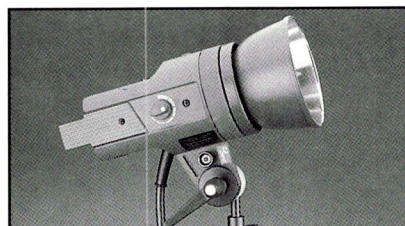
Umbrellas



New Umbrella Bracket

For use with all current Pulso/Flashman lampbases. This new model replaces old-style P70 umbrella bracket. Requires use of the Umbrella Reflector (12-0041), below.

12-0281 \$42.00



Umbrella Reflector

This reflector must be used with the new-style integrated umbrella bracket.

12-0041 \$95.00

Type	Size	Product #	Price
Silver	35"	12-2006	\$125.00
Silver	40"	12-2009	\$165.00
Jumbo Silver*	60" (156cm)	12-0277	\$475.00
White	40"	12-2007	\$165.00
Jumbo White**	60" (156cm)	12-0275	\$330.00
Transparent	35"	17-2064	\$82.00
Transparent	40"	12-2008	\$165.00

*f 45 at 6 1/2 ft., 3200 ws., 100 ISO

**f 32 2/3 at 6 1/2 ft., 3200Ws, 100 ISO

Umbrella Bracket for P70

Required when using umbrellas with P70 reflectors.

12-0273 \$75.00

Clamp Pulso to Jumbo Umbrella (replacement)

12-0279 \$43.00

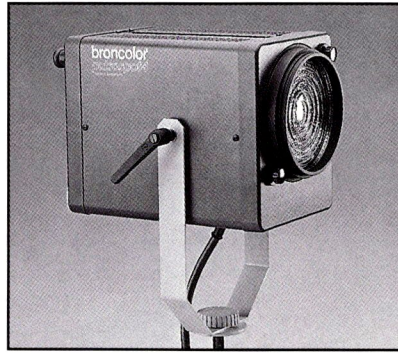
Toll Free
 Order Line
 (800) 456-0203

Spotlights

Pulsospot 4

f/90 at 6 1/2 ft., (3200Ws, 15°)
f/64 1/3 at 6 1/2 ft., (3200Ws, 45°)

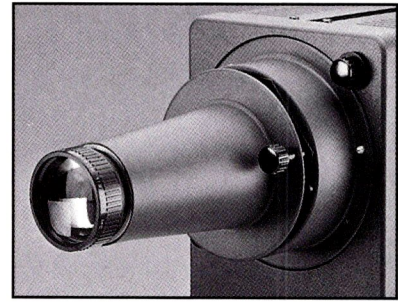
- 3200Ws **hard edge** spot projector.
- Fresnel lens adjustable from 15° to 45°.
- Optical attachment lenses also available for projecting masks or transparencies.
- Excellent for applications where direct illumination with strong gradation is required.
- Use to bring out contrast and texture in objects, or to enhance areas with tightly controlled lighting.
- Fresnel lens has 5300° K UV coating.
- Use with any 110V Pulso, Opus or Primo power pack.



- Weight 19 lb.
 - Includes flashtube (15-1022) and modeling light (15-2001).
- 12-3022 \$2335.00

Barn Door to Pulsospot 4

12-4015 \$195.00



Attachment lens 150mm

f/32 1/3 at 6 1/2 ft., (3200Ws, ISO 100)
 Projects a non-color fringing hard light circle (from 5 to 30 inches at 6 1/2 feet). Can project transparencies for rear or top projection with slide holders, see below.

12-3024 \$1690.00

Attachment lens 100mm

f/22 1/3 at 6 1/2 ft., (3200Ws, ISO 100)
 Projects a larger circle than the 150mm attachment lens (7 to 44 1/2 inches at 6 1/2 feet)

12-3025 \$1550.00

Slide Holder 6x6

13-3026 \$48.00

Slide Holder 24x36

13-3028 \$48.00

4 Part Slide Template

12-3030 \$75.00



Profil 11/26 Theatrical Spot

The Profil 11/26 is the most versatile of the extensive line of Broncolor spots. Dual focusing lenses allow you to adjust the angle and focus of the beam simultaneously. You can further control the light using the built-in iris diaphragm, light shapers and mask holder. The combination of these controls lets you create a spot of any size and shape.

The Profil can accept power packs up to 3200Ws, for light output of *f/90* (6 1/2 feet, ISO 100, 11°.) The scales for light angle and focus allow you to easily repeat any combination of settings.

12-3032 \$2895.00

Order by Fax
(908) 754-5807
 24 hours a day

Spotlights

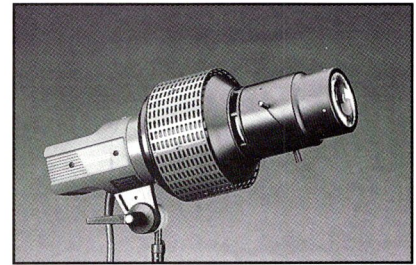
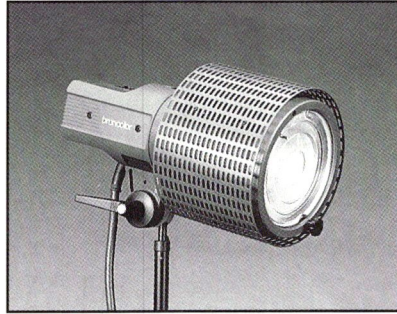
Fresnel Spot Attachment

f/64 at 6 1/2 feet, (ISO 100 at 15 degrees using a Pulso 4)

This focusing Fresnel spot attaches to any Pulso 2/4, Primo, Minipuls or Compuls head. The Fresnel lens has a diameter of 160mm (6.3 inches) and focuses from 15 to 35°. The focal length is 250mm and the unit attaches via the standard bayonet mount.

The lighting effect produced is similar to the Mole Richardson continuous spotlight. An additional advantage of the Fresnel Spot Attachment is that it is lightweight enough to be used easily with the Minipuls and Compuls self-contained units.

12-3033\$1095.00

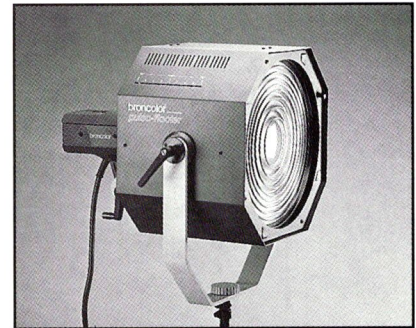


Broncolor Optical Spot

f/32 1/3 at 6 1/2 ft. (ISO 100, 3200Ws)

This optical spotlight projects a non-color fringing hard light circle. It attaches to the Pulso 2/4 and Primo lampheads and Compuls units with the bayonet mount. Includes Diffusion Dome and Aperture mask.

12-3031\$1125.00



Pulso Flooter "S"

f/128 at 6 1/2 feet (ISO 100 at the 15 degree setting using a Pulso 4).

Now improved for up to one more f/stop at wide angle settings, the Flooter is ideal for large sets such as cars and furniture, or in fashion photography when used with the honeycomb which evokes fifties-style film lighting. Its performance is comparable to a theatrical spotlight with a Fresnel lens.

The Flooter can be used with any Pulso, Primo or HMI lampbase. The Fresnel lens has an active diameter of 340mm for extremely efficient light output, and is adjustable from 15-70°. Weight 24 lb.

12-3135\$1895.00

Barn Door set To Flooter

12-3036\$174.00

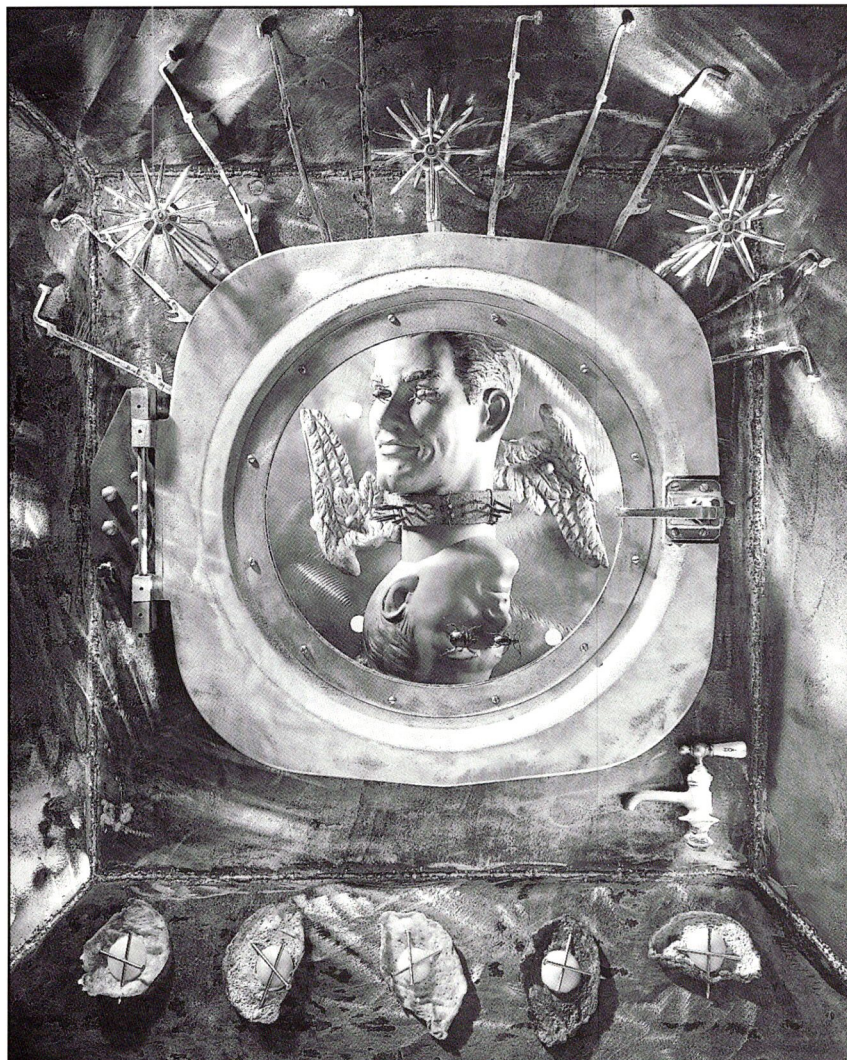
Honeycomb To Flooter

12-3037\$129.00

Modification Kit for Flooter

Converts Flooters to new "S" model

12-3038\$88.00



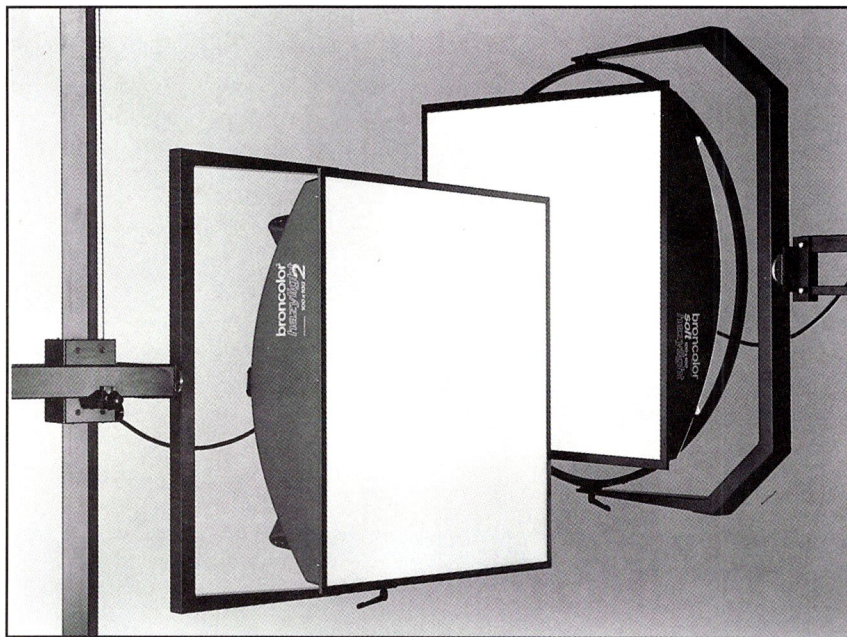
New York photographer Hans Neleman makes extensive use of Broncolor spots in his distinctive still-life work. For this image, Neleman used a Pulsospot 4 with a 150mm attachment lens and an Optical Spot Attachment mounted on a Pulso 4 lamphead. The power packs were Pulso A4's, and the camera a Sinar p2 8x10.

Hazylight Reflectors

The Hazylight 2 and Hazylight Soft reflectors are designed to produce "wrap around" subject illumination over a 20 degree field. The large 40"x40" parabolic reflectors reduce light scatter and give you precise, even gradation.

The Hazylight 2 yields higher illumination and color saturation than an equally powered multi-head banklight. The Hazylight 2 is highly recommended for advertising, fashion, and still-life photography.

The Hazylight Soft gives you a softer light with no hot spot. Highlights in reflective objects such as glass, metal and plexiglass appear flawlessly even.



Hazylight 2

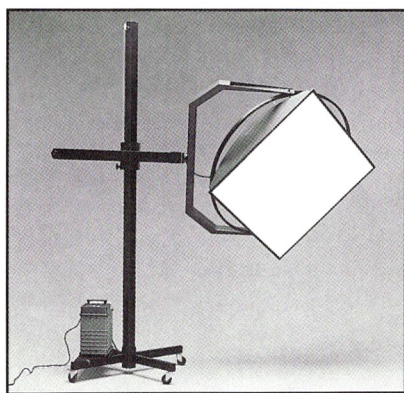
- Excellent contrast and brilliant color saturation.
- Precise 20° falloff allows you to place gradations exactly where you need them.
- Brings out texture in surfaces like cloth, leather and food.
- Durable plexiglass diffuser.
- Rotation ring allows you to easily maneuver the light.
- Requires Hazylight lampbase (pg. 59).

12-0390 \$2490.00

Hazylight Soft

- Perfectly even, softer lighting edge-to-edge due to the white interior and graduated counter-reflector.
- Flawless reflected highlights with no hot spot.
- Rotation ring for easy mobility.
- Perfect for glass, silverware, jewelry, etc.
- Uses any standard Pulso, Primo or HMI lampbase.
- Requires counter reflector (12-2015, pg. 59)

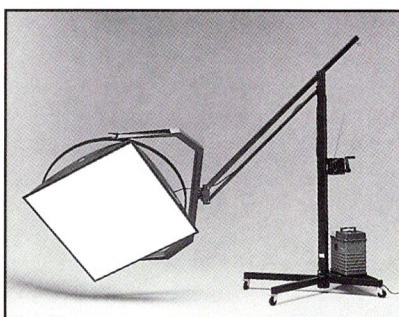
12-0392 \$2490.00



Broncolor 301 Stand

- For Hazylight or Mini-Cumulite.
- Counterbalanced horizontal arm provides quick adjustments.
- Reflector mounting system uses friction locks to put the light exactly where you need it.
- Single column construction.
- Casters for easy mobility.
- Supplied with a mounting plate to hold a Broncolor power pack.
- Maximum height 8.8 feet.

13-1005 \$3250.00

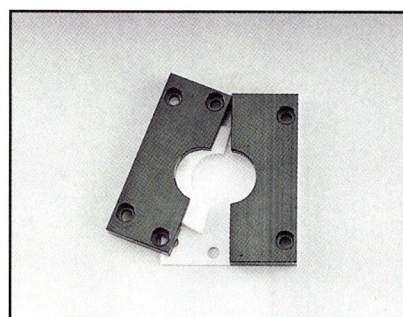


Flamingo Stand

(needs adapter)

- For use with the Hazylight, Striplight or Mini-Cumulite
- Raise light using crank handle.
- Light stays at same angle when raised and lowered.
- Maximum height 10.7 feet, but will fit under a 7 foot ceiling.
- 5-foot horizontal reach.
- Requires adapter (13-1011).

13-1010 \$2395.00



Flamingo Adapter for Hazylight/Mini Cumulite

13-1011 \$147.00

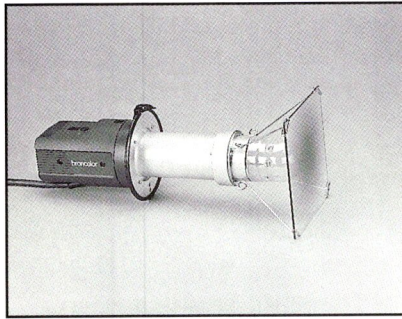
Adapter Hazylight to Pantograph

13-3015 \$185.00

Counterweight for 301 Stand

13-1006 \$249.00

Hazylight Lampbases and Accessories



1600Ws Pulso Hazy Lampbase 2

Fan-cooled head for use with the Traditional Hazylight and Hazy 2 reflectors. Includes flash tube (15-0002), modeling lamp (15-2001) and glass counter-reflector.

12-0021 \$1515.00

Mat Protection Glass, non-UV

15-0928 \$135.00

3200Ws Pulso Hazy Lampbase

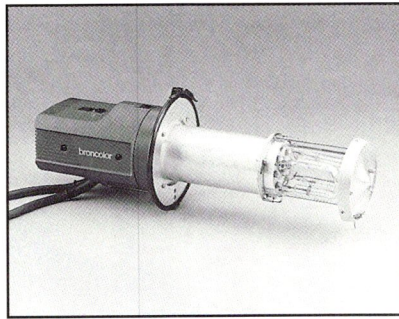
As above, with flashtube (15-0004), modeling lamp (15-2001) and glass counter reflector.

12-0027 \$1908.00

Counter-Reflector

For Hazy Soft with Pulso 2/4 or Primo lamphead.

12-2015 \$150.00



Pulso Twin Hazy Lampbases

Twin head for the Traditional Hazylight and Hazy 2. Use with two Pulso, Pulso A, Opus or Primo pack. The 2x3200Ws version allows you to get a full 6400Ws from an Opus A8 pack. Includes flashtube, modeling lamp (15-2001) and metal counter-reflector.

2x1600Ws Hazylight Lampbase

12-0035 \$2060.00

2x3200Ws Hazylight Lampbase

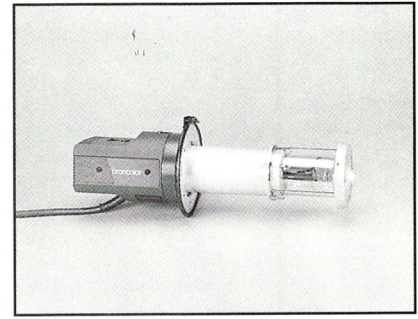
12-0036 \$2250.00

Barn Doors to Hazylight, Striplight and Cumulite

12-4016 \$615.00

Honeycomb to Hazylight 2 / Hazylight Soft

12-0393 \$750.00



6400Ws Pulso 8 Hazy Lamp

6400Ws, 220v

For use with Pulso 8 only. Includes flashtube (15-1005), modeling lamp (15-2005) and aluminum counter reflector. Use 650W modeling lamps only.

12-0038 \$2235.00

Diffuser Foils with Tape

15-3008 \$141.00

Diffuser Foil

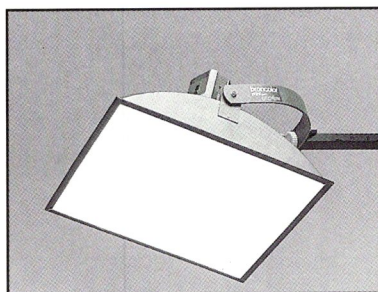
10 meter roll for 5 replacement foils.

15-3009 \$535.00

Hazy Diffusion Foils with Frame and Tape

15-3016 \$299.00

Mini-Hazylight Reflector



Mini-Hazylight

- *f/45 at 6 1/2 ft. (3200Ws, 100 ISO)*
- Similar lighting effect to the 40" Hazylight.
- Uses standard lampbases
- 25" square size, extremely portable

Mini-Hazylight 65x65 cm

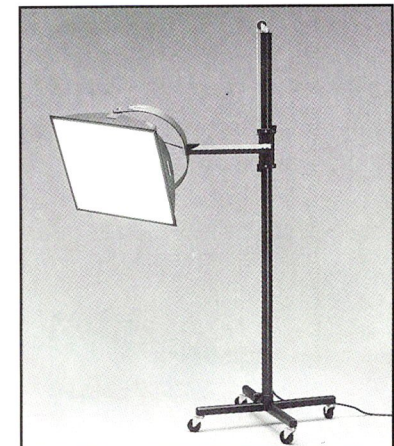
(25"x25") Includes holder for connection to 301, or Hazy/Flamingo Stand. Requires one Pulso or Primo lampbase, or Minipuls compact unit.

12-0465 \$1195.00

Mini-Hazylight 65x65 cm

Mini-Hazy with holder for connection to Mini-Hazylight stand (or 3/8" threaded bolt). Requires one Pulso or Primo lampbase, or Minipuls compact unit.

12-0460 \$1195.00



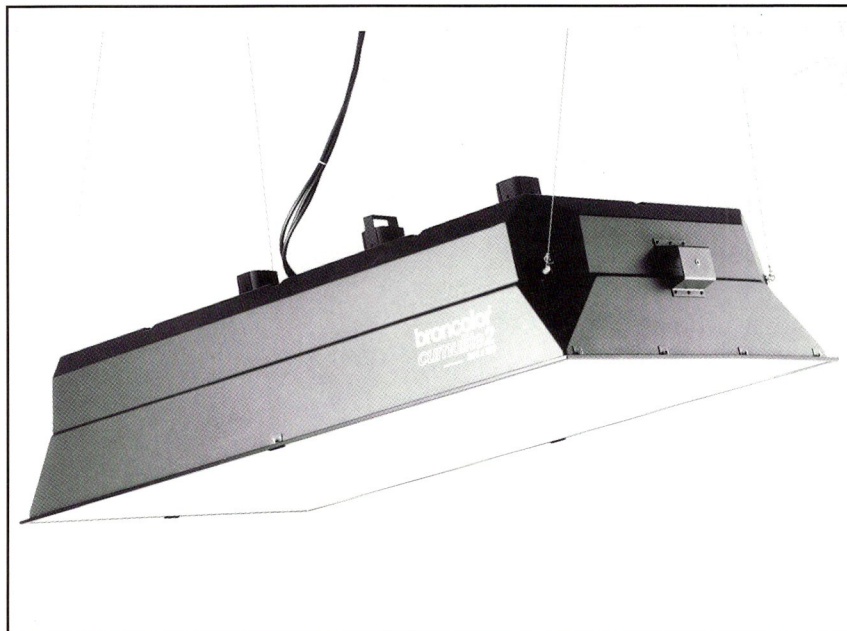
Mini-Hazylight Stand

Maximum height 7.4 ft.

13-0460 \$1195.00

Cumulite 2

- Broncolor's incredible 79x48" bank gives you light of unparalleled quality.
- Glass counter-reflectors, white interior coating and plexiglass diffuser ensure perfectly even light, making it the natural choice when you're working with reflective objects.
- The hard plexiglass diffuser won't show surface wrinkles in reflective highlights the way fabric diffusers can.
- Comes equipped to handle two standard Pulso, Primo or HMI lampbases.
- Add a third, central lampbase for even more flexibility. The third lampbase produces a hot spot in the center of the reflected illumination if desired. Use a Pulso F2 or F4 focusing lampbase if you want to control the size and relative intensity of the spot.
- Honeycomb grid available to further increase contrast and saturation.
- With Pulso or Opus power packs and a motorized rail system, all pack functions and mechanical movements can be controlled with the Servo 3 infrared transmitter.



**See pages 98-99 for
Cumulite 2 suspension
options.**

Cumulite 2 Reflector

f/32.7 @ 3200Ws (6½ ft., ISO 100)
79x48" fiberglass reflector supplied with plexiglass diffuser, 2 glass counter-reflectors and cover for central opening. Weight 64 lbs.
12-2026 \$5495.00

Motorized Cumi Stand

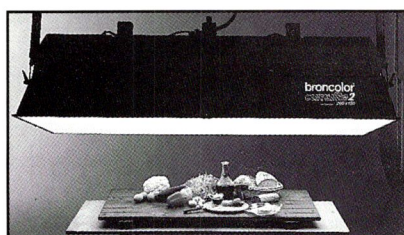
For the Single Cumulite and Cumulite 2 reflectors. Maximum height is 8.5 feet. Vertical movement of reflector is motorized. Casters and power pack platform are included.
13-4007 \$5795.00

Honeycomb for Cumulite 2

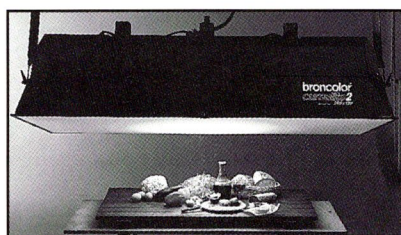
Provides hard, direct light for higher contrast and color saturation.
12-3040 \$1759.00

Bracket for Cumulite 2

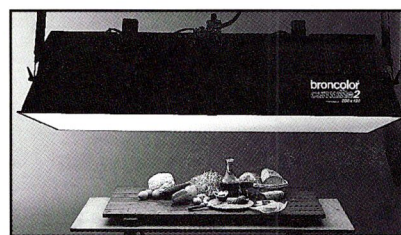
Required for use of the Motorized Cumi Stand.
13-4009 \$1395.00



Use the Cumi for even lighting . . .



. . . a controllable hot spot . . .



. . . or smooth graduation.

**Order by Fax
(908) 754-5807**

I've been using Broncolor for years, and I don't see how a studio can function without it.

I like to keep an open mind towards other lighting manufacturers, but we always come back to Broncolor. Any photographer who doesn't look at an

investment in the long term is in the wrong business. My philosophy is that you have to buy the best, and I think Broncolor is worth every penny.

— **Linda Bohm**
Montclair, New Jersey



GLB, Megaflex and Mini-Cumulite

GIANT Light Bank

The Giant Light Bank is the ideal solution for many situations requiring large light sources. This continuous, **seamless** diffusion screen and support framework measures 100x300 inches, yet its light output is even to within 1/3 stop from edge to edge. The GLB is built upon 1 inch square tubing and weighs about 180 pounds. It can be disassembled for storage or location shooting. The reflector is the exclusive Broncolor silver/black bonded fabric.

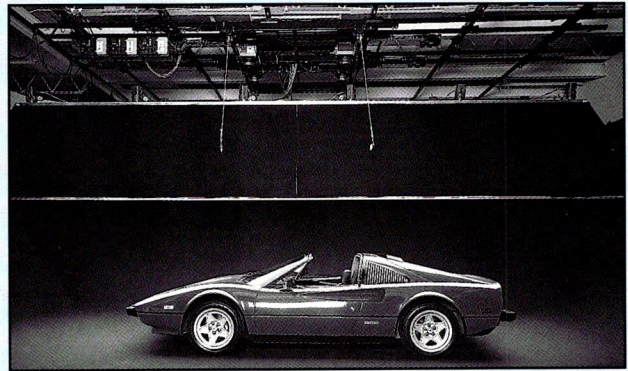
Its size can be customized for your needs, and the suspension system can be designed around your requirements.

Movements can be controlled with ropes or automated by Servo infrared control on a rail system.

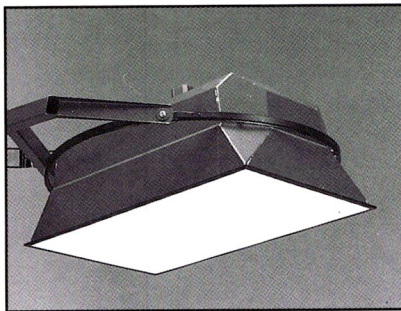
Giant Light Bank (without heads)  

12-2050 \$13,995.00

Complete details and quotations which include supervision of installation are available upon request.



broncolor
Hard Light Banks



Mini-Cumulite

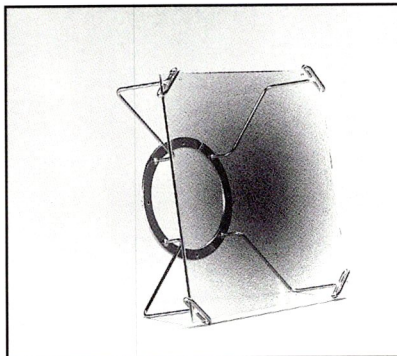
- 31"x47" version of the Cumulite.
- White interior coating and rigid plexi-glass diffuser.
- Uses a single standard Pulso, Primo or HMI lampbase.
- Graduated glass counter reflector guarantees even lighting.
- Rotating ring which gives the reflector a full range of self-arresting movements.
- All Mini-Cumulites ship by truck.

Mini-Cumulite for 301 Stand

Requires counter-reflector.
12-2014 \$3100.00

Mini-Cumulite for Rail System

For connection to overhead rail support (see Suspension kits - pg. 92)
12-2018 \$2650.00



Glass Counter-Reflector for Pulso 2 / 4 for Mini Cumi

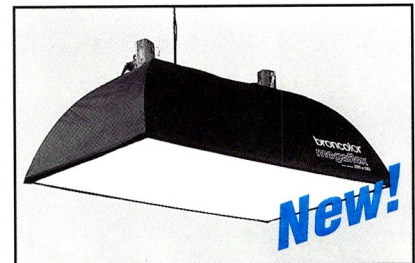
12-2015 \$150.00

Metal Counter-Reflector for Pulso 8 / Twin for Mini-Cumi

12-2016 \$108.00

Broncolor 301 Stand

For use with Mini-Cumulite or Hazylight reflectors. See pg. 56.
13-1005 \$3250.00



Megaflex

Two new softboxes measuring 4x6 1/2 ft. and 4x10 ft. Each Megaflex takes 2 Pulso, Primo or HMI lampheads and features an optional second diffuser.

Megaflex 200

12-0520 \$2390.00

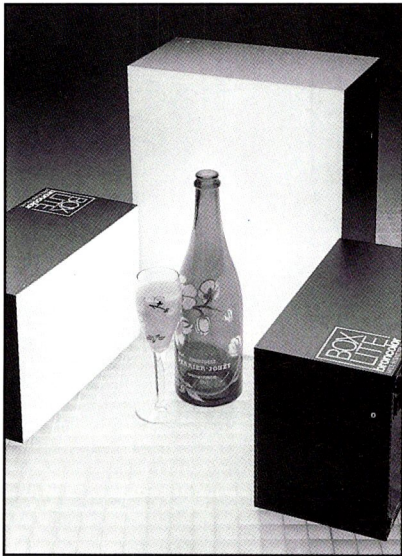
Megaflex 300

12-0521 \$2990.00

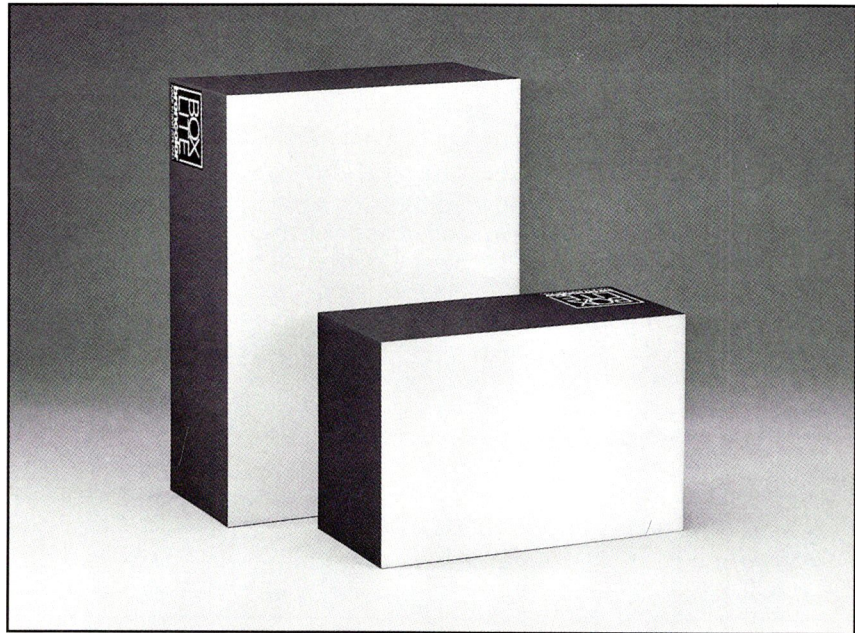
Mount the Megaflex on your rail system with the Megaflex Suspension. See pg. 92 & 99.

 denotes Special Order items. See pg. 108 for details.

Specialized Lighting Units



- 1600Ws capacity
- Sealed front is spillproof — great for food photography.
- Ideal for close-range lighting.
- Lets you place and control reflected highlights on your subjects.
- Even lighting from edge to edge.
- 8x12 and 12x16 inch sizes available.



Boxlite 30 (8" x 12")

f/22 at 6 1/2 ft., 1600ws, 100 ISO

f/45 1/2 at 2 ft., 1600ws 100 ISO

With 1 flash tube, 2 modeling lights, quick change head.

12-2020 \$1095.00

Boxlite 40 (12" x 16")

f/22 at 6 1/2 ft., 1600ws, 100 ISO

f/45 1/2 at 2 ft., 1600ws, 100 ISO

With 2 flash tubes, 4 modeling lights, quick change head.

12-2025 \$1475.00

The specialized lighting units on these pages are designed to be used in conjunction with most Broncolor power packs. Each of these units contains its own flash-tube assembly and therefore does not require a separate lamphead.

Ask Your Dealer

About Sinar Bron's current promotions



Lightbar

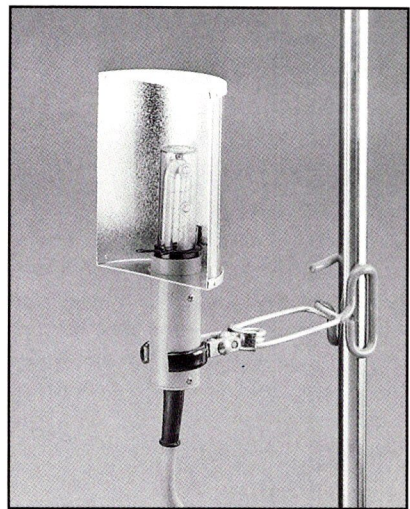
These diffused, wide area lampheads measure 4.5 inches by 23 and 44 inches, respectively. The Lightbar 60 is rated at 3200Ws, the 120 at 2x3200Ws. Both are fan-cooled. The Lightbar is intended for large area lighting such as backgrounds, architectural and automotive subjects.

Lightbar 60

12-5351 \$1690.00

Lightbar 120

12-5353 \$2790.00



Effect Light

The Effect Light is a small 950Ws bare tube clamp-on light unit without a modeling lamp. It is used as a backlight in portraiture or to produce effects requiring hidden sources of illumination. Reflector is included.

12-3001 \$740.00

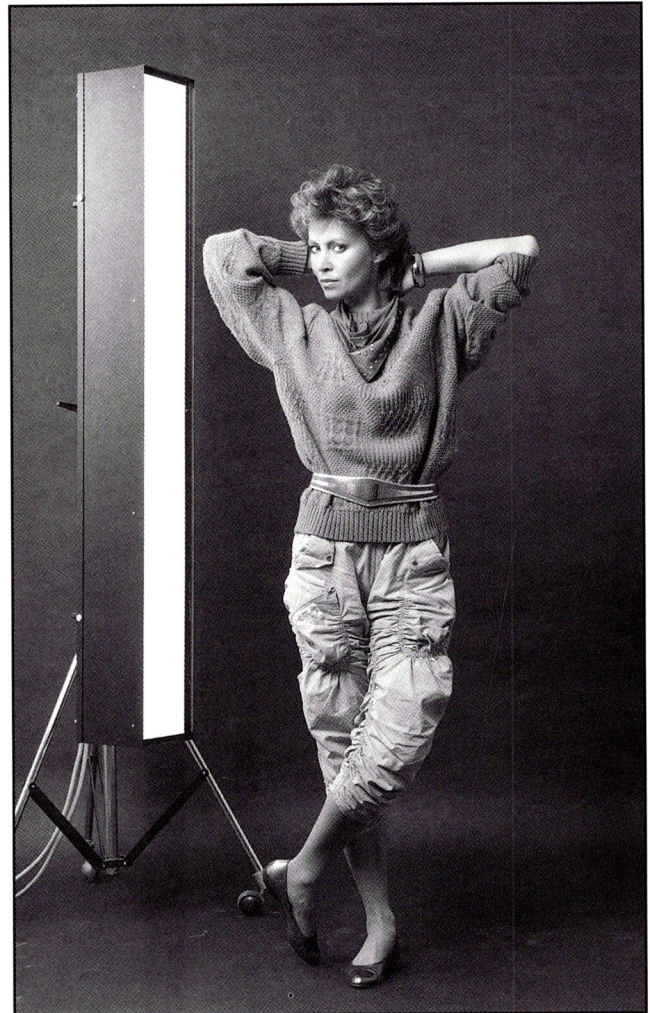
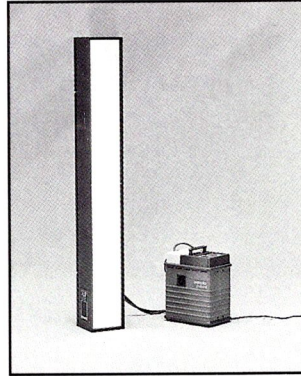
950Ws Effect Light Flashtube

15-1006 \$199.00

Specialized Lighting Units

Striplight

- 62"x8" lighting surface makes the Striplight an ideal main or accent light as well as a multi-purpose background light.
- Gives you long, uniform reflections on shiny surfaces for still life assignments.
- When used as a sidelight, the Striplite brings out texture and detail in fabrics and other materials, and provides dramatic modeling on contoured surfaces.



broncolor
Specialized Lighting Units

Striplight 2x3200Ws, 120V

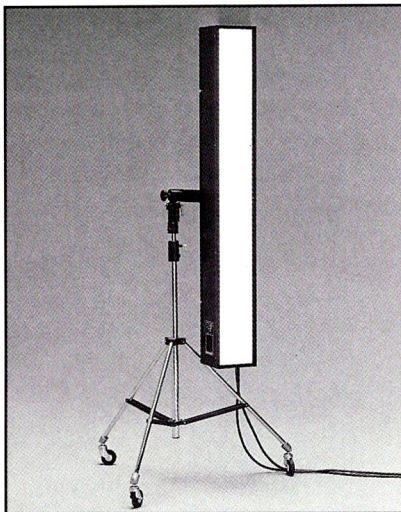
f/32^{2/3} at 6 1/2 ft., 2x3200Ws, 100 ISO
Includes 4 flash tubes (15-1017) and 8x40W modeling lamps. Two connection cables allow operation by one or two power packs for 1600 to 6400Ws. The 2x3200Ws model is compatible with all 110V Pulso, Opus and Primo power packs.

12-6001 \$3245.00

Striplight 6400Ws Pulso 8 240V

f/32^{2/3} at 6 1/2 ft., 6400Ws, 100 ISO
Includes 4 flashtubes (15-1017) and 8x60W modeling lamps. One connection cable may be used with one power pack only for up to 6400Ws.

12-6010 \$2975.00



Stand for Striplight

13-3003 \$325.00



Flamingo Stand

Requires adapter (13-1012)
13-1010 \$2395.00

Adapter Striplight / Flamingo

13-1012 \$240.00

Call

For the name of
a dealer or sales
representative in
your area.

(908) 754-5800
(800) 456-0203

Fibrolite

Fibrolite Expert Kit

The Fibrolite Expert Kit is a great way to jump right into the Broncolor fiber optic system. It features a full set of fiber optic light guides in two different lengths, plus stands and lens attachments for each fiber.

The Broncolor Fibrolite will make your jewelry sparkle and your food more appetizing, without cramping your style or your set.

1	12-3006	Fibrolite	
2	12-3013	60" Fiber Optic Cable	
2	12-3017	80" Fiber Optic Cable	
4	12-3016	Focusing Lens	
4	12-3018	Articulated Arm	
4	12-3020	Iron Base for Arm	
12-3009			\$4990.00



Call

For orders
and information

(800) 456-0203

Fibrolite

- **Two to three times more light** than other fiber optic systems.
- Use up to four fiber optic guides to place light precisely where you need it. Light small objects with a combination of accuracy and power never before possible, or highlight important points in a larger composition.
- Fiber optic cables transmit light without heat — safe to use at any distance.
- Individual outlet controls let you vary the output of each guide independently over a 3 f-stop range.
- Built-in cooling fan for trouble-free multiple exposures.
- Compatible with all Broncolor power packs.
- Compatible with existing Impact Fibro optical fibers and accessories.
- Shown with Opus A2, fiber, stand base and arm and focusing lens, not incl.

12-3006 \$1690.00

Fibrolite Accessories

Fiber Optic Cable 40 Inch

Glass fiber, with black flexible casing, active diameter 0.4".

Fiber Optic Cable 60 inch

Fiber Optic Cable 80 inch

New!

Optical Fiber with Two Strands

Half flexible plastic tube with active diameter of 2 mm. Length 32".

Focusing Lens

With tube, insertable and adjustable on optical fiber, with locking screw.

Filterholder for Fibrolite

Color Filters for Fibrolite

Grey Filters for Fibrolite

Flashtube for Fibrolite

75W Fibrolite Modeling Lamp

Articulated Arm — Requires clamp or base (below)

Clamp to Attach Arm to Table

Iron Base for Arm

Case for Accessories

12-3014	\$385.00
12-3013	\$485.00
12-3017	\$585.00
12-3015	\$675.00
12-3016	\$190.00
12-3010	\$36.00
12-3011	\$26.00
12-3012	\$26.00
15-0005	\$289.00
15-2012	\$28.00
12-3018	\$125.00
12-3019	\$53.00
12-3020	\$92.00
12-3021	\$249.00

Lightbrush

The Lightbrush is a self-contained, hand-held continuous strobe which will complement any flash system. It allows you to "paint" with a beam of daylight balanced light. Use it to create highlights in your images, enhance specific parts of your subject, or to give parts of your image a painted with light effect.

- **New Fresnel snoot gives up to one stop more light**
- Works with all cameras, all light sources.
- Completely self-contained — just plug it into the wall.
- 1-second metronome beep lets you time your exposures precisely and repeatably.
- Use the included aperture mask and lens to control the size and shape of the light beam.
- Built-in filterholder accepts masks, diffusers and gels.
- Daylight balanced continuous strobe fires 30 times per second.
- Extremely compact — only 6" l x 2" w x 7" h
- Weight only 1 lb.



Lightbrush

Includes angled hood, hood with lens, snoot, aperture mask and diffuser.

16-6001 \$995.00

Fibrolite, Lightbrush and Flashlink
broncolor

Flashlink

Broncolor has developed a revolutionary TTL exposure control unit which works with the Pulso A2 and A4 power packs and selected Hasselblad cameras. The Flashlink will give you the freedom you've come to enjoy with dedicated strobe plus the power and flexibility of studio flash.

- Operates in conjunction with the camera's own off-the-film-plane metering systems.
- Instantly and automatically adjusts light output for correct exposure every time.
- Can control up to 3 Pulso A power packs with up to two lampheads each. (Comes equipped to handle one pack. Intermediate sync cables required for second and third packs.)
- Let your models move around freely without worrying about changes in exposure.



Flashlink to Hasselblad

Compatible with the Hasselblad 500ELX, 503CX, 553ELX and the 205TCC.

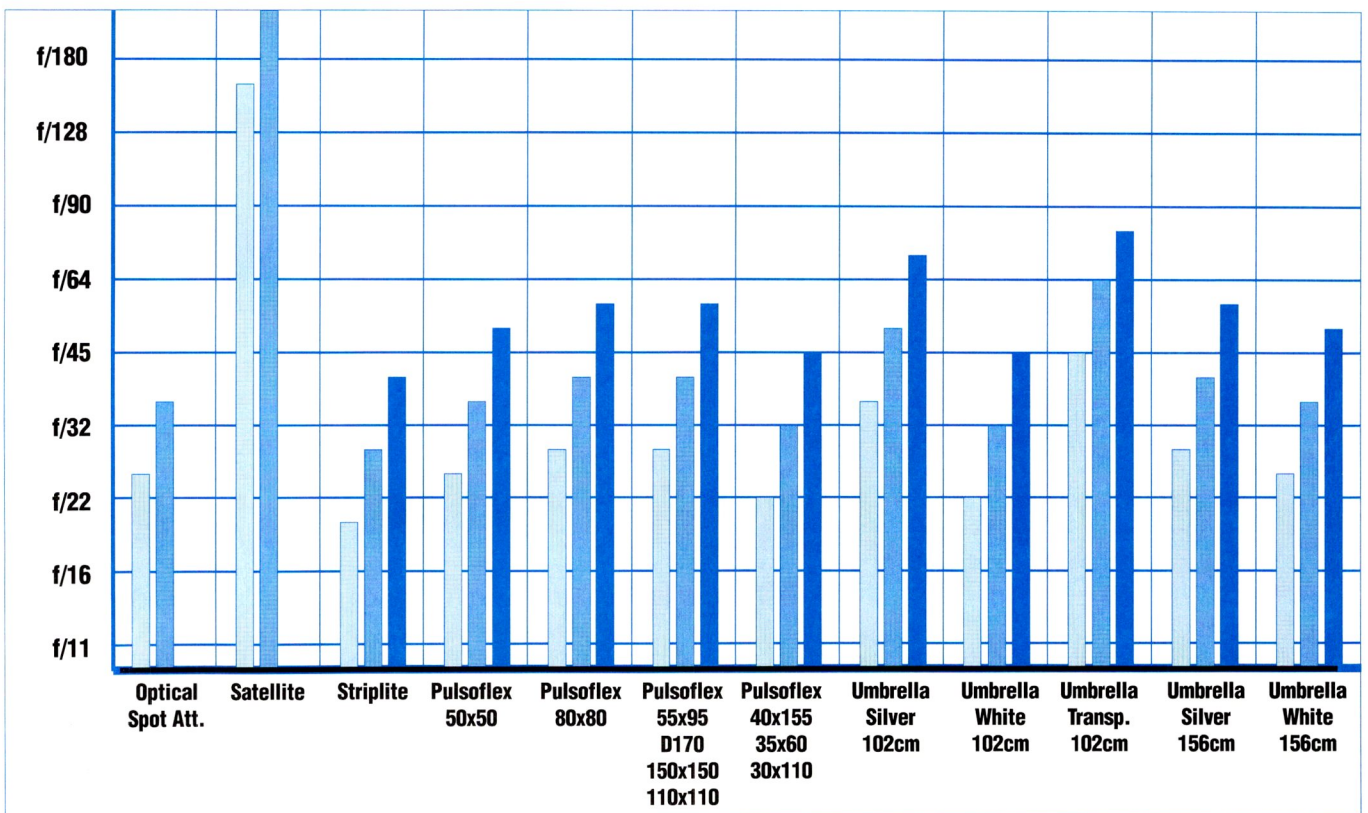
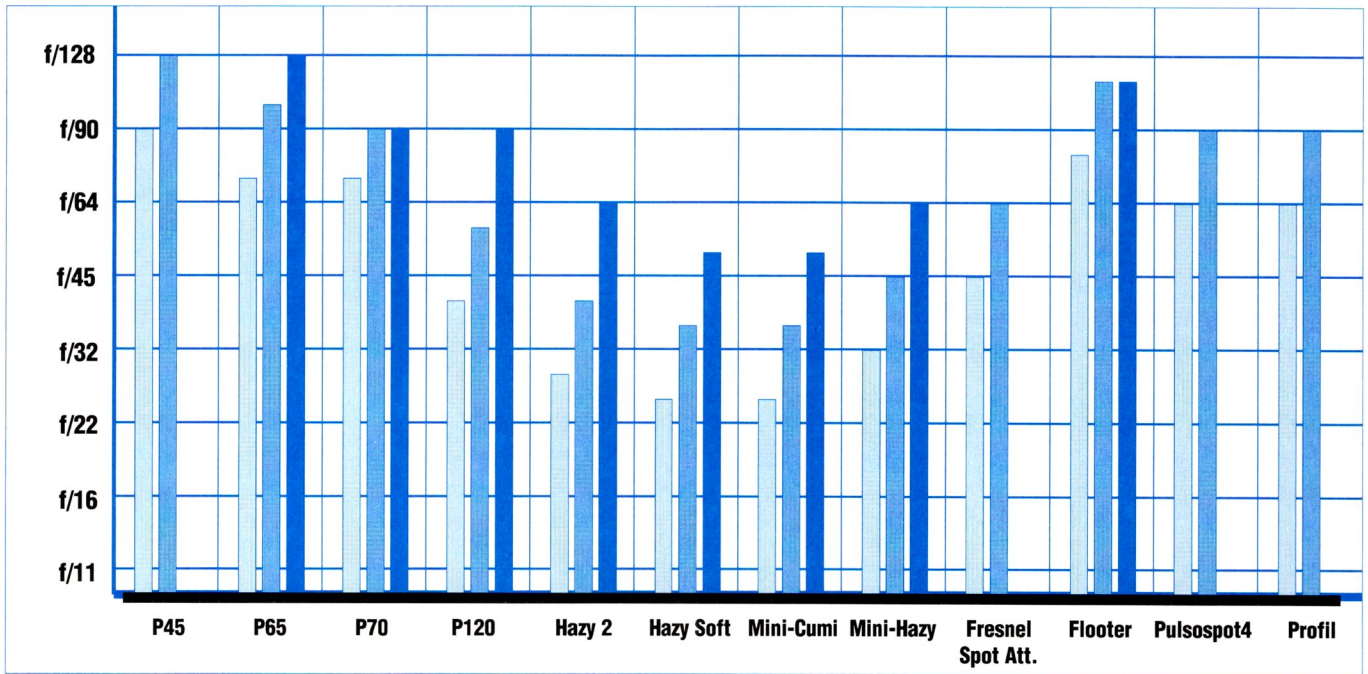
16-5001 \$569.00

Intermediate Sync Cable for Flashlink

This 16 foot cable will allow you to plug an additional Pulso A power pack into your Flashlink. Up to two additional packs are possible, each requiring their own cable.

16-5010 \$92.00

Power Pack / Reflector Combination Output Levels



* All readings taken at 2 meters (6½ feet), ISO 100. All umbrellas measured with P70 reflector. All adjustable reflectors measured at their narrowest setting.

Flashtubes

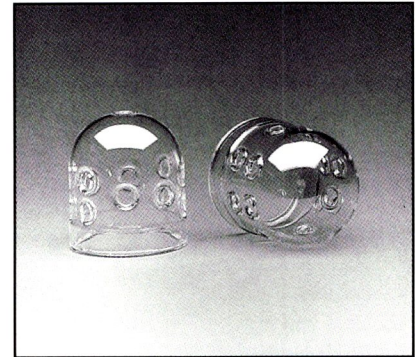
Protection Glass

Most Broncolor flashtubes are supplied with a UV light absorbent coating. Normal coating is 5300°K (±150°)

Capacity	Used with these heads	Cat #	Price
150Ws	Impact 21	17-2012	\$100.00
300Ws	Impact 41, Impact 21	17-2014	\$145.00
170Ws	C-70 compact units	15-1001	\$225.00
375Ws	C-171 compact units	15-1002	\$235.00
600Ws	All Impact S and Minipuls	15-0080	\$215.00
1600Ws	Boxlite-Small	15-1014	\$270.00
1600Ws*	Boxlite-Small	15-1019	\$260.00
800Ws	Boxlite-Large (2x)	15-1015	\$195.00
800Ws*	Boxlite-Large (2x)	15-1020	\$180.00
950Ws	Effect light	15-1006	\$199.00
1600Ws	Striplight	15-1017	\$395.00
3200Ws*	Pulsospot 4	15-1022	\$682.00
3200Ws*	Fibrolite	15-0005	\$289.00
1600Ws	Cumulite lighting elements	15-0013	\$199.00
950Ws	Universal/Flashman	15-1010	\$260.00
1600Ws	Universal, Universal Hazy	15-1004	\$385.00
1600Ws	Spotlight (old style)	15-1007	\$399.00
1600Ws	Spot Projector (old style)	15-1008	\$395.00
1600Ws	Combiflex	15-1009	\$760.00
1600Ws	Primo	15-1018	\$290.00
1600Ws	Flashman, Pulso 2, Pulso 2-Hazy, Compuls	15-0002	\$355.00
1600Ws	UV-s coating for above units	15-0102	\$410.00
1600Ws	UV-s coating for Universal	15-1104	\$385.00
3200Ws*	Pulso 4, Pulso Hazy	15-0004	\$595.00
6400Ws	Pulso 8, 606, Pulso 8-Hazy	15-1005	\$965.00
6400Ws	UV-s coating for above units	15-1105	\$995.00
2x1600Ws	Pulso Twin, Twin Universal, Twin Hazy	15-0011	\$660.00
2x1600Ws	UV-s coating for Pulso Twin	15-0111	\$705.00
2x3200Ws	Pulso Twin 4	15-0012	\$815.00
2x3200Ws	UV-s coating - Pulso Twin 4	15-0016	\$815.00
2x3200Ws*	Pulso Twin 4	15-0017	\$795.00

Special UV-s coating 5000°K (±150°): Special order, 4 week delivery.

*Uncoated (clear) 5900°K (±150°)



Protection Glass for Pulso 2 / Primo
15-0022 \$99.00

UV Protection Glass for Pulso 4
15-0026 \$135.00

UV-S Protection Glass for Pulso 4
15-0126 \$135.00

UV Mat Protection Glass for
Pulso/Hazy Lampbase
15-0028 \$135.00

UV-S Mat Protection Glass for
Pulso/Hazy Lampbase
15-0128 \$135.00

Non-UV Mat Protection Glass for
Pulso/Hazy Lampbase
15-0928 \$135.00

Protection Glass for Minipuls
15-0081 \$46.00

Mat Protection Glass for Minipuls
15-0082 \$65.00

Replacement 575W HMI Lamp
14-3575 \$590.00

HMI Protection Dome
14-3576 \$135.00

Flash tubes and Modeling Lamps
broncolor

Modeling Lamps

For Use With	Power	Cat. #	Price	For Use With	Power	Cat. #	Price
Boxlight	40W	15-2007	\$11.00	All 110V lampheads, Minipuls, Compuls 95	250W	15-2001	\$28.00
Impact 21/41	50W	17-2010	\$16.00				
Striplight	60W	15-2008	\$12.00				
Fibrolite	75W	15-2012	\$28.00	Cumulite (220V)	250W	15-2006	\$86.00
Impact S40/S80	150W	17-2011	\$28.00	Pulso 8, 606 (220V)	300W	15-2004	\$40.00
Combiflex	150W	15-2002	\$20.00	Pulso 8, 606 (240V)	650W	15-2005	\$40.00

Stands

Stand	Height	Features	Catalog #	Price
Foba Staro Stand	6.5'	Caster stand ideal for Pulsospot 4. Needs Clampholder (31-0902) & Threaded Bolt (13-3024).	31-0906	\$378.00
Junior Stand	8.2'	4 extensions. Ideal studio light stand	13-1002	\$205.00
Senior Stand	9.2'	4 extensions. Heavy-duty light stand	13-1003	\$260.00
Super Boom with Stand and Arm	8.2'	Stand and boom arm with adapter to Pulso head, with 2 hand cranks, stand attachment device, counter balance and casters.	13-3002	\$840.00
Mini-Hazylight Stand	7.4'	Adjustable height arm	13-0460	\$1195.00
Hazy Stand 301	8.8'	Easy vertical/horizontal positioning of Hazylight or Mini-Cumulite reflectors. See pg. 56	13-1005	\$3250.00
Flamingo Stand	10.7'	Special cantilevered design for Striplite, Hazylight reflectors. See pg. 56	13-1010	\$2395.00
Cumi Stand Motorized	8.5'	Motorized vertical movement for single Cumulite 2. Features extension arm, casters, platform for power pack. Includes bracket (13-4009).	13-4007	\$5795.00

Foba Clampholder, for Staro Stand

31-0902 \$155.00

Threaded Bolt to Clamping Holder

13-3024 \$59.00

Bolt, Broncolor to 3/8" Thread

13-4005 \$16.00

Bolt, Broncolor to 3/8" Thread & Foba Seat

13-4006 \$27.00

Stand Holder for Pulso to Junior Column

Attach power pack to stand
13-0025 \$76.00

Casters for Senior Stand

(set of 3)
13-4001 \$76.00

Adapter Pulso to Superboom

13-3004 \$64.00

Adapter Universal Series to Superboom

13-3005 \$64.00

Three-Legged Base

With Pulso bolt and 3/8" thread.
13-4002 \$119.00

Bracket to Cumulite

Required for use of stands.
13-4009 \$1395.00

Fuses Sold in Sets of 10

3.15 AF	Pulso & Primo Lampbase	15-5011	\$40.00
6.3 AFF	C70 / C171 / Unvl Lampbases	15-5007	\$30.00
8 AT	750 RT Power Pack	15-5001	\$28.00
10 AFF	606 Lampbases	15-5005	\$30.00
10 AT	750 RT / 1500 RT Power Pack	15-5010	\$30.00
12.5 AT	1500 RT Power Pack	15-5009	\$30.00
16 AF	200 / 260 / 606 Power Pack	15-5006	\$36.00
16 AT	Flashman, Pulso 220V, 304/404, Primo pack	15-5003	\$36.00
20 AT	Pulso 120V Power Pack	15-5012	\$30.00
250 Mat	200/260 Power Pack	15-5008	\$13.00
500 Mat	Spot Projector - Lampbase	15-5004	\$26.00

Note:

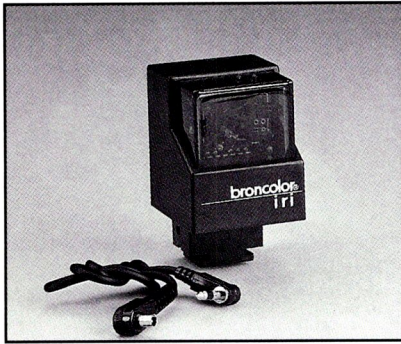
To prevent possible damage to modeling bulb and flashtube, use only the recommended super fast-blow fuse.

Call

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a dealer or sales
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your area.

(908) 754-5800
 (800) 456-0203

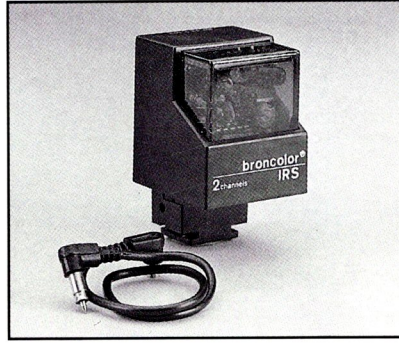
Infrared Transmitters



IRI Infrared Transmitter
Effective range 40 feet.
17-2105 **\$229.00**

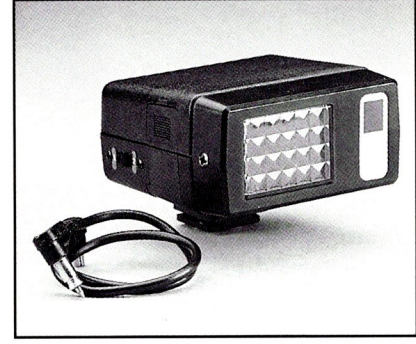
IRI / IRS Camera Sync
Replacement camera/transmitter sync cord.
17-2106 **\$20.00**

Accessory Shoe
23-4020 **\$50.00**



IRS Two Channel Infrared Transmitter
Allows infrared triggering of Broncolor packs from up to 60 feet away. Can be used from hot shoe or with sync cord. Includes sync and battery.
16-2002 **\$395.00**

IRI/IRS Battery
17-2107 **\$9.95**



IRS-E Infrared Transmitter
This long range two channel transmitter is compatible with all IR-equipped Broncolor strobes. The range outdoors in bright sunlight is 350 feet (in direct line of sight.) Two AA batteries deliver up to 3000 firings.
16-2008 **\$405.00**

IRS-E Camera Sync
Replacement sync cord
16-2009 **\$16.50**

Cases and Adapters

Case for Pulso 2 or lamps
10-1110 **\$299.00**

Case for Power Pack with casters
Fits Pulso 2 or 304/404.
11-3010 **\$310.00**

Case without casters
Fits Pulso 2 or 304/404.
11-3020 **\$290.00**

Pulso Wall Adapter, Bayonet
12-0910 **\$92.00**

Pulso Wall Adapter, Gudgeon
12-0912 **\$32.00**

Pulso Adapter
For universal accessories.
12-0999 **\$92.00**

Protection Cap
Replacement cap for Flashman and Pulso lampheads.
12-9111 **\$16.00**

Adapter for 12-1012 to Broncolor Post
13-4005 **\$16.00**

Adapter for 12-1012 to Foba Pantograph
13-4006 **\$27.00**

Cables

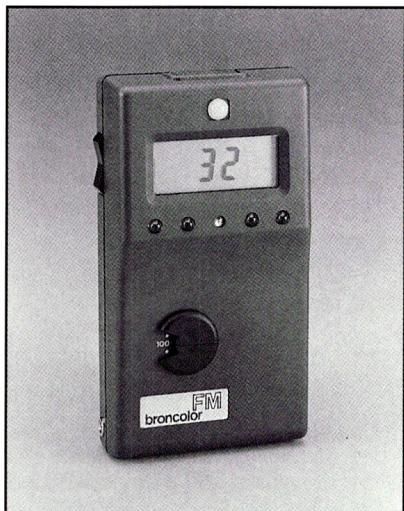
Type	Length	Product #	Price
Lamphead Extension*	16 ft.	15-4007	\$243.00
Lamphead Extension*	32 ft.	15-4008	\$285.00
Power, Pulso/Flashman/Opus	10 ft.	15-4010	\$ 23.00
Sync Deluxe **	16 ft.	15-0050	\$ 75.00
Sync Deluxe **	32 ft.	15-0055	\$ 95.00
Sync Extension Deluxe**	32 ft.	15-0060	\$ 95.00
Sync, Standard	16 ft.	15-0054	\$ 22.00
Sync, Universal	16 ft.	15-4001	\$ 93.00
Sync, Universal	32 ft.	15-4002	\$129.00
Sync Extension, Universal	32 ft.	15-4004	\$129.00
Sync Extension, Universal	16 ft.	15-4005	\$119.00
Sync Extension, Universal	32 ft.	15-4006	\$140.00

* For Universal, Primo, Flashman, Pulso and Pulso A.

** Heavy duty sync cable for use with all current power packs and compact units.

*** Standard sync delivered with all power packs.

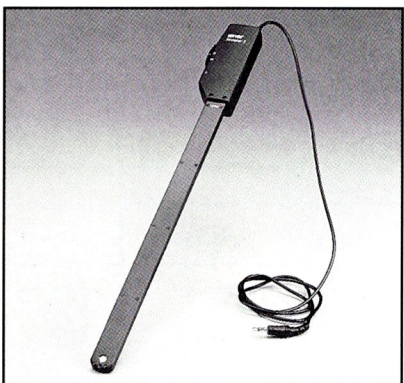
Flash and Color Meters



FM Flashmeter

- Easy flash measurement.
- Large LCD displays readings in $\frac{1}{3}$ stop increments.
- Range f/1.0 to f/180 $\frac{2}{3}$.
- ISO range 25-800.
- Infrared triggering of all Broncolor power packs, as well as sync plug.
- Single or multiple flash mode.

17-2205 \$475.00



SINAR Booster 1

- Film plane metering probe for the Minolta Flashmeter IV or III.
- Measures continuous and strobe light.
- Long enough to reach all areas of a 4x5, 5x7 or 8x10 metering back.
- Window on the tip of the meter allows precise spot positioning.
- Two plastic bumpers prevent damage to your ground glass.

22-1025 \$990.00

Case for FM / FCM Meters

Nylon case for FM and FCM meters (included with FCC.)

16-1009 \$13.00



FCM 2 Flashmeter

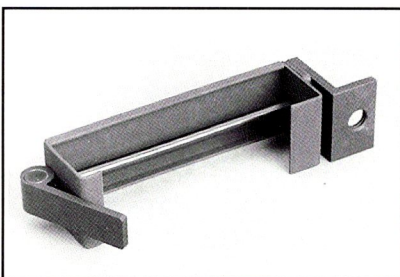
- New extended sensitivity range from EV 0 to 23.
- Measures both flash and continuous light, separately or combined.
- Film plane metering capability with the addition of the FCM 2 Probe.
- Two channel infrared triggering of Broncolor packs.
- Multiple flash measurement
- Mean and contrast readings.
- Infrared power level control of Pulso and Opus packs.
- Range f/1.0 - f/180.9 in $\frac{1}{10}$ stops.
- ISO 3 - 4000.
- LCD display.
- Requires 9V battery, not included.

16-1014 \$875.00

Probe for FCM 2 Flashmeter

Plugs into the FCM 2 meter to give you film plane metering capability with any large format camera. (Requires Lightmeter Cassette for use with non-Sinar cameras.)

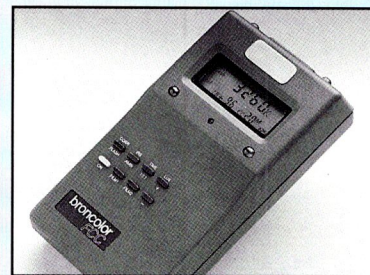
16-1011 \$429.00



FCM Holder

Keep your FCM conveniently attached to the side of your SINAR camera while using the FCM Probe.

16-1013 \$69.00



FCC Color/Flash Duration Meter

- Measures color temperature and flash duration (t 0.1).
- Color measurement of flash and continuous sources.
- Calculates proper filtration for any two programmable film types.
- Infrared color temperature control of Pulso A packs.
- Infrared triggering of all Broncolor packs.
- Lux readings of ambient light.
- Includes case.
- Requires one 9-volt battery (not included).

16-1020 \$1199.00

Sinar Color Control Filter Color Meter Kit

Includes all the filters necessary to make color corrections based on readings from the Broncolor FCC meter. Also includes a filter wallet for storage and a Color Control Filter Cleaning Kit. Requires Filterholder 100, page 39.

51-2200 \$880.00

Adapter FCM2 to Booster 1

Connects the Sinar Booster 1 to the FCM 2 for film plane metering with a sensitivity range extended by one f/stop at the low end.

22-1026 \$250.00

Y-Cable

Allows you to keep both your meter and your shutter plugged into your strobe's sync cable at the same time.

22-3008 \$83.00

Impact

- Self-contained, AC powered flash units.
- 150 or 300Ws of power.
- Up to 2-stop adjustment range.
- Multiple voltage capability.
- Built in infrared and white light slave.
- Proportional modeling lamp.
- Full range of professional accessories.
- 100% recycle time as low as 0.8 sec.
- Weight 6.5 lb (Impact 21) or 7.5 lb (Impact 41).
- Flash Duration (t 0.5) 1/2000 sec (Impact 21) or 1/1000 sec (Impact 41).
- Low power consumption - 0.7A.
- Flash voltage stabilized to ±1%.



Impact 21

f/22 at 6 1/2 ft (ISO 100, standard silver reflector.)

Includes bracket, protection cap, power cable, flashtube, modeling lamp 50W. Without reflector, sync cable, and protection glass.

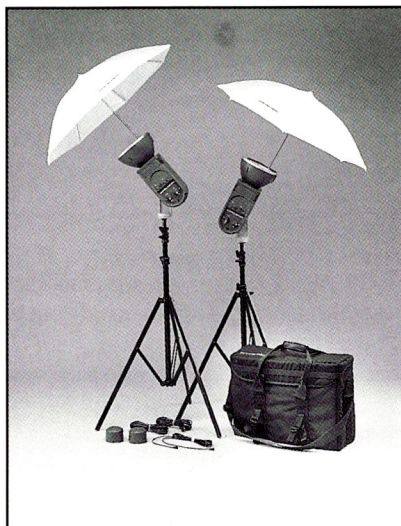
17-1021 \$520.00

Impact 41

f/32 at 6 1/2 ft (ISO 100, standard silver reflector)

Includes bracket, protection cap, power cable, flashtube, modeling lamp 50W. Without reflector, sync cable, and protection glass.

17-1041 \$890.00



Impact Classic Kit

With heavy duty case.

Includes:

- | | | |
|---|---------|------------------|
| 1 | 17-1041 | Impact 41 |
| 2 | 17-1021 | Impact 21 |
| 2 | 17-2030 | Silver reflector |
| 1 | 17-2042 | Barn doors |
| 1 | 17-2044 | Impaflex 60 |
| 1 | 17-2080 | Sync cable |
| 3 | 17-2024 | Stands |
| 1 | 17-2105 | IRI Transmitter |

17-1061 \$3450.00

Impact Expert Kit

With heavy duty case.

Includes:

- | | | |
|---|---------|--------------------|
| 3 | 17-1041 | Impact 41 |
| 2 | 17-2030 | Silver reflector |
| 1 | 17-2042 | Barn doors |
| 1 | 17-2036 | Honeycomb |
| 1 | 17-2044 | Impaflex 60 |
| 1 | 17-2061 | Umbrella reflector |
| 1 | 17-2066 | Silver Umbrella |
| 3 | 17-2024 | Stands |
| 1 | 17-2080 | Sync cable |
| 1 | 17-2105 | IRI Transmitter |
| 1 | 17-2072 | Color filters |

17-1071 \$4590.00

Impact Executive Kit

- | | | |
|---|---------|---------------------|
| 1 | 17-1041 | Impact 41 |
| 1 | 17-1021 | Impact 21 |
| 2 | 17-2061 | Umbrella reflectors |
| 2 | 17-2062 | White Umbrellas |
| 2 | 17-2024 | Stands |
| 1 | 17-2018 | Two Head Soft Case |
| 1 | 17-2080 | Sync cable |
- 17-1110 \$1750.00

Impact Super Executive Kit

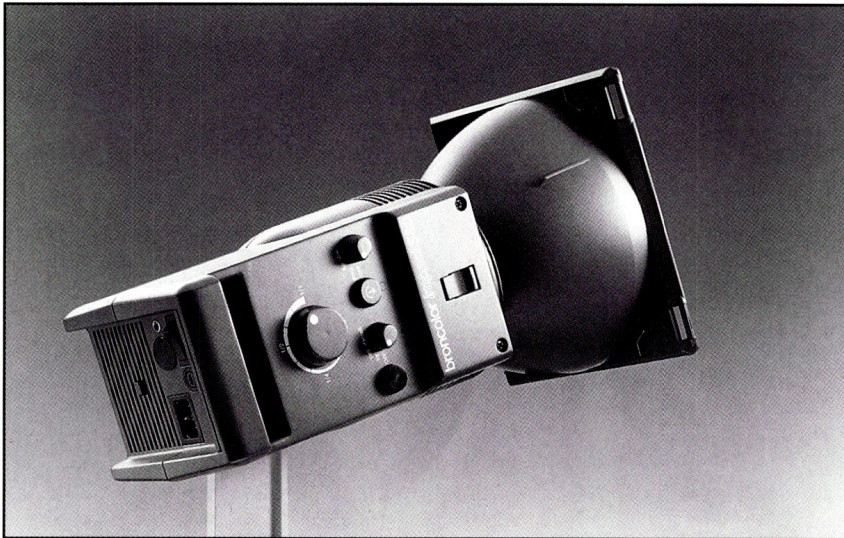
- | | | |
|---|---------|---------------------------|
| 2 | 17-1041 | Impact 41 |
| 2 | 17-2030 | Standard Silver Reflector |
| 2 | 17-2024 | Stands |
| 1 | 17-2080 | Sync Cable |
| 2 | 17-2016 | Protective Glass Dome |
| 1 | 17-2018 | Two Head Soft Case |
- 17-1112 \$2090.00

Call

For the name of
a dealer or sales
representative in
your area.

(908) 754-5800
(800) 456-0203

Impact S



Impact S40

f/32 at 6 1/2 ft. (ISO 100, standard silver reflector)

Includes flashtube, 150W modeling lamp, power cable, protection cap.

17-1040 **\$990.00**

Impact S80

f/45 at 6 1/2 ft. (ISO 100, standard silver reflector)

Includes flashtube, 150W modeling lamp, power cable, protection cap.

17-1080 **\$1290.00**

Impact S40 and S80

- The newest, most powerful additions to the Impact line.
- 300 and 600Ws of raw power — **up to f/45 at 6 1/2 feet.**
- Bright **150W** modeling lamp.
- 3 stop adjustment range in 1/3 stop increments.
- Automatic multi voltage — just plug them in, anywhere in the world.
- Built-in infrared and white light triggers can be independently switched.
- Full, proportional and dim on recycle modeling light modes.
- Compatible with the Impact accessory line.
- Weight 7 lbs (S40) and 9 lbs (S80).

600Ws Flashtube for Impact S40/S80 and Minipuls 40/80

15-0080 **\$215.00**

150W Modeling Lamp for Impact S

17-2011 **\$28.00**

Impact kits offer the ideal package for the location photographer. Sinar Bron offers a selection of kits ranging from the Travel Kit, which comes in a soft case with two heads, to the Expert Kit made up of four heads in an ATA-approved hard case. A kit purchase is a substantial savings over buying the components separately.

Impact S Travel Kit

2	17-1040	Impact S40
2	17-2030	Silver reflector
2	17-2024	Impact stands
1	17-2080	Sync cable
2	15-0041	Glass dome
1	17-2018	Two head soft case

17-1090 **\$2490.00**

Impact S Classic Kit

With heavy duty case.

Includes:

1	17-1080	Impact S80
2	17-1040	Impact S40
2	17-2030	Silver Reflector
1	17-2042	Barn Doors
1	17-2045	Impaflex 80
1	17-2080	Sync Cable
3	17-2024	Impact Stands
1	17-2105	IRI Infrared Transmitter
1	17-2023	Heavy duty travel case

17-1091 **\$4690.00**

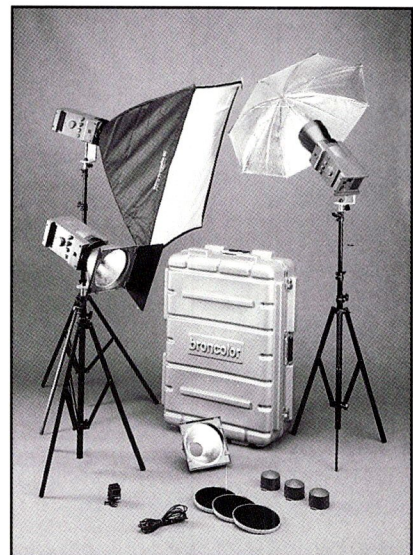
Impact S Expert Kit

With heavy duty case.

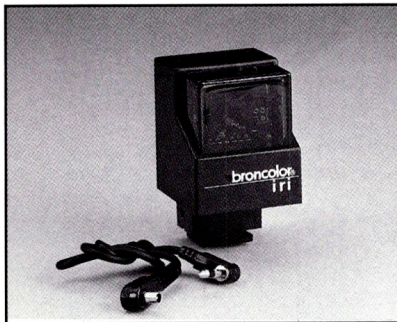
Includes:

3	17-1080	Impact S80
2	17-2030	Silver Reflector
1	17-2042	Barn Doors
1	17-2036	Honeycomb Set
1	17-2045	Impaflex 80
1	17-2063	Umbrella Reflector
1	17-2066	Silver Umbrella
3	17-2024	Impact Stands
1	17-2080	Sync Cable
1	17-2105	IRI Infrared Transmitter
1	17-2023	Heavy duty travel case

17-1092 **\$5590.00**



Meters and Transmitters

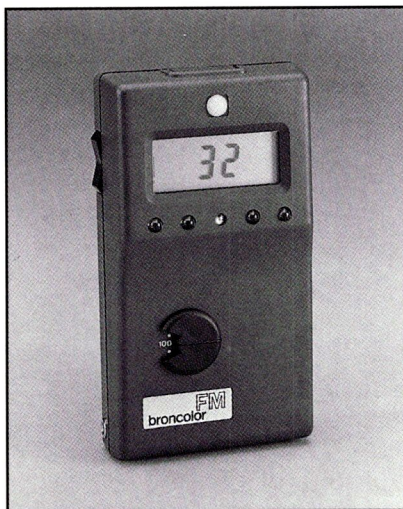


IRI Infrared Transmitter

With camera sync lead and battery. Can be used from hot shoe. Range, 30 feet (for longer distance, use IRS unit). Uses Eveready 504, NEDA 220 battery.
17-2105 \$229.00

IRI /IRS Camera Sync

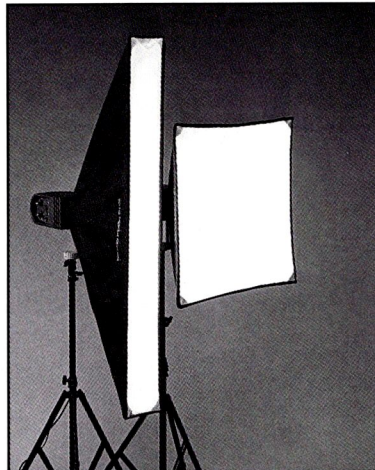
Replacement camera sync for IRI and IRS transmitters.
17-2106 \$20.00



FM Flashmeter

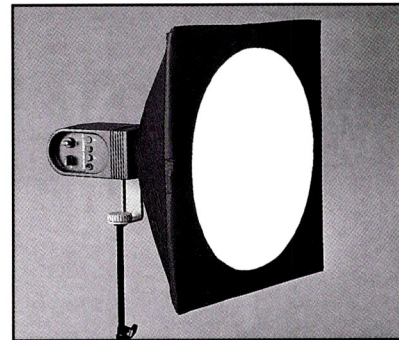
Flash metering, in 1/3 F-stops. Single and multi flash modes as well as infrared triggering. Requires 1 9V battery.
17-2205 \$475.00

Impaflex



The Impaflex is a soft fabric reflector providing uniformly diffused light due to reduction of stray light and its brilliant silver reflector finish inside.

Impaflex 60 (23 1/2" x 23 1/2")
17-2044 \$358.00



Mask with Round Cut Out

For Impaflex 60.

17-2046 \$71.00

Impaflex 80 (31 1/2" x 31 1/2")

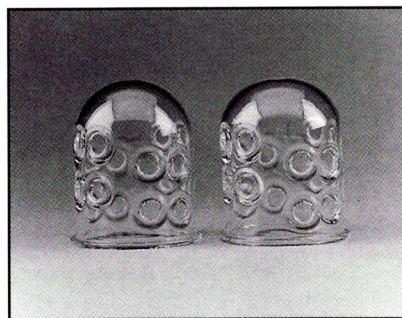
17-2045 \$414.00

Impastrip 15x125cm (6" x 50")

For Impact 21/41 only.

17-2050 \$345.00

Impact Accessories



Glass Dome to Impact 21,41

For protection of flashtube and modeling lamp.

17-2016 \$40.00

Glass Dome for Impact S

15-0041 \$46.00

Mat Protection Dome

Mat top: necessary for spot attachment. Useful for diffusion.

Mat Protection Dome Impact 21/41
17-2017 \$46.00

Mat Protection Dome Impact S
15-0042 \$55.00

Sync Cable 16 feet

15-0050 \$75.00

Power Cable, 10' (repl.)

17-2084 \$16.00

Sync Cable 13 feet

17-2080 \$21.00

Pyrex Flashtube to Impact 21

17-2012 \$100.00

Quartz Flashtube to Impact 41

17-2014 \$145.00

50W Modeling Lamp

For Impact 21/41.

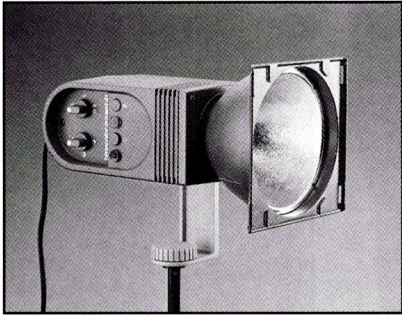
17-2010 \$16.00

6.3 AF Fuse for Impact

Package of 10.

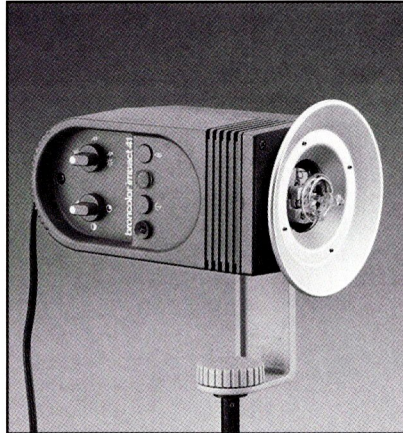
17-2005 \$28.00

Impact Reflectors



Reflector Standard Silver
17-2030 \$79.00

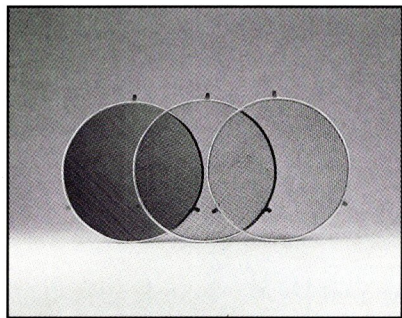
Reflector Standard White
For Impact 21/41 only
17-2032 \$79.00



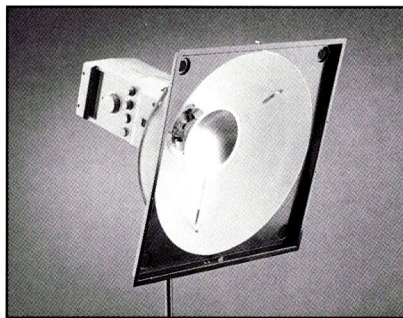
Wide Angle Reflector
17-2033 \$69.00



Spot Attachment
A focusing spot with built in condenser. Diffused spot and circular masks allow the photographer crisp and clean circular highlights. Equivalent to the baby spots in tungsten light studios. Includes 3 aperture masks (17-2040). Requires mat protection dome for Impact 21/41 (17-2017) or Impact S (15-0042).
17-2039 \$585.00

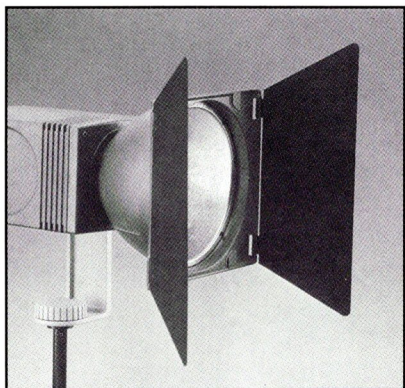


Honeycomb Grid Set
For standard reflectors, set of 3 (fine, medium, coarse).
17-2036 \$199.00



Soft Light Reflector
With metal counter-reflector, for Impact and Impact S.
17-2037 \$275.00

Aperture Masks
For spot attachment, set of 3 different openings.
17-2040 \$32.00



Barn Doors
For standard reflector, set of 2 pieces.
17-2042 \$61.00



Honeycomb to Soft Light
17-2035 \$166.00

Grill Masks
For spot attachment, set of 12 pieces.
17-2041 \$88.00

Diffusor Filters
For standard reflector, set of 12.
17-2070 \$31.00

Barn Doors for Soft Light
Set of 2 pieces.
17-2043 \$150.00

Conic Snoot
17-2038 \$119.00

Bare-Bulb Ring
Must be mounted for bare bulb use of Impacts. The ring prevents heat damage to the housing.
17-9100 \$36.00

Color Filters
For standard reflector, set of 12.
17-2072 \$61.00

**Toll Free
Order Line
(800) 456-0203**

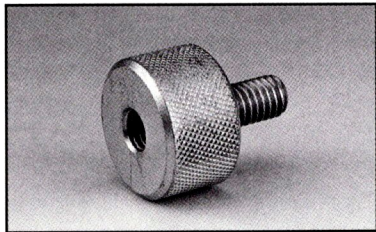
Stands and Adapters

Impact Stand

8 foot
17-2024 \$144.00

Impact Mini Stand

With column and bolt. Minimum height 5 inches, maximum 33 inches.
17-2025 \$67.00

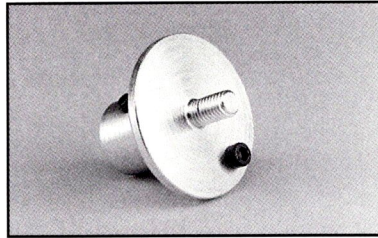


Threaded Nipple 3/8"

For using other stands.
17-2026 \$12.00

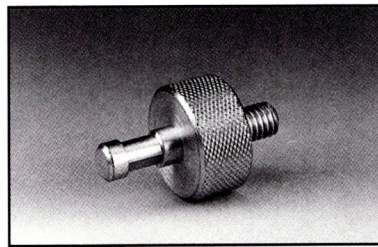
DC Converter

Converts 12 volt auto battery for use with Impact 41 or 21. (110v)
17-2086 \$1175.00



Impact Adapter to Super Boom

17-2027 \$47.00



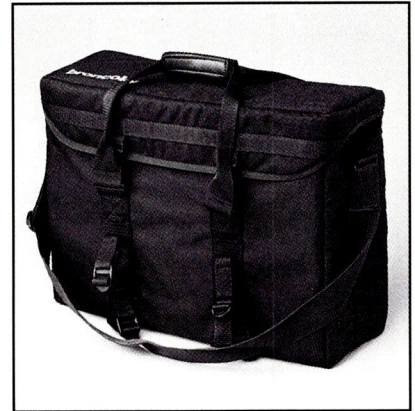
Threaded Bolt 3/8"

For Broncolor Junior stand.
17-2028 \$15.00

3/8" Thread Adapter

For 3/8" rod.
17-2029 \$18.00

Impact Cases



Executive Kit Case

Holds two heads, plus accessories. Measures 20" l x 7" w x 14" h. Weight 4 lbs.
17-2018 \$166.00

Heavy Duty Case for Impact 21/41

Holds four heads, stands, reflectors, Impaflex, color filters and more. Center columns on the stands may have to be reversed to fit.

Dimensions 34" l x 24" w x 11" h. Weight 25 lbs.
17-2020 \$499.00

Heavy Duty Case for Impact S40/S80

17-2023 \$499.00

Bag for Three Stands

17-2022 \$41.00

Umbrellas

Umbrella Reflector for Impact S

Allows mounting of umbrellas on Impact S units.
17-2063 \$93.00

Umbrella Reflector for Impact

17-2061 \$93.00

White 35" Umbrella

17-2062 \$82.00

Transparent 35" Umbrella

17-2064 \$82.00

Silver 35" Umbrella

17-2066 \$102.00

Any questions?

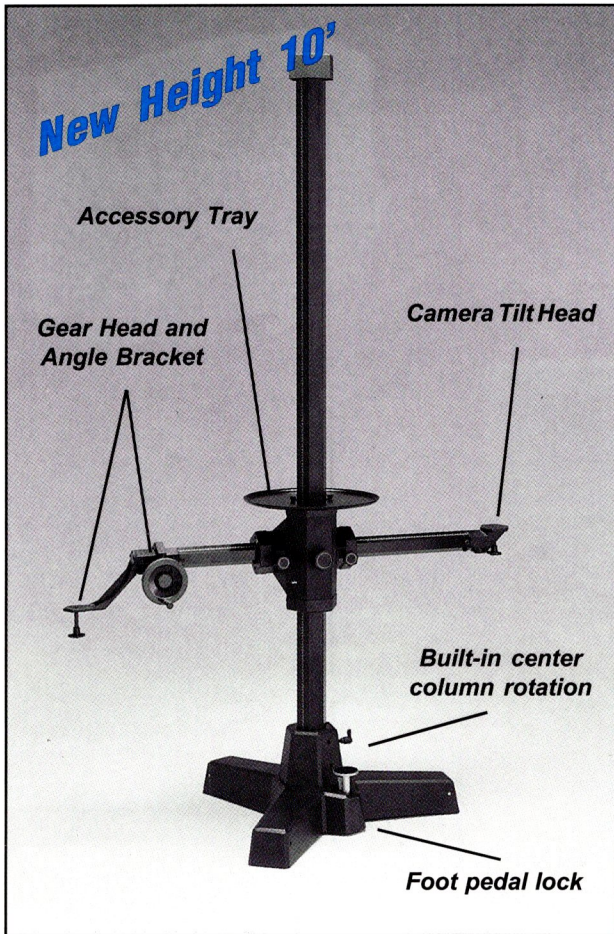
Just give us a call.
Our customer service staff
will be happy to help.

(800) 456-0203

Our entire studio is outfitted with Sinar, Broncolor and Foba. My favorite piece of equipment, though, is Impact. I use them for everything — industrial, scientific, portraits and closeup work. They're reliable, lightweight, compact and easy to set up...and they always work.

— Cary Chin
San Francisco, CA

ASTIO Camera Stands



ASTIO

- Known worldwide as the finest studio stand on the market.
- Hexagonal profile column and cross arm give you the ultimate in stability.
- **Standard height now 10ft.**
- Movements ride on 24 roller bearings for silky smooth movements in all directions.
- Vertical column diameter is 4", and the cross arm is 2.5".
- Weight 287 lbs.
- Shown with accessory tray, camera tilt head, gear head and angle bracket, not included.

31-0129 \$4990.00

ASTE0

Camera stand special order up to 11 feet, otherwise same as ASTIO.

31-0128 \$5140.00

ASTIM

Motor-driven stand for smooth, electrically-operated vertical adjustments.

31-0125 \$8740.00

ASTIE

ASTIO, with electronic vertical and horizontal scales, accurate to 1/100th of an inch for precise, repeatable positioning of the stand.

31-0133 \$9200.00



Accessory Trays

19" diameter metal tray for use on FOBA studio stands to keep all your accessories close at hand. **Now features felt covering to protect your accessories.** Attaches with two locking screws.

ASTIO Accessory Tray

31-0126 \$155.00

ASABA Accessory Tray

31-0143 \$155.00



Camera Tilt Heads

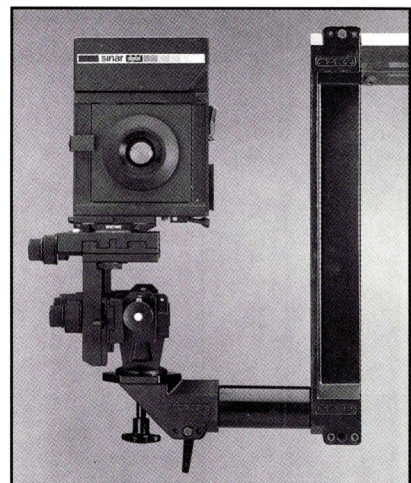
Standard tilt head for use on the FOBA studio stands. Comes with 3/8" screw.

ASTIO Camera Tilt Head

31-0127 \$245.00

ASABA Camera Tilt Head

31-0142 \$210.00



Low Position Arm

This new accessory further extends the versatility of the ASTIO stand by allowing you to move your camera to within inches of the ground. Because of its weight, the arm cannot be used with the ASABA stand.

31-0132 \$375.00

ASABA Camera Stands

ASABA

- Features hexagonal column construction and the same sturdy base as the ASTIO (without the rotation collar).
- All movements glide on 24 adjustable roller bearings.
- Standard height 10'; can be cut down (\$50 charge) to whatever height you need.
- Perfect for the 4x5 photographer who shoots some 8x10
- Weight 220 lbs.
- Shown with accessory tray, camera tilt head, gear head and angle bracket, not included.

31-0140\$2990.00

Counterweights

Additional counter weight for use with the FOBA studio stands when used with heavier cameras.

ASTIO Counterweight 11lbs

31-0110\$89.00

ASABA Counterweight 7 lbs

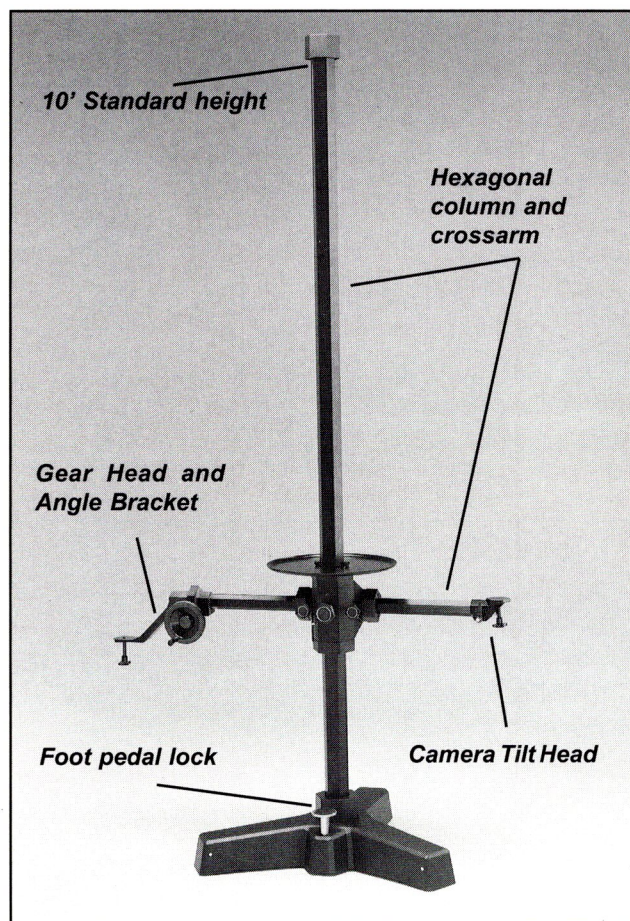
31-0144\$66.00

Reducing Sleeve

For attaching the ASTIO gear head to an ASABA stand.
31-0145\$69.00

Adapter Sleeve

To use the ASTIO angle bracket on the ASABA studio stand.
31-0150\$45.00



Rotating Column Flange

Provides center column rotation. For use on an ASABA camera stand.
31-0146\$460.00

Extension Arms

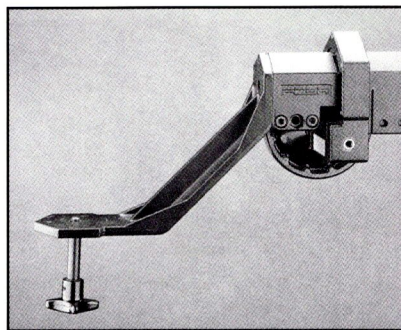
The arm adds 23" to the reach of your stand, so you can extend your camera out above the set with ease.

ASTIO Extension Arm

31-0134\$320.00

ASABA Extension Arm

31-0135\$199.00



Angle Brackets

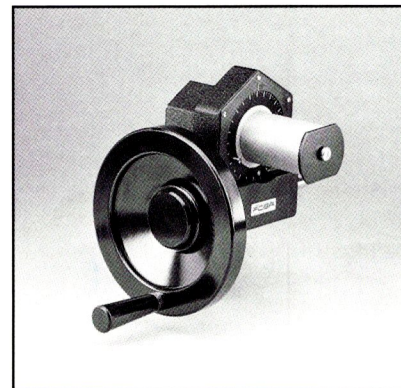
The Angle Bracket is used to offset the weight of heavy cameras for smooth tilt operation on either the gear head or crossarm. Only the ASTIO Angle bracket maybe used with both gear heads. The ASABA angle bracket mounts only to the ASABA crossarm.

ASTIO Angle Bracket

31-0109\$370.00

ASABA Angle Bracket

31-0111\$370.00



Gear Heads

The FOBA gear heads allow for fine gear driven adjustment of heavy cameras. Both gear heads require the use of either a tilt head (31-0127) or an angle bracket (31-0109) on which to attach the camera.

ASTIO Gear Head

31-0106\$895.00

ASABA Gear Head

Includes adapter sleeve (31-0145).
31-0117\$925.00

Lightweight Studio Stand

ASLOA Lightweight Studio Stand

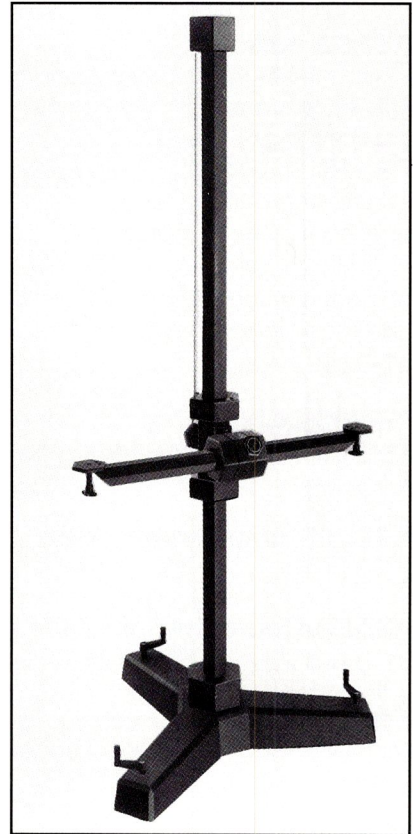
- Great for photographers who mainly shoot smaller formats, with occasional 4x5.
- Center column is 7' high, and the sliding horizontal arm measures 32".
- Horizontal arm features two built-in camera plates with 3/8" screws. Add a Superball or a Pan-Tilt head for additional mobility and you're ready to go.
- Stand uses the same ultra-stable hexagonal column construction as Foba's larger models.
- Vertical and horizontal movements glide on 24 roller bearings for smooth fingertip control.
- Casters can be locked down via hand cranks.
- Weight 132 lb.

31-0160\$1750.00

Additional Counterweight

4.5 lb. counterweight, recommended for use with large format cameras.

31-0163\$51.00



We borrowed an ASABA from our Sinar Bron rep to try out for a few days. Even though we weren't in the market for a stand, we couldn't see how we could get along without this one. We bought that demo stand rather than be without it while a new one was shipped out to us.

— John Sykaluk, Rockford, IL

FOBA Superball System

The Foba Superball is made with the precision of SINAR and the reliability of FOBA. This ball head comes with the largest range of accessories available. Whether you need a quick release plate, a normal camera plate (we offer both 3/8" and 1/4"), or even a Hasselblad plate, our Superball head has them all.

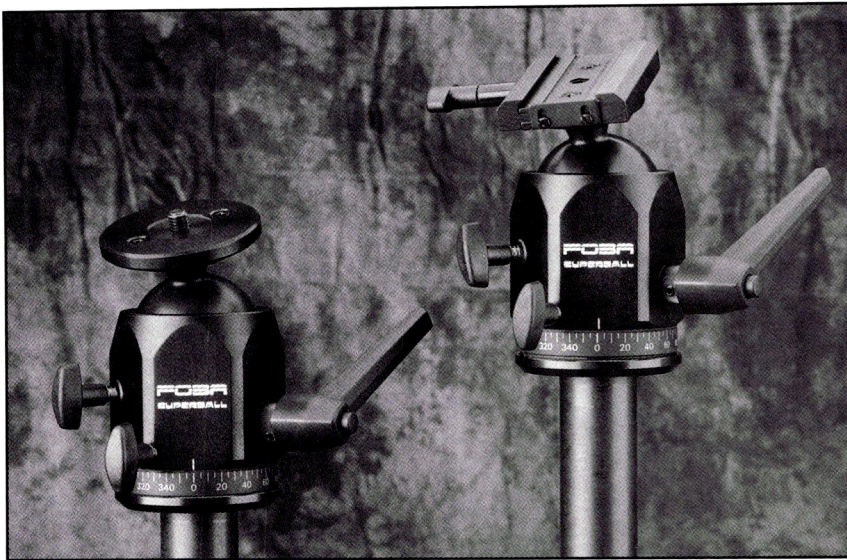
The Superball has one of the strongest fixation devices on the market today. Once the ball is locked it stays locked. But that's not to say you can't adjust the friction on the ball to suit your needs. Besides this, the base can rotate a full 360° and its tension is also adjustable.



SUPERBALL
The precision of Sinar...
the reliability of Foba

The all black anodized Superball.

FOBA Superball System

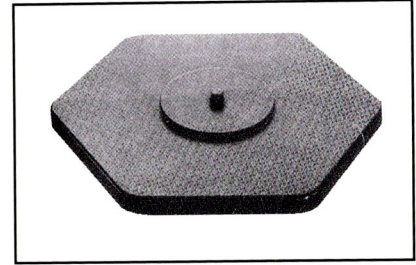


Superball with Quick Release Head

This quick release plate allows you to change cameras quickly and easily with the twist of just one knob. Head includes a removable safety stopper. There are five different types of quick release plates to choose from: 3/8", 1/4", 35mm and Hasselblad 3/8" and 1/4".
33-0505 \$379.00

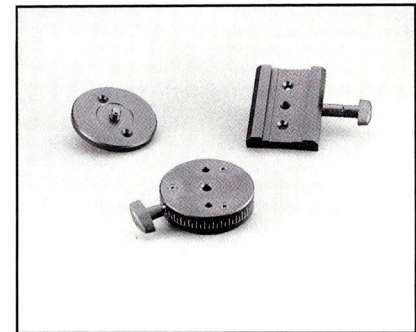
Superball with 3/8" & 1/4" Standard Head

Can be used on all types of tripods and studio stands. Will take all of the accessories listed below.
33-0500 \$359.00



Base Plate

Attaches to the bottom of the Superball head. This allows the head to be used easily from a very low level such as the ground, or for table top use.
33-0507 \$99.00



Universal Reversible Camera Plate

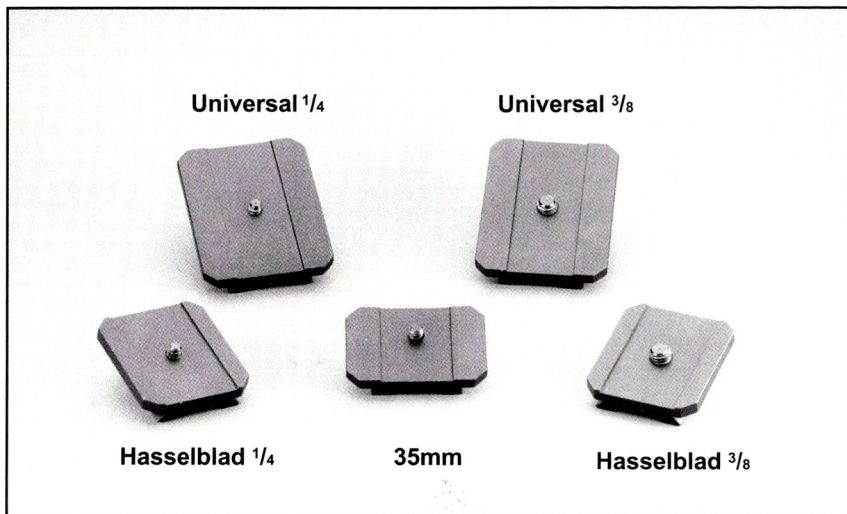
Has both 3/8" and 1/4" threads. Supplied with the standard Superball head (33-0500).
33-0511 \$52.00

Quick Release Head

Can be added to the standard ball head as an option at a later date. Supplied with (33-0505).
33-0513 \$149.00

Panorama Adapter

For use on either Superball. Allows rotation of the camera plate at any angle in addition to the base rotation.
33-0514 \$185.00



Quick Release Plates

Type	Thread	Cat. #	Price	
35mm	1/4"	33-0508	\$58.00	All Quick Release plates are designed for use with the Superball Quick Release Head for easy mounting and removal of cameras.
Hasselblad	3/8"	33-0509	\$58.00	
Hasselblad	1/4"	33-0506	\$58.00	
Mamiya	3/8"	33-0515	\$61.00	
Universal	3/8"	33-0512	\$52.00	
Universal	1/4"	33-0510	\$52.00	
Sinar a1	3/8"	33-0516	\$58.00	

Prices and specifications subject to change without notice.

Tripods and Accessories



Alfao/Alfeo Tripod Combo

This heavy-duty tripod is perfect for your medium or large format camera. It will comfortably hold either a 4x5 or 8x10 camera. You can increase the basic height of the tripod to an almost unlimited height by using combitubes. This tripod consists of (31-0103) and (31-0102.)

31-0136 \$1100.00

Alfao Tubular Tripod

Maximum height 58 1/2". Minimum height 30". With 3 section legs.

31-0102 \$625.00

Crank Insert

Geared center column for the Alfao tripod. Can be extended 15".

31-0103 \$545.00

Ballsocket Foot

31-0108 \$50.00

Tripod Spike

31-0107 \$20.00

Rubber Foot

Separate.

31-0124 \$10.00

Tripod Carrying Case

31-0105 \$295.00

Adapter for Camera

3/8" male to 3/8" male

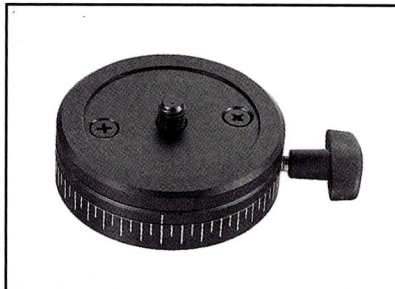
31-0213 \$30.00



Mini Universal Tripod

This versatile mini tripod (only 11" high) can be extended with combitubes for use on stairs or other uneven surfaces.

31-0123 \$410.00



Panoramic Adapter

The panoramic adapter is a 360° rotatable collar which features both 3/8" and 1/4" threads. It can be used on the Alfao/Alfeo, Mini Universal tripod or any other tripod or camera stand.

31-0156 \$185.00



Pan Tilt Head

Foba's pan tilt head for either their camera stands or tripods. Comes equipped with both 3/8" and 1/4" threads.

31-0119 \$510.00



Double Pan Tilt Head

The double pan tilt head is similar to the original head, but features an additional tilt movement for full 3-dimensional flexibility.

31-0118 \$715.00

Call

For additional literature on any of
the products in our catalog.

(800) 456-0203

Combitube Sets & Cases



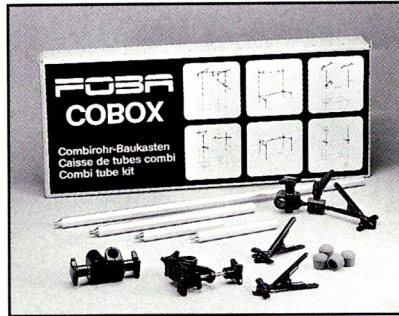
COKIT AS

The COKIT is the perfect accessory for all the FOBA background tables.

This combitube set consists of:

- 4- Aluminum combitube 16"
- 2- Joint sleeve
- 2- Combi clamp
- 1- Universal clamp
- 1- Universal sleeve

31-0253\$341.00



COBOX AF

FOBA's intermediate combitube set is ideal for both studio use and location shots.

- 6- Aluminum combitube 2'9"
- 4- Aluminum combitube 16"
- 4- Aluminum combitube 8"
- 4- Joint sleeve
- 2- Triple sleeve
- 2- Double sleeve
- 1- Universal clamp
- 1- Universal sleeve
- 5- Combi clamp
- 4- Rubber feet

31-0252\$886.00

COBOX AS

Same as above but in anodized black.

31-0255\$892.00

COSAT AS

Foba's combitube extension kit, to complete or add to existing equipment.

- 8- Aluminum combitube 2'9"
- 4- Aluminum combitube 16"
- 2- Aluminum combitube 8"
- 6- Joint Sleeve
- 2- Triple sleeve
- 2- Double Sleeve
- 1- Universal sleeve
- 5- Combi clamp
- 1- Universal clamp
- 2- Flexible holder
- 2- Clamp to Flexible holder
- 4- Rubber feet

31-0256\$1265.00

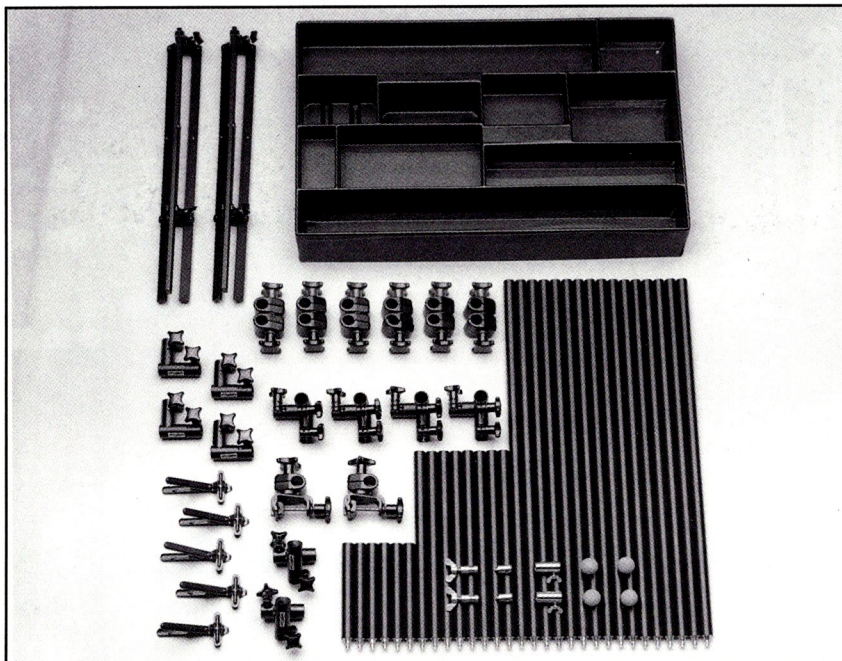
Case for Combitube Set

31-0240\$541.00

Carrying Bag for Stands and Combitubes

31-0239\$174.00

The FOBA combitube system allows you to build an unlimited array of set-ups and configurations. This versatile system offers strength, durability and ease of assembly at a very reasonable cost.



COSET AF

The largest of the combitube sets. The COSET will help eliminate the gaffers tape syndrome.

- 16- Aluminum combitube 2'9"
- 8- Aluminum combitube 16"
- 6- Aluminum combitube 8"
- 6- Joint sleeve
- 4- Triple sleeve
- 4- Double sleeve
- 2- Cross sleeve
- 2- Universal sleeve
- 5- Combi sleeve
- 2- Threaded sleeve adapter
- 2- Threaded bolt
- 4- Rubber foot
- 2- Aluminum folding stand

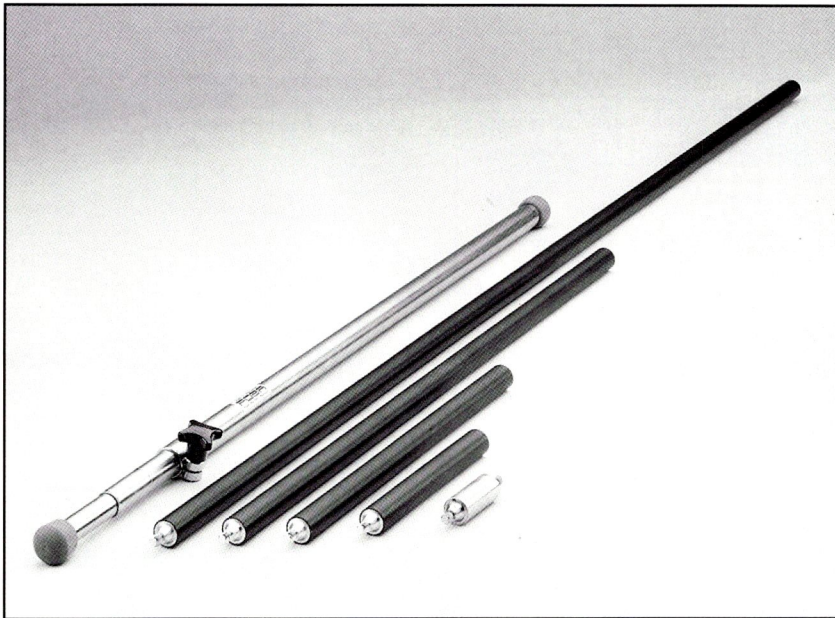
31-0241\$1795.00

COSET AS

As above, in anodized black.

31-0248\$1850.00

FOBA Combitube System



8" Combitube

Steel	
31-0214	\$23.00
Aluminum	
31-0215	\$23.00
Aluminum black	
31-0216	\$23.00

16" Combitube

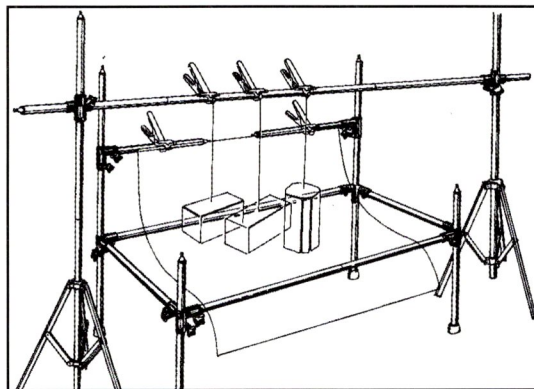
Steel	
31-0225	\$27.00
Aluminum	
31-0226	\$27.00
Aluminum black	
31-0227	\$29.00

2'9" Combitube

Steel	
31-0234	\$32.00
Aluminum	
31-0235	\$32.00
Aluminum black	
31-0236	\$35.00

5'4" Combitube

Steel	
31-0228	\$55.00
Aluminum	
31-0229	\$55.00
Aluminum black	
31-0230	\$61.00

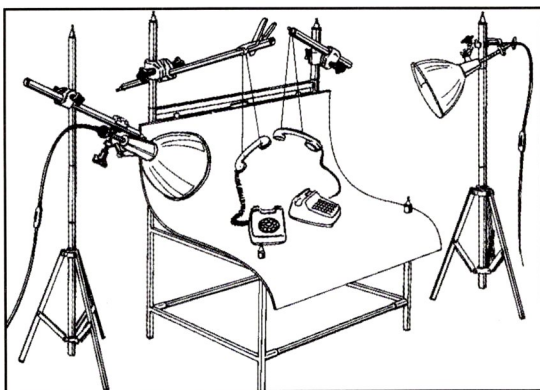


2" Coupling Piece

Steel	
31-0245	\$23.00
Aluminum	
31-0246	\$23.00
Aluminum black	
31-0247	\$23.00

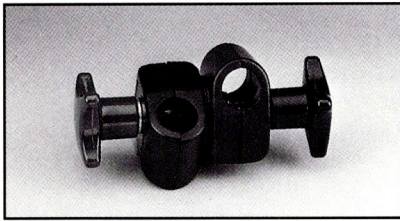
Spring Tension Tube

31-0218	\$128.00
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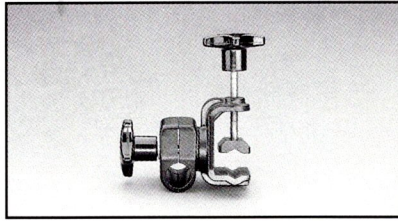


Any questions? Give us a call. (800) 456-0203

FOBA Combitube System Accessories



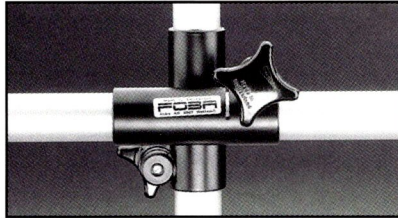
Joint Sleeve
#31-0220



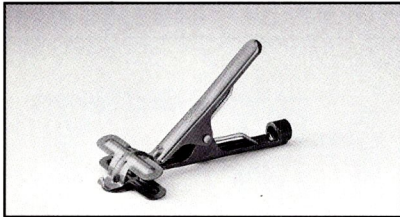
Universal Sleeve
#31-0219



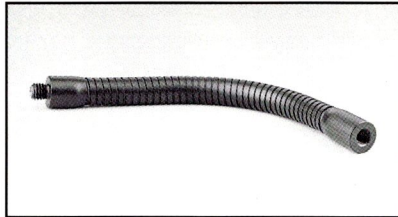
Double Sleeve
#31-0217



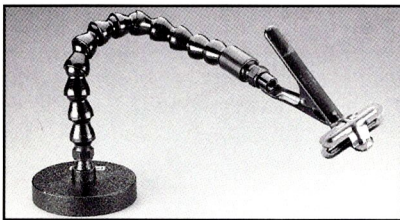
Cross Sleeve
#31-0237



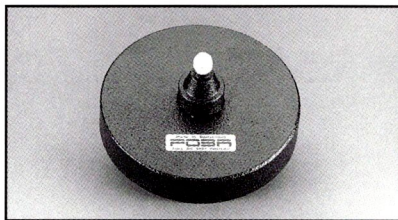
Combi Clamp
#31-0232



Flexible Holder
#31-0250



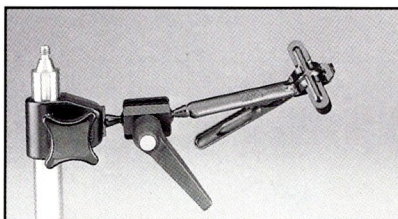
Flexible Holder II
#31-0258



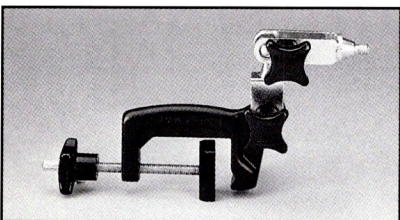
Universal Table Base
#31-0260



Triple Sleeve
#31-0244



Universal Clamp
#31-0251



Clamp Rod
#31-0208



Threaded Flange
#31-0201

Joint Sleeve

Movable jointed sleeve.

31-0220 \$49.00

Universal Sleeve

Attaches to almost anything, allows you to build with combitube.

31-0219 \$91.00

Double Sleeve

31-0217 \$49.00

Cross Sleeve

31-0237 \$50.00

Combi Clamp

Attaches to the flexible holder so that a screen or gobo can be held into place.

31-0232 \$22.00

Flexible Holder I

Attaches to the end of a piece of combitube, it can be used with the combi clamp to hold boards, etc.

31-0250 \$45.00

Flexible Holder II

Attaches to either the end of a piece of combitube or the universal base stand, it can be used with the combi clamp to hold boards, etc. Shown w/ Combi Clamp and Universal Table Base.

31-0258 \$51.00

Universal Table Base

Used for table top photography, this 4" diameter 2.5 lb base is for use with either of the flexible holders or small combitubes.

31-0260 \$68.00

Triple Sleeve

31-0244 \$74.00

Universal Clamp

Double jointed clamp that attaches to combitubes to hold gobos in place.

31-0251 \$90.00

Clamp Rod with Double Joint

Universal attachment for combitubes.

31-0208 \$84.00

Threaded Flange

For wall or ceiling mounting allowing combitube to be mounted at the end.

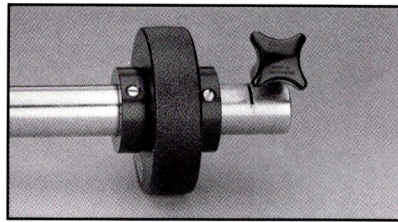
31-0201 \$40.00

FOBA Combitube System Accessories

Counterweight Complete

For use on combitubes.

31-0204 \$104.00

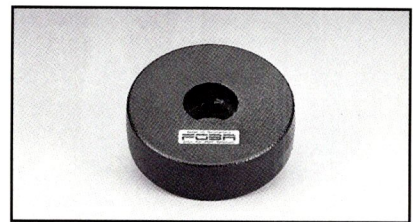


Counterweight
#31-0204

Additional Weight

For above.

31-0205 \$57.00



Additional Weight
#31-0205

Locking Ring

Replacement locking ring.

31-0203 \$16.00



Locking Ring
#31-0203

Combitube Double Holder

31-0206 \$104.00

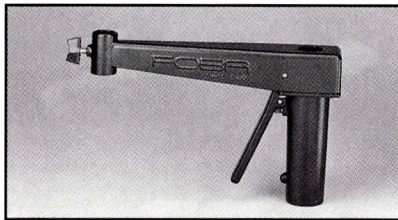


Combitube Double Holder
#31-0206

Clampholder to Combitubes

Allows you to mount flash heads to combitubes. Requires adapter (31-0202).

31-0209 \$147.00

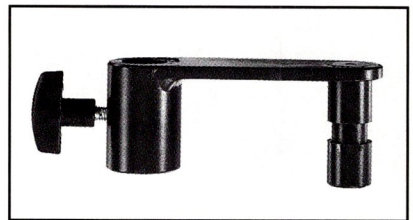


Clampholder
#31-0209

Adapter to Clampholder

Extends clampholder for use with larger light sources.

31-0907 \$45.00

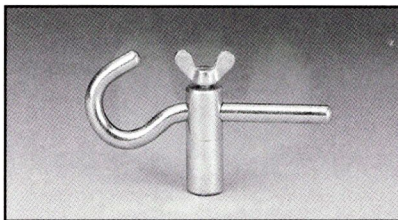


Adapter to Clampholder
#31-0907

Hanging Device for Combitubes

Fits the threaded sleeve adapter (31-0207).

31-0210 \$23.00



Hanging Device
#31-0210

Universal Base Stand

Heavy base to mount combitubes for use as a light stand, etc.

31-0211 \$128.00

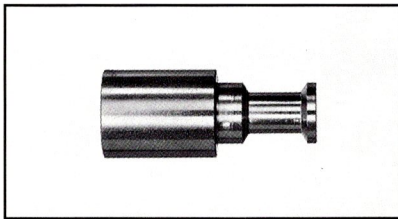


Universal Base Stand
#31-0211

Additional Weight

For the universal base stand.

31-0257 \$96.00

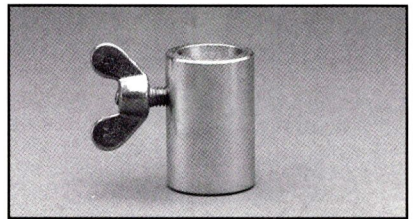


Lamphead Adapter
#31-0300

Lamphead Adapter

Lamphead stud with combitube fitting.

31-0300 \$19.00



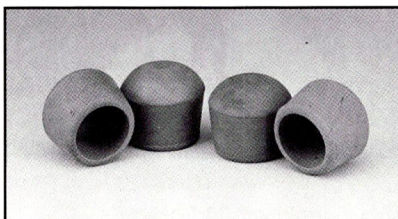
Threaded Sleeve Adapter
#31-0301

Threaded Sleeve Adapter

31-0301 \$17.00

Rubber Foot for Combitube

31-0324 \$10.00



Rubber Foot
#31-0324

Combi Clamp Set of 5

31-0223 \$68.00

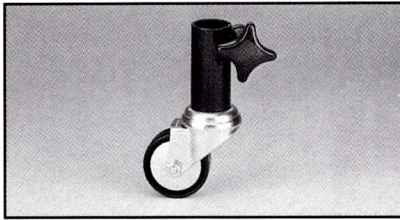
Set of 10

31-0224 \$104.00

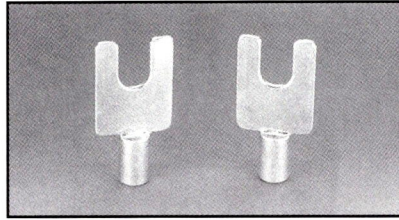


Combi Clamp
#31-0223

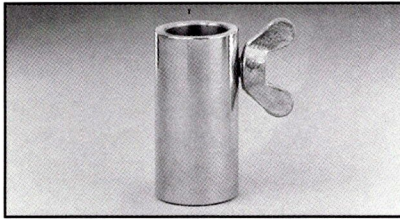
FOBA Combitube System Accessories



Caster for Combitubes
#31-0231



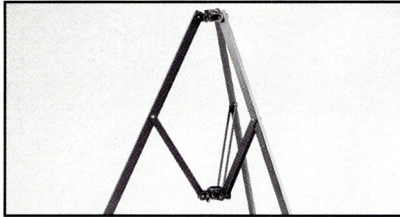
Forked Support
#31-0238



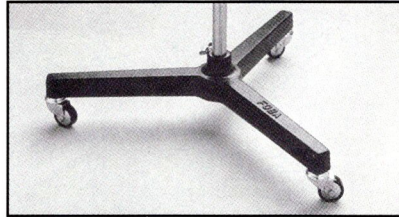
Threaded Sleeve Adapter
#31-0207



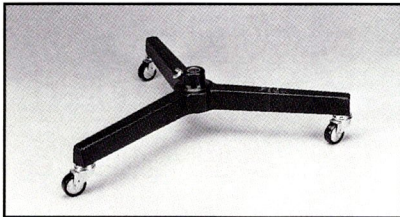
Threaded Bolt 3/8
#31-0202



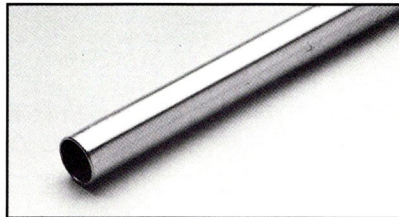
Aluminum Folding Stand
#31-0249



Caster Stand
#31-0906



Caster Base
#31-0212



Large Tube
#31-0901

Caster Base

Four-legged caster base for use with larger lighting units. Requires the use of the 30mm tube (31-0901).
31-0212 \$325.00

Large Tube, 30mm diameter

6.5' tube that fits the caster base (31-0212).
31-0901 \$70.00

Caster for Combitubes

31-0231 \$41.00

Forked Support

Fits the threaded sleeve adapter.
31-0238 \$24.00

Threaded Sleeve Adapter

Fits onto the end of a combitube so that accessories can be attached to it with the proper adapter.
31-0207 \$17.00

Threaded Bolt 3/8"

Used with (31-0207), (31-0209) or (31-0902).
31-0202 \$15.00

Aluminum Folding Stand

Lets you use either the combitube or telescopic extensions a light stand.
31-0242 \$83.00

Aluminum Folding Stand black

31-0249 \$92.00

Heavy Duty Folding Stand

31-0243 \$156.00

STARO Caster Stand

6.5 ft height with large caster base (31-0212) and 30mm diameter tube (31-0901). Requires Clampholder (31-0902) and Adapter (31-0202).
31-0906 \$378.00

Clampholder

Fits 30mm tube (31-0901).
31-0902 \$155.00

FOBA
Combitube System

Orders • Information

(800) 456-0203

Technical Support

FOBA Light Tables

DIMIL

- 33" high, 69" long by 48" wide color correct 1/4" plexi shooting surface.
- Preformed front curve built in.
- Sand blasted surface allows for reflection free photography.
- No visible crossbars to prevent you from shooting into the curve.
- Combi connectors attach the versatile combitube system directly onto the table for added flexibility.

31-0333 \$895.00

Formica Adapter

Use 4x8 surface material on the aluminum frame.

31-0332 \$228.00

Aluminum Frame

31-0320 \$530.00

DIMIL Formica Table

The aluminum frame and formica adapter used in combination is the ideal support for your own 4x8' surface material such as formica or plexiglass.

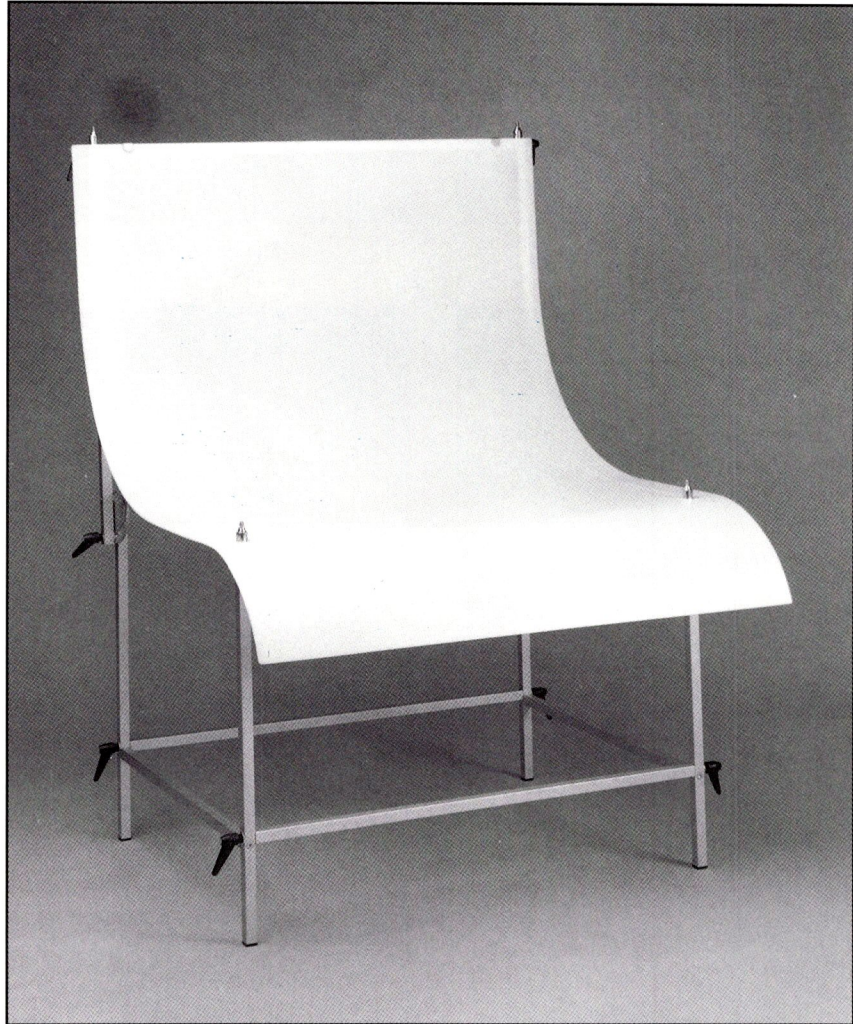
31-0321 \$650.00

Plexiglas Replacement

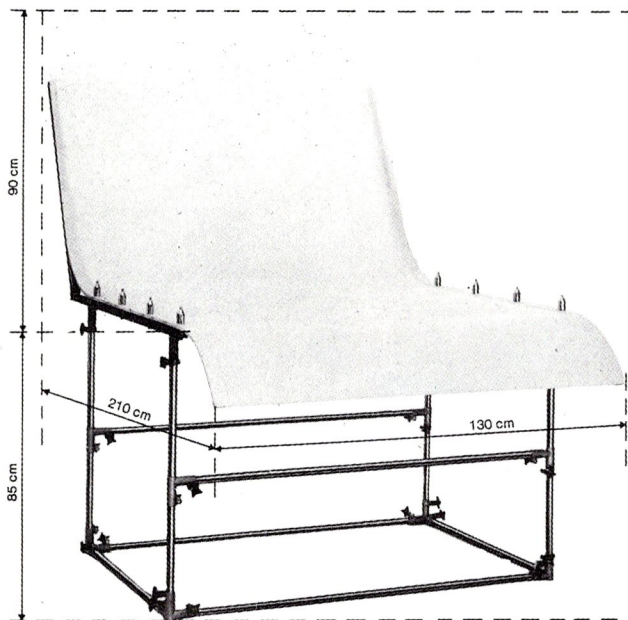
31-0309 \$599.00

Casters

31-0233 \$79.00



FOBA light tables allow you to photograph objects on a shadow free background.



DIGRO

Foba's largest light table with curved front. Size of plexi plate 51" wide x 82" deep x 35" high.

31-0318 \$3100.00

Caster

Allows your shooting table to be easily moved anywhere in the studio.

31-0231 ea. \$42.00

Plexiglass replacement

31-0325 \$1795.00

Brackets replacement

Set of 2

31-0326 \$545.00

DIBRO

Same as DIGRO, 63" wide.

31-0351 \$3725.00

FOBA Light Tables

DIMIO

The most versatile Foba table was designed with the needs of tabletop photographers in mind. The height and angle of the shooting surface are adjustable. It can even be placed vertically for use as a diffuser or reflector. The DIMIO also features an adjustable holder for background rolls. An optional sandblasted diffusion plate is available.

31-0327 \$1635.00

Combi Connectors

Set of 3 for DIMIO. Allows you to use your Foba combitubes with the table.

31-0343 \$59.00

Deposit Basket

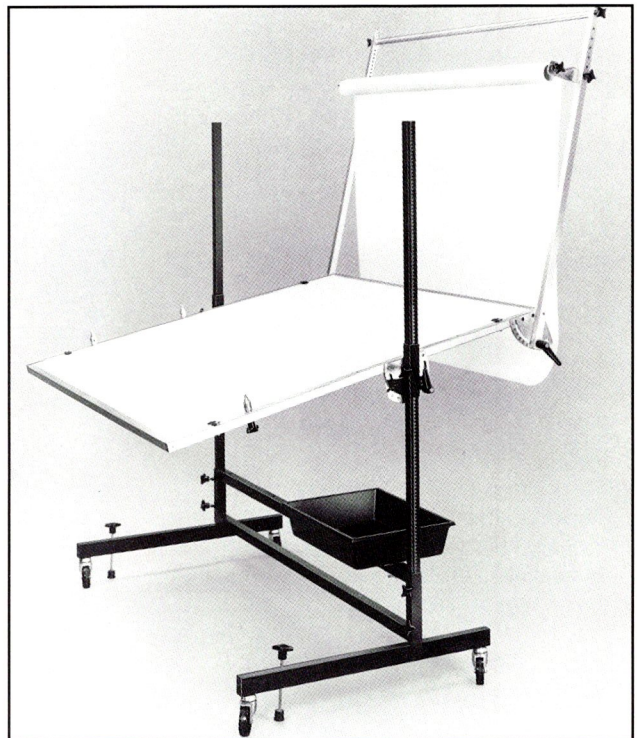
To hold accessories under the table.

31-0344 \$56.00

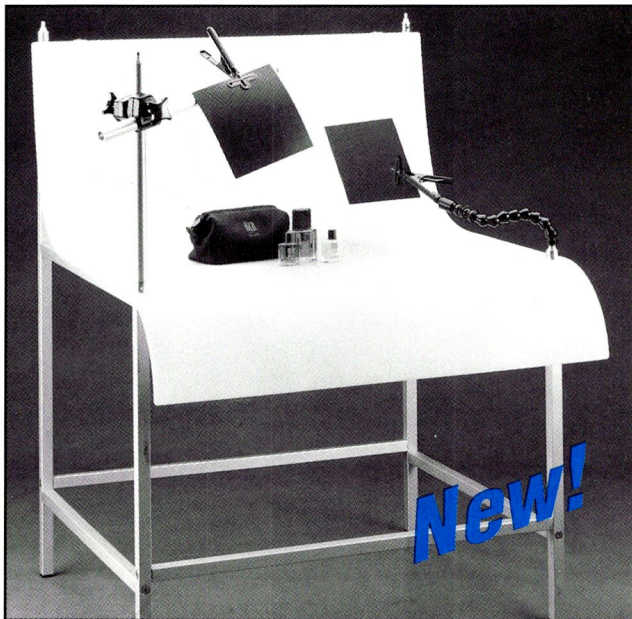
Opal Diffusion Plate

Sandblasted and color correct 53x47" plexi for use on the DIMIO table.

31-0345 \$335.00



Shown with optional diffusion plate and deposit basket.



DIMIUI Shooting Table

This compact, affordable table is ideal for studios where space is at a premium, since it measures only 36"w x34"d x45"h. Like all Foba tables, the DIMIU has no crossbars behind the color-correct plexiglass surface, allowing you the freedom to light from above or below anywhere on the table surface. The table also has connectors for the Combitube accessory system. Shown with optional accessories.

31-0316 \$490.00

Replacement Plexi for DIMIU

31-0317 \$295.00

Light Cones



Plexiglas Cone - large

Base diameter 19.5", height of 19.5".

31-0340 \$373.00

Plexiglass Cone - small

Base Diameter 7³/₄", Height 8.5".

31-0341 \$135.00

Put Your Ceiling to Work

with Foba Roof Track and Mega Rail systems

We've found that a lot of the customers we talk to about ceiling rail systems have many questions about whether a rail system is the right thing for them. So here's a look at a variety of Mega Rail and Roof Track systems used by photographers across the country, and answers to a few of the most commonly asked rail system questions.

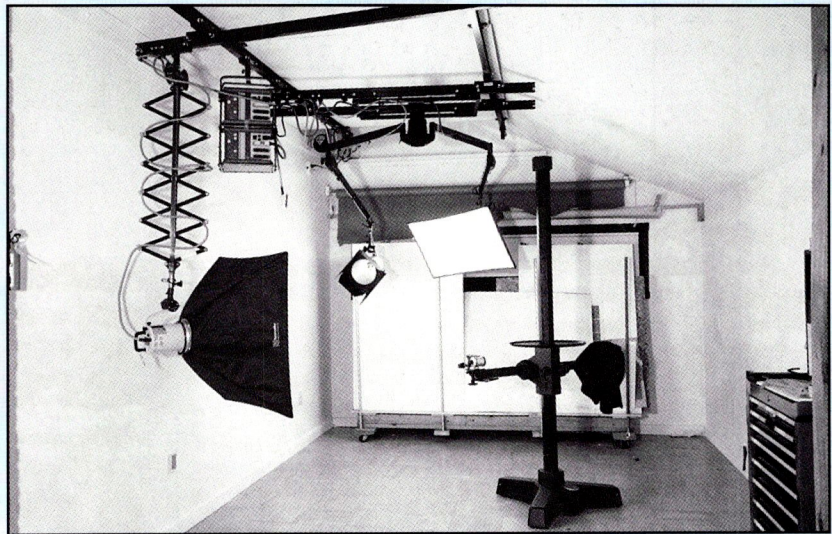
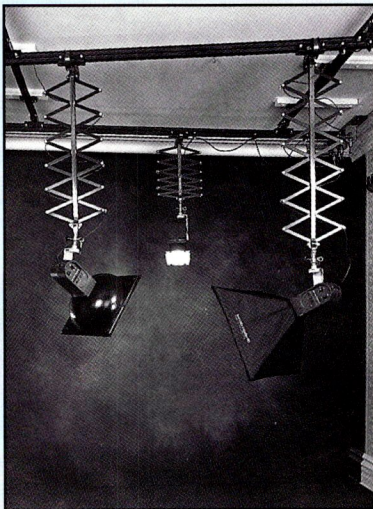
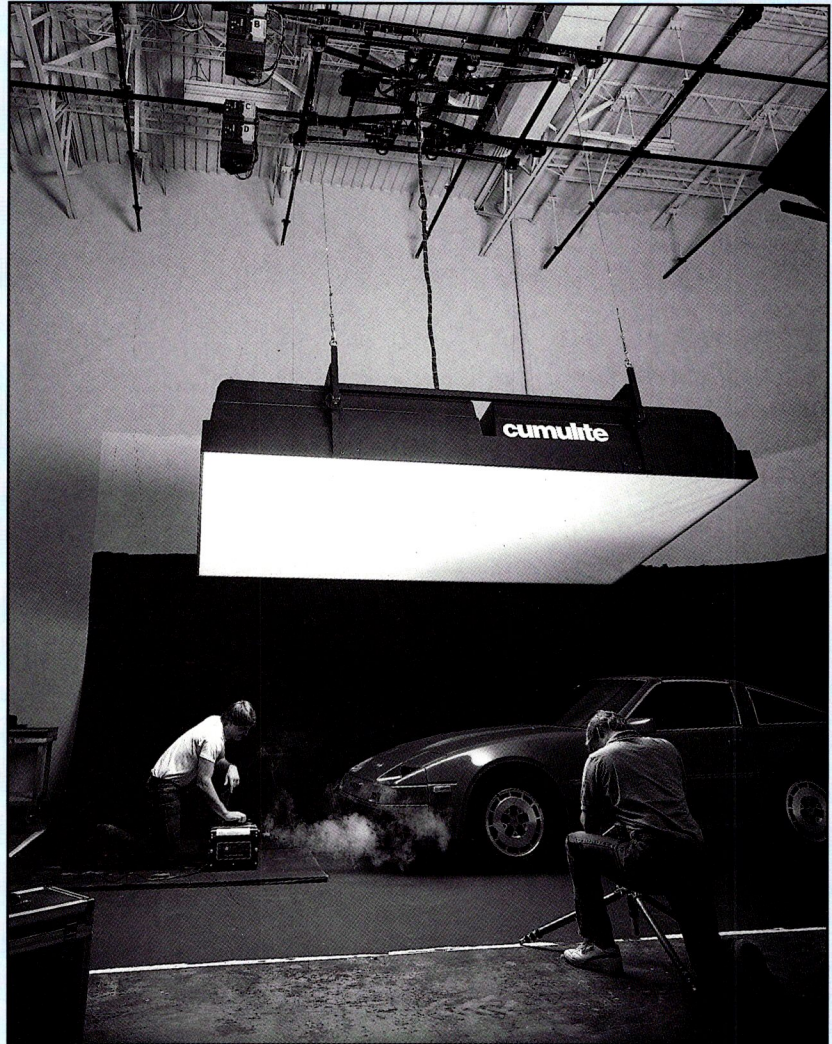
Isn't a ceiling rail system more expensive than just using stands?

Not at all. As a matter of fact, for most studios by the time you add up all the light stands, boom arms, sand bags and accessories the costs of the two are almost identical.

I just have a small studio. What good would a rail system do a little guy like me?

Rail systems can be even more important in smaller studios where every inch counts. No matter what size

Mega Rail systems like the one at Hallmark (right) are the solution if you're suspending bank lights from your ceiling. For smaller spaces, the Roof Track system (below, below right) will let you get packs, heads, small bank lights or even Impact units off your studio floor



studio you have, with today's higher rents and space being at a premium, why would you want to clutter your studio at all? With a rail system it's like doubling your available square footage (since you are using the ceiling) without increasing your overhead costs! Plus you eliminate a lot of the usual studio clutter of stands, cables and power packs. Imagine not worrying about your clients tripping over cords and knocking over lights.

Will a rail system let me do things I can't do now?

Foba offers the most versatile system on the market today. Whether you mount a single flash head or a large light bank, we can design you a system that will make your studio a more efficient place to work. We can mount flash heads on swivel arms for precise 3-dimensional mobility, or on manual or motorized

scissors for speed and ease of use. Bank lights such as our Mini-Cumulite on up to the Giant Light Bank can be mounted on a variety of manual and motorized suspension systems.

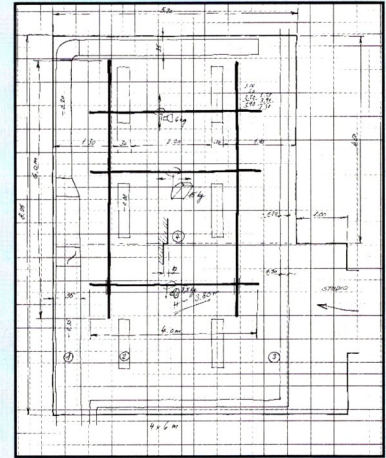
A motorized system can be controlled with the Servor 3 remote transmitter. With a Foba rail system and Broncolor power packs, you could conceivably adjust every aspect of your lighting without ever moving from behind your camera.

What's the best way to find out more about my rail system options?

All you have to do is call your local Sinar Bron representative for details. Phone numbers for our sales reps can be found on page 111. Or, give us a call at (800) 456-0203. We can recommend a preconfigured kit or work with you to custom design a system to meet your individual needs.

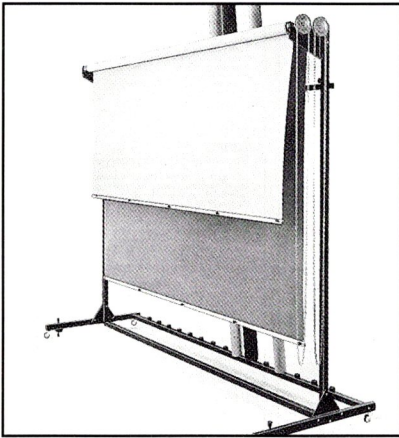
A simple sketch of your studio (below) is the first step in planning your rail system installation.

This Mega Rail system (bottom) helps the photographers at ShopKo to manage large sets and multiple bank lights with ease.



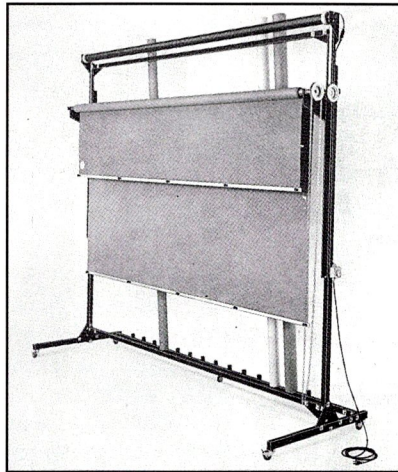
Background Supports

Foba background supports are the perfect studio accessory for any photographer who uses background paper. Three different versions are available. Two movable stands provide easy access to background paper anywhere in the studio, and a motorized wall mounted support system allows easy loading and unloading of paper rolls.



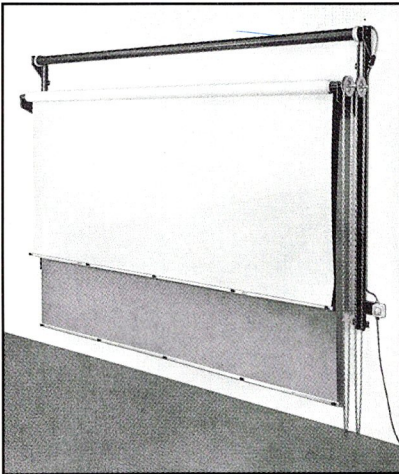
Movable Stand

For background paper. Stores 15 rolls of paper vertically. Two additional rolls are always ready to use. Requires the use of clamp with brake (31-0305) to roll and unroll the background paper. Another recommended accessory is the trailing edge (31-0314).
31-0315 \$1650.00



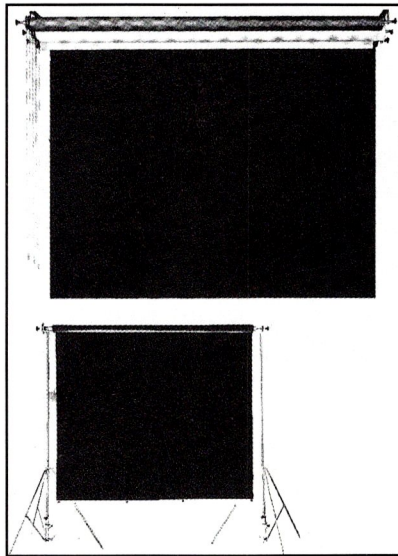
Motorized Wallmounted Background Stand

For background paper with the height adjustment motorized. Holds 10' length of paper. Requires the use of the clamping device (31-0305).
31-0355 \$3725.00



Motorized Wallmounted Background Stand

Raises and lowers the background paper for ease of changing rolls. Requires the clamp with brake (31-0305).
31-0357 \$1595.00



Wallmounted Background Stand

For 3 rolls of paper. Consists of Triple bracket, 3 clamps with brakes, 3 trailing edges.
31-0348 \$995.00

Triple Bracket for Wallmount

Set of 2.
31-0331 \$99.00

Single Brackets

Set of 2.
31-0329 \$51.00

Clamp with Brake

Consists of 2 clamp inserts (31-0304) for cardboard tube, Chainwheel (31-0339), Chain (31-0338) and Brake Device (31-0302).
31-0305 \$245.00

Same as above but without chain and chain wheel.
31-0304 \$159.00

Chain only

31-0338 \$40.00

Chainwheel only

31-0339 \$34.00

Brake Device

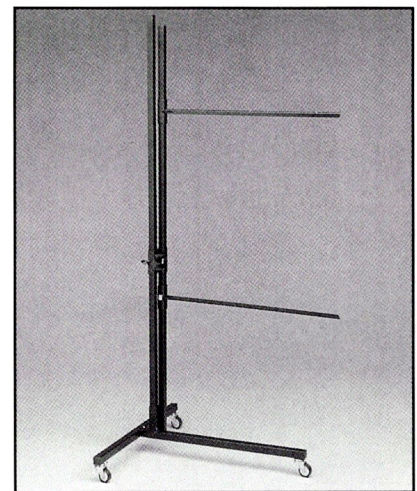
To keep paper in position.
31-0302 \$28.00

Trailing Edge 9'

31-0314 \$85.00

Trailing Edge 11.5'

31-0312 \$162.00



Reflo

Stand to hold large reflector boards.
31-0818 \$498.00

 denotes Special Order items. See pg. 108 for details.

Roof Track Systems

When it comes to ceiling rail systems, FOBA wrote the book. Whether you need a large overhead system for car photography, or a lightweight ceiling rail system for people, FOBA has the system for you.

The traditional rail system is custom designed for your studio. We can help you design a system perfect for the type of photography you do. These systems can hold any type of light source from a single head to a giant light bank.

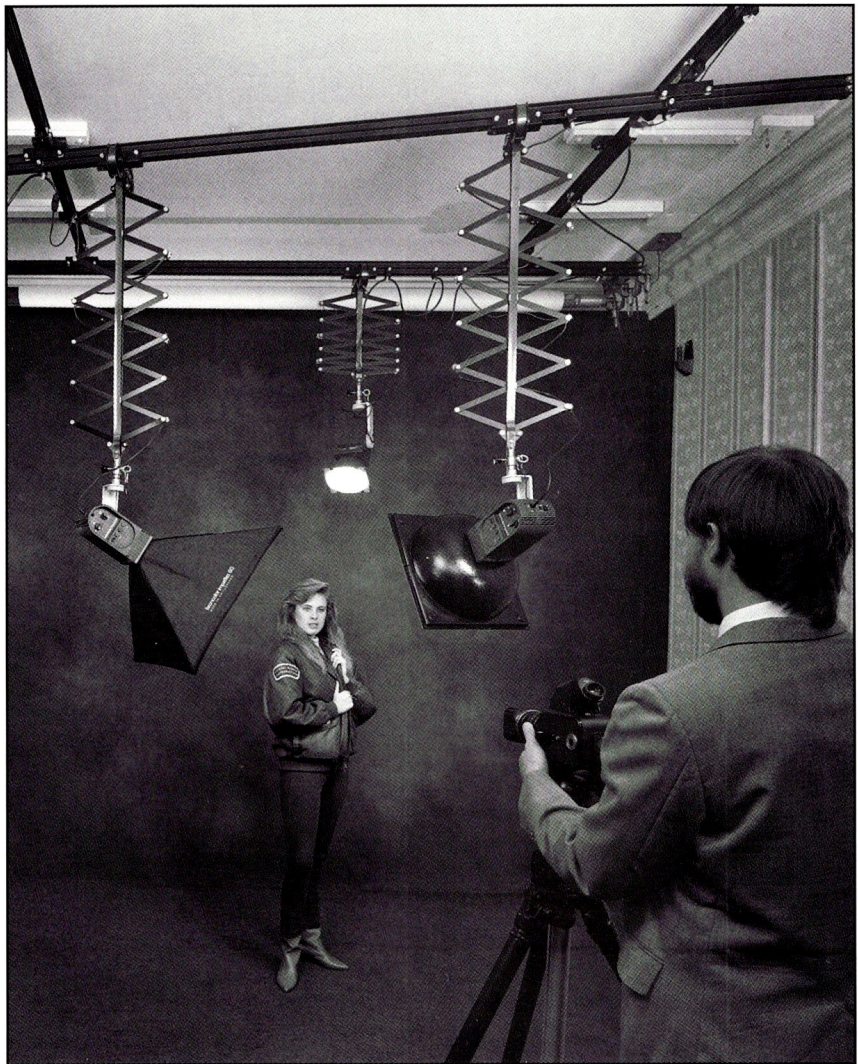
They can be operated either manually or fully automatically by infrared Servor control.

If you are tired of tripping over light cords and not having enough room to move in your studio, please give us a call and let us design a system for you.

The FOBA Roof Track system is an easy way to expand your studio square footage without moving! Imagine the amount of space to be gained just by eliminating light stands from the studio floor. Let alone the lamphead cables that you have so often tripped over.

When compared to the cost of just a few light stands and a couple of boom arms this system is relatively inexpensive.

You can choose from three basic kits or build your own custom system, and the installation is just as easy. If you need help in choosing the correct system just call your local FOBA dealer or Sinar Bron and we will be glad to discuss your Foba rail system.



FOBA
Roof Track

MINI-KIT (10x10')

Consists of:

- 4 32-0610 10' rails
 - 8 32-0638 Endbuffers
 - 4 32-0630 Cross trollys
 - 2 32-0651 Scissors
 - 2 32-0624 Scissor trollys
 - 3 32-0639 Roof mount, set of 2
 - 2 32-0635 Cable holder set of 4
 - 2 31-0840 Safety Cable
 - 2 32-0678 Universal adapters
- 32-0133 \$1595.00**

PROFI-KIT (10x10')

Consists of

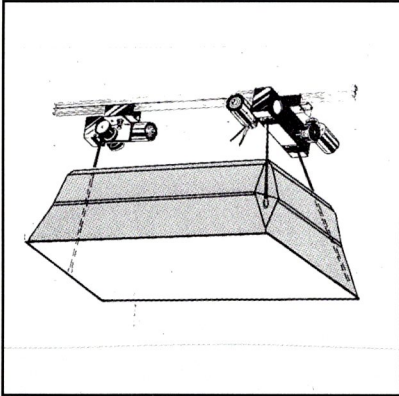
- 4 32-0610 10' rails
 - 4 32-0630 Cross trollys
 - 3 32-0651 Scissors
 - 3 32-0624 Scissors trollys
 - 8 32-0638 Endbuffers
 - 4 32-0639 Roof mount set of 2
 - 3 32-0635 Cable holder set of 4
 - 3 31-0840 Safety Cable
 - 3 31-0678 Universal adapters
- 32-0232 \$2025.00**

MAXI-KIT (10x20')

Consists of

- 2 32-0620 20' rails
 - 3 32-0610 10' rails
 - 8 32-0638 Endbuffers
 - 6 32-0630 Cross trollys
 - 4 32-0651 Scissors
 - 4 32-0624 Scissor trollys
 - 2 32-0649 Spring C
 - 5 32-0639 Roof mounts set of 2
 - 4 32-0635 Cable holder set of 4
 - 4 31-0840 Safety Cable
 - 4 31-0678 Universal adapters
 - 3 32-0649 24 lbs springs for scissors
- 32-0336 \$2995.00**

Roof Track Systems



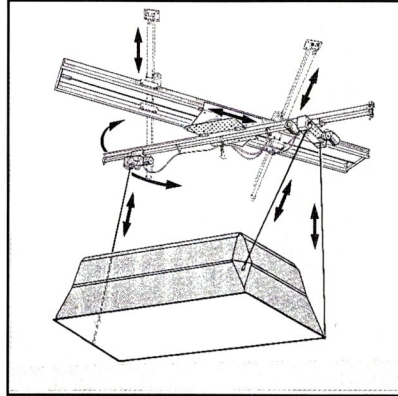
Simple Light Suspension Kit

For lamps and banks up to 55 lbs, this is the most economical vertically motorized suspension option for the Mini-Cumulite or comparably-sized softboxes and lightbanks. Horizontal movements along the rail are manual, and there is no rotation.

Includes:

- Single motor group (cable length 13.5')
- Double motor group (cable length 13.5')
- 4 Channel power control unit
- Carriage

13-4010 \$995.00



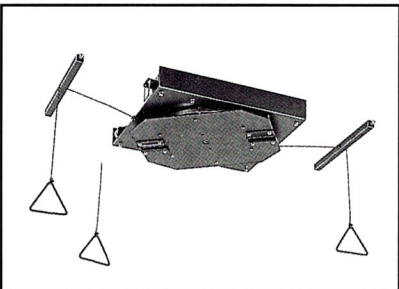
Light Suspension Kit with Rotation

Same as the Bank Light Suspension kit, with the up and down movements motorized, and manual rotation.

Includes:

- Single motor group (cable length 13.5')
- Double motor group (cable length 13.5')
- Rotation kit
- 4 Channel power control unit
- 6.5' Rail
- Endbuffers
- Carriage
- Cable holders

13-4011 \$1760.00



Manual Rotation Kit

The Rotation Kit can be added to the Simple Suspension Kit to allow manual rotation of the light unit on a 6.5' rail. Connects to 2 parallel rails which must be joined with the spacers provided. The rotating rail is fixed to the lower part of the plate.

Includes:

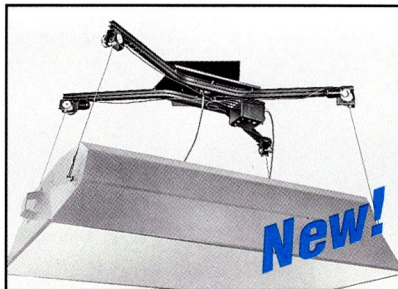
- Rail spacers (2)
- Rope with handgrips (3)

32-0666 \$445.00

Motorized Rotation Kit

Same as above but with the rotation motorized. Requires the use of either the 4 or 8 Channel Power Control Unit.

32-0667 \$815.00



Megaflex Suspension

This new system mounts the Megaflex 200 and 300 light banks to any Foba rail system. The system is available in either manual cable controlled or motorized infrared controlled versions. For the Roof Track system, the suspension requires the proper trolleys, below.

Infrared Controlled Suspension

32-0100 \$4290.00

Cable Controlled Suspension

32-0105 \$2850.00

Set of 4 Trolleys for Megaflex Suspension to Roof Track

32-0660 \$105.00

Fully Motorized Suspension Kit

For the Broncolor Mini-Cumulite or any soft box, for use with the Foba Mini Rail system. Roof Top Twist allows full motorization of all movements (up-down, right-left, forward-backward, and rotation.) Movements are operated by a cable remote. Ideal for any large bank light weighing up to 55 lbs. This kit includes enough cross trolleys for mounting on two rails.

Includes:

- Single motor group (cable length 13.5')
- Double motor group (cable length 13.5')
- Motorized rotation kit
- 8 Channel power control unit
- 6.5' Rail
- Endbuffers
- Carriage
- Cable holders
- Double brackets for twist super (2)
- Motorized carriage (2)

13-4012 \$2799.00

Special Cross Trolley for the Motorized Suspension System

Should be used when the system is connected to three or more main rails.

32-0668 \$64.00

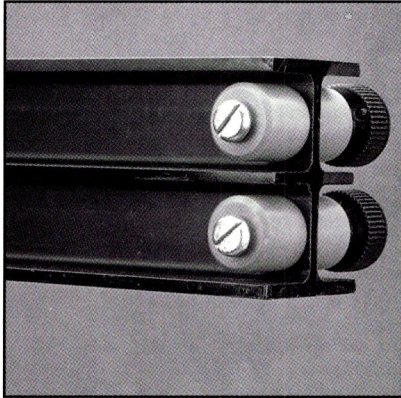
Motorized Cross Trolley for the Motorized Suspension System

Additional motors should be used when the system is connected to four or more main rails.

32-0669 \$182.00

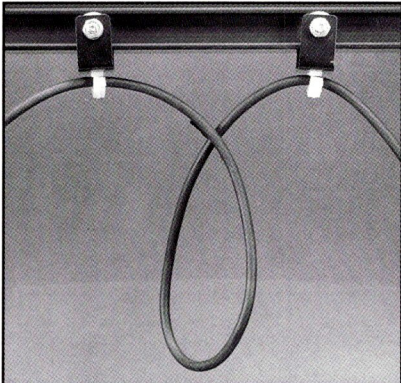
To increase flexibility in choosing the correct suspension system, both the Bank Light Suspension Kit with Rotation and the Fully Motorized Suspension Kit does not include the two parallel rails or the cross carriages, since the size and quantity needed depend on the size of the rail system required.

Roof Track Systems



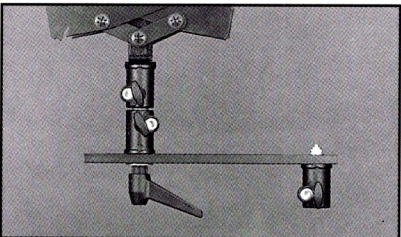
Endbuffer

Set of 2. An endbuffer must be mounted at both ends of each rail section to prevent equipment from sliding off.
32-0638 **\$18.00**



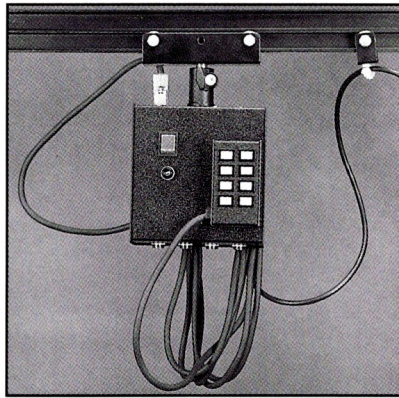
Cable Holders

Set of 4. Clips will hold cable up to 1/2" diameter. The power pack or light is positioned at the point furthest away, hang and hook up the cable to the cable holder at the endbuffer of the rail. Distribute the 4 cable holders along the rail and hook the cable to each one of these.
32-0635 **\$46.00**



Balance Adapter

Has female attachment to be fitted between pantograph and unbalanced lighting fixtures or other appliances.
32-0657 **\$53.00**



Power Control Unit

To control motorized carriages, pantographs and suspension systems. This unit comes complete with a hand held remote unit that may be attached to any ferrous surface via a magnet on the back side. 24Vdc output.

4 Channel Power Control Unit

32-0654 **\$312.00**

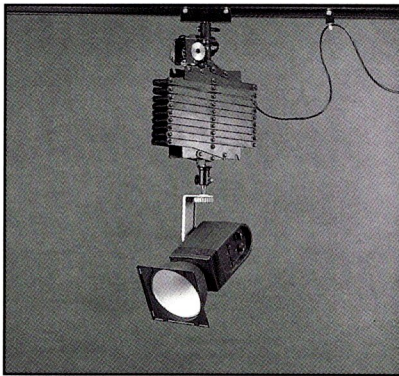
8 Channel Power Control Unit

32-0665 **\$395.00**

Motorized Trolley

Allows motorized movements of pantographs along the rail. Requires 1 channel of either the 4 or 8 Channel Power Control Unit.

32-0658 **\$272.00**



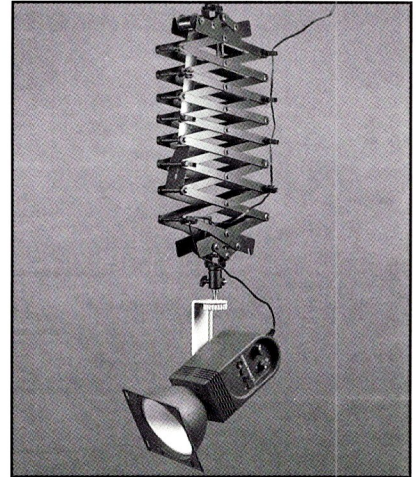
Motorized Scissors Extension

This pantograph is extendable from 16 to 86". The pantograph will handle up to a 40 lb load. This unit requires the Trolley for Scissors Extension (32-0624) and use of one channel on the power control unit.

32-0653 **\$488.00**

Trolley for Scissors Extension

32-0624 **\$48.00**



Scissors

Extendable from 12" to 86". The scissors must be balanced with the proper combination of springs (below), depending on the weight it will carry. Includes Spring B.

32-0651 **\$305.00**

Spring A (4.4 lbs.)

32-0647 **\$34.00**

Spring B (8.8 lbs.)

32-0648 **\$36.00**

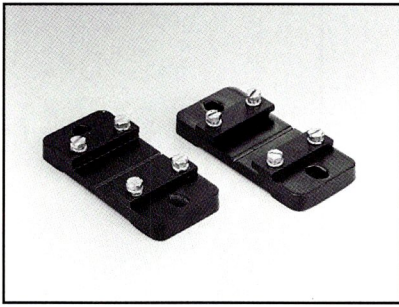
Spring C (24.2 lbs.)

32-0649 **\$76.00**

Spring Combinations

Springs	Wt. supported
A	4.4 lb
B	8.8 lb
A+A	8.8 lb
A+B	13.2 lb
B+B	17.6 lb
C	24.2 lb
A+C	28.6 lb
B+C	33.0 lb
C+C	48.4 lb

Roof Track Systems



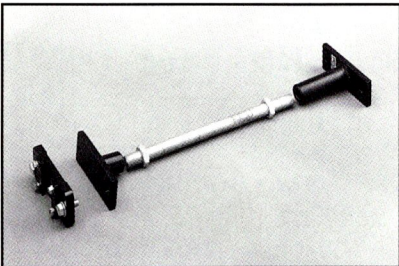
Roof Mount

Set of 2. Mounts rail section onto ceiling. It is advisable to attach mount to rail on the ground and then attach roof mount to ceiling with rail section attached.

32-0639 \$39.00

Roof Track Rails, black

6.5'
32-0606 \$78.00
10'
32-0610 \$100.00
13'
32-0613 \$155.00
20'
32-0620 \$198.00



Adjustable Bracket

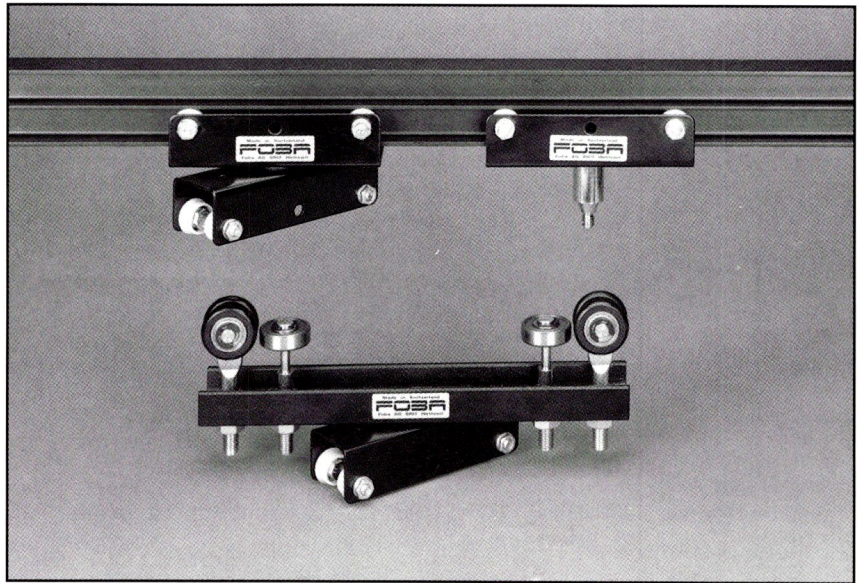
For use with an uneven ceiling, the bracket allows adjustment of the roof mounts so that they are level. Requires the use of the threaded bar.

32-0636 \$81.00

M16 Threaded Bar (39")

For use with the adjustable bracket.

32-0637 \$35.00



Cross Trolley

To install cross rails onto main rails.

32-0630 \$56.00

Cross Trolley Special

To put roof track onto steel main rail.

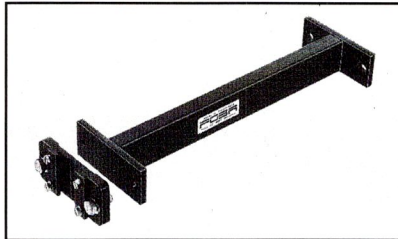
32-0631 \$227.00

Trolley for Adapters

32-0632 \$49.00

Trolley with Combitube Adapter
Allows installation of combitubes on Roof Track System

32-0641 \$51.00



Extension Bracket

Using extension brackets enables rail system to be mounted at a fixed distance from the ceiling to allow for ducts, pipes and other obstructions.

Custom lengths from 4"-20"

32-0642 \$48.00

Custom lengths from 21"-39"

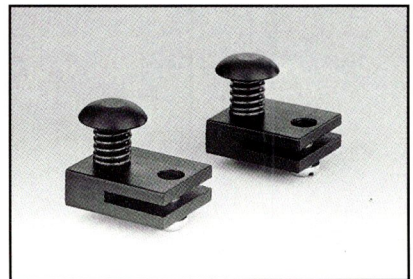
32-0643 \$57.00

 denotes Special Order items. See pg. 108 for details.



Cable Holder with Hook

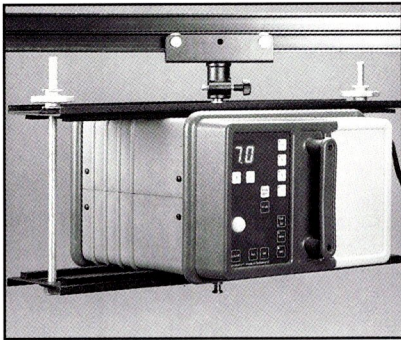
32-0634 \$14.00



Brake, set of 2

32-0640 \$25.00

Roof Track Systems



Power Pack Holder

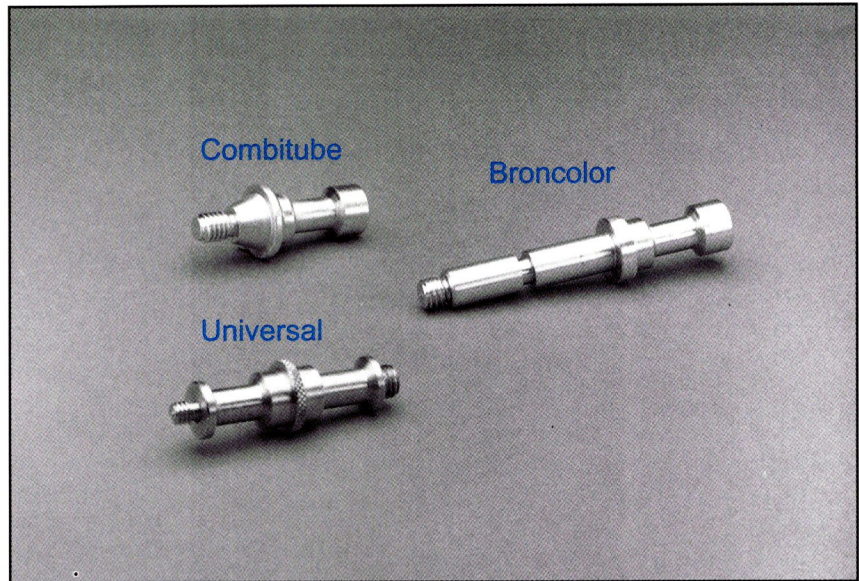
Power pack rests on platform which is attached to rail system with $\frac{3}{8}$ " spigot. This will hold a pack up to 17" wide and 9" high. Requires (32-0624) and (32-0627).

32-0626 \$94.00

$\frac{5}{8}$ " Female to Female Adapter

Allows the power pack holder to be mounted directly to the trolley (32-0624)

32-0627 \$23.00



Broncolor Adapter

32-0671 \$24.00

Combitube Adapter

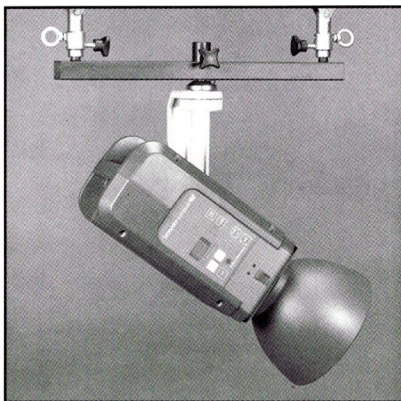
32-0673 \$28.00

Hazy Adapter to Pantograph

13-3015 \$177.00

Universal Adapter

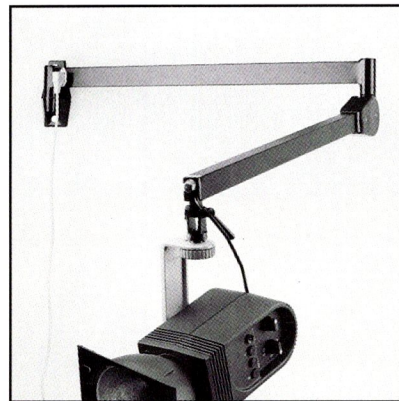
32-0678 \$17.00



Multiple Scissors Bracket

Bracket for multiple mounting of scissors or extensions for lamps heavier than 48.5 lbs.

32-0675 \$63.00



Heavy Duty Swivel Arm

Comes with wall bracket. Will hold up to 33 lbs. Includes adjustment tool.

32-0706 \$631.00

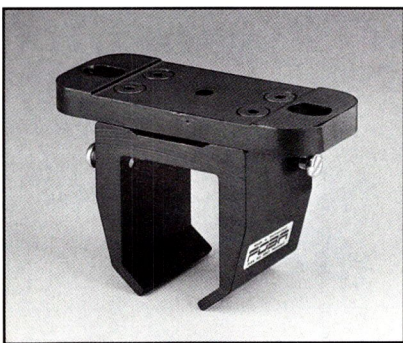
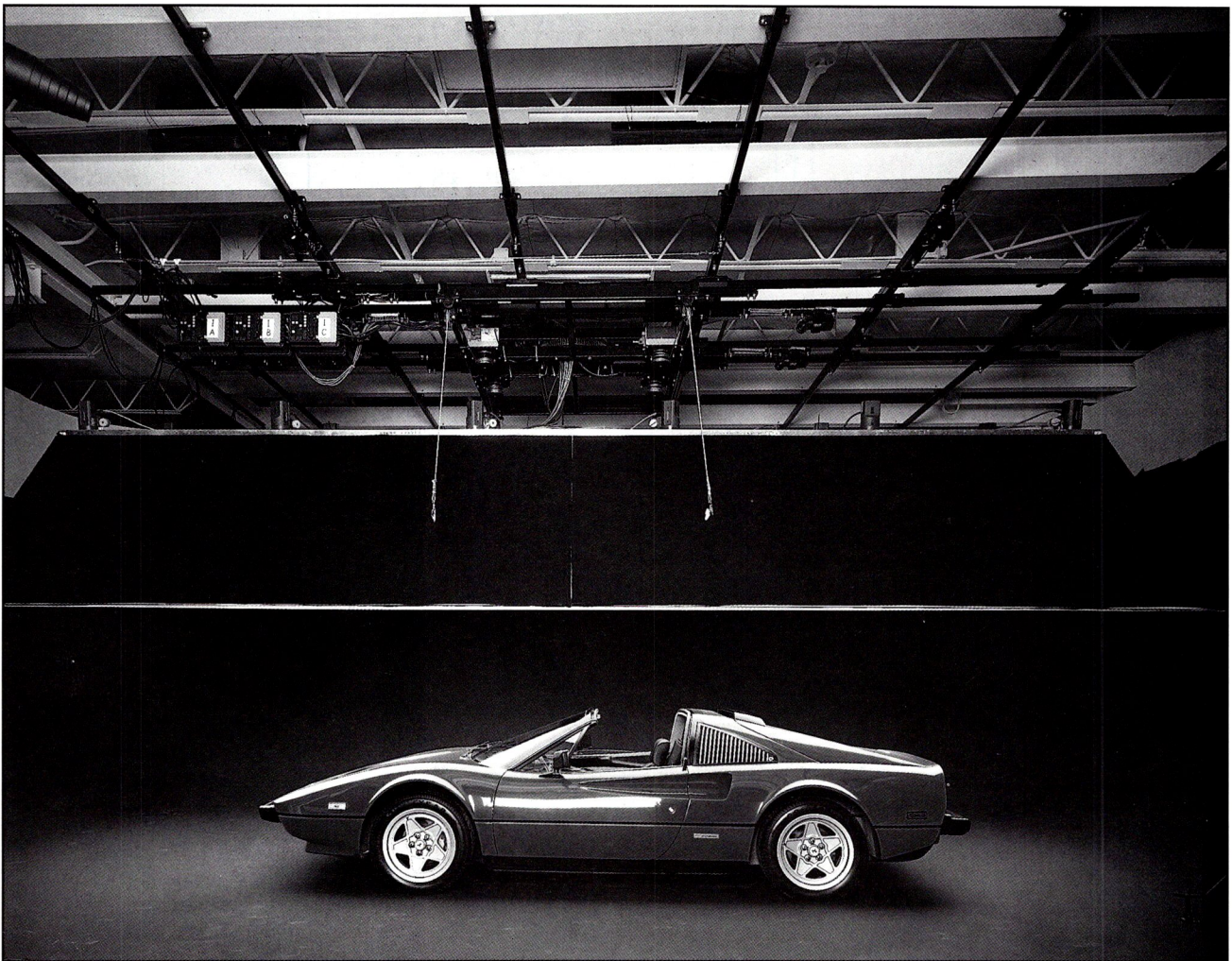
Call

For the name of a dealer or sales representative in your area.

(908) 754-5800
(800) 456-0203

FORMA
Roof Track

Mega Rail Systems



Ceiling Mounts

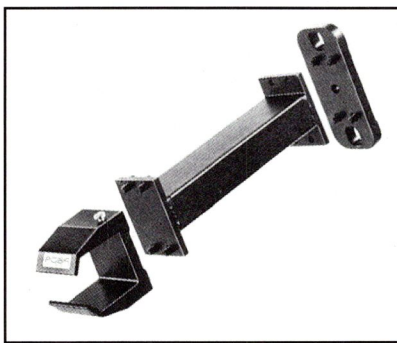
Attaches steel ceiling rail to roof supports.

31-0816 \$45.00

Steel Ceiling Rail

Price per foot.

31-0812 \$17.00



Extension Bracket

Custom made to lower ceiling rail system 4"-20".

31-0823 \$54.00

Extension Bracket

To lower ceiling mounts 20"-40".

31-0824 \$65.00

 denotes Special Order items. See pg. 108 for details.

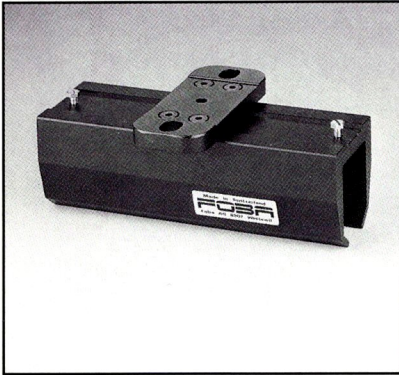
Workshops

Our 4½ day Sinar view camera workshops are held throughout 1993.

Want to know more?
See pg. 104 for info,
or contact the
Workshop Coordinator.

(800) 456-0203

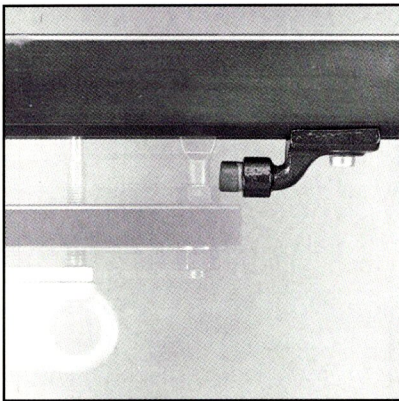
Mega Rail Systems



Connection Bracket

Connects two pieces of rail.

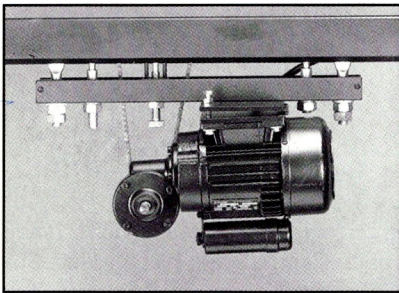
31-0815 \$81.00



Endbuffer

To stop carriages at end of rail.

31-0814 \$27.00

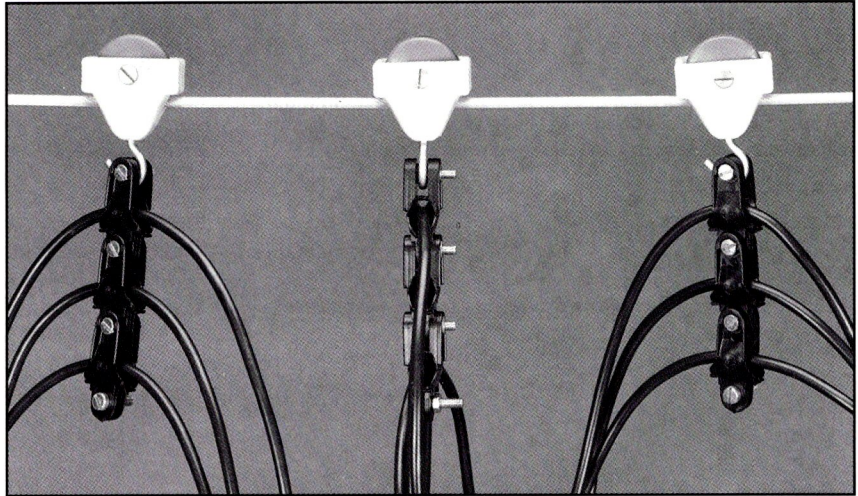


Tractor Carriage with Motor

To motorize length and cross movements.

31-0852 \$1495.00

Prices and specifications subject to change without notice.



Power Cable Guide Roller

31-0855 \$12.00

Wire Cable

Per foot.

31-0850 \$2.50

Power Cable Guide only

31-0860 \$69.00

1/4" Cable Holder

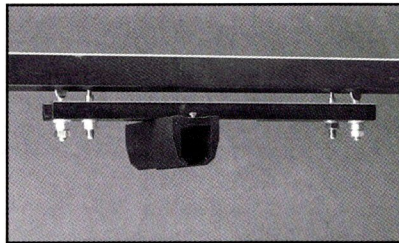
31-0865 \$5.00

1/2" Cable Holder

31-0862 \$5.00

3/4" Cable Holder

31-0866 \$6.00



Single Cross Trolley

Dolly to make single moveable crossrail. Two are required to make one carriage.

31-0817 \$235.00

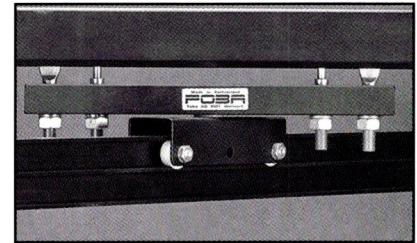
Single trolley as above but with large bracket for added support.

31-0826 \$258.00

Double Trolley

Used for a double crossrail. Minimum of 2 required.

31-0825 \$439.00



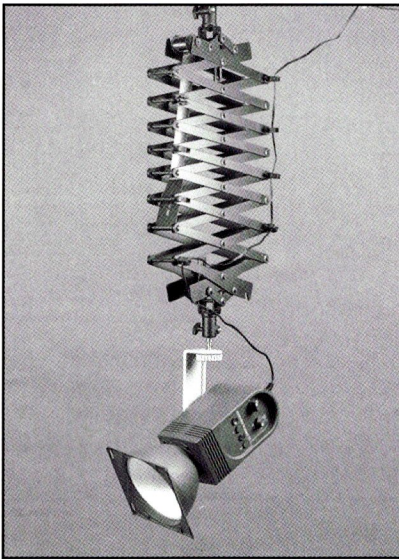
Connection Trolley

To hang roof-track on traditional rail systems.

32-0631 \$227.00

**Toll Free
Order Line
(800) 456-0203**

Mega Rail Systems



Scissors

Extendable from 12" to 86". The scissors must be balanced with the proper combination of springs (below), depending on the weight it will carry. Includes Spring B.

32-0651 \$305.00

Spring A (4.4 lbs.)

32-0647 \$34.00

Spring B (8.8 lbs.)

32-0648 \$36.00

Spring C (24.2 lbs.)

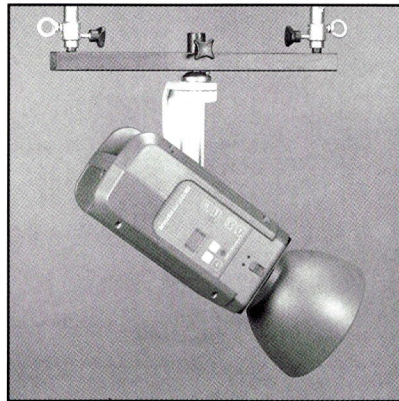
32-0649 \$76.00

Spring Combinations

Springs	Wt. supported
A	4.4 lb
B	8.8 lb
A+A	8.8 lb
A+B	13.2 lb
B+B	17.6 lb
C	24.2 lb
A+C	28.6 lb
B+C	33.0 lb
C+C	48.4 lb

Trolley for Scissors Extension

31-0829 \$162.00



Multiple Scissors Bracket

Connection plate to hang heavy lamps on two scissors.

32-0675 \$63.00

Extension Tube

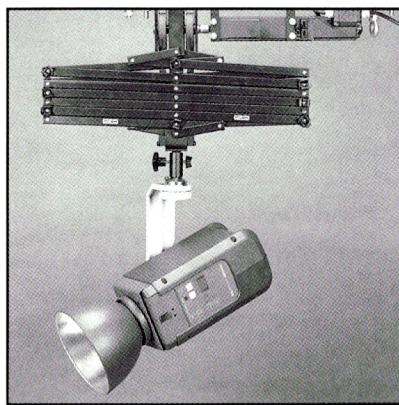
Extends scissors down 19³/₄" from the bottom of the scissors trolley.

31-8001 \$37.00

Extension Tube

Same as above but with an extension of 39.5".

31-8002 \$47.00



Motorized Scissors

31-0820 \$2645.00

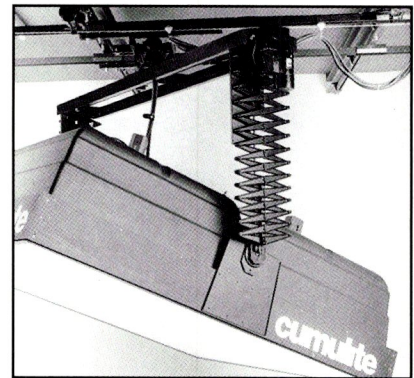
Trolley for Scissors Extension

31-0829 \$162.00

Server 3 Remote Control

For Pulso A, Pulso and Server receiver. Allows individual control of Broncolor power packs, along with control of the motorized functions of the Foba rail system.

16-3020 \$1195.00



Motorized Pantograph to Twin Cumulite with Trolley

For mounting twin Cumulite to the Foba ceiling rail system with motorization of all movements.

13-4025 \$11500.00

Connection Trolley for Twin Cumulite

Minimum 2 required for motorized telescope.

13-4020 \$450.00

Motor for Rotating Cumulite

Complete, for motorized trolley.

13-4031 \$4200.00

Junction Box

One required for each rail system.

13-4032 \$217.00

Receiver to Control Motor (Cumulite)

16-3008 \$1121.00

Receiver to Switch On/Off Electrical Loads

Controls three functions, max. 2 amps per function. Higher loads require relay.

16-3009 \$1100.00

Trolley Complete for one Pulso Pack 2,4,8.

13-4033 \$679.00

Trolley Complete for two Pulso Packs 2,4,8.

13-4034 \$870.00

Ⓢ denotes Special Order items. See pg. 108 for details.

Mega Rail Systems

Cumulite Motorized Suspension with Trolley & Cable

For mounting the single Cumulite on the Foba ceiling rails, operated by cable control.

13-4026 \$7420.00

Motorized Suspension with Trolley for Remote

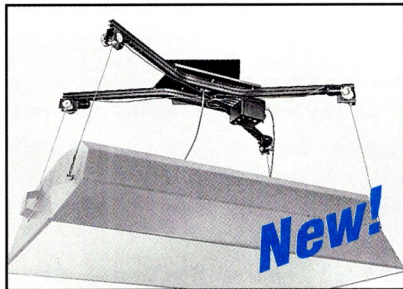
For mounting the single Cumulite on the Foba ceiling rails, operated by Servo Receiver. Includes Servo Receiver, requires transmitter.

13-4027 \$8525.00

Hand Crank

For locking pulley carrier

31-0811 \$61.00



Megaflex Suspension

This new system mounts the Megaflex 200 and 300 light banks to any Foba rail system. The system is available in either manual cable controlled or motorized infrared controlled versions. For the Mega Rail system, the suspension requires the proper trolleys, below.

Infrared Controlled Suspension

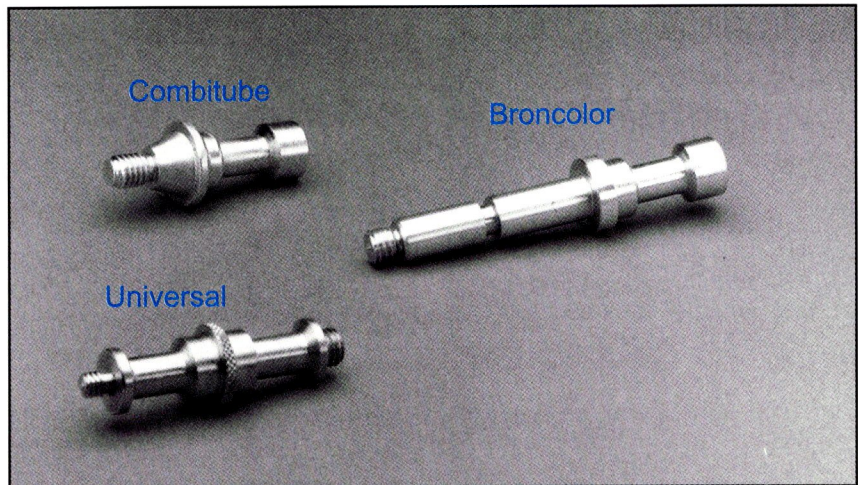
32-0100 \$4290.00

Cable Controlled Suspension

32-0105 \$2850.00

Set of 2 Trolleys for Megaflex Suspension to Mega Rail

31-0835 \$275.00



Universal Adapter

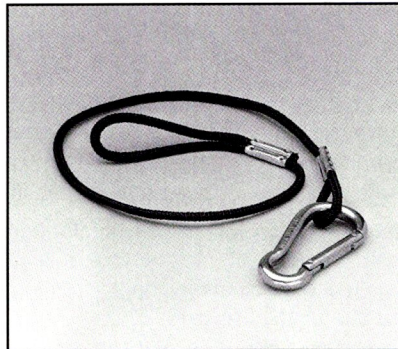
32-0678 \$17.00

Broncolor Adapter

32-0671 \$24.00

Combitube Adapter to Scissors

32-0673 \$28.00



Safety Cable for Lamps

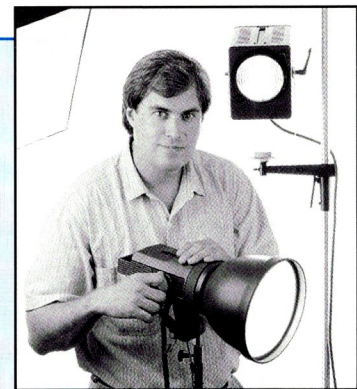
31-0840 \$22.00

Twin Roller with Combitube Bottom

31-0804 \$91.00

Trolley for Adapters

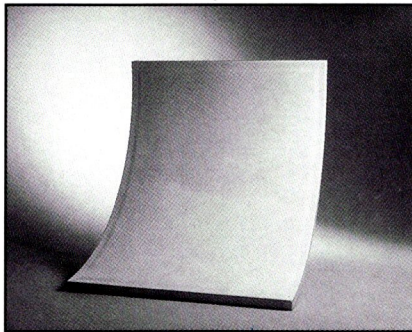
31-0827 \$175.00



After being exposed to Sinar Bron equipment in corporate situations for many years, when I started my own studio there was no other choice. The equipment is precision engineered with the needs of the photographer in mind. If you want to be taken seriously, you need serious equipment. Sinar Bron is the solution!

— *Ted Fullerton*
Upper Bank Studios
Media, PA

Pro-Cyc



New 3 1/2 foot radius Pro Cyc

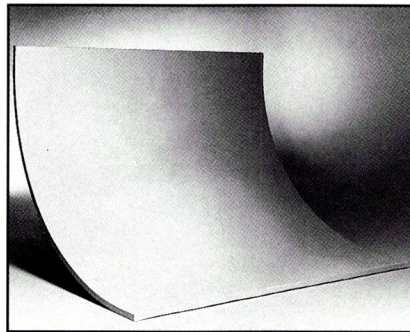
3 1/2' Radius 4' Straight Section
70-2001 \$330.00

3 1/2 x 3 1/2' Radius Corner Section
70-2003 \$690.00

The new **new 3 1/2 foot radius** system is ideal for studios where space is at a premium. Because of its reduced size and weight, the cyc wall occupies less space in your studio and can be shipped less expensively.

The new 3 1/2 foot radius cyc is made of 5/16" PVC, which is also far more durable than a traditional plaster cyc.

In the 3 1/2 foot radius system, the standard 4 foot long sections can be user-modified to any required length. To maintain stability, the lip at the end of the section is cut off and reattached with PVC cement after the section is cut to the desired length.



Original 5 foot radius straight and corner sections

5' Radius Straight Section — up to 4 feet
70-1001 \$690.00

5' Radius Straight Section — over 4 feet to 8 feet
70-1002 \$990.00

5' x 5' Radius Corner Section
70-1003 \$1090.00

Radius: Standard Pro Cyc has a radius of 5 feet, making it much easier to light for an "infinity" effect than walls with a 3 foot radius.

Durability: 5 foot radius sections are made of highly durable fiberglass. The fiberglass will not be damaged by high heels, standing, or even jumping on it!

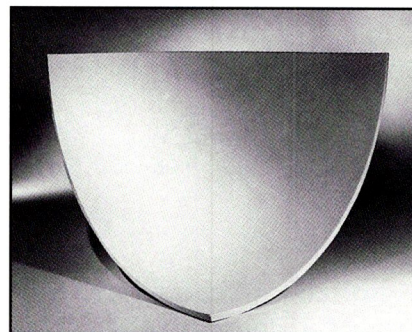
Installing Pro-Cyc is a fairly straightforward process. In fact, if you've ever installed drywall over rough framing, you can install Pro-cyc.

When installing a straight section, the module is aligned with the framing and secured with drywall screws. This process is repeated until an entire section is installed.

When you come to a corner module, one edge is attached to a vertical cove section and the remaining two edges become starting points for straight sections of cove modules.

Bottom edges are fastened to the floor with concrete nails and the space between floor and the lip of the cove is filled with compound and then taped.

Installation is not a difficult job and you'll find that your studio is only out of commission for only a few days instead of a few weeks with the old system.



Both the 3 1/2 and 5 foot radius Pro Cyc systems share these unique features:

Modular Design: The entire system can be assembled by using just a few different types of pieces - floor, ceiling and corner sections.

Patented Tapered Design: All edges are slightly tapered so that taped and spackled seams are the same level as the rest of the wall.

Fast Installation: Because of its modular design, installation time is 50 to 75% less than a typical dry wall/ plaster cyc.

Movable: All sections can be easily removed and reinstalled in a new studio.

Prices and Specifications are subject to change without notice.

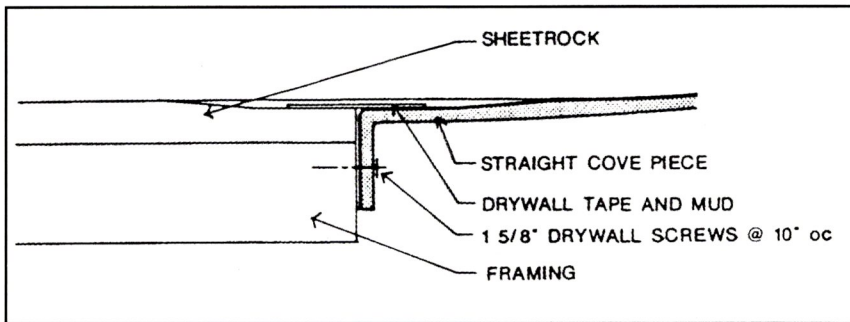
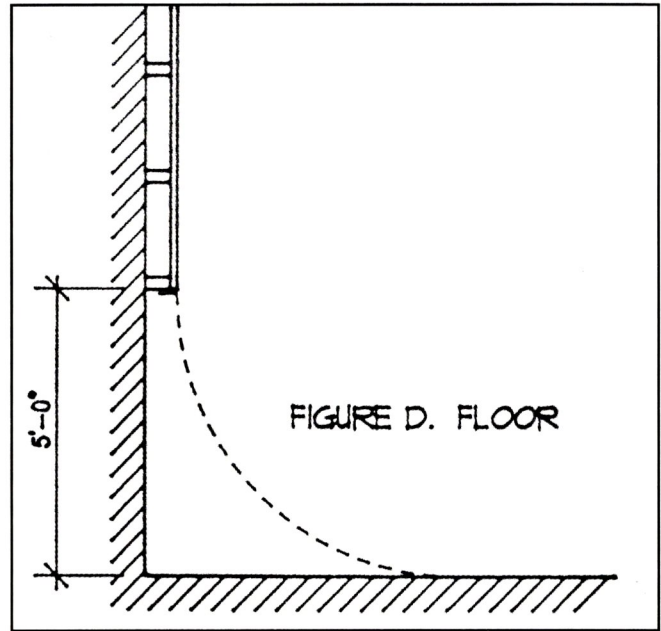
Ⓢ Pro-Cyc is a special order item. Please see pg. 108 for conditions.

🚚 All Pro-Cyc orders are shipped by truck. Call for shipping charges.

Call us at (800) 456-0203 for a complete quotation on Pro-Cyc for your studio

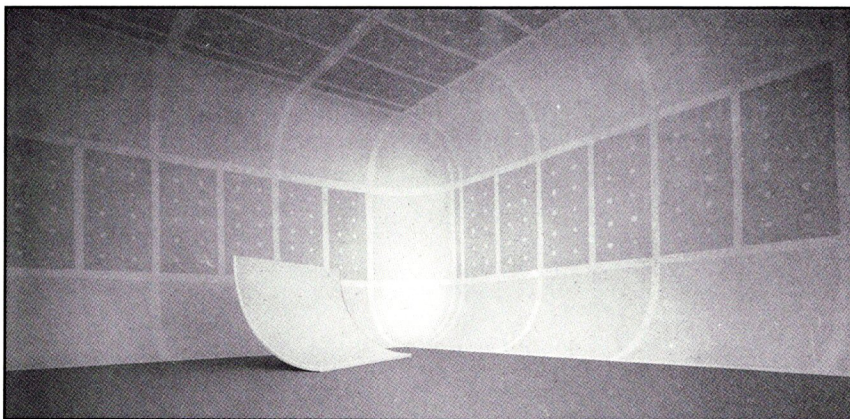
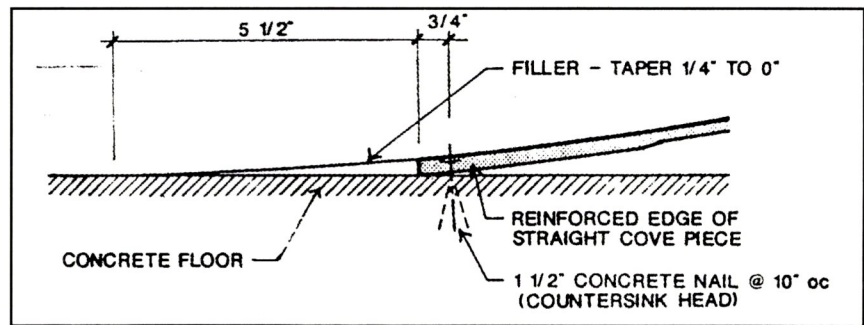
Pro-Cyc

Pro Cyc's modular design makes installation as simple as possible. Just frame out a wall with 2x4's (built onto your existing wall) starting five feet from the ground. The new wall will become the flat surface of the cyclorama; the five-foot cove sections fit under it, flush with the surface and bolted to each other and the wall.



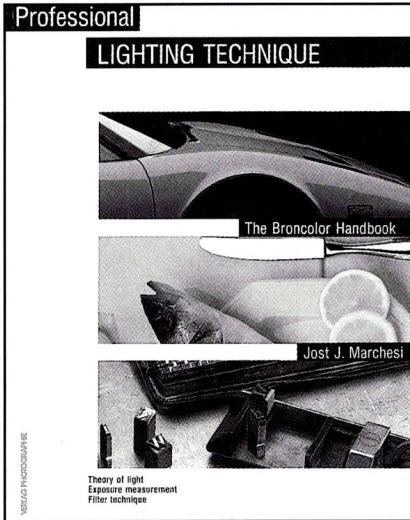
Special indented ends on the cove pieces allow them to be filled with joint compound and taped over to create a smooth joint between cove sections and between the cove and the wall.

The tapered ends of floor cove sections make it easy to create a smooth, seamless joint between the cove and the floor.



Pro-Cyc's modular design and ease of installation mean that you'll be back in business in no time. Its strength and durability mean that it will last through years of heavy use.

Publications



Professional Lighting Technique

This well-illustrated book covers a wide range of topics useful to the established as well as the beginning photographer. Subjects covered include the theory of light, filter technique, exposure measurement, lighting for specific subjects and much more.

Soft bound 211 pages.

41-1075 \$29.00

Workshops

Our 4½ day Sinar view camera workshops are held throughout 1993.

Want to know more?
See pg. 104 for info,
or contact the
Workshop Coordinator.

(800) 456-0203

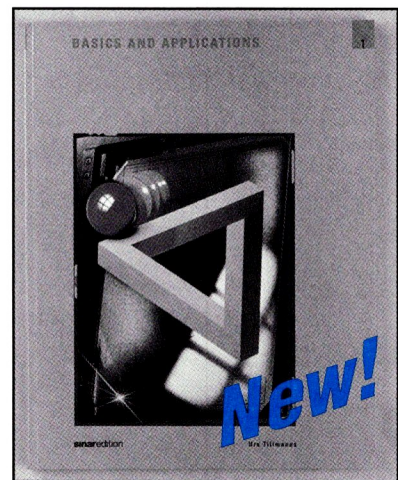
Creative Large Format Series "Basics and Applications"

This is the first book in a series by noted Swiss author Urs Tillmans which will cover all areas of large format photography. The first volume is an in-depth introduction to large format, covering everything from basic view camera theory to advanced metering and filtration techniques.

Subjects such as the Scheimpflug rule of intersecting planes and the patented Sinar systems for calculating swings and tilts are illustrated in extreme detail.

By clearly explaining what appear to be complicated issues, "Basics and Applications" helps to convey the limitless creative potential of large format photography to new and experienced users alike.

This book also serves as a technical reference for future volumes in



the series, leaving them free to concentrate on the creative aspects and techniques of large format.

Soft bound, 112 pages.

41-1052 \$32.00

The Large Format: Handbook on the SINAR

This view camera handbook presents the logical structure of an immensely versatile and wide-ranging camera system based on SINAR prod-

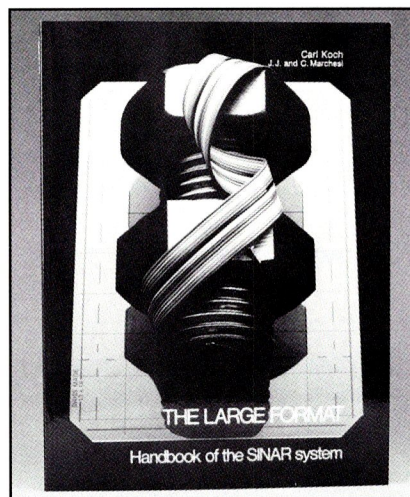
ucts. An appreciation of this structure is vital if we want to simplify routine operation with the professional photographer's fundamental tool - the camera.

The Handbook guides you step by step through the extensive Sinar system. You'll gain an appreciation of the ingenious Sinar system philosophy, conceived with convenience and efficiency in mind.

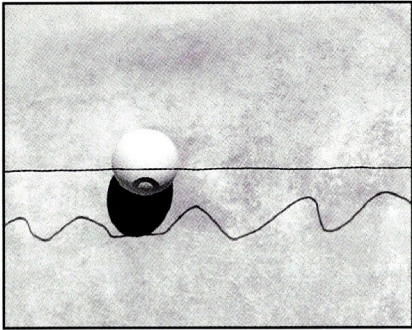
Through detailed descriptions of system components, you will learn the full extent of the capabilities of the Sinar system - from behind-the-lens shutters to system interchangeability to advanced masking techniques.

This is a valuable guide to many of the little-known gems of the Sinar system. Soft Bound 141 pages.

41-1055 \$29.00



Publications



1993 SINAR Calendar

This year's calendar features still-life images by Dutch photographer Peter Ruting.

41-1993 \$7.50

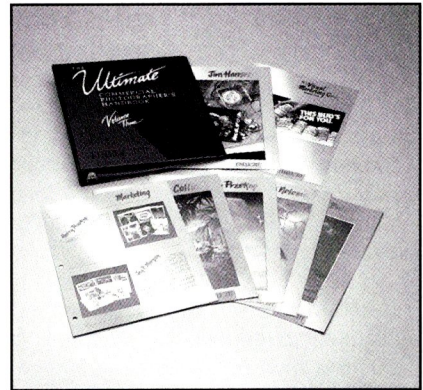
Ultimate Commercial Photographer's Handbook Volume III

Finelight's "Ultimate Commercial Photographer's Handbook III" spotlights the talents of seven successful professionals. The handbook, conceived by highly respected photographer and lecturer Dean Collins, showcases innovative techniques and aims to inform and inspire photographers working in a wide range of specialties.

Each photographer's work is illustrated and explained in separate sections featuring high-quality full page color reproductions, step-by-step analysis and set diagrams. In addition to the photographic how-to information, writer Bill Holshevnikoff has included insightful details on the photographers' philosophies and business strategies.

3 Ring Binder, 64 pages

41-1110 \$39.95



Volume II

41-1070 \$39.95

Combination Volume II / III

41-1113 \$59.95



Literature Request Form

If you would like some more detailed product information, just check off the items you're interested in, fill in your mailing address and mail or fax this form to us.

SINAR VIEW CAMERAS

- SINAR Code
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- Exposure Meters
- Lenses and Shutters
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- Extending the System
- Info 28 Sinar Color Control Filters
- Info 29 Special Effects Photography
- Info 30 Photography for Offset Printing
- Info 31 Contrast Control in Practice
- Info 32 Quality Points Inside the View Camera
- Info 33 Controlled Zones of Sharpness
- Info 34 Extreme View Camera Situations
- Info 35 View Camera Photography in the 1990's - Computer Aided Photography
- Info 36 Sinaron Lenses Compared
- Info 37 Optimum Focusing Screen Viewing

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Send to: Sinar Bron, Inc., 17 Progress St., Edison, NJ 08820 • Fax (908) 754-5807

SINAR Workshops in Large Format

Questions First, Shoot Later

The professional photographer is continually learning, whether by attending workshops or by absorbing experience on the job. The problem with "on the job" training, though, is that it's painfully slow.

Sinar Bron's 4¹/₂-day workshop is designed to overcome this problem by building a thorough understanding of both the principles of photography and the practical day-to-day techniques of using sophisticated large format equipment.

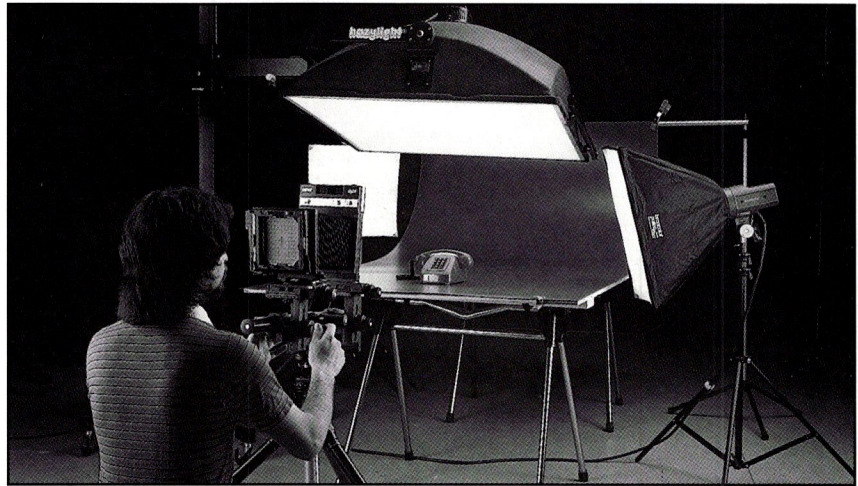
The workshop is limited to only twelve participants and conducted by experts in their fields. Classroom segments include optical theory, how to apply movements to control depth-of-field, exposure control, film plane metering, shooting for reproduction, contrast, different lenses and their applications. Large format camera tilts and swings, converging vertical perspective, the Scheimpflug rule and implementing two-way sharpness distribution control are also covered in classroom discussions.

Working Together in Three Part Harmony

After the classroom portion of the course, the workshop is separated into three-person teams, each of which is assigned a complete setup, to work on a number of assignments similar to those that would be received from an advertising agency. Later, these shots are compared to previously executed photography, reviewed and critiqued.

One of the elements of the review is the presentation of SINAR solutions to the previous assignments.

For their successful completion, these assignments require asymmetrical swings along the vertical axis, which influences the perspective, and combined swings and tilts. They quickly provide a comfortable familiarity with handling the view camera and sophisticated accessories such as the SINAR Digital Shutter and film plane meters.



See the World in a Whole New Light

There's only one right way to operate a camera but lighting is in the eye of the beholder. A guest speaker, a well known commercial photographer, discusses lighting and light techniques using his portfolio as the basis. He outlines the light management problems encountered in his work, touching briefly on such subjects as lighting control, contrast control, metering, film plane metering, multiple exposures and brightness range.

Throughout the course you'll be working with the latest in lighting equipment—bank lights, spots, soft box, strip lights, Hazylights and mixed lighting.

In short, the SINAR workshop pulls together the many elements of good photography into an easily understood package that results not only in theoretical and practical knowledge, but in outstanding work.



Course Fees and Schedule

The Professional View Camera Workshop is held several times a year in Edison NJ. Course fee is \$550.00, which includes all materials. Course fee with lodging is \$980.00.

Upcoming View Camera Workshops for 1993

February 22-26
March 22-26
May 10-14
June 21-25
September 20-24
November 15-19

Terms and Conditions

Special Orders

Sinar Bron can special order non-stock items with a normal delivery time of 4-6 weeks. Due to the one of a kind nature of these items, we cannot accept returns of these items unless the item is defective. A 50% non-refundable deposit is required at the time of the order, and an order cannot be cancelled after placement.

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4. The returned item must be sent to us prepaid. Returns sent C.O.D. or "shipping charges collect" **will not be accepted.**
5. All returns that do not meet the terms of the Sinar Bron return policy are subject to a minimum 15% restocking charge.

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COMMERCIAL FINANCING APPLICATION
 CONFIDENTIAL INFORMATION
 \$2,500 to \$25,000

To be considered for the Sinar Bron Commercial Leasing Program, you need only to meet these four criteria:

1. You must have been in business for at least two years.
2. Your business checking account must have a minimum average balance of \$1,000.
3. You must have three good trade references which have you on credit. (No COD Trades or Utilities, please)
4. The Owner or Manager must have good personal credit.

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---	---

OFFICERS/OWNERS (THOSE AUTHORIZED TO SIGN LEASE):

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(617) 265-0979

Manhattan

Mark Rezzonico
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NJ, Long Is., Staten Is., NY State

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St. Louis, MO
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(214) 630-3466

SK Grimes Camera Repair

Boston, MA
(617) 951-1480

Arce Photographic Services

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Pro Camera

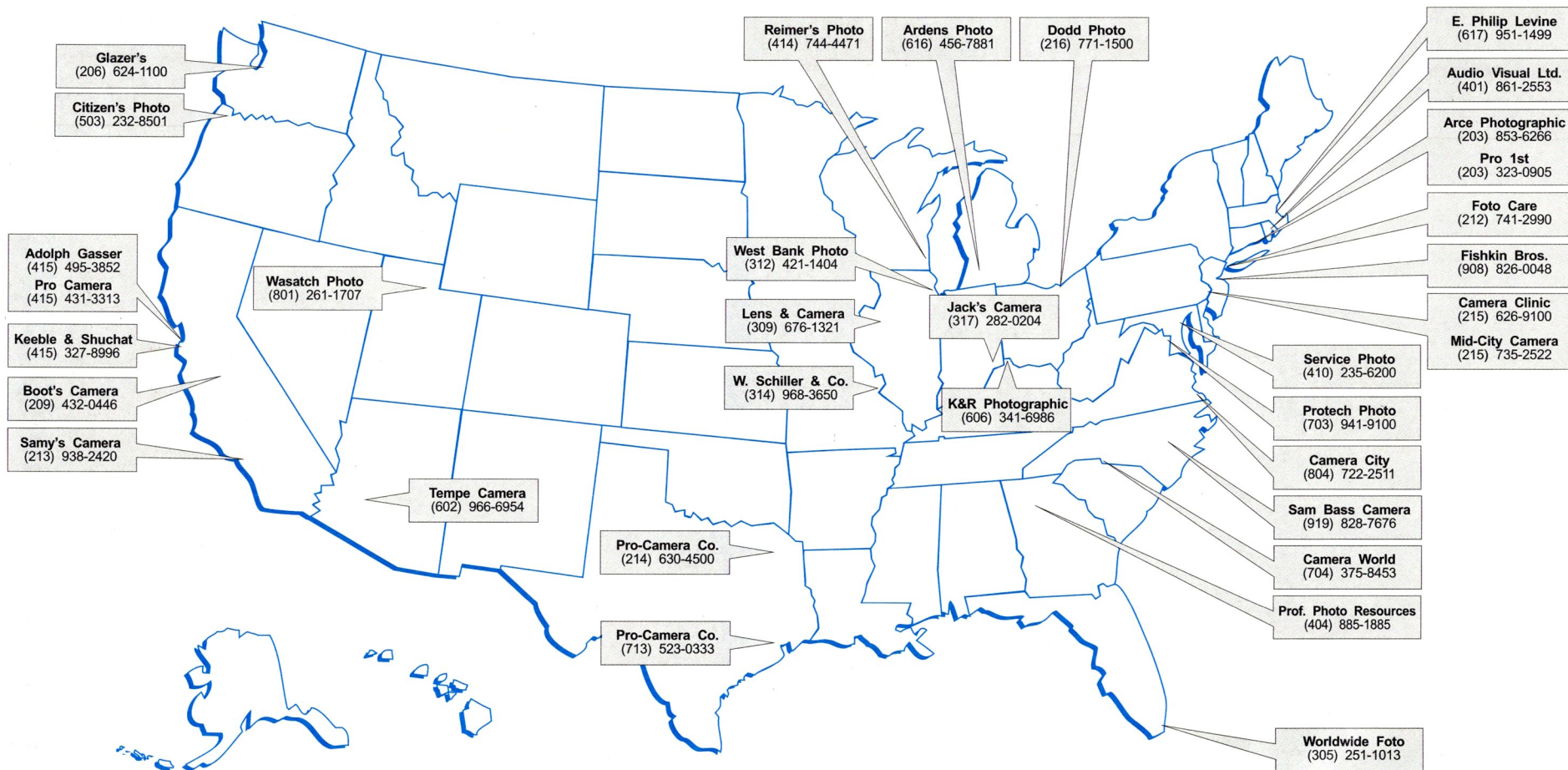
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Sinar Bron Full Line Dealers

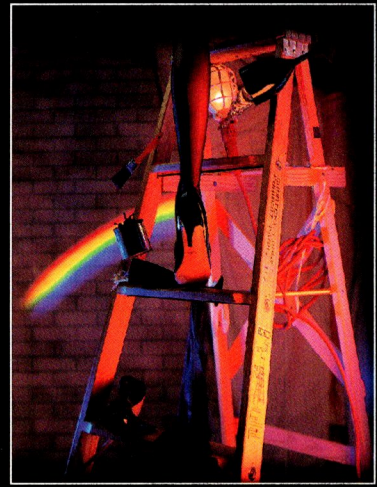
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THE

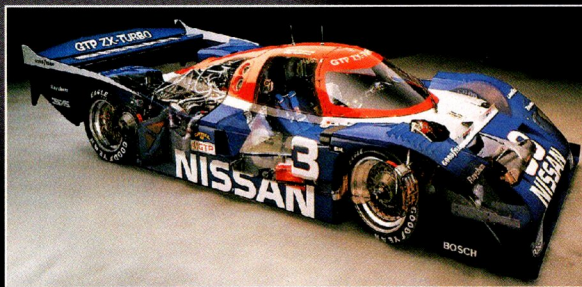
Ultimate

COMMERCIAL
PHOTOGRAPHER'S
HANDBOOK

Volume
Three



HARRY PRZEKOP



DEAN COLLINS



HANS NELEMAN



JIM HANSEN

FINELIGHT

Volume Three of 'The Ultimate Commercial Photographer's Handbook' presents all new imagery and techniques from seven of the industry's leading photographic studios. In-depth interviews with the nation's top commercial photographers provide you with detailed information on 17 different images, from concept to completion. Informative documentary photographs and 3-dimensional lighting diagrams with airbrushed 'light paths' are used to explain each setup with remarkable detail.

"This book is an invaluable learning tool for almost any photographer", said Executive Producer Dean Collins. "By following each photographer step-by-step you gain a complete understanding of the

photographic process behind each of these images."

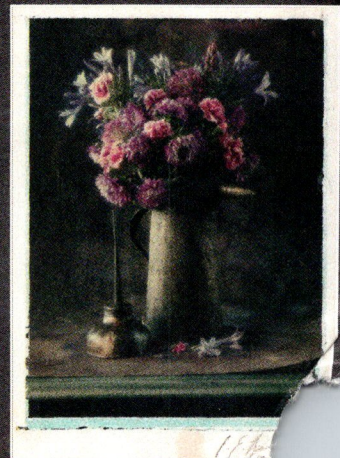
Volume Three of Finelight's 'Ultimate Commercial Photographer's Handbook' also reveals the most successful marketing techniques discovered by each photographer. Produced in brilliant six-color printing, Volume Three will provide you with the cutting edge of photographic techniques for 1991.



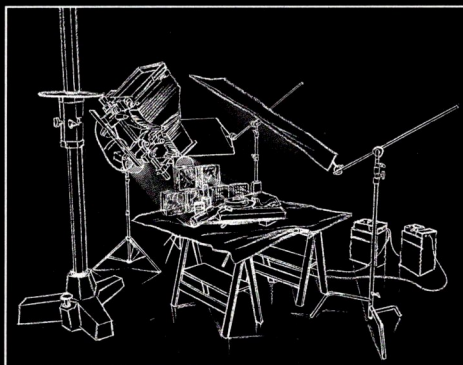
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DEAN COLLINS



CHARLES BRADLEY - HALL



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