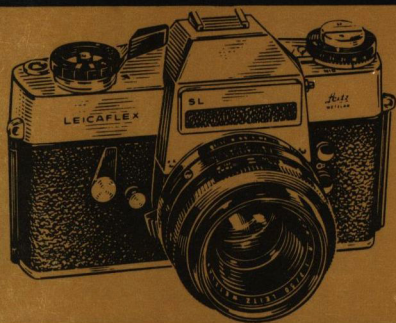
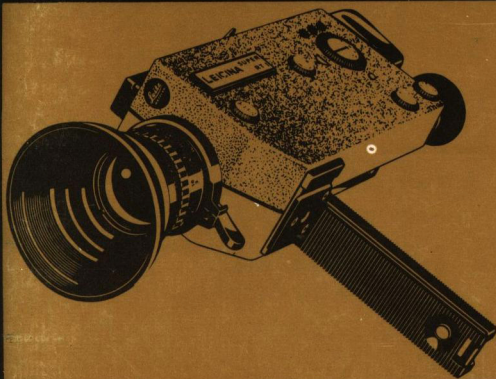


# photographic equipment

catalog 45



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*Leica*<sup>®</sup>



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Leica®

Your assurance that the Leica or Leicaflex camera and the lenses for those cameras that you buy is new equipment is the Leitz-Rockleigh Registration Card which identifies this equipment by serial number. On returning this card, to E. Leitz, Inc., Rockleigh you will receive your Leitz Guarantee Certificate. Only a Franchised Leica Dealer can provide you with this Leitz-Rockleigh Registration Card. We cannot guarantee any camera or camera lens sold to you without a Leitz-Rockleigh Registration Card. We do not issue Registration Cards for lenses supplied for our enlargers and projectors.

We suggest you ask your Franchised Leica Dealer for the Leitz-Rockleigh Registration Card so you may receive a guarantee for your camera or camera lens.

**Specifications effective January 1, 1972  
and are subject to change without notice.**

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# LEICA M5

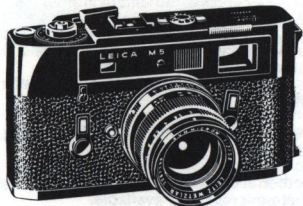
The Leica is the magnificent result of almost one half a century of progress in the design of 35mm cameras. Since 1925, when the introduction of the first Leica launched the present era of 35mm

photography, constant improvements have been added to make operation easier and success more certain.

## LEICA M5 With Through-the-Lens Metering

- All-metal body with hinged back and carrying strap eyelets on one side, available with bright or black chrome top and cover and baseplate.  $\frac{1}{4}$  inch tripod bush.
- Built-in brilliant-frame viewfinder.
- Coupled rangefinder with 68.5mm base length.
- Bright-line illuminated frame for focal lengths of 35, 50, 90, 135mm; changes automatically on fitting the appropriate lens.
- Automatic parallax compensation.
- Image frame selector.
- Interchangeable lenses in quick-change bayonet mounts.
- Selective through-the-lens exposure meter with built-in CdS cell. Meter needle and follow pointer visible in the finder, coupled with aperture settings, shutter speeds, and film speeds from 6 to 3,200 ASA (9 to 39 DIN). Takes Mallory PX 625 mercury battery.
- Measuring range of 21 EV steps; exposure times marked on the shutter speeds dial. Visible in the viewfinder from 1/1000 second to 30 seconds.
- Meter circuit automatically switches off after exposure — switched on by winding the film.
- Battery test switch built into finder frame selector.
- Focal plane shutter with speeds of 1/2, 1/4, 1/8, 1/15, 1/30 (1/50), 1/60, 1/125, 1/250, 1/500 and 1/1000 second, and time exposure of any length.
- Automatic flash synchronization for flashbulbs up to 1/500 second and electronic flash up to 1/50 second.
- Separate standard flash outlets (M and X) for bulbs and electronic flash respectively.
- Hot-shoe outlet (X-synchronization) in the accessory shoe.
- Adjustable self timer (delayed action release).
- Rapid winding lever with release lock tensions the shutter and advances the film.
- Rapid film loading: removable quick-loading take-up spool for all standard 35mm films (with or without trimmed leader).
- Rewind crank in base for rewinding the exposed film; blocks the film transport when the crank is swung out.
- Exposure counter with automatic zero return on opening the baseplate.
- Film type indicator combined with calculator for converting alternative aperture/exposure time combinations from exposure readings.
- Film plane index mark.
- Adjustable carrying strap with non-slip pad.

# LEICA M5



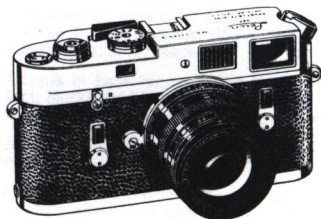
<i>Catalog Number</i>	<i>Item</i>
10,501	Leica M5 Chrome, without lens .....
10,502	Leica M5 black, without lens .....
10,503	Leica M5 chrome, with 50mm Summicron f/2 lens ....
10,504	Leica M5 chrome, with 50mm Summilux f/1.4 lens ....
10,505	Leica M5 black, with 50mm Summicron f/2 lens .....
10,506	Leica M5 black, with 50mm Summilux f/1.4 lens .....
14,541	Soft Black Leather Eveready Case, for Leica M5 .....
14,190	Carrying Strap, for Leica M5 (replacement) .....
14,183	Double Syncro Outlet Cover, for Leica M5 (replacement) .....

# LEICA M4

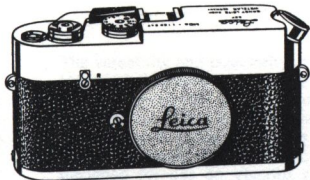
## THE LEICA M4 HAS THESE ADVANCED FEATURES:

- Brilliant, single-window range- and viewfinder.
  - Automatic Parallax correction.
  - Accurate, rugged focal-plane shutter.
  - One-stroke film-advance and shutter-wind lever.
  - Single speed-setting dial with click-stops for speeds from 1 second to 1/1000th and B.
  - **Automatic** flash synchronization for both flash bulbs and electronic flash.
  - Easy-fast position loading
  - Cleverly designed "canted rewind-crank"
  - View-finder image three quarter life size
  - Rewind lever resets **automatically** to "advance" position as film is loaded.
  - Built-in self-timer (up to 10 seconds delay).
  - Accessory shutter-coupled exposure meter available.
  - Accessory reflex housing available for long-lens and close-up work.
  - Many other accessories for close-up, copying and photo-micrography available.
  - Built-in, bright-line frames for four focal lengths; 35mm, 50mm, 90mm and 135mm
  - Built-in exposure counter automatically resets itself to zero on reloading camera
- Full line of interchangeable lens.

Catalog Number	Item
10,400	Leica M 4 chrome finish without lens .....
10,405	Leica M 4 chrome finish with 50mm Elmar f/2.8 lens
10,409	Leica M 4 chrome finish with 50mm rigid black finish Summicron f/2 lens including lens hood .....
10,408	Leica M 4 chrome finish with 50mm black finish Summilux f/1.4 lens .....



Leica M 4



LEICA MDa

## LEICA MDa

The Leica MDa is a camera designed for industrial, medical and scientific use with the Visoflex reflex housing, Micro-IBSO and other specialized attachments. It is similar in construction to the M 4 camera but lacks a rangefinder and viewfinder. Shutter speeds are from one to 1/1000th of a second, and the MDa accepts the lenses and accessories used with the other "M" Leica models.

## Frame Identification

For laboratory use, the MDa permits frame identification to be printed on the negative at the same time the picture is made. This is accomplished by using a special baseplate (available as an accessory) which permits a transparent plastic strip to be inserted and positioned across one short edge of the film gate, in front of the film. Information marked on the plastic strip is thus printed on the negative when the exposure is made.

- |        |   |
|--------|---|
| 10,103 | <b>Leica MDa</b> without lens and with standard baseplate   |
| 10,913 | <b>Leica MDa</b> without lenses, with special baseplate #14,142 .....   |
| 14,142 | <b>Special Baseplate</b> for Leica MDa. Permits identification strips to be inserted into camera .....  |
| 14,131 | <b>Special Baseplate</b> for discontinued Leica MD. Permits identification strips to be inserted into camera .....  |
| 14,132 | <b>Negative Marking Strips</b> for use with special baseplate, #14,131 & #14,142. Can be written on and positioned in front of film in camera for frame identification at time of exposure. Package of 100 strips ..... |



# BASIC CAMERA ACCESSORIES

## BASIC ACCESSORIES FOR LEICA "M" MODELS

Catalog Number	Item
14,217	<b>Leica-Meter MR-4</b> , battery operated with CdS cell and self-locking indicator needle. Has 27° angle of acceptance. Couples to speed dial of Leica "M" models except M5. Complete with Mallory PX 625 "button" battery .....
14,218	<b>Leica-Meter MR-4</b> in black finish, otherwise same as #14,217 .....
14,213	<b>Case</b> for exposure meter MR-4 .....
14,128	<b>Mallory PX 625 battery</b> for Leica Meter MR (as replacement) .....
14,541	<b>Soft Leather Eveready Case</b> , for Leica M5 .....
14,526	<b>Eveready Case</b> (brown leather) for Leica M 4, M 3 or M 2 with 35mm "RF" lenses or 50mm Dual-Range Summicron, each with Optical Viewing Unit attached .....
14,534	<b>Eveready Case</b> (black leather) for Leica M 4, M 3, M 2 or M 1 with Leica Meter MR attached and lenses up to 50mm focal length including 50mm DR and 35mm RF lenses .....
14,094	<b>Shoulder Grip</b> for strap of Eveready case. Fits carrying straps up to 1/2" wide .....
14,190	<b>Carrying Strap</b> , for Leica M 5 (replacement) .....
14,183	<b>Double Syncho Outlet Cover</b> , for Leica M 5 (replacement) .....
14,260	<b>Rapid Loading Spool</b> with film positioning adapter for Leica cameras M 2, M 3, M 1 and MD (not for M 4, MDa, M 5, nor motorized cameras) .....
	<b>Note:</b> Film positioning adapter supplied with the spool must be attached to base plate of the camera.
14,006	<b>Film Magazine</b> for all Leicas except 250 exposure model; with screw-cap plastic container .....
14,097	<b>Bayonet Adapter</b> actuating the 50mm viewfinder frame of the Leica M2, M3, M4 and M5 .....
	For M3 with: All screw-mounting Leica lenses 50mm or less in focal length. For M2, M4 and M5 with: All screw-mounting 50mm Leica lenses.
14,098	<b>Bayonet Adapter</b> actuating the 90mm viewfinder frame of the Leicas M2, M3, M4 and M5 .....
	For M2, M3, M4 and M5 with: All screw-mounting 90mm Leica lenses.
14,099	<b>Bayonet Adapter</b> actuating the 135mm viewfinder frame of the Leica M3, M4 and M5 and the 35mm frame of the Leica M2, M4 and M5 .....
	For M3 with: All screw-mounting 135mm Leica lenses. For M2 with: All screw-mounting Leica lenses 35mm or less in focal length. For M4 and M5: All screw-mounting 35mm and 135mm Leica lenses.

**Note:** Any of the above Bayonet Adapters can be used to attach 135mm screw-mounting lenses to the M2. Since a separate viewfinder must be used for this focal length on the M2, the bright-line frame which is actuated in the range-viewfinder is unimportant.

This is also true for adapting the screw-threaded Visoflex I to "M" Leicas, since viewing and focusing are done on the ground glass screen. (The screw-mounting Visoflex II cannot be adapted to bayonet-mounting cameras.)



14,217



14,526



14,006

## WIDE-ANGLE BAYONET LENSES

The versatility and popularity of the Leica System of photography have always been rooted in the large selection of interchangeable lenses available for it. The lenses below have bayonet mounts which fit the "M" series Leicas. Screw-mounting lenses for older Leicas, and lenses designed for use on Visoflex reflex housings will be found in other sections of this catalog.

Rangefinder-coupled lenses for the "M" Leicas are available in focal lengths from the extreme wide-angle 21mm to the long-focus 135mm. This group affords great control, both creative and technical, over the final picture. Through proper choice of lens, you can control perspective, bring distant scenes "closer," or work in small crowded areas, yet record all the important subject matter without the need to move back from it.

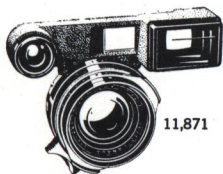
There is a Leica lens for every purpose. Some have the extremely high aperture of  $f/1.4$  for work under very poor light. One—the Dual Range 50mm Summicron  $f/2$ —can be focused as close as 19" without extra accessories. And the 135mm Elmarit  $f/2.8$  combines high speed with long focal length for situations which demand both from a lens. Still others are designed for all-around usefulness at modest cost.

Several of the longer focal lengths — particularly models of the 90mm and 135mm lenses — can also be used on the Visoflex II and III by means of adapters. This adaptation is especially useful for close-up and portrait work.

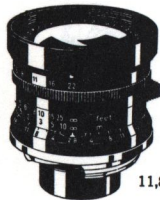
The longer focal length lenses, from 200mm to 560mm, which must be focused by a reflex system, are described in the section on the Visoflex housings.



11,108



11,871



11,801



12,585



12,007



12,002



11,870



11,103

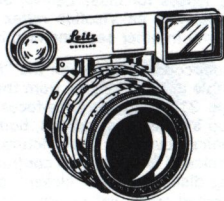
### Catalog Number

### Item

- |        |  |
|--------|--|
| 11,103 | 21mm Super-Angulon $f/3.4$ in black finish, including special lens hood. Note: This lens cannot be used with the M5 meter and lenses below serial number 2,473,251 must be modified to be used at all on the M5 .....  |
| 12,002 | Optical Bright-line Viewfinder for 21mm lenses .....   |
| 11,801 | 28mm Elmarit $f/2.8$ in black finish with lens hood. Note: lenses with serial numbers above 2,314,920 may be used on the M5 with TTL metering. Lenses with serial numbers below 2,314,920 must be modified to be used on the M5, but in no event can they utilize the TTL metering ..... |
| 12,007 | Optical Viewfinder for 28mm lens .....   |
| 11,309 | 35mm Summicron $f/2$ in black finish with hood for M 2, M 4 and M 5 .....  |
| 11,108 | 35mm "RF" Summicron $f/2$ in chrome finish with Optical Viewing Unit for M 3 .....   |
| 11,870 | 35mm Summilux $f/1.4$ in black finish with lens hood for M 2, M 4 and M 5 .....  |
| 11,871 | 35mm "RF" Summilux $f/1.4$ in black finish with Optical Viewing Unit and lens hood for M 3 .....   |
| 12,585 | Lens Hood with clamping device for 35mm Summicron $f/2$ (#11,308 and #11,108) and 50mm Summicron lenses with 42mm flange diameter .....  |
| 12,501 | Lens Hood for 28mm Elmarit and 21mm Super Angulon lens .....   |
| 12,504 | Lens Hood for 35mm Summilux with serial number #2166701 and above and 35mm Summicron $f/2$ #11,309 (as replacement) .....  |

# NORMAL BAYONET LENSES

Catalog Number	Item
11,112	50mm Elmar f/2.8 in chrome finish .....
11,817	50mm Summicron f/2, rigid in black finish including lens hood .....
11,318	50mm Dual-Range Summicron f/2 with Optical Viewing Unit for M2, M3, M4 in chrome finish. For use on M5 the lens and viewing unit must be modified by E. Leitz .....
11,114	50mm Summilux f/1.4, in black finish, includes lens hood and lens hood cap .....
11,820	50mm Noctilux f/1.2 lens in black finish with sunshade and lens cap .....
12,585	Lens Hood with clamping device for 35mm Summicron f/2 (#11,308 and #11,108) and 50mm Summicron lenses .....
12,586	Lens Hood for 50mm Summilux f/1.4 (as replacement) .....
12,503	Lens Hood for 50mm Noctilux f/1.2 lens (as replacement) .....



11,318



11,820



11,112



12,585



11,114



11,817

# LONG-FOCUS BAYONET LENSES

Catalog  
Number

Item

- 11,800 90mm Tele-Elmarit f/2.8 in black finish. Telephoto design; mount is only 60mm long .....
- 11,129 90mm Elmarit f/2.8, rigid in black finish .....
- 11,123 90mm Summicron f/2, rigid; black finish with built-in collapsible lens hood .....
- 11,851 135mm Tele-Elmar f/4; telephoto design black anodized finish .....
- 11,829 135mm Elmarit f/2.8, black finish only, with built-in collapsible lens hood and filter retaining ring to accept Series 7 filters .....
- 12,030 Optical Bright-Line Viewfinder for 135mm Elmar lens when lens is used on M 2 and M 2R .....
- 12,575 Lens Hood with clamping device for bayonet-mounting 90mm Elmarit, Tele-Elmarit and Elmar and 135mm Hektor, Elmar and Tele-Elmar lenses with 42mm front diameter .....

(Other viewfinders and lens hoods are listed in the Accessories Section.)



11,800



11,129



11,123



12,030



12,575



11,851



11,829

# DATA FOR RANGEFINDER-COUPLED "M" LEICA LENSES

Focal Length	Lens	Aperture Maximum/Minimum		Angle	Class	Click Diaphragm	Flange Diameter	Filter Designation	Weight Ounces	Minimum Focus	Approx. Min. Focus Area (sq. in.)	Application
21mm	Super-Angulon	f/3.4	f/22	92°	Wide Angle	Yes	52.5mm	Series 7	9	With RF* M2-2'4" M3-3'4" M4-2'4" M5-2'4"	15 x 23 (at RF min. distance)	Interiors Architecture Panoramic
28mm	Elmarit	f/2.8	f/22	76°	Wide Angle	Yes	52.5mm	Series 7 or E 48	8	w/range-finder, M2-2'4" M3-3'4" M4-2'4" M5-2'4"	2'x2'8"	Architecture Industrial Photo- Journalism
35mm	Summilux 1	f/1.4	f/16	64°	Wide Angle	Yes	43mm	E41	M2-8.7 M3-11.5 M4-8.7	M2 3' M3 2' 3" M4 3' M5 3'	22 x 33 16 x 24	Interiors Architecture Panoramic
35mm	Summaron	f/2.8	f/22	64°	Wide Angle	Yes	42mm	A36	M2-6 M4-6	M2-2' 4" M4-2' 4" M5-2' 4"	17 x 25.5	Interiors Architecture Panoramic
35mm	Summicron	f/2	f/16	64°	Wide Angle	Yes	42mm	Series 7	8.25	M2-2' 4" M4-2' 4" M5-2' 4"	17 x 25.5	Interiors Architecture Panoramic
50mm	Elmar (collapsible mount)	f/2.8	f/16	45°	Standard	Yes	42mm	E39	7.5	3.5'	18 x 27	General Copying Macro
50mm	Summicron	f/2	f/16	45°	Standard	Yes	42mm	E39	8.25	28"	10 x 16.5	General Action Poor Light Close-up
50mm	Dual-Range Summicron	f/2	f/16	45°	Standard	Yes	42mm	E39	14.25 o.v.u.	Normal-3' 4" Close-19"	7 x 10 (close-up) 18 x 27 (normal)	General Action Poor Light Close-up
50mm	Summilux	f/1.4	f/16	45°	Standard	Yes, incl. 1/2 stops	45mm	E43	11.5	3.5'	18 x 27	General Existing light Fast action
50mm	Noctilux	f/1.2	f/16	45°	Standard	Yes incl. 1/2 stops	52.5	Series 8	16	40"	16.5 x 25"	General Existing light Fast action
90mm (Either rigid or collapsible mount)	Elmar 2 (Note 2 for rigid mount only)	f/4	f/32	27°	Medium-Long focus	Yes	42mm	E39	9.5 & 12	3.5'	9.5 x 14.25	Animals Sports Landscapes Portraiture Close-up
									In Viso. 3' 4"	In Viso. 8.75 x 13		
90mm	Tele-Elmarit	f/2.8	f/16	27°	Telephoto	Yes, incl. 1/2 stops	42mm	E39	12.5	3'4"	8.6 x 13	
90mm	Elmarit 2	f/2.8	f/22	27°	Medium-Long focus	Yes	42mm	E39	11.5	3.5'	9.5 x 14.25	
										In Viso. 19.6	In Viso. 3 x 4.7	
90mm	Summicron 2	f/2	f/16	27°	Medium-Long focus	Yes, incl. 1/2 stops	63.5mm	E48	25	3.5'	9.5 x 14.25	
135mm	Tele-Elmar 2	f/4	f/22	18°	Telephoto	Yes, Half & full stop	42mm	E39	18	5'	8.75 x 13	Animals Sports Distance Portraiture Close-up
135mm	Elmarit	f/2.8	f/32	18°	Long focus	Yes, Half & full stop	65	Series 7	26	5'	8.75 x 13	

1. Separate models for M3 and M2, M4 and M5

2. Lens unit can be used on Visoflex II or III with adapters

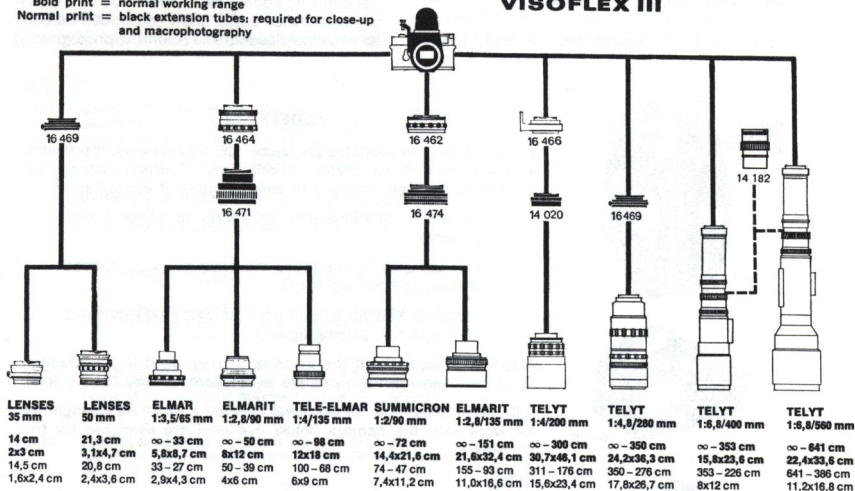
\* 21mm lens focuses between minimum range-finder distances and 16", but range-finder does not function in this area.

# THE VISOFLEX SYSTEM

For Normal-Range Photography  
(Visoflex Close-Up Equipment Appears In The Close-Up Section)

Format given = object size at shortest focusing distance  
**Bold print** = normal working range  
 Normal print = black extension tubes: required for close-up and macrophotography

## Combinations with the VISOFLEX III



## VISOFLEX INDEX

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Focusing Mounts for Visoflex Lenses .....	3
Adapters for Visoflex Lenses .....	4
Lenses for Visoflex .....	3, 5
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# REFLEX HOUSING VISOFLEX III

Experts acknowledge that no one method of focusing is best for all photo situations. For general photography with wide angle and normal lenses, the rangefinder system is faster and more accurate than a reflex camera. For extreme close-ups and telephotography, however, a reflex system is a "must."

made both focusing methods available in one camera by means of the Visoflex reflex housings. These accessories attach to the Leica body as quickly and easily as an ordinary lens and accept Leica lenses from 65mm to 560mm in focal length. (See chart on Page 1 Visoflex Section.) By adding extension tubes or a focusing bellows (or both), the Visoflex can be used for extreme close-up and scientific photography.

And so the Leica System has for many years

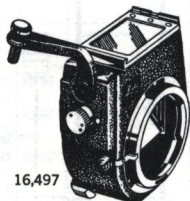
## VISOFLEX III

The Visoflex III is available for Leica "M" models only. It provides a selection of three mirror actions, any of which can be set quickly for best efficiency with varying types of photography:

- automatic quick-return, for sports or other action pictures
- soft upswing to minimize vibration for slow speeds and short time exposures
- mirror locked out of light path for long time exposures and scientific photography

A special lever-lock on the Visoflex III permits it to be attached to or removed from the camera even more quickly than a lens.

A 4X prism magnifier for eye-level use and a 5X straight magnifier for work with the camera below eye-level are available for the Visoflex III.



16,497



16,499



16,461

<i>Catalog Number</i>	<i>Item</i>
16,498	<b>Visoflex III, bayonet mounting, with 4X magnifier . . .</b>
16,497	<b>Visoflex III, bayonet mounting without magnifier . . . .</b>
16,499	<b>4X Eye-Level Magnifier for Visoflex III . . . . .</b>
14,118	<b>Correction Lenses for magnifier #16,499. Corrects for near-or far-sightedness. Prescription for eye to be used must be furnished with order. (Delivery 8 to 12 weeks.)</b>
16,461	<b>5X Standard Magnifier for Visoflex II or III . . . . .</b>

# FOCUSING MOUNTS FOR VISOFLEX LENSES

## SHORT LENS MOUNTS

The lens units of certain rangefinder-coupled Leica lenses are removable. In special short mounts or adapters, they can then be used on the Visoflex and Bellows Focusing Device.

and remounted in long, rangefinder-coupled mounts, if desired.

What's more the lens units of some short-mounted lenses for the Visoflex can be removed

Mounts, and some adapters are listed below. Adapters and extension tubes which fit Leica lenses for close-up photography will be found in the Close-up Section of this catalog.

Catalog  
Number

Item

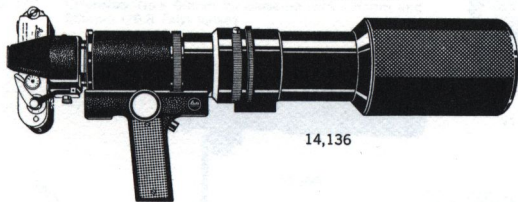
- 16,464 **Universal Focusing Mount.** Necessary with f/3.5 65mm on Visoflex II and 135mm Tele-Elmar f/4 or III. Also adapts lens unit of f/2.8 90mm Elmarit to Visoflex II or III. With extension tube #16,472 it adapts lens unit of f/4.5 135mm Hektor or Elmar f/4 to Visoflex II or III.
- 16,462 **Universal Focusing Mount** in black finish accepts Lens Unit of 90mm f/2 Summicron or Lens Unit of 135mm f/2.8 Elmarit for use on Visoflex II or III .....



16,464

## RAPID FOCUSING DEVICE TELEVIT

- 14,136 **Televit Pistol Grip Rapid Focusing Device** for long focus lenses for use on Leica Cameras with Visoflex II and III. Has built-in filter slot for Series 7 filters.
- 14,137 **Iris Diaphragm Adapter** with preset diaphragm for Televit rapid focusing device. This will accept the lens heads of the new Telyt 400mm f/5.6 or Telyt 560mm f/5.6 .....
- 14,138 **Bayonet Adapter** for using lens heads of Telyt 280 mm and the discontinued 400 mm f/5 on Televit Rapid Focusing Device .....



14,136

THE FOLLOWING LENSES CAN ONLY BE USED WITH THE  
TELEVIT PISTOL GRIP RAPID FOCUSING DEVICE #14,136:  
PLUS DIAPHRAGM ADAPTER #14,137

- 11,866 **Telyt 400mm f/5.6 lens head only, w/out diaphragm**
- 11,867 **Telyt 560mm f/5.6 lens head only, w/out diaphragm**
- 11,904 **Telyt 280mm f/4.8 lens head only, with diaphragm.** Note: this lens head requires only bayonet adapter #14,138 when used on Televit Pistol Grip Focusing Device #14,136 .....



# VISOFLEX LENS ADAPTERS



16,466

Catalog  
Number

16,466

Item

**Adapter fitting bayonet on front side of Visoflex II with standard Leica thread, increasing extension length of Visoflex II to that of the Visoflex I and permitting use of short-mounted lenses of 125mm, 135mm†, 200mm, 280mm and 400mm focus .....**

16,472

**Adapter Tube. Adapts lens unit of 135mm† to Universal Focusing Mount #16,464. Permits the lens to be focused to infinity on the Visoflex II or III. Can also be used with #16,464 and extension tube #16,471 at distances from 38" to 26" .....**



14,117

14,020

**Extension Tube (15mm), fitting between 200mm Telyt and Visoflex for photography between 6 and 10 feet. .**

12,035

**Sports Frame Finder for 200mm lens for use with Intermediate Collar .....**

†Except 135mm Tele-Elmar f/4



14,020



12,035

# VISOFLEX LENSES

Catalog  
Number

Item

- 11,162 **65mm Elmar f/3.5** for Visoflex II or III only. Lens unit without focusing mount but with Series 6 Filter retaining ring. Use with Universal Focusing Mount #16,464
- 11,026 **90mm Elmarit f/2.8** lens unit for use on Visoflex II or III only. Used with Universal Focusing Mount #16,464
- 11,132 **90mm Summicron f/2** lens unit only, in black finish, with preset diaphragm (without focusing mount), for use with universal focusing mount #16,462 on Visoflex III .....
- 11,828 **135mm Elmarit f/2.8** lens head only in black finish (without focusing mount), with built-in collapsible lens hood and filter retaining ring to accept series 7 filters. Use with universal focusing mount #16,462....
- 11,852 **135mm Tele-Elmar f/4** lens unit for use on Visoflex II or III only. Used with universal focusing mount #16,464 .....
- 11,063 **200mm Telyt f/4** short mount, includes pre-set diaphragm built-in collapsible lens hood and lens hood cap requires adapter #16,466 for use on Visoflex II & III .....
- 11,914 **280mm Telyt f/4.8** in parallel focusing mount with tripod socket; matte black finish, pre-set diaphragm; built-in collapsible lens hood and Series 8 Filter retaining ring .....
- 11,966 **Telyt 400mm f/6.8** lens for use directly on Visoflex II or III. With rapid sliding focusing and push-button locking mechanism .....
- 11,864 **Telyt 560mm f/6.8** lens for use directly on Visoflex II or III. With rapid slide focusing and pushbutton locking mechanism .....
- 14,182 **Extension Tube 60mm** for close-up with 400mm and 560mm f/6.8 Telyt lenses .....



11 162



11 026



11 828



11 063



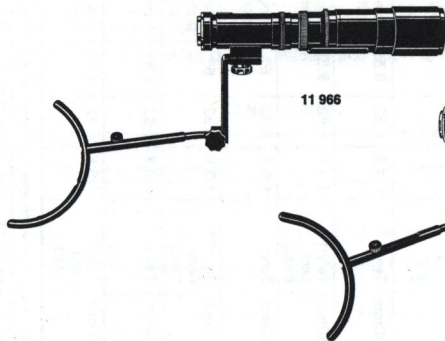
11 914



11 966



11,864



## DATA FOR VISOFLEX II AND III LENSES\*

Focal Length	Lens	Aperture Max.	Aperture Min.	Angle	Class	Click Diaphragm	Flange Diameter.	Filter Designation	Weight Ounces	Min. Focus	Approx. Min. Focus Area (In.)	Application
65mm	Elmar	f/3.5	f/22	36°	Standard Med. Long	Yes incl. 1/2 stops		Series 6	4 1/2 (less focusing mt.)	13"	2.25 x 3.25	General Close-up Copying
90mm	Elmarit Lens Head	f/2.8	f/22	27°	Medium Long focus	Yes	42mm	E39	4 1/2 Lens Head Only	19.6"	3 x 4.7	Portraiture Theatrical Existing light Animals
90mm	Summicron	f/2	f/16	27°	Medium Long focus	Yes incl. 1/2 stops	63.5mm	E48	19	3.5'	9.5 x 14.25	
135mm	Tele-elmar	f/4	f/22	18°	Tele-photo	Yes incl. 1/2 stops	42mm	E39	6.75 (less focusing mt.)	5'	8.75 x 13	Sports Distance Portraiture Close-up
200mm	Telyt	f/4	f/22	12°	Tele-photo	Yes (Preset)	65mm	E58	23	10'	11.75 x 17.75	Sports Wild life Distance Portraiture
280mm	Telyt	f/4.8	f/32	8.5°	Tele-photo	Yes (Preset)	65mm	E58	52.3	19'	18 x 27	Distance Wild life Sports
280mm	Telyt** Lens Head	f/4.8	f/32	8.5°	Tele-photo	Yes (Preset)	65mm	E58	21	7' 3"	5.4 x 8.1	Distance Wild life Sports
400mm	Telyt	f/6.8	f/32	6°	Long Focus	Yes		Series 7	45	12'	6 x 9	Distance Wild life Sports
400mm	Telyt** Lens Head	f/5.6	f/32	6°	Tele-photo	**	**	Series 7	22.2	11' 10"	6.4" x 9.6"	Distance Wild life Sports
560mm	Telyt	f/6.8	f/32	4.5°	Long Focus	Yes		Series 7	68	21'	9" x 13.5"	Distance Wild life Sports
560mm	Telyt** Lens Head	f/5.6	f/32	4.5°	Tele-photo	**	**	Series 7	61.2	21' 8"	9.1" x 13.7"	Distance Wild life Sports

\*Removable lens units of certain other Leica lenses can also be used on the Visoflex with proper adapters. See other lens data chart and individual lens listings.

\*\*This lens head must be used with Televid pistol rapid focusing device #14,136 and diaphragm adapter #14,137. The 280mm does not require #14,137 adapter, only bayonet adapter #14,138. The lens heads (except the 280 mm) do not have diaphragms or filter retaining rings. The filter slot for Series 7 filters is in the rapid focusing device.

# VIEW FINDERS AND LENS HOODS

## VIEWFINDERS

Viewfinder frames for lenses from 50mm through 135mm are provided automatically by the range-viewfinder system of the Leica M 3. In the M 2 the 35mm through 90mm lenses are provided for, and in the M 4 and M 5 35mm through 135mm.

But with extreme wide-angle lenses, or with a rangefinder-coupled 135mm lens on the M 2, accessory finders are needed for accurate composition.

Leitz Optical Bright Line viewfinders slip into the camera accessory clip and outline the appropriate picture field with a brilliant white line. Parallax compensation is provided, except in the case of the 21mm finder.

The Sports Frame finders outline the subject area in an open frame. They are especially useful for making action pictures and for general sports work. The frame finders also provide for parallax compensation.

(Carrying cases for the viewfinders are listed with cases for other Leica equipment)

## OPTICAL VIEWFINDERS

Catalog  
Number

Item

- |        |   |
|--------|---|
| 12,002 | Optical Bright-Line Viewfinder for 21mm lens .....    |
| 12,007 | Optical Bright-Line Viewfinder for 28mm lens .....    |
| 12,010 | Optical Bright-Line Viewfinder for 35mm lenses .....  |
| 12,015 | Optical Bright-Line Viewfinder for 50mm lenses .....  |
| 12,025 | Optical Bright-Line Viewfinder for 90mm lenses .....  |
| 12,030 | Optical Bright-Line Viewfinder for 135mm lenses ..... |

## FRAME FINDERS

- |        |  |
|--------|--|
| 12,035 | Sports Frame Finder for 200mm lens ..... |
|--------|--|

## LENS HOODS

The purpose of a lens hood is to protect the clarity, contrast and brilliance which have been designed into your lenses. A lens hood keeps direct light rays — whether from the sun, flood or flash lamp — from hitting the front of the lens, causing internal reflections and loss of contrast in the picture.

Use a lens hood at all times — indoors and out — to keep picture quality high.

## LENS HOODS

- |        |   |
|--------|---|
| 12,501 | Lens Hood for 21mm Super Angulon f/3.4 lens and 28mm Elmarit f/2.8 lens (as replacement) .....  |
| 12,585 | Lens Hood with clamping device for 35mm Summicron f/2 (#11,308 and #11,108), 35mm Summaron f/2.8 (#11,306) and 50mm Summicron lenses complete with plastic dust cap ..... |
| 12,522 | Lens Hood for 35mm Summilux f/1.4 (as replacement for lens #2166700 and below) .....  |
| 12,504 | Lens Hood for 35mm Summilux with serial #2166701 and above and 35mm Summicron f/2 #11,309 (as replacement) .....  |
| 12,586 | Lens Hood for all 50mm Summilux f/1.4 lenses (as replacement) .....   |
| 12,575 | Lens Hood with clamping device for bayonet-mounting 90mm Elmarit, Tele-Elmarit and Elmar and 135mm lenses with 42mm front diameter .....                                  |
| 12,503 | Lens Hood for 50mm Noctilux f/1.2 lens (as replacement) .....   |



12,002



12,007



12,010



12,015



12,025



12,030



12,035



12,501



12,585



12,575

# LENS AND BODY CAPS

## LENS PROTECTION COVERS

Scratched lens surfaces can spoil the definition and contrast of even the finest lenses. Lens covers are the best and most inexpensive protection available against dust, moisture and abrasion. Safeguard lens elements — both front

and rear — whenever the lens is not in use.

Lens-opening covers are used to protect the camera body whenever it is stored or carried without a lens attached.

Catalog Number	Item
14,102	Front Lens Cap, Plastic, for 21mm Super Angulon f/3.4 28mm Elmarit f/2.8 and 50mm Noctilux f/1.2 lenses
14,078	Front Lens Cap, Plastic for 35mm f/1.4 Summilux lens with serial # below 2166701 (fits front lens flange not lens hood) .....
14,143	Front Lens Cap, Plastic cap for 35mm Summilux f/1.4 with serial #2166701 and above .....
14,031	Front Lens Cap, chrome plated, fitting 50mm Summicron and all Leica lenses with 42mm flange diameter)
14,123	Front Lens Cap, black finish, for 50mm Summilux f/1.4 lens (fits front lens flange, 45mm flange dia.) .....
14,036	Front Lens Cap, chrome plated, for 50mm Summilux f/1.4 lens. (Fits front lens flange, not lens hood).....
14,025	Front Lens Cap, for lenses of 36mm flange diameter ...
14,122	Front Lens Cap, black finish, for 50mm Summicron f/2 lens with 42mm flange diameter .....
14,033	Front Lens Cap. Fits over rear of Lens Hood #12,585 for 35mm and 50mm lenses when hood is reversed for storage and for lens hood #12,575 .....
14,037	Front Lens Hood Cap, plastic. Fits lens hood #12,586 for 50mm Summilux .....
14,034	Front Lens Cap, chrome plated, for 65mm Elmar lens (as replacement) .....
14,153	Front Lens Cap, black for 65mm Elmar (as replacement) .....
14,028	Front Lens Cap, chrome finish, for 90mm Summicron f/2 lenses with serial numbers 1,651,00 or over and 135mm f/2.8 .....
14,124	Front Lens Cap, for 90mm f/2 and 135mm f/2.8 same as 14,028 but in black finish .....
14,044	Front Lens Cap, for 200mm f/4 Telyt lens .....
14,079	Front Lens Cap, for 280mm f/4.8 Telyt lens .....
14,046	Front Lens Cap, black finish, for 400mm f/5 Telyt lens.
14,140	Front Lens Cap, for 400mm f/5.6 lens .....
14,152	Front Lens Cap, for 400mm f/6.8 lens .....
14,141	Front Lens Cap, for 560mm f/5.6 lens .....



14,031



14,051



14,056

## REAR COVERS

14,042	Rear Lens Cap, for bayonet-mounting 21mm Super Angulon, 28mm Elmarit and Stemar lenses .....
14,051	Rear Lens Cap, plastic, for all bayonet-mounting lenses (except 21mm lens) and Visoflex .....
14,074	Rear Lens Cap, for 65mm Elmar .....
14,050	Rear Lens Cap, for all Visoflex lenses with screw mount
14,166	Rear Lens Cap, for 400mm f/5.6 and 560mm f/5.6 lens heads .....

## CAMERA COVERS

14,056	Lens Opening Cover, for Leica cameras having bayonet-type lens flange .....
14,055	Lens Opening Cover, black, for screw mounting cameras .....

## CORRECTION LENSES

Special correction lenses are available for the eyepiece of the range-viewfinder of the Leica to correct the system for your individual eyesight, should you be one of the many who normally wear glasses. With such a lens, you can use your camera accurately and conveniently without using eyeglasses. Please provide a prescription for your "camera eye" when ordering correction lenses.

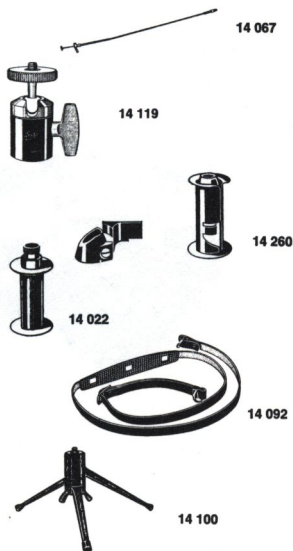
**Note:**

Correction lenses are custom-made accessories and are available on special order only. Prescription for the eye used must be furnished when ordering. Delivery: 8-12 weeks.

Catalog Number	Item
14,061	Correction Lenses for Leica M2, M3 and M4. To correct near and far sightedness .....
14,062	Correction Lenses for Leica M2, M3 and M4. To correct astigmatism .....
14,063	Correction lenses for 4X and 5X magnifiers for Visoflex I and II. Corrects for near- and far-sightedness .....
14,118	Correction Lens for Visoflex III magnifier #16,499. Corrects for near- or far-sightedness. Prescription for eye to be used must be furnished with order .....

## MISCELLANEOUS ATTACHMENTS

14,067	Cable Release (10 inches) with locking screw for bayonet-mounting Leica cameras .....
14,076	Cable Release (20 inches) with locking screw for bayonet-mounting Leica cameras .....
14,070	Cable Release (10 inches) with locking screw for all screw mounting Leica cameras .....
14,075	Cable Release (20 inches) with locking screw for all screw mounting Leica cameras .....
14,021	Take-Up Spool with pop-up knob for If, IIf, and IIIIf and earlier Leica Cameras .....
14,022	Take-Up Spool (marked "M") with pop-knob for Leica "M" models and Ig and IIIg .....
14,260	Rapid Loading Spool with film positioning adapter for Leica cameras M2, M3, M1, and MD (not for M4, M2R, MDa or motorized cameras) .....
	<b>Note:</b> Film positioning adapter supplied with the spool must be attached to the baseplate of the camera.
14,092	Adjustable Neck Strap for all Leicas except M5 .....
14,190	Carrying Strap, for Leica M5 (replacement) .....
14,100	Table Tripod without ball-and-socket head .....
14,119	Ball-and-Socket Head, small .....
14,168	Ball-and-Socket Tripod Head, large rigid construction .....
14,130	Adjustable Heavy Duty Shoulder Strap with two tripod screws for use with camera and equipment with tripod screw receptacle .....
14,054	Syncro Outlet Cover for Leica Cameras MD, M1, M2, and M3 .....
15,526	Syncro Outlet Cover for Leica MDa, M4 and the Leicaflex .....
14,183	Double Syncro Outlet Cover, for Leica M5 (replacement) .....



# FLASH CONNECTION CABLES

## FLASH CONNECTION CABLES FOR USE WITH LEICA MD, M1, M2 & M3 CAMERAS

98,341	6" Connecting cord with locking type camera nipple and standard plug (similar to 2-prong household plug) for electronic flash units .....
98,342	Same as #98,341 but 12" long .....
98,343	Same as #98,341 but 24" long .....
98,344	Same as #98,341 but 36" long .....
98,345	Same as #98,341 but 6' long .....
98,346	Same as #98,341 but 10' long .....
98,347	Same as #98,341 but 15' long .....
98,348	Coiled connecting cord with locking type camera nipple having a 4" coiled section that will extend to 24" with standard plug (similar to 2-prong household plug) for electronic flash units .....
98,349	Same as #98,348 but has 8" coiled section extending to 48" .....

## FLASH CONNECTION CABLES FOR USE WITH LEICA MDa, M4 & LEICAFLEX CAMERAS

98,351	6" Connecting cord with locking type camera nipple and standard plug (similar to 2-prong household plug) for electronic flash units .....
98,352	Same as #98,351 but 12" long .....
98,353	Same as #98,351 but 24" long .....
98,354	Same as #98,351 but 36" long .....
98,355	Same as #98,351 but 6' long .....
98,356	Same as #98,351 but 10' long .....
98,357	Same as #98,351 but 15' long .....
98,361	Coiled connecting cord with locking type camera nipple having a 4" coiled section that will extend to 24" with standard plug (similar to 2-prong household plug) for electronic flash units .....
98,362	Same as #98,361 but has 8" coiled section extending to 48" .....

## FLASH CORDS FOR CEYOO FLASH UNITS

98,371	Coiled connecting cord for CEYOO flash unit. Coiled section is 4 inches long and will extend to 24 inches with right angle connector for M cameras (except M4, M5, and MDa) .....
98,372	Coiled connecting cord for CEYOO flash unit. Coiled section is 4 inches long and will extend to 24 inches with right angle PC connector (for M4, M5, MDa and Leicaflex) .....

# LEICAFLEX CAMERAS

The Leicaflex and the Leicaflex SL answer the demand for a system of single-lens reflex photography which has the same superb quality and the Leica rangefinder system. The Leicaflexes are eye-level 35mm reflex cameras featuring a virtually vibration free, instant return mirror, and rapidly interchangeable auto-aperture lenses that remain wide open when focusing and viewing, closing down to a preselected aperture as the picture is taken, and reopening instantly.

## LEICAFLEX SL

The Leicaflex SL is the new model that incorporates through-the-lens light measurement, full field focusing, depth-of-field preview button and rapid almost automatic film loading. The Leicaflex SL can not be motorized. However the Leicaflex SL Flash MOT, a motorized version, is available.

- 1/2000 of a second shutter speed
- Electronic flash synchronization up to 1/100 of a second
- Automatic resetting counter-counts backwards when rewinding
- ASA speeds 8-6400 coupled to the meter

## LEICAFLEX

The Leicaflex is a less expensive model offer-

ing Leica quality with these features:

- Brilliant viewfinder and accurate focusing system
- 1/2000 of a second shutter speed
- Automatic resetting counter
- Electronic flash synchronization up to 1/100 of a second
- Built-in external coupled CdS meter

## ELPRO CLOSE-UP LENSES

The Elpro close-up lenses for the Leicaflex are two-element achromats especially designed for the prime lenses with which they are used. They are threaded into the front of the basic lens.

The Elpros retain the superb performance of the Leicaflex lenses in the close-up area and also permit the automatic diaphragm of the lenses to function. And, since they require no bellows extension, Elpro-close-up photography requires no increased exposure factors.

## LEICA-TO-LEICAFLEX LENS ADAPTER

A Leica-to-Leicaflex adapter will permit the use on the Leicaflex and the Leicaflex SL lenses designed for the Leica Visoflex. It will also permit the use of the Leica Bellows II on these cameras.

## LEICAFLEX CAMERAS

Catalog Number	Item
10,011	Leicaflex SL, without lens .....
10,012	Leicaflex SL, in black finish, without lens .....
10,228	Leicaflex SL, with 50mm Auto-Aperture Summicron-R f/2 lens, reversible lens hood and Series 6 Filter Retaining Ring .....
14,558	Eveready Carrying Case, brown leather for Leicaflex and Leicaflex SL with 35mm f/2.8 or 50mm f/2 lens attached and lens hood reversed, or with 28mm f/2.8 without lens hood, or 50mm f/1.4 without lens hood





# LEICAFLEX LENSES

The Leicaflex lenses in this catalog are for use on both the Leicaflex and Leicaflex SL. See note on next page regarding modifying the previously offered Leicaflex R lenses for use with the Leicaflex SL.



11 813



11 204



11 227



11 201



11 202



11 875



11 228



11 219



11 239

**Catalog**

Number

**Item**

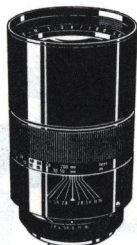
- 11,813 21mm Auto-Aperture Super Angulon-R f/4 lens. Its retrofocus design permits viewing and focusing through the lens .....
- 11,204 28mm Auto-Aperture Elmarit-R f/2.8 lens, supplied with rectangular lens hood which is attached with a bayonet lock; accepts Series 7 filters held by lens hood.
- 11,227 35mm Auto-Aperture Summicron-R f/2 lens, supplied with rectangular lens hood which is attached with a bayonet lock; accepts Series 7 filters held by lens hood; also accepts E48 filters .....
- 11,201 35mm Auto-Aperture Elmarit-R f/2.8, complete with Series 6 Filter Retaining Ring, reversible lens hood and lens cap .....
- 11,202 35mm PA Curtagon-R f/4 lens. This lens has a ring-set lateral shift calibrated in mm from 0 to 7. The lens barrel can be rotated through 360°, with clicks at each 90° position, permitting as much as a 7mm vertical rise or fall, or a sideways shift to the right or left. It has no automatic diaphragm. Supplied with a lens hood which accepts Series 8 filters .....
- 98,000 45-90mm Angenieux-R f/2.8 lens, black finish, complete with lens hood that accepts series 8 filters .....
- 11,875 50mm Auto-Aperture Summilux-R f/1.4 lens, supplied with rectangular lens hood which is attached with a bayonet lock; accepts Series 7 filters held by lens hood.
- 11,228 50mm Auto-Aperture Summicron-R f/2, complete with Series 6 Filter Retaining Ring, reversible lens hood and cap .....
- 11,219 90mm Auto Aperture Summicron-R f/2 lens, with filter retaining ring (14,161) for Series 7 filters, built-in collapsible lens hood, lens cap and rear lens cap .....
- 11,239 90mm Auto-Aperture Elmarit-R f/2.8, complete with Series 7 filter Retaining Ring, built-in collapsible lens hood and lens cap .....

# LEICAFLEX LENSES

Catalog Number	Item
11,211	135mm Auto-Aperture Elmarit-R f/2.8, complete with Series 7 Filter Retaining Ring, built-in collapsible lens hood and lens cap .....
11,919	180mm Auto-Aperture Elmarit-R f/2.8 lens with collapsible lens hood and lens cap and Series 8 Filter Retaining Ring .....
11,920	250mm Auto-Aperture Telyt-R f/4 lens with built-in collapsible lens hood which accepts Series 8 filters held by retaining ring .....
11,960	Telyt-R 400mm f/6.8 lens for use directly on Leicaflex SL. With rapid sliding focusing and push-button locking mechanism .....
11,865	Telyt-R 560mm f/6.8 lens for use directly on Leicaflex SL, with rapid sliding focusing and pushbutton locked mechanism .....
14,182	Extension tube 60mm for close-up with 400mm and 560mm f/6.8 Telyt lenses .....



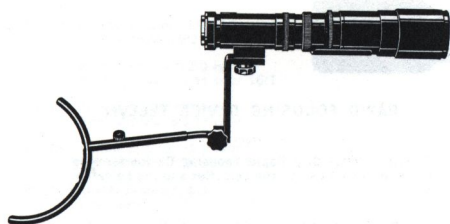
11 211



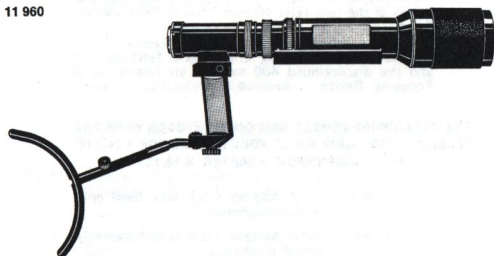
11 919



11 920



11 960



11 865

# LEICAFLEX LENSES

## FORMER LEICAFLEX LENSES

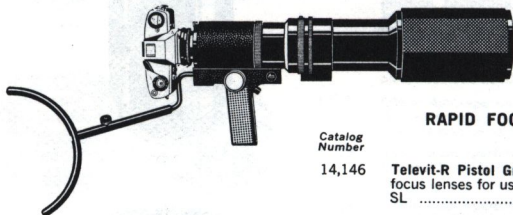
The Leicaflex lenses previously offered do not properly activate the follow-pointer of the meter in the viewfinder, in the Leicaflex SL. These lenses may be modified to work with the Leicaflex SL.

## LEICA LENS ADAPTER

- 14,167 **Lens Adapter** adapts Leica lenses for Visoflex II and III as well as Bellows II to Leicaflex SL. Lenses which require adapter #16,466 for use on Visoflex II or III will also require it for use with this Leicaflex SL lens adapter .....

Note: The Leica lens adapter listed below carries a star designation after the catalog number. It can be used on both the Leicaflex and Leicaflex SL. The diaphragm simulator in this adapter is only used with the Leicaflex. It has no function when used with the Leicaflex SL. The adapter previously offered without the star does not properly activate the meter of the Leicaflex SL. The previous adapters without the star can be modified for the Leicaflex SL.

- 14,127\* **Lens Adapter**, adapts Leica lenses for Visoflex II and III as well as Bellows II to Leicaflex and Leicaflex SL. Lenses which require Adapter #16,466 for use on Visoflex II or Visoflex III will also require it for use with this Leicaflex lens adapter .....



## RAPID FOCUSING DEVICE TELEVIT

Catalog Number	Item
14,146	<b>Televit-R Pistol Grip Rapid Focusing Device</b> for long focus lenses for use on the Leicaflex and the Leicaflex SL .....
14,137	<b>Iris Diaphragm Adapter</b> with preset diaphragm for Televit rapid focusing device. This will accept the lens heads of the new Telyt 400mm f/5.6 or Telyt 560mm f/5.6 .....
14,138	<b>Bayonet Adapter</b> for using lens heads of Telyt 280 mm and the discontinued 400 mm f/5 on Televit Rapid Focusing Device .....

## THE FOLLOWING LENSES CAN ONLY BE USED WITH THE TELEVIT PISTOL GRIP RAPID FOCUSING DEVICE #14,146: PLUS DIAPHRAGM ADAPTER #14,137

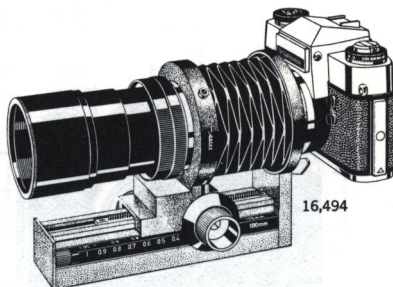
- 11,866 **Telyt 400mm f/5.6 lens head only,**  
w/out diaphragm .....
- 11,867 **Telyt 560mm f/5.6 lens head only,**  
w/out diaphragm .....
- 11,904\* **Telyt 280mm f/4.8 lens head only,**  
with diaphragm .....

\* Note: Requires only bayonet adapter #14,138.

# LEICAFLEX CLOSE-UP EQUIPMENT

## BELLOWS FOR THE LEICAFLEX

Catalog Number	Item
16,860	Leicaflex Focusing Bellows-R, for use with the Leica flex and Leicaflex SL. Permits close-ups with all Leicaflex lenses without adapters, intermediate rings, etc. ....
11,230	100mm Macro-Elmar f/4 lens, complete with series 7 retaining rings for use with Leicaflex Focusing Bellows-R. Can be focused from infinity to a ratio of 1:1 .....
16,494	Double Cable Release for Leicaflex Bellows-R.....
16,863	Adapter Ring for Focusing Bellows-R, accepting lens heads of 65mm Elmar, 90mm Elmarit, and 135mm Tele-Elmar .....



## PHOTAR LENSES

The Photar lenses are macro lenses corrected for use in the close-up and macro ranges.

549017*	Photar 12.5mm f/1.9 lens — from approx. 15:1 to over 30:1 .....
549018*	Photar 25mm f/2.5 lens — from approx. 7:1 to over 16:1 .....
549019*	Photar 50mm f/4 lens — from approx. 3:1 to over 8:1 .....
549020**	Photar 50mm f/2.8 lens — from approx. 3:1 to over 8:1 .....
549021**	Photar 80mm f/4.5 lens — from approx. 1:1 to over 4:1 .....
549022**	Photar 120mm f/5.6 lens — from approx. 1:2 to over 2:1 .....

\*Require adapters #500935 and #542151 for use on Bellows-R

\*\*Require adapter #500935 for use on Bellows-R



16,863

## ADAPTERS FOR PHOTAR LENSES

500935	Adapter Ring, adapts Photar lenses 50mm f/2.8, 80mm and 120mm to Bellows-R .....
542151	Intermediate Ring, adapts Photar lenses 12.5mm, 25mm, and 50mm f/1.4 to #500935 adapter ring for use with Bellows-R .....

# LEICAFLEX MOTOR



## MOTOR DRIVE FOR LEICAFLEX SL

- 14,077 **Leicaflex Motor** for use with Leicaflex SL/Mot only
- 10,013 **Leicaflex SL/Mot, body only, black finish, for use with motor drive, catalog #14,077.** Note: The SL/Mot body does not have a self-timer and camera bodies above number 1,275,360 do not have exposure meter battery disconnect switch on film advance lever .....

## ACCESSORIES FOR LEICAFLEX SL MOTOR DRIVE

- 22,226 **Remote Electronic Control Unit** for release of single or multiple exposures and controlled sequence photography .....
- 14,187 **Connecting Cord** connects SL/Mot to electronic control unit .....
- 50mm Lens reproduction ratio 1:1  
90mm Lens reproduction ratio 1:1.3  
135mm Lens reproduction ratio 1:2.1 .....
- 14,148 **Tripod Bracket** .....
- 14,181 **Hand Grip** .....
- 14,175 **Connecting Cable.** This serves to connect the battery power pak 14,174 or other power supply units and 12 V storage batteries for the Leicaflex motor. It has a built-in safety device to protect the motor against too high an amperage. It is coiled, 10" long and can be extended to 3½ ft. ....
- 14,177 **Remote Control Release** with exposure counter, without connecting cable .....
- 14,176 **Remote Control Release,** with connecting cable 8 ft. long .....
- 14,179 **Extension Cord** for remote control release 14,176 and 14,177, 16 ft. long .....
- 14,178 **Extension Cord,** same as above, 80 ft. long .....
- 14,147 **Battery Housing** for Leicaflex Motor (as replacement)
- 14,180 **Twin Cable.** This can be used to connect two control units, such as radio control and counter .....
- 14,185 **Tandem Coupling Device** for 2 Leicaflex SL MOTs. Will be available in the spring of 1971 .....
- 14,186 **90° Finder** for Leicaflex, imarect type (right side up, left and right not reversed) .....
- 98,105 **NC battery pack** for Leicaflex Motor complete in battery housing .....
- 98,106 **Battery charger** built into a housing with a plug to fit standard outlet with connecting cord and plug to the battery .....



16,531

# LEICAFLEX CLOSE-UP LENSES

## ELPRO CLOSE-UP LENSES

Leicaflex Lens	ELPRO	Catalog Number And Price	Dis-tance Scale Setting	Approx. Distance Subject to film Subject to ELPRO in inches		Field covered (inches)	Repro-duction ratio	Depth of Field (inches)		
				f/8	f/11			f/16		
50mm SUMMICRON-R 1/2	Via	16,531	∞	19-11/16	16-1/16	7-1/4 x 10-7/8	1:7.7	1-3/8	1-7/8	2-3/4
			20°	12-1/8	8-1/4	3-5/8 x 5-7/16	1:3.8	25/64	9/16	25/32
	Vib	16,532	∞	11-7/8	8-3/16	3-11/16 x 5-9/16	1:3.9	13/32	9/16	13/16
			20°	9-1/2	5-9/16	2-7/16 x 3-11/16	1:2.6	3/16	9/32	3/8
90mm ELMARIT-R 1/2.8	Vila	16,533	∞	29-1/16	24-1/16	6-5/16 x 9-1/2	1:6.7	1-1/16	1-1/2	2-1/8
			28°	17-7/16	11-13/16	2-7/8 x 4-5/16	1:3.0	17/64	3/8	17/32
135mm ELMARIT-R 1/2.8	Vilb	16,534	∞	59	53-1/4	9-5/16 x 14	1:9.9	2-1/4	3-1/8	4-1/2
			5	33-1/2	27-3/16	4-1/4 x 6-3/8	1:4.5	17/32	23/32	1-1/16
	Vila	16,533	∞	29-13/16	24-1/16	4-1/4 x 6-3/8	1:4.5	17/32	23/32	1-1/16
			5°	23-1/8	16-13/16	2-5/8 x 3-15/16	1:2.8	7/32	5/16	7/16

Focusing data are given for ∞ and the shortest engraved distance setting of the Leicaflex lenses. Since the lenses can slightly exceed these engraved settings, somewhat higher reproduction ratios can be obtained than are shown in this table. All figures are approximate, having been rounded off for convenience.

Catalog Number

Item

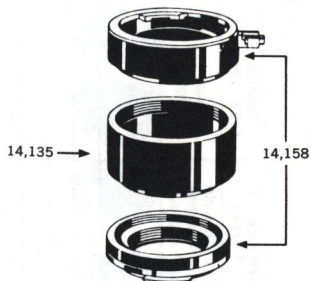
14,158 Divisible Extension Ring for closeup photography for the Leicaflex system with semi-automatic spring-loaded aperture coupling — for lenses from 50mm to 135mm; used with dual cable release that closes down the aperture to pre-selected position before release of shutter.

50mm Lens reproduction ratio 1:1  
 90mm Lens reproduction ratio 1:1.3  
 135mm Lens reproduction ratio 1:2.1 .....

16,494 Double Cable Release .....

14,135 Extension Tube for 14,158 increasing lens extension so as to focus as close as 7 15/16" ratio 1:1. (Fits between two rings of 14,158 and discontinued 14,134)

**NOTE:** ELPRO lenses Via and Vib can be used on the 50mm Summicron-R lens, in addition to the extension rings to further reduce the working distance. Maximum ratio obtainable with ring plus ELPRO Vib combination 1:2.1



## LEICAFLEX LENS DATA

Lens	Super-Angulon-R f/4 21mm	Elmarit-R f/2.8 28mm	Summicron-R f/2 35mm	Elmarit-R f/2.8 35mm	PA Cartagon-R f/4 35mm	Summilux-R f/1.4 50mm	Summicron-R f/2 50mm
Description	ultra-wide angle lens with extreme-large field of view	wide angle	wide angle	wide-angle lens	wide angle with parallel displacement	fast universal lens	universal lens
Angle of View	92°	76°	64°	64°	63° angle of coverage 78°	45°	45°
Number of Elements	10	8	9	7	7	7	6
Filter Size: Series	8½	7	7	6	8	7	6
Smallest Aperture	f/22	f/22	f/16	f/22	f/22	f/16	f/16
Focusing Range	∞ - 8"	∞ - 12"	∞ - 12"	∞ - 12"	∞ - 12"	∞ - 20"	∞ - 20"
Smallest Object field	approx. 6 x 8.75"	7.4 x 11.1"	5.5 x 8.25"	approx. 5.75 x 8.5"	5.5 x 8.25"	7.15 x 10.7"	approx. 7.25 x 10.75"
Lens hood	clip-on	clip-on	clip-on	clip-on, reversible	clip-on	clip-on	clip-on, reversible

Summicron-R f/2 90mm	Elmarit-R f/2.8 90mm	Elmarit-R f/2.8 135mm	Elmarit-R f/2.8 180mm	Telyt-R f/4 250mm	Telyt-R f/6.8 400mm	Telyt-R f/6.8 560mm	Angenieux-R f/2.8 45 - 90mm
fast, medium long focal length	medium long focal length	telephoto lens	fast telephoto lens	telephoto	long focus	long focus	zoom lens
27°	27°	18°	14°	10°	6°	4.5°	51° - 27°
5	5	5	5	6	2	2	15
7	7	7	8	8	7	7	8
f/16	f/22	f/22	f/16	f/22	f/32	f/32	f/22
∞ - 28"	∞ - 28"	∞ - 5'	∞ - 6'8"	∞ - 13'	∞ - 12'	∞ - 21'	∞ - 3'3"
5.75 x 8.25"	5.75 x 8.25"	9.75 x 13.25"	8.5 x 12.75"	14.5 x 21.7"	6.3 x 9.5"	9 x 13.5"	approx. 8 x 12"
built-in telescopic	built-in telescopic	built-in telescopic	built-in telescopic	built-in telescopic	built-in telescopic	built-in telescopic	clip-on

# LEICAFLEX ACCESSORIES

## MISCELLANEOUS LEICAFLEX ACCESSORIES

Catalog Number	Item
14,186	90° Finder for Leicaflex, imarect type (right side up, left and right not reversed)
14,612	Plastic Filter Box for Series 6 filters
14,614	Plastic Filter Box for Series 7, 8 and polarizing filters
15,526	Synchro-Outlet Cover for Leicaflex flash outlets
14,067	Cable Release (10 inches), with locking screw
14,076	Cable Release (20 inches), with locking screw
14,092	Adjustable Neck Strap, leather with shoulder grip
14,130	Adjustable Heavy Duty Shoulder Strap with two tripod screws for use with camera and equipment with tripod screw receptacle
14,118	Correction Lens for Leicaflex eyepiece. Corrects for near or far-sightedness. Prescription for eye to be used must be furnished with order (Correction lenses are custom-made accessories and are available on special order only. Prescription for the eye used must be furnished when ordering. Delivery: 8-12 weeks.)

## REPLACEMENT PARTS

14,160	Filter Retaining Ring, Series 6, for 35mm Elmarit-R f/2.8 lens and 50mm Summicron-R f/2 lens (as replacement)
14,161	Filter Retaining Ring, Series 7, for 90mm Elmarit-R f/2.8, 100mm Macro-Elmar f/4 and 135mm Elmarit-R f/2.8 lens (as replacement)
14,165	Filter Retaining Ring, Series 8 for 180mm (as replacement) and 400mm f/6.8 lenses
14,169	Filter Retaining Ring for 280mm
12,511	Lens Hood for 21mm R f/3.4 lens (as replacement)
14,107	Front lens cap for 21mm R f/3.4 lens (as replacement) fits over rim of reversed lens hood
12,506	Lens Hood for 21mm Super-Angulon-R f/4 retro-focus lens (as replacement)
14,145	Front Lens Cap for 21mm Super-Angulon-R f/4 retro-focus lens (as replacement)
12,509	Lens Hood for 28mm Elmarit-R f/2.8 lens and for 35mm Summicron-R f/2 lens. (As replacement)
14,172	Front Lens Cap for 28mm Elmarit-R f/2.8 and 35mm Summicron-R f/2 and 50mm f/1.4 lenses
12,564	Lens Hood, reversible, clamp-on type for 35mm Elmarit R f/2.8 and 50mm Summicron-R f/2 lenses. Includes lens cap (as replacement)
14,163	Front Lens Cap for 35mm Elmarit-R f/2.8 and 50mm Summicron-R f/2 lenses. Fits over rim of reversed lens hood (as replacement)
12,514	Lens Hood for 35mm PA Curtagon-R f/4 lens. (As replacement)
14,184	Front Lens Cap for 35mm PA Curtagon-R f/4 lens
14,171	Front lens cap for 50mm Summilux-R f/1.4 lens (as replacement) fits over rim of reversed lens hood
12,508	Lens Hood for 50mm Summilux-R f/1.4 lens. (As replacement)
14,144	Front Lens Cap for 90mm Summicron-R f/2 lens
14,089	Front Lens Cap for 90mm, 100mm Macro-Elmar f/4 and 135mm Elmarit-R f/2.8 lenses. Fits over rim of built-in lens hood (as replacement)



14 186



14 067



14 092

**NOTE**

For Camera & Lens Cases: See "Carrying Cases" Section

For Filters: See "Filter Section"



12 506



12 509



12 564



12 514



12 508



# LEICAFLEX ACCESSORIES

<i>Catalog Number</i>	<i>Item</i>
14,166	Front Lens Cap for 180mm Elmarit-R and 250mm Telyt-R lenses (as replacement) .....
14,152	Front Lens Cap for 400mm Telyt and Telyt-R f/6.8 lenses .....
14,128	Mallory PX-625 (with white ring) for Leicaflex exposure meter (as replacement) .....
14,162	Rear Lens Cap for Leicaflex lenses except 21mm f/3.4 lens .....
14,106	Rear Lens Cap for 21mm Super Angulon-R f/3.4 lens ....
14,103	Lens Opening Cover, plastic, for Leicaflex. (As replacement) .....

## FLASH CONNECTION CABLES FOR USE WITH LEICA Mda, M 4 & LEICAFLEX CAMERAS

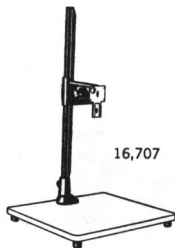
98,351	6" Connecting cord with locking type camera nipple and standard plug (similar to 2-prong household plug) for electronic flash units .....
98,352	Same as #98,351 but 12" long .....
98,353	Same as #98,351 but 24" long .....
98,354	Same as #98,351 but 36" long .....
98,355	Same as #98,351 but 6' long .....
98,356	Same as #98,351 but 10' long .....
98,357	Same as #98,351 but 15' long .....
98,361	Coiled connecting cord with locking type camera nipple having a 4" coiled section that will extend to 24" with standard plug (similar to 2-prong household plug) for electronic flash units .....
98,362	Same as #98,361 but has 8" coiled section extending to 48" .....

## FLASH CORD FOR CEYOO FLASH UNIT

98,372	Coiled connecting cord for CEYOO flash unit. Coiled section is 4 inches long and will extend to 24 inches with right angle PC connector (for M4, MDa and Leicaflex) .....
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## COPYING STAND

16,707 **Copying Stand**, baseboard 18x19 $\frac{3}{4}$ " , upright 31 $\frac{3}{4}$ " high with parallel guide, carrying arm with coarse and fine adjustment, accepting all Leica cameras with Visoflex II (with or without Leica Bellows Device II), Leica "M" cameras with Visoflex III (with or without Leica Bellows II), Leicaflex and Leicaflex SL with or without Bellows



# CARRYING CASES

Carrying cases not only protect, but organize your equipment for convenient use. There are available individual eveready cases for your camera, accessories and lenses, as well as fitted combination cases for complete photo outfits. The Leitz Universal Carrying Case will accommodate a wide variety of Leica and Leicaflex equipment.

## LEICA CAMERA CASES

Catalog  
Number

Item

- 14,526 Eveready Case in brown leather for Leica M 2, M 3, or M 4 with 35mm lenses requiring Optical Viewing Unit or 50mm Dual-Range Summicron, each with Optical Viewing Unit attached. Also with MR meter .....
- 14,534 Eveready Case (black leather) for Leica M 4, M 3, M 2 or M 1 with Leica Meter MR attached and lenses up to 50mm focal length including 50mm DR and 35mm RF lenses .....
- 14,538 Soft Leather Eveready Case with Zipper, without strap, for Leica M4, M3 and M2 with 50mm lenses (requires neck strap #14,092) .....
- 14,541 Soft Leather Eveready Case, for Leica M5 .....
- 14,094 Shoulder Grip for strap of Eveready case. Will fit carrying straps up to 1/2 inch wide .....

## LEICA COMBINATION CASES

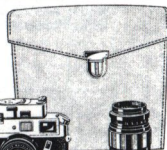
- 14,820 Combination Case, for Leica M 2, M 3 or M 4 and 35, 50 and 90mm or 35, 50 and 135mm lenses. Lens coupling ring #98205 included .....
- 98,205 Lens Coupling Ring, holds two bayonet-mounted Leica lenses back to back for storage in carrying case .....
- 14,807 Universal Carrying Case III with Insert I, for 2 Leica cameras and accessories as follows:  
 1 - Leica M body  
 2 - Leica M with Leicameter and 35mm lens, or 50mm lens, or 90mm Tele-Elmarit, lens hood, lens caps  
 3 - three filter boxes #14,612  
 4 - 135mm f/4 lens with lens hood & lens cap  
 5 - 21mm or 28mm lens with lens hood & lens cap  
 6 - 90mm f/2 lens or 135 mmf/2.8 lens coupled with one 35 mm lens with lens cap but without lens hood or with one 90mm f/4 or 90mm f/2.8 lens coupled with one 35mm or 50mm lens with lens hood and lens cap  
 7 - Optical viewing unit for 50mm f/2 lens  
 8 - Viewfinder for 21mm or 28mm lens  
 9 - other accessories (see sketch) .....
- 14,808 Universal Carrying Case III with Insert II, accommodating the following:  
 1 - Leica M with Visoflex II or III with magnifier and universal focusing mount #16,464 or #16,467, or adapter #16,466  
 2 - universal focusing mounts #16,464 or #16,467 or adapter #16,466  
 3 - Leicameter  
 4 - 90mm f/2 lens or 65mm f/3.5 lens with lens caps  
 5 - 135mm f/4 lens or 90mm f/4 lens or 90mm f/2.8 lens with lens hoods and lens caps  
 6 - 200mm lens with lens cap  
 7 - one each adapter #16,471 and #16,472  
 8 - other accessories (see sketch) .....



14,526



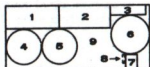
14,534



14,820



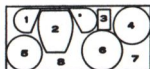
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# CARRYING CASES

## COMPONENT PARTS LEICA COMBINATION CASES

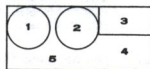
Catalog Number	Item
14,815	Universal Carrying Case III, without insert .....
14,817	Insert I for Universal Carrying Case III .....
14,818	Insert II for Universal Carrying Case III .....
98,094	Shoulder Grip for strap of Universal Case .....

## LEICAFLEX CARRYING CASES

14,558	Everyready Carrying Case, brown leather, for Leicaflex and Leicaflex SL with 35mm Elmarit-R or 50mm Summilux-R lens attached and lens hood reversed or with camera and 28mm Elmarit-R or 50mm Summilux-R without lens hood, for the lens hoods of these lenses use case #14,621 .....
14,621	Leather Case for the lens hood of the Elmarit-R 28mm f/2.8 or the Summilux-R 50mm f/1.4 lenses .....
14,809	Universal Carrying Case III, with Insert III and coupling ring #98204 for Leicaflex and Leicaflex SL equipment, accommodating the following: 1 — a 90mm lens, coupled with a 35mm or a 50mm lens with lenshood and lens cap, 2 — a 135mm lens, coupled with a 50mm or 35mm lens with lenshood and lens cap, one 180mm lens with lens cap, or 250mm with lens cap, 3 — a Leicaflex with a 35mm or 50mm lens attached, with lenshood and lens cap, 4 — four Elpro close-up lenses, each in its leather case, 5 — other accessories .....
98,204	Coupling Ring holds 2 Leicaflex lenses back to back for storage in carrying case .....
14,815	Universal Carrying Case III without insert .....
14,819	Insert III for Universal Carrying Case III. Holds equipment described in Cat. #14,809 above .....
14,822	Leicaflex Combination Case, accommodating the following: A Leicaflex or Leicaflex SL Body with a 35mm, 50mm or 90mm lens in position. Also one 90mm or 35mm lens, coupled with 35mm or 50mm lens, one 180mm lens, or one 250mm lens. Below the Leicaflex with lens in position the following can be accommodated. A 50mm lens or Elpro close-up lenses or filters in containers or films .....
14,094	Shoulder Grip for strap of Eveready case. Will fit carrying straps up to ½ inch wide .....
98,094	Shoulder Grip for strap of Universal Case .....
98,280	Tote Bag — Collapsible canvas bag, with carrying strap .....



14,809



14,822

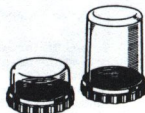
# LENS CASES

## LEATHER CASES FOR LEICA M LENSES

Catalog Number	Item
98,282	Leather Case #2; accepts 50mm Summacron-R, 35mm Elmarit-R, or 21mm Super Angulon f/3.4 for M cameras .....
98,291	Case #11, for 50mm Summicron f/2, or 50mm Elmar (f/2.8 or f/3.5) or 35mm Summilux f/1.4 (without optical viewing unit), or 35mm Summicron f/2 (without optical viewing unit), or 35mm Summaron f/2.8 (without optical viewing unit) — all with lens hood attached .....
<b>NOTE:</b> For 50mm Summilux f/1.4 use case #2, Catalog #98,282 listed under Leixaflex lens cases.	
98,292	Leather Case #12: Accepts 135mm Tele-Elmar lens or 90mm Elmarit lens with lens hood attached .....
98,293	Leather Case #13: Accepts 135mm f/2.8 Elmarit with optical view unit .....
98,294	Leather Case #14: Accepts the following coupled lens combinations: One combination only. Coupling ring #98,205 not included. 135mm Tele-Elmar f/4 plus 50mm, f/2 or f/1.4; 135mm Tele-Elmar f/4 plus 35mm f/2 or f/1.4 90mm Elmarit plus 50mm f/2 or f/1.4; 90mm Elmarit plus 35mm f/2 or f/1.4 .....
14,627	Leather Case for Optical Viewing Unit of Dual-Range 50mm Summicron .....
98,205	Lens Coupling Ring for M lenses .....

## PLASTIC CASES FOR LEICA M LENSES

14,624	Plastic Case for "M" bayonet-mounting 35mm and 50mm lenses without viewing unit .....
14,623	Plastic Case for "M" bayonet-mounting 90mm Tele-Elmarit, Elmar and collapsible lenses .....
14,609	Plastic Case for "M" bayonet-mounting 90mm Elmarit lenses .....
14,608	Plastic Case for "M" bayonet-mounting 135mm Tele-Elmar .....



Plastic Cases

# LENS CASES

## LEATHER CASES FOR LEICAFLEX LENSES

<i>Catalog Number</i>	<i>Item</i>
98,281	<b>Leather Case #1:</b> Accepts 21mm Super Angulon-R with lens hood .....
98,282	<b>Leather Case #2:</b> accepts 50mm Summacron-R, 35mm Elmarit-R, or 21mm Super Angulon f/3.4 for M cameras .....
98,283	<b>Leather Case #3:</b> Accepts 50mm Summicron-R coupled to a 35mm Elmarit-R lens, (coupling ring 98,204 required) will also take the new 90mm f/2 Summicron-R lens .....
98,284	<b>Leather Case #4:</b> Accepts 135mm Elmarit-R or 90mm Elmarit-R lens .....
98,285	<b>Leather Case #5:</b> Accepts the following coupled lens combinations: One combination only. Coupling ring #98,204 not included. 135mm Elmarit-R plus 50mm Summicron-R; 135mm Elmarit-R plus 35mm Elmarit-R; 90mm Elmarit-R or 90mm Summicron-R plus 50mm Summicron-R; 90mm Elmarit-R or 90mm Summicron-R plus 35mm Elmarit-R .....
58,286	<b>Leather Case #6:</b> Accepts 180mm Elmarit-R or 45-90mm Angenieux-R lens .....
98,287	<b>Leather Case #7:</b> Accepts 135mm Elmarit coupled to 90mm Elmarit (lens coupling ring 98,204 not included) or 280mm Telyt lens .....
98,288	<b>Leather Case #8:</b> Accepts Telyt 400mm f/6.8 with shoulder rest, disassembled .....
14,553	<b>Leather Case</b> for one Elpro lens .....
98,204	<b>Lens Coupling Ring</b> for R lenses .....

## PLASTIC LENS CASES FOR LEICAFLEX LENSES

14,616	<b>Plastic Case</b> for 35mm Elmarit-R f/2.8 or 50mm Summicron-R f/2 lens .....
14,618	<b>Plastic Case</b> for 90mm Elmarit-R f/2.8 lens .....
14,619	<b>Plastic Case</b> for 135mm Elmarit-R f/2.8 lens .....

# ACCESSORY CASES

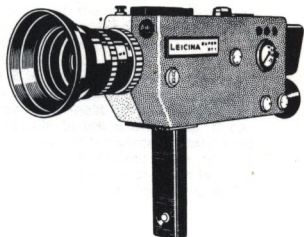
## FILTER CASES

<i>Catalog Number</i>	<i>Item</i>
14,612	Plastic Filter Box with slide-in groove for filter sizes E 39, E 41, E43 and Series 6 .....
14,614	Plastic Filter Box with slide-in groove for filter sizes E48, E58, series 7 & 8 and Leicaflex polarizing filters
14,626	Plastic Filter Box for series 8 1/2 filters .....

## FINDER CASES

14,617	Leather Case for 21mm or 28mm Optical Bright-Line viewfinder .....
14,620	Leather Case for 35mm optical bright-line viewfinder
14,625	Leather Case for 50mm optical bright-line viewfinder
14,630	Leather Case for 85mm, 90mm or 135mm Optical Bright-Line viewfinder .....

The Leicina Super RT-1 is a new Super-8 movie camera with all the features required by the most sophisticated movie maker, whether an advanced amateur or professional. Yet it's so simple to operate, it can be used with casual ease by just about anyone. A conveniently arranged "keyboard" makes the camera especially easy to control. Capabilities include zooming, fading in and out, slow motion, remote control and time-lapse filming.



## FEATURES OF THE LEICINA SUPER RT-1

- Running speeds from 1 to 54 fps
- Continuous automatic TTL exposure, Electronically controlled, with manual override and aperture hold position
- Leitz Vario lens with 2-speed electric zoom, 8:1 focal length ratio
- Automatic fade-in and fade-out
- Large flicker-free reflex viewfinder with split image rangefinder provides constant brightness — a complete information center
- Oversize 11X eyepiece with diopter adjustment
- Single frame counter
- External battery test
- Split-second interchangeable battery pack
- Automatic shut-off at film end
- Film sensitivity range from 25 to 400 ASA
- Electronic keyboard receptacle for electronic control unit

Catalog  
Number

Item

20,513	Leicina Super RT-1 with 8-64mm Leicina Vario f/1.9 lens and lens hood accepting Series 7 Filters (without batteries) .....
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# ACCESSORIES

Catalog Number	Item
22,444	Ever-ready case in soft leather .....
22,226	Electronic-control unit for continuously adjustable slow-motion sequences (from 3 fps to 1 frame per 5 minutes, as well as scene durations from 0.5 to 8 seconds), remote release, built-in 1000 c/s generator, automatic start and stop of the magnetic tape, external power supply, and electronic flash synchronization .....
22,225	Connecting cable from the 9-pin receptacle of the camera to the control unit .....
22,003	Supplementary front lens attachment for close-ups down to focusing distance of 16". Smallest object field 17x22mm .....
14,067	Cable Release (10 inches), with locking screw .....
14,076	Cable Release (20 inches), with locking screw .....
22,224	Housing for 5 pen-light batteries (replacement) .....
22,222	Divisible lens hood (as replacement) accepts Series 7 Filters .....
14,186	90° Finder, imarect type (right side up, left and right not reversed) — bracket #22,221 must be used to adapt to Leicina Super RT1 .....
22,221	Bracket for 90° finder #14,186 .....



14 186

One of the most important secrets of successful photography is correct exposure. And the best way to guarantee proper exposure is to use a photo-electric exposure meter.

Great accuracy and convenience are provided by the Leica-Meter MR-4, which couples to the shutter speed dial of Leica "M" models. It sets the correct shutter speed automatically as you line up the exposure dial for a preselected f/stop. The Leica-Meter MR-4 features a cadmium sulphide photo resistor with extreme sensitivity and has an angle of view which matches that of a 90mm lens. Thus, you can see exactly which part of the scene the meter is "reading" by looking through the 90mm bright-line frame of the Leica viewfinder.

The Metrastar CdS meter, made by Metrawatt of Nuernberg, W. Germany who also make the Leica-

Meters, is an ultrasensitive, hand-held meter. It features a narrow (18°) measuring angle and a built-in reflex viewfinder to insure maximum accuracy in aiming the meter and reading the most important subject areas. Its extreme sensitivity range handles exposures at light levels ranging from moonlight to sunlight on the beach, by either the reflected or incident light method. A direct-reading dial provides fast, one-hand operation.

The Leica-Meter 3 is a small and handy selenium-cell meter which can be slipped into the accessory shoe of any Leica (and most other cameras) but which does not couple to the shutter dial. It can also be carried and used off the camera, and comes with a carrying chain and retainer plate for off-camera use. An accessory booster cell can be used to increase the meter's sensitivity for low-light use.

## LIGHT METERS

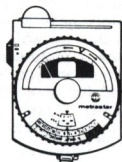
Catalog  
Number

Item

- 14,217 **Leica Meter MR-4**, battery operated with CdS cell and self-locking indicator needle. Has 27° angle of acceptance. Couples to speed dial of Leica "M" models. Complete with Mallory PX 625 "button" battery .....
- 14,218 **Leica-Meter MR-4** in black finish, otherwise same as #14,217 .....
- 14,250 **Metrastar CdS Meter**. Ultrasensitive, handheld exposure meter with extremely wide measuring range. Has selective 18° acceptance angle and matching built-in viewfinder for accurate aiming and reading. Battery operated, one-hand operation. Complete with brown leather eveready carrying case, 43" flexible metal carrying chain and Mallory PX 625 button battery .....



14,217



14,250

## REPLACEMENT AND ACCESSORY PARTS

- 14,213 **Case** for exposure meter MR-4 .....
- 14,128 **Mallory PX625 battery** (with white ring) for MR-4 and Metrastar exposure meters (as replacement) .....

# FILTERS

A filter, properly used, is a creative optical tool which can lift your pictures out of the ordinary and infuse them with drama. But, like a quality lens, a filter must be precisely made — from finest optical glass, carefully ground and polished. Most important of all, it must be thin, with plane-parallel surfaces to avoid disturbing the high correction of the camera lens. A cheap, poorly made filter can cancel out the skills of

even the finest lensmakers.

Leitz filters for black-and-white photography are made from solid optical glass and ground thin (average: .066") to produce maximum sharpness. Polarizing and color-photography filters are laminated. This must be done to achieve the precise transmission characteristics necessary for color work.

## BLACK-AND-WHITE FILTERS

Generally speaking, filters for black-and-white photography are used to control contrast and the rendition of colors as tones of gray in the final print. Scene colors complementary to that of the filter are rendered dark on the final print. Colors similar to that of the filter become a lighter gray than they would otherwise be. Thus, a yellow filter renders blue skies as a darker gray than they would be in a photo made without the filter. Orange and red filters act like the yellow filters but with increased effect, the red producing nearly black skies in a print.

A special filter like the infra-red is too dark for

use with ordinary film and are used only with films sensitive to infra-red. The UVA filter is used to reduce the effect of ultra-violet. All film is sensitive to these short wavelengths of light; without a filter, pictures made of distant scenes, or at high altitudes, lose contrast, because of scattered ultra-violet light. Other filters also absorb ultra-violet, but the UVA is colorless and needs no extra exposure.

The blue filter is used principally for copying to darken yellowed, faded writing or photographic images and thus to restore contrast. It has little use in general photography.

## COLOR FILTERS

Filters for color photography are of two general types: correction filters and conversion filters. The former are used to correct excess redness or bluishness when the light source is other than that for which the film is balanced. For instance, a picture made by the light of a clear flash bulb on Type "A" Kodachrome (which is balanced for photoflood lamps) would require a Leitz "Flash" filter to correct the relatively bluish flashlight to the response of the Type "A" film.

Conversion filters "convert" the light for use with film normally intended for use under different lighting conditions. An example of this would be the use of the Leitz Type "A" filter

when Type "A" film is used outdoors in daylight. Leitz filters for color photography are:

### Conversion:

TYPE "A": Used with Kodachrome Professional Type "A" film for photography outdoors in daylight.

PHOTOFLOOD: Used with daylight type films when the light source is photoflood bulbs.

### Correction:

FLASH: Used when Type "A" film is exposed by clear flash bulbs.

SKYLIGHT or UVA: Used with daylight color films to absorb excessive blue found at high altitudes, at the shore and in open shade.

## POLARIZING FILTERS

Polarizing filters can be used for either color or black-and-white photography, since they are neutral in color.

With a polarizing filter, you can minimize or

even eliminate reflections from the surfaces of water, show windows, furniture, etc. This type of filter is the only one which will darken the blue sky in color photographs without altering the color or tone in the rest of the scene.

E-39

E-41

E-43

E-48

E-58

FILTERS FOR LEICA LENSES	FILTER FACTORS	21mm Super Angulon f/4 35mm Summicron ** 35mm Summarex† 50mm Elmar 50mm Summicron 90mm Elmar† 90mm Elmarit 90mm Tele-Elmarit 135mm Hektor† 135mm Elmar f/4 135mm Tele-Elmar f/4	35mm Summilux * 50mm Summarit 65mm Elmar-# 11,062	50mm Summilux	21mm Super Angulon f/2.8† 28mm Elmarit f/2.8† 35mm Summicron 35mm Summicron 90mm Thambar 200mm Telyt f/4.5	85mm Summarex 125mm Hektor 200mm Telyt f/4 280mm Telyt # 11,912
		MOUNTING METHODS	SCREW-IN	SCREW-IN	SCREW-IN	SCREW-IN
Yellow I (medium)	1.5 - 2	13,086	13,160	13,161	13,295	13,235
Yellow-Green (medium)	2 - 3	13,096	13,170	13,171	13,305	13,245
Blue (medium)	1.5	13,098	13,172	13,173	13,307	
Orange (medium dark)	3 - 5	13,101	13,175	13,176	13,310	13,250
Red (dark)	6 - 25	13,116	13,190	13,191	13,315	13,255
Infrared (dark)	6 - 100†	13,126	13,200	13,196	13,325	
UVA Absorption (colorless)	1.2	13,131	13,205	13,206	13,330	13,270
Photoflood		13,141				
Type "A"		13,136	13,215	13,218	13,335	13,275
Flash		13,146	13,225	13,228	13,345	13,285
Skylight		13,151	13,220	13,221	13,340	13,280
Polarizing (engraved mount)	2.5 - 3		13,360			
Polarizing (swing-out mount)	2.5 - 3	13,352*		13,351		

\*With serial number below 2166701; serial numbers above 2166700 accept series 7 filters in lens hood and Polarizing Filter # 13352.

† Cannot be used with 28mm or 21mm lenses, with or without adapter. These filters mount with clamping screws.

‡ With 42mm flange diameter.

\*\*With serial numbers below 2316001; serial numbers above 231600 accept series 7 filters.

1. For Panchromatic films; factors will vary with the light source and intended only as guides.

2. The amount of infrared light present in daylight varies continually. Several exposures of varying lengths should be made of each scene.

3. Lens hood also accepts Series 7 filters.

SERIES NO.	FILTER FACTORS	21mm Super Angulon f/3.4 <sup>1</sup> 28mm Elmarit f/2.8 <sup>2</sup> 35mm Summilux f/1.4 <sup>4</sup> 35mm Summicron** 90mm Elmarit-R f/2.8 100mm Macro-Elmar f/4 135mm Elmarit-R f/2.8 135mm Elmarit f/2.8 400mm Telyt f/6.8 400mm Telyt f/5.6 <sup>3</sup> 500mm Telyt f/5.6 <sup>3</sup> 500mm Telyt f/6.8	21mm Super Angulon-R f/3.4 <sup>1</sup> 45.90mm Angenieux-R f/2.8 50mm Noctilux f/1.2 180mm Elmarit-R f/2.8 280mm Telyt ≈ 11,914	21mm Auto — Aperture Super Angulon-R f/4	
		6	7	8	8½
YELLOW	2	13,013	13,006	13,019	13,022
YELLOW-GREEN	2-3	13,014	13,007	13,021	
ORANGE	3-5	13,011	13,008	13,017	13,023
UVA	1.2	13,012	13,009	13,018	13,024
POLARIZING CIRCULAR	4		13,370		

\*Lenses above 2166700 accept series 7 filter in lens hood. Lenses below 2166701 use E-41 filters.

\*\*Lenses above 2316000 accept series 7 filter in lens hood. Lenses below 2316001 use E-39 filters.

1. For panchromatic films; factors will vary with the light source and are only intended as guides.
2. Lens Hood accepts series filters. E-48 filters may also be used, except for 21mm Super Angulon-R f/3.4 lenses.
3. Fits in filter slot of Televit mount.

### POLARIZING FILTERS FOR LEICAFLEX LENSES

Catalog Number	Item
13,358	Polarizing (Filter Factor 2.5-3 see note #1) for 35mm f/2.8 and 50mm f/2 Leicaflex Lenses .....
13,359	Polarizing (Filter Factor 2.5-3 see note #1) for 28, 90 and 135mm Leicaflex Lenses** .....

Note 1: For Panchromatic Films: Factor will vary with light source.

\*\*Will also fit 135mm Elmarit f/2.8 lens for Leica M Cameras.

### REPLACEMENT PARTS FOR SERIES FILTERS

Catalog Number	Item
14,160	Filter retaining ring for Leica, Leicaflex and Leicina lenses, accepting series 6 filters .....
14,161	Filter retaining ring for Leica, Leicaflex and Leicina lenses accepting series 7 filters .....
14,165	Filter Retaining Ring for Leica, Leicaflex and Leicina lenses, accepting series 8 filters .....
14,169	Filter Retaining Ring for 280mm Telyt, accepting series 8 filters .....

# CLOSE-UP PHOTOGRAPHY

Close-up photography helps you to explore the world of the very small which is otherwise beyond the powers of the human eye.

We can divide close-up photographs into two groups: those taken with and without a microscope. Photography with the aid of a microscope (which in this application replaces the camera lens) is called photomicrography.

The normal minimum focus of most Leica lens mounts is 3½ feet or more, which limits their application to close-up work. However, much close-up photography can be done simply and conveniently with the 50mm Dual-Range Summicron lens, since it has a second, close-focusing range down to 19 inches, with focusing and framing done through the camera's range-viewfinder.

The Visoflex and the 65mm lens in the Universal Focusing Mount are an extremely simple and flexible combination for close-up work. Focusing and framing are done on the ground glass of the Visoflex and the focusing range is from infinity down to a 1:1 ratio of reproduction. Simple

extension tubes can extend the close-up range still further.

The Visoflex with the Bellows II, however, combines simplicity with extreme versatility. It offers continuously variable extra lens extension through a great focusing range, with ground-glass focusing and framing. A choice of adapter rings permits the use of most Leica lenses or lens units on the Bellows. Lenses from 65mm to 200mm (in proper adapters) will focus from infinity to the close-up range. Shorter focal lengths can be used with the bellows only in the close-up range.

Also available for the Visoflex are close-up adapters which are used with certain lens units directly on the reflex housing without the bellows.

Still other accessories for close-up and copying photography are available, providing various degrees of versatility. Some are used with the range-viewfinder system of the camera; others require groundglass focusing and framing. Still others provide fixed ratios of reproduction and areas of coverage and need not be focused visually at all.

## VISOFLEX CLOSE-UP ACCESSORIES

The Visoflex is a prime tool for close-up photography with the Leica. Used with the Bellows, it is both convenient and versatile, not only for close-up photography, but, with most Leica lenses, for general photography as well.

The lens units of Leica lenses from 65mm to 200mm (except the 135mm Elmarit and 90mm Tele-Elmarit and Summicron) will focus in the Bellows from infinity down to ratios as large as 1.4:1, in the case of the 65mm lens.

For extreme close-ups within a limited range of focus, lenses of shorter focal length can also be adapted for use on the Bellows.

The Bellows is extremely rigid, and features backlash-free rack-and-pinion focusing. A second geared motion shifts Bellows and camera as a unit so that fine focusing can be done

without changing the image-or field-size on the negative.

An engraved data-scale shows reproduction ratios and corresponding exposure increases for the 90mm Elmarit or Elmar lens heads. A second scale shows the actual Bellows extension in millimeters.

An accessory bellows-type lens hood is available which attaches to the lens flange in the same way as an ordinary Leica lens hood.





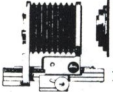



Also available for the Visoflex are a number of simple and inexpensive extension tubes which are used with certain Leica lenses to extend focusing into the realm of close-up photography. They do not require the use of the Bellows, and so, necessarily, do not offer as wide a focusing range as does the Bellows.

(The Visoflex is listed in a separate section of this catalog.)

# VISOFLEX CLOSE-UP; BELLOWS II

## VISOFLEX CLOSE-UP ADAPTERS AND

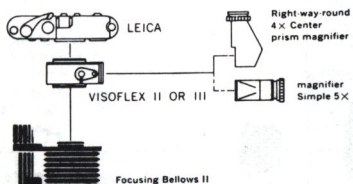
(The Visoflex is listed in a separate section)

	<i>Catalog Number</i>	<i>Item</i>
	16,464	<b>Universal Focusing Mount.</b> Necessary with f/3.5 65mm lens on Visoflex II or III. Also adapts lens unit of 90mm Elmarit f/2.8 and 135mm Tele-Elmar f/4 to Visoflex II or III. With extension tube #16,472 it adapts lens unit of 135mm Hektor f/4.5 or f/4 Elmar to Visoflex II or III .....
	16,471	<b>Extension Tube</b> for lens unit of 90mm Elmarit f/2.8, 135mm Tele-Elmar f/4 and 65mm Elmar f/3.5 lens. Fits Universal Focusing Mount #16,464 and adapts these lenses for extreme close-up photography. With Adapter Tube #16,472 it can also be used with the lens unit of the 135mm Elmar .....
	16,469	<b>Tube</b> to thread into Bellows II, permitting use of the lens-heads of the 135mm Elmar or Hektor on Bellows II .....
	16,474	<b>Extension Tube</b> fits universal focusing mount #16,462 for use with short mounted 90mm Summicron f/2 and 135mm Elmarit f/2.8 lens units. Adapts these for extreme close up work - 2'6" to 1'6" with 90mm Summicron f/2 and 5' to 3' with 135mm Elmarit f/2.8 ....
	16,556	<b>Focusing Bellows II, with Adapter Ring</b> for lens units of the 90mm Elmarit or Elmar, 65mm Elmar and 135mm Tele-Elmar .....
	16,596	<b>Adapter Ring</b> for fitting bayonet-mounting 35mm and 50mm Leica lenses to Bellows II .....
	17,672	<b>Adapter</b> fitting lens units of 50mm Dual-Range and rigid-mount Summicron lenses to Bellows. Used with Adapter Ring #16,590 .....
	16,598	<b>Adapter Ring</b> for fitting lens-heads of the 135mm Tele-Elmar, 90mm Elmarit or Elmar, and the 65mm Elmar to Bellows II. (This ring is supplied with the basic outfit) .....
	16,598	<b>Adapter Ring</b> for fitting lens-heads of the 90mm Summicron, 135mm Elmarit f/2.8 and 200mm Telyt f/4 to Bellows II .....
	16,598	<b>Adapter Ring</b> for fitting lens-heads of the 90mm Summicron f/2, 135mm Elmarit f/2.8, 200mm Telyt f/4 and 280mm Telyt f/4.8 to Bellows II .....

(The Visoflex and its lens mounts are described and listed in another section.)

# THE EXTREME VERSATILITY OF THE FOCUSING BELLOWS II

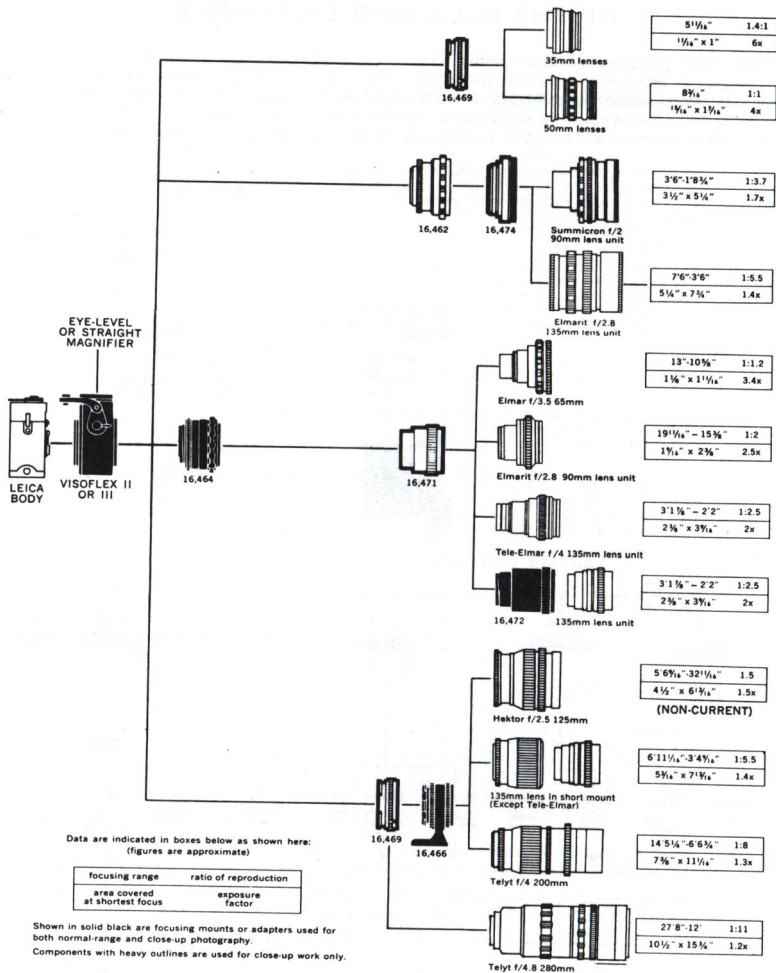
THIS CHART indicates the major combinations possible with this ultra-compact reproduction unit. Even greater image-magnifications than those indicated for the various lenses may, for example, be obtained by employing additional standard LEITZ extension-tubes. An ideal device for general copying and extreme close-up applications, the Focusing Bellows II provides both the precision required by technical and scientific workers and the simplicity of operation desired by the amateur.



	16596		16590		16558 supplied with basic outfit		16598	16572 (NON-CURRENT)	16558 16472	16598	16598	
	35 mm bayonet mount	50 mm bayonet mount	35 mm screw mount	50 mm screw mount	65 mm ELMAR lens-head	90 mm ELMARIT or ELMAR lens-heads	135mm TELE-ELMAR lens-head	90 mm SUMMICRON lens-head	125 mm HEKTOR lens-head	135 mm HEKTOR or ELMAR lens-heads	135 mm ELMARIT lens-head	200 mm TELYT lens-head
<b>Reproduction Ratio</b> (Image: object)	from 2.1:1 to 4.8:1	from 1.4:1 to 3.2:1	from 1.7:1 to 4.4:1	from 1.1:1 to 3.0:1	from 0 to 1.4:1	from 0 to 1.0:1	from 0 to 1.0:1.4	from 1.0:20 to 1:1:1	from 0 to 1.0:1.7	from 0 to 1.0:1.4	from 1:1.7 to 1:1.25	from 0 to 1:3
<b>Distance</b> from subject to film	6.5" 9.5"	8.5" 11.5"	6.0" 9.0"	8.5" 11.0"	∞ 11.0"	∞ 14.5"	∞ 22"	78" 14"	∞ 20"	∞ 22"	102" 22.5"	∞ 42"
<b>Field-size</b> inches	0.5×0.7" 0.2×0.3"	0.7×1.1" 0.3×0.4"	0.6×0.8" 0.2×0.3"	0.9×1.3" 0.3×0.5"	∞ 0.7×1.1"	∞ 0.9×1.4"	∞ 1.4×2.0"	16.9×28.4" 0.9×1.3"	∞ 1.6×2.4"	∞ 1.4×2.0"	17×25.5" 1.25×1.8"	∞ 3.4.5"

The above figures have been rounded off for simplicity and are offered only for purposes of comparison.





## CLOSE-UPS WITH THE VISOFLEX SYSTEM

(Visoflex items shown which are not listed in the Close-Up Section are in the Visoflex Section)

# RANGE-VIEWFINDER ATTACHMENTS; COPY STANDS, FIXED RATIOS

## RANGE-VIEWFINDER ATTACHMENTS

The Close-Focusing Device provides most 50mm Leica lenses with the focusing capabilities of the Dual-Range 50mm Summicron. Mounted in it, Summicron or Elmar 50mm lenses

focus down to 19 inches. At the same time, optical components of the accessory adapt the range-viewfinder system to permit focusing and framing in the close-up range.

Catalog  
Number

Item

- 16,507 **Close Focusing Device**, bayonet-mounting; accepts bayonet-mounting collapsible 50mm lenses, and screw-mounting 50mm Elmar *f*/2.8. Focusing range from 2' 10.5" to 19" with ratios of reproduction from 1:15 (14" x 21") to 1:7.5 (7" x 10.5") .....
- 16,508 **Adapter** fitting lens unit of rigid-mount Summicron to Close Focusing Device #16,507 or Auxiliary Reproduction Unit #16,526 .....
- 16,509 **Close Focusing Device** #16,507, complete with Adapter #16,508 for use with lens unit of rigid 50mm Summicron .....



16,507



16,508

## COPY STANDS, FIXED RATIOS

The Auxiliary Reproduction Unit and the Universal Copying Stand are designed to do photographic copying work at various, fixed ratios of reproduction. Subject area is clearly delineated by each of the units and focus is determined by the use of appropriate extension tubes and

camera-height positions.

These close-up devices can also be used to photograph small objects, either in the studio or the field. Easily disassembled, they fit conveniently into a gadget bag for travel.

- 16,526 **Auxiliary Reproduction Unit**, bayonet-mounting, for bayonet-mounting Leica cameras. Modification is required for use with the Leica M5. Accepts bayonet-mounting collapsible 50mm lenses, screw-mounting collapsible 50mm Summicron and Elmar *f*/2.8 and with adapter #16,508 the lens unit of the rigid or Dual-Range Summicron. Ratios of reproduction 1:4, 1:6 and 1:9 areas covered 4 1/8" x 5 3/4", 5 3/4" x 8 1/4" and 8 1/4" x 11 1/8" .....



16,526

## COPY STANDS, VARIABLE RATIOS

Ordinary close-up work can be done from a regular or a table top tripod. But copying work, either in quantity, or when exact ratios and areas of reproduction are involved, is best done from a copying stand.

A copy stand includes a sturdy base, an upright and a movable carrying arm which holds the

camera exactly parallel to the baseboard. Variable ratios of reproduction are achieved by raising or lowering the camera on the upright.

For those who do a great deal of copy work, a special instrument is recommended — the Re-provit IIa.



16 707

### LEICA-LEICAFLEX COPYING STAND

*Catalog  
Number*

16,707

*Item*

Copying Stand, baseboard 18x19 $\frac{3}{4}$ "", upright 31 $\frac{3}{4}$ " high with parallel guide, carrying arm with coarse and fine adjustment, accepting all Leica cameras with Visoflex II (with or without Bellows Device II), Leica "M" cameras with Visoflex III (with or without Bellows II), Leicaflex with or without Bellows .....

The Reprovit IIa is a universal copying tool, suitable for very nearly any kind of photographic reproduction work in quantity. Yet, despite its remarkable adaptability, sophistication and precision, it is so simple to use that even beginners produce high-quality work quickly and accurately with it.

The Reprovit IIa features:

- Continuous focusing range providing ratios of from 1:19 (18" x 27") to 1:1 (1" x 1½")
- Electrically-controlled exposures to 60 sec.

- Electro-magnetic shutter release to eliminate vibration
- Four-lamp illumination for even, glare-free subject lighting
- Exact outlining of subject area by illuminated rectangle
- Special accessories available, such as framing boxes for copying thick originals (books), special lenses and carrying stages to produce magnified images of small originals (transparencies), etc.

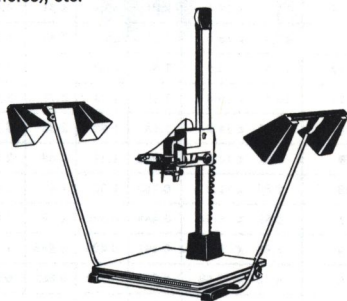
## REPROVIT IIa

Catalog  
Number

Item

16,789

**Reprovit IIa Reproduction Outfit** for "M" series Leica cameras excepting the M5. Please note the M4 needs a slight modification. For recording both flat originals, either opaque or transparent and solid objects at reproduction ratios of from 1:19 to 1:1, using the 50mm Repro Focotar lens. Consists of copying stand, focusing stage with bellows and rack-and-pinion adjustment, diaphragm lever and operating guide, projection head with electromagnetic camera release, automatic electric interval timer, four-lamp illuminator, 50mm Repro Focotar f/4.5 lens, 5x magnifier with 90° angle view finder and line cord. For 110v A.C. operation only



Reprovit IIa

## ACCESSORIES AND PARTS

- 16,786 **Small-Object Stage** for copying 35mm transparencies and other small originals at ratios of 1:1 or at magnification .....
- 16,761 **Framing Box** (11% x 16%) with clamping device for Reprovit IIa. Books and other material up to 5 inches thick are held flat against the glass top .....
- 16,773 **Illuminating Box**, 16x17½", with line-cord and glass plate to keep film sheets flat .....
- 16,783 **24mm Repro Photar f/2.5** with adapter for Reprovit IIa. Magnification up to 6.5x is possible .....
- 16,781 **Repro 50mm Focotar** with click stops (Especially corrected for close distance.) Supplied with Reprovit IIa
- 98,211 **Four-Lamp Illuminator** with self-adjusting anti-reflection curtains. Used to illuminate opaque copy. Supplied with Reprovit IIa # 16,789 .....
- 16,488 **5X Magnifier** with 90° angle view (image left-to-right reversed) as replacement .....
- 16,766 **Replacement Bulb (100W)**, for Four Lamp Illuminator #98,211 .....
- 98,210 **Fluorescent Tube**, 24" General Electric 20 Watt F20 T12/WWX for # 16,773 .....
- 98,588 **Projection Bulb BEH 150W**, 115-120V as replacement for Reprovit IIa projection head lamp .....
- 16,751 **Projection Bulb (100W)**, Reprovit II projection head No. 16,750 .....
- 98,789 **Kepeka-Pol polarizing equipment** for Reprovit IIa consisting of 4 polarizing filters for the Reprovit lamps in rotatable mounts and 1 polarizing filter 36mm in diameter for the camera lens .....



16,761



16,780

# RATIOS • AREAS COVERED • DEPTH OF FIELD • EXPOSURE FACTORS

(Based on 24 x 36 mm Leica Format)

RATIO	ENGLISH SYSTEM						METRIC SYSTEM						EXPOSURE FACTOR
	Area in Inches	Total Depth of Field in Inches					Area in mm	Total Depth of Field in Millimeters					
		f/4	f/5.6	f/8	f/11	f/16		f/4	f/5.6	f/8	f/11	f/16	
1:20	18.9 x 28.4	4.41	6.18	8.85	12.1	17.7	480 x 720	112.0	156.8	224.0	308.0	448.0	1.1 X
1:18	17 x 25.5	3.59	5.05	7.17	9.94	14.4	432 x 648	91.2	127.7	182.4	250.8	364.8	1.1 X
1:17	16.2 x 24.2	3.22	4.50	6.43	8.85	12.8	408 x 612	81.6	114.2	163.2	224.4	326.4	1.1 X
1:16	15.1 x 22.6	2.86	4.02	5.72	7.90	11.4	384 x 576	72.5	101.6	145.1	199.5	290.1	1.1 X
1:15	14.2 x 21.3	2.52	3.53	5.05	6.95	10.1	360 x 540	64.0	89.6	128.0	176.0	256.0	1.1 X
1:14	13.2 x 19.8	2.21	3.09	4.41	6.08	8.84	336 x 504	56.0	78.4	112.0	154.0	224.0	1.1 X
1:13	12.3 x 18.5	1.91	2.68	3.83	5.28	7.66	312 x 468	48.5	68.0	97.1	133.5	194.1	1.2 X
1:12	11.3 x 16.9	1.64	2.30	3.28	4.50	6.55	288 x 432	41.6	58.2	83.2	114.4	166.4	1.2 X
1:11	10.4 x 15.6	1.39	1.94	2.77	3.82	5.56	264 x 396	35.2	49.3	70.4	96.8	140.8	1.2 X
1:10	9.45 x 14.2	1.15	1.62	2.32	3.18	4.62	240 x 360	29.3	41.1	58.7	80.7	117.3	1.2 X
1:9	8.51 x 12.8	0.945	1.32	1.89	2.60	3.78	216 x 324	24.0	33.6	48.0	66.0	96.0	1.2 X
1:8	7.56 x 11.3	0.758	1.06	1.51	2.08	3.03	192 x 288	19.2	26.9	38.4	52.8	76.8	1.3 X
1:7	6.61 x 9.92	0.588	0.825	1.18	1.62	2.36	168 x 252	14.9	20.9	29.9	41.1	59.7	1.3 X
1:6	5.66 x 8.51	0.441	0.620	0.885	1.21	1.77	144 x 216	11.2	15.7	22.4	30.8	44.8	1.4 X
1:5	4.72 x 7.09	0.315	0.440	0.632	0.867	1.26	120 x 180	8.0	11.2	16.0	22.0	32.0	1.4 X
1:4	3.78 x 5.66	0.209	0.296	0.422	0.580	0.840	96 x 144	5.3	7.5	10.7	14.7	21.3	1.6 X
1:3	2.84 x 4.26	0.126	0.178	0.252	0.347	0.505	72 x 108	3.2	4.5	6.4	8.8	12.8	1.8 X
1:2	1.89 x 2.84	0.063	0.087	0.126	0.173	0.252	48 x 72	1.6	2.2	3.2	4.4	6.4	2.3 X
1:1.5	1.42 x 2.13	0.039	0.055	0.079	0.110	0.158	36 x 54	1.0	1.4	2.0	2.8	4.0	2.8 X
1:1.33	1.26 x 1.89	0.031	0.047	0.067	0.091	0.134	32 x 48	0.8	1.2	1.7	2.3	3.3	3.1 X
1:1	0.945 x 1.42	0.020	0.031	0.043	0.059	0.083	24 x 36	0.5	0.8	1.1	1.5	2.1	4 X
1.5:1	0.630 x 0.945	0.012	0.016	0.023	0.032	0.047	16 x 24	0.30	0.41	0.59	0.81	1.19	6 X
2:1	0.472 x 0.709	0.008	0.011	0.016	0.022	0.032	12 x 18	0.20	0.28	0.40	0.55	0.80	9 X
3:1	0.314 x 0.472	0.005	0.007	0.010	0.013	0.018	8 x 12	0.12	0.17	0.24	0.33	0.47	16 X
4:1	0.236 x 0.354	0.003	0.005	0.007	0.009	0.013	6 x 9	0.08	0.12	0.17	0.23	0.33	25 X
5:1	0.189 x 0.284	0.002	0.004	0.005	0.007	0.010	4.8 x 7.2	0.06	0.09	0.13	0.18	0.26	36 X
6:1	0.158 x 0.237	0.002	0.003	0.004	0.006	0.008	4.0 x 6.0	0.05	0.07	0.10	0.14	0.21	49 X
6.5:1	0.145 x 0.217	0.002	0.003	0.004	0.005	0.007	3.7 x 5.5	0.05	0.07	0.09	0.13	0.19	56 X
7:1	0.135 x 0.202	0.002	0.002	0.004	0.005	0.007	3.4 x 5.1	0.04	0.06	0.09	0.12	0.17	64 X
8:1	0.118 x 0.177	0.002	0.002	0.003	0.004	0.006	3.0 x 4.5	0.04	0.05	0.08	0.10	0.15	81 X
9:1	0.105 x 0.158	0.001	0.002	0.003	0.004	0.005	2.7 x 4.0	0.03	0.05	0.07	0.09	0.13	100 X
10:1	0.094 x 0.142	0.001	0.001	0.002	0.003	0.005	2.4 x 3.6	0.03	0.04	0.06	0.08	0.12	121 X
Circle of confusion = 1/750 inch							Circle of confusion = 1/30 mm						

# PROCESSING EQUIPMENT

## BULK LOADING EQUIPMENT

By bulk-loading your own film into Leica magazines, you can cut film costs to a minimum. What's more, you can enjoy the use of many interesting films which are normally not avail-

able in standard 35mm cartridges. Several precise, convenient accessories, which make bulk-loading a simple process, are offered as a part of the Leica System.

<i>Catalog Number</i>	<i>Item</i>
14,006	<b>Film Magazine</b> for all Leicas except 250 exposure model and Leicaflex cameras; with screw-cap plastic container .....
14,010	<b>Plastic Container</b> with screw-cap for Film Magazines.
14,015	<b>Center Spool</b> for Film Magazines .....



14,006



14,015

# FOCOMAT Ic

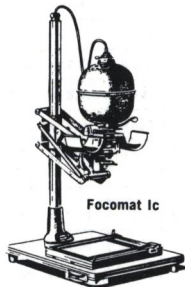
Only by making enlarged prints can you bring out the full beauty and rich detail of a Leica negative. But it is vital that your enlarger be as precise as the Leica itself. A poorly made enlarger or a questionable enlarging lens can destroy the potential of even the most highly corrected camera lenses.

They are precisely made, in the same factory as the camera itself, to rigid optical and mechanical standards. Special enlarging lenses, corrected for close-distance work, are available for the enlargers, or you may use your camera lens, if you prefer.

## FOCOMAT Ic AUTOFOCUS ENLARGER

The Focomat Ic for 35mm negatives and up to 4x4cm, including the popular Instamatic format can be set in an instant and is autofocus through a range of 2 to 10 diameters; you can make larger prints by focusing manually. The autofocus cam is adjusted precisely to each individual lens you use in the enlarger, assuring critical focus throughout its range. The baseboard (16 x 21 inches) has a built-in light switch, a quick clamping device to lock the easel in position, and

an upright 32 inches high, 40mm in diameter. You raise or lower the springcounter balanced lamp housing by a self-locking finger grip. The degree of enlargement shows on a scale. The housing can be tilted for easy cleaning of the surface-treated, anti-Newton's Rings condenser. You can also use the baseboard and upright of your Focomat Ic as a copying stand by using one of the carrying arms described in the section on Close-Up Photography.



Catalog  
Number

Item

### FOCOMAT Ic AUTOFOCUS ENLARGER

- |        |   |
|--------|---|
| 17,601 | <b>Focomat Ic Enlarger</b> without lens or easel but with orange filter #17,641 .....   |
| 17,602 | <b>Focomat Ic Color Enlarger.</b> Same as #17,601 but with extra equipment for color printing consisting of filter holder for color filters .....   |
| 17,625 | <b>Focomat Ic Enlarger</b> with 22 x 25 inch baseboard and upright 47 inches high, but without lens or easel  |
| 17,626 | <b>Focomat Ic Color Enlarger.</b> Same as #17,625 but with extra equipment for color printing, consisting of filter holder for color filters and illuminated magnification indicator on baseboard ..... |
| 17,641 | <b>Orange Filter</b> for Focomat Ic (as replacement) .....  |
| 17,636 | <b>Filter Holder</b> for Focomat Ic. Accepts filters for use with variable contrast enlarging papers .....  |

# FOCOMAT ACCESSORIES



17,581



17,675



17,671



17,672



17,670



17,640 17,645



17,650

Catalog  
Number

Item

## ACCESSORIES FOR FOCOMAT Ic AND FORMER VALOY II

- 17,581 **50mm Focotar f/4.5 Enlarging Lens** for Valoy II and Focomat Ic. Coated, with click stops. Specifically corrected for enlarging and reproduction work .....
- 16,615 **Repro Extension Tube**, 26mm, with standard Leica thread. Used between lens and lensboard to increase printing range of Valoy II and Focomat Ic. (Two rings = 1:1) .....
- 17,675 **Extension Ring** for converting Focotar lens supplied with Reprovit IIa to Focotar lens #17,581 .....
- 17,671 **Bayonet Adapter**, adapting bayonet-mounting 50mm Elmar lens to Valoy and Focomat I, Ia, and Ic enlargers (accepts rear bayonet of lens in collapsed position)
- 17,672 **Adapter**, fitting lens units of the Dual-Range and rigid-mount Summicron lenses to Valoy II and Focomat Ic enlargers .....
- 17,670 **Film and Plate Holder** for single film strip or 2 x 2 inch lantern slide plate. Converts Valoy II or Focomat Ic to a single exposure copying camera .....
- 17,639 **Condenser Type "N"**, clear surface, for Focomat Ic enlargers, as replacement. Also required for older Focomats when Glass Pressure Plate #17,652 is to be used .....
- 17,652 **Glass Pressure Plate**, with spacer ring. Treated surface prevents Newton's rings. Used with condenser marked "N" .....
- 17,655 **Perspective Corrector** for Valoy II or Focomat Ic. Complete with Tilting Negative Carrier Holder, Hinged Negative Carrier and Tilting Easel Holder .....
- 17,640 **Tilting Negative Carrier Holder** supplied with Perspective Corrector. Has two ball and socket spring clips for holding Hinged Negative Carrier, two adjusting nuts and two clamping screws .....
- 17,645 **Hinged Negative Carrier** supplied with Perspective Corrector. A glass and metal sandwich with 24 x 36mm aperture fitting Tilting Negative Carrier Holder
- 17,650 **Tilting Easel Holder** supplied with Perspective Corrector. Base has metal dovetail grooves fitting quick clamping device of Focomat Ic. Tilting standard has dovetail slider fitting grooves of Focomat and Valoy II easel .....



# NEGATIVE CARRIERS

Catalog  
Number

Item

## INTERCHANGEABLE MASKING NEGATIVE CARRIERS FOR FOCOMAT Ic DISCONTINUED

### VALOY II AND FOCOMAT Ia ENLARGERS

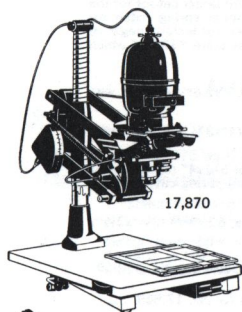
17,514	Negative Carrier for 8 x 11mm (Approx. 5/16" x 7/16") negatives .....
17,517	Negative Carrier for 12x17mm (Approx. 1/2" x 3/4") negatives .....
17,516	Negative Carrier for 18 x 24mm (Approx. 11/16" x 15/16") negatives .....
17,521	Negative Carrier for 24 x 24mm (Approx. 15/16" x 15/16") negatives .....
17,526	Negative Carrier for 24 x 36mm (Approx. 15/16" x 1-13/32") negatives .....
17,642	Negative Carrier for 28x28mm (Approx. 1 1/32" x 1 1/32") negatives .....
17,531	Negative Carrier for 3 x 4cm (Approx. 1-3/16" x 1-9/16") negatives .....
17,536	Negative Carrier for 4 x 4cm (Approx. 1-9/16" x 1-9/16") negatives .....
17,540	Metal Negative Mask. 24x36mm .....
17,541	Metal Negative Mask. 24x24mm .....
17,545	Hinged Double Glass Plate (3.5 x 12cm) (Approx. 1-3/8" x 4-11/16"). Used with Metal Negative Mask #17,540 .....
17,565	Hinged Double Glass Plate (5 x 16cm) (Approx. 1-15/16" x 6-3/8") used when enlarging a single negative or short strip cut from a roll of 3 x 4cm (Approx. 1-3/16" x 1-9/16") or 4 x 4cm (Approx. 1-9/16" x 1-9/16") negatives. To be used with Negative Mask #17,555 or #17,560 .....
17,555	Metal Negative Mask with 3 x 4cm (Approx. 1-3/16" x 1-9/16") aperture. To be used with Glass Negative Holder #17,565 .....
17,560	Metal Negative Mask with 4 x 4cm (Approx. 1-9/16" x 1-9/16") aperture. To be used with Glass Negative Holder #17,565 .....

# FOCOMAT IIc & ACCESSORIES

## FOCOMAT IIc

The autofocus Focomat IIc enlarger for all formats up to 2 1/4" x 3 1/4" is ideal for professional darkrooms or photo laboratories. It has two turret-mounted lenses of different focal lengths for

extra versatility and also accepts a wide range of accessory equipment. As with the Focomat Ic, there is also available a special model of the Focomat IIc for color printing.



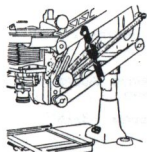
17,870



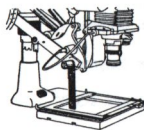
17,862



17,864



17,861



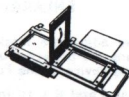
17,861



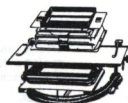
16,617



17,876



17,880



17,885

Catalog  
Number

Item

### FOCOMAT IIc AUTOFOCUS COLOR ENLARGER

- 17,870 **Focomat IIc Color Enlarger** complete with 150 watt lamp, 60mm and 100mm V-Elmar f/4.5 lenses, 21 x 26 inch baseboard, 31 1/2 inch upright, double condenser, illuminated magnification indicator and special holder for color filters .....
- 17,862 **Magnification Indicator**, internally illuminated .....
- 17,864 **Color Filter Holder** for color printing. Accepts 12 x 12cm (4-3/4" x 4-3/4") filters .....
- 17,860 **Focomat IIc Enlarger**. Same as #17,870, but without magnification indicator or color filter holder .....

### ACCESSORIES FOR THE FOCOMAT IIc ENLARGER

- 17,861 **Auxiliary Focusing Device** for 1:1 reduction using 100mm V-Elmar f/4.5 lens and Repr Extension Tube #16,615. Used with Extension Tube #16,617 and the 60mm Focotar f/4.5, it gives reductions to 1:2.5. (from 6 x 9cm to 24 x 36mm for instance). (Extension Tubes not included.) .....
- 16,615 **Repr Extension Tube (26mm)** for 1:1 reproduction with Auxiliary Focusing Device #17,861 and 100mm V-Elmar lens .....
- 16,617 **Extension Tube (44mm)** for reductions to 1:2.5 with Auxiliary Focusing Device #17,861 and 60mm Focotar lens .....
- 17,876 **Film Holder** for 24 x 36mm (Approx. 15/16" x 1-13/32") negatives. With single Anti-Newton's rings glass pressure plate .....
- 17,875 **Orange Filter** for Focomat IIc .....
- 17,880 **Copying Cassette**. Replaces film holder during copying .....
- 17,885 **Perspective Corrector** for Focomat IIc. Complete with Tilting Negative Carrier Holder and Tilting Easel Holder .....
- 17,879 **Filter Holder**. Accepts filters for use with variable contrast enlarging papers .....

# MASKS & EASELS

Catalog  
Number

Item

## ACCESSORIES FOR ELECTRON MICROGRAPHS

- 17,716 **Adapter** for electron micrographs effective format 62x65mm (2.5"x2.6") insert with larger cutout for the double glass plate and additional spring catch for the helical focusing mount does not include negative mask #17803 and double glass plate #17,710 which are essential .....
- 17,803 **Negative Mask**, 62x65mm (2.5"x2.6") a must with No. 17,716 .....
- 17,710 **Double Glass Plate**, 10x22cm (4"x8¾") a must with number 17,716 .....
- 17,717 **Insert for 76x95mm Format**, for 3¼x4" (83x102mm) plates, with graduated filter and spring catch for the helical focusing mount .....
- 17,869 **Carrier for Glass Negative Plate**, 6.5x9cm (2½"x3½") and 7x7cm (2¾"x2¾") plates .....
- 17,881 **Insert for 6x6cm (2¼"x2¼") plates** for No. 17,869 .....
- 17,882 **Insert for 5x5cm (2"x2") plates** for No. 17,869 .....

## INTERCHANGABLE NEGATIVE MASKING PLATES FOR FOCOMAT IIC ENLARGER

- 17,897 **Negative Masking Plate** for 12x17mm (Approx. ½" x ¾") negatives .....
- 17,899 **Negative Masking Plate** for 18x24mm (Approx. 11/16" x 15/16") size .....
- 17,887 **Negative Masking Plate** for 24 x 24mm (Approx. 15/16" x 15/16") size .....
- 17,898 **Negative Masking Plate** for 26x26mm (Approx. 1½" x 1½") negatives .....
- 17,888 **Negative Masking Plate** for 24 x 36mm (Approx. 15/16" x 1-13/32") size (as replacement) .....
- 17,889 **Negative Masking Plate** for 3 x 4cm (Approx. 1-3/16" x 1-9/16") size .....
- 17,890 **Negative Masking Plate** for 4 x 4cm (Approx. 1-9/16" x 1-9/16") size .....
- 17,891 **Negative Masking Plate** for 4.5 x 6cm (Approx. 1-13/16" x 2-3/8") size .....
- 17,892 **Negative Masking Plate** for 4 x 6.5cm (Approx. 1-9/16" x 2-9/16") size .....
- 17,893 **Negative Masking Plate** for 6 x 6cm (Approx. 2-3/8" x 2-3/8") size (as replacement) .....

## ENLARGING EASELS

These easels have adjustable masking bands and margin stops, a white surface for focusing the projected image and metal dovetail grooves fitting the quick clamping device of the Focomat enlargers.

- 17,585 **Enlarging Easel** 8 x 10 inches .....
- 17,630 **Enlarging Easel** 12 x 16 inches. This easel is thicker than #17,585 and is supplied with a spacer ring that is to be placed on the enlarger upright raising the lamp housing the proper distance .....

## ENLARGER BULBS

Catalog Number	Item
17,690	Opal Bulb (75 watt) for all enlargers. (Imported).....
17,691	Opal Bulb (150 watt) for all enlargers (Imported) .....
	Standard domestic bulbs may be used but the imported bulbs give better results.
17,692	Aktina High Efficiency Opal Lamp (250 watt) for Focomat Ic, IIa, and IIc. The lamp should be used with a voltage reducer .....

# PROJECTORS

No screen image — not even that of a Leica transparency — can have more quality than the projector which produces it. This is why Leitz projectors are made with the same attention to optical and mechanical precision that is lavished on the Leica itself.

What's more, there is a Leitz projector to meet the needs of everyone from the professional lecturer to the man who just wants to show his snapshots to friends. And, although they

range from the simple, modestly-priced Pradix to the ultra-versatile Prado, all Leitz projectors share three characteristics — superb optical design, ruggedness and mechanical precision. Your first look at a slide screened with a Leitz projector will be a memorable experience!

The pages that follow list the various projectors in combination with lenses of many focal lengths, plus useful accessories which add even more versatility to the projectors.

## AUTOFOCUS

With this new Pradovit Color model the focusing automatically compensates for variation in the differently mounted slides. Two photo-resistors act as a "balance" and adjust themselves and

position the slides at optimum focus. In an out-of-focus position the light beam which falls on the photo-resistors causes a motor, via an amplifier, to correct the deviation within seconds.

## WIDE-SCREEN PROJECTION

Wide-screen projection in the home is like nothing you've experienced outside of specially-equipped theaters involving special cameras and projectors. The image on the screen is almost as lifelike as the original scene itself.

Yet, simply by adding a 35mm or a 50mm lens and matching condenser to the appropriate Pradovit or Prado projector, you can enjoy panoramic projection of your own slides right in your own living room. Short lens and condenser, plus a large screen (or white wall) up to 12 feet wide, are all you need.

The optical and mechanical precision and high light output of the Leitz projectors provide bril-

liant, thrilling wide-screen reproduction of your favorite slides without the need for special gadgets or special skills.

By recreating the perspective on the screen that you enjoyed on the very spot where you took the picture, you bring the scene back to life in a way that must be experienced to be appreciated fully.

For wide-screen projection with the 50mm lens, use only 30-slide magazines or load longer ones with no more than 30 slides. Otherwise, magazines will intercept the wide projection beam as they progress through the projector.

## MICROPROJECTION ATTACHMENTS

The microprojection accessories for the Prado and Pradovit Color projectors make it possible to use these superb projector optics to project at great magnifications for group viewing not only microscope slides but also live micro-

organisms. The attachments are invaluable for laboratory and classroom use. Either the large or small Micro Projection Attachment can be mounted on the projector quickly and easily, without tools or special skills.

# PRADOVIT-COLOR PROJECTORS

The Pradovit-Color 150 projector features a modern up-to-the-minute 24 volt/150 watt Halogen lamp while the Pradovit-Color 250 has a 24 volt/250 watt Halogen. Both come with two-way centering controls and a large aspherical condenser system to provide bright, sharp, color-correct slide illumination. Superior two path cooling combined with the great depth of focus of the Pradovit-Color projector reduces the need for refocusing due to the popping of cardboard mounted slides or the projection of intermixed glass — cardboard-mounted slides.

The remote control system of the Pradovit-Color projector is new — one button for focusing, another for slide-changing. Also, a built in automatic timer runs the Pradovit-Color, if desired, by itself — changing intervals are adjustable from about 3 to 30 seconds.

The Pradovit-Color is the truly universal slide projector for the home thanks to the wide selection of interchangeable Leitz projection lenses from 35mm for wide screen projection to 250mm for the lecture hall.

## PRADOVIT-COLOR PROJECTORS ARE AVAILABLE IN FOUR MODELS. THEY ARE:

### PRADOVIT-COLOR 150

With automatic timer for changing slides, adjustable for 3-30 sec., with low voltage Halogen-lamp 24V, 150W, voltage selector 110-240 V/AC, aspherical condenser, heat filter, inter-

changeable field condenser, focusing mount for lens, supply-line cord, 10 ft. remote-control cord, snap-on projector cover, one 36-slide magazine, and projection lens.

### PRADOVIT-COLOR 150 AUTO-FOCUS

With automatic timer for changing slides, adjustable for 3-30 sec., with low voltage Halogen-lamp 24V, 150W, voltage selector 110-240 V/AC, aspherical condenser, heat filter, inter-

changeable field condenser, focusing mount for lens, supply-line cord, 10 ft. remote-control cord, snap-on projector cover, one 36-slide magazine, and projection lens.

### PRADOVIT-COLOR 250

With automatic timer for changing slides, adjustable for 3-30 sec., with low voltage Halogen-lamp 24V, 250W, voltage selector 110-240 V/AC, aspherical condenser, heat filter, inter-

changeable field condenser, focusing mount for lens, supply-line cord, 10 ft. remote-control cord, snap-on projector cover, one 36-slide magazine, and projection lens.

### PRADOVIT-COLOR 250 AUTO-FOCUS

With automatic timer for changing slides, adjustable for 3-30 sec., with low voltage Halogen-lamp 24V, 250W, voltage selector 110-240 V/AC, aspherical condenser, heat filter, inter-

changeable field condenser, focusing mount for lens, supply-line cord, 10 ft. remote-control cord, snap-on projector cover, one 36-slide magazine, and projection lens.

Each of these projectors is offered with a wide selection of projection lenses. For prices and catalog numbers, see the chart on the next page.

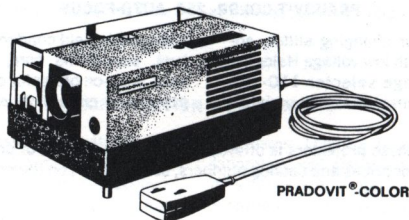
# PRADOVIT-COLOR PROJECTORS

## PRADOVIT-COLOR PROJECTORS

**PLEASE NOTE:** It is not possible to convert the 150 model to a 250, nor is it possible to convert a Pradovit-Color to the Auto-Focus model.

WITH PROJECTION LENS	PRADOVIT-COLOR 150	PRADOVIT-COLOR 150 AUTO-FOCUS	PRADOVIT-COLOR 250	PRADOVIT-COLOR 250 AUTO-FOCUS
Elmaron 35mm f/2.8	Cat. #30,686	Cat. #30,788	Cat. #30,685	Cat. #30,684
Elmaron 50mm f/2.8	Cat. #30,656	Cat. #30,758	Cat. #30,655	Cat. #30,654
Elmaron 85mm f/2.8	Cat. #30,646	Cat. #30,748	Cat. #30,645	Cat. #30,644
Colorplan 90mm f/2.5	Cat. #30,616	Cat. #30,718	Cat. #30,615	Cat. #30,614
Hektor 120mm f/2.5	Cat. #30,626	Cat. #30,728	Cat. #30,625	Cat. #30,624
Elmaron 150mm f/2.8	Cat. #30,636*	Cat. #30,738*	Cat. #30,635*	Cat. #30,634*
Elmaron 200mm f/3.6	Cat. #30,666*	Cat. #30,768*	Cat. #30,665*	Cat. #30,664*
Elmaron 250mm f/4	Cat. #30,676*	Cat. #30,778*	Cat. #30,675*	Cat. #30,674*

\*Projector snap-on cover not supplied, will not fit over this focal length lens. In its place order number 37,952 Special Carrying Case — for Pradovit Color 150 and 150 Auto-Focus models. For Pradovit Color 250 and 250 Auto Focus models, order case number 37,962. Both of these cases accommodate lenses up to and including 250mm.



# PRADOVIT-COLOR COMPONENTS

## BASIC PRADOVIT-COLOR PROJECTORS

Catalog Number	Item
30,696	Pradovit-Color 150, basic projector, without: lamp, line cord, remote-control cord, field condenser, lens, focusing mount and cover .....
30,798	Pradovit-Color 150 Autofocus Basic Projector without lamp, line cord, remote-control cord, field condenser, lens, focusing mount and cover .....
30,695	Pradovit-Color 250 basic projector without lamp, line cord, remote-control cord, field condenser, lens focusing mount and cover .....
30,694	Pradovit-Color 250 Autofocus, basic projector, without: lamp, line cord, remote-control cord, field condenser, lens, focusing mount and cover .....

## LENSES, FOCUSING SLEEVES, AND FIELD CONDENSERS

LENS	FOCUSING SLEEVE	FIELD CONDENSER
35mm Elmaron f/2.8 Cat. #37,041	Cat. #37,119	Cat. #37,210
50mm Elmaron f/2.8 Cat. #37,051	Cat. #37,119	Cat. #37,210
60mm Elmaron f/2.8* Cat. #37,004	Cat. #37,119	Cat. #37,217
85mm Elmaron f/2.8 Cat. #37,003	Cat. #37,119	Cat. #37,211
90mm Colorplan f/2.5 Cat. #37,010	Cat. #37,120	Cat. #37,211
120mm Hektor f/2.5 Cat. #37,020	Cat. #37,120	Cat. #37,211
150mm Elmaron f/2.8 Cat. #37,030	Cat. #37,121	Cat. #37,212
200mm Elmaron f/3.6 Cat. #37,061	Cat. #37,123	Cat. #37,212
250mm Elmaron f/4 Cat. #37,081	Cat. #37,124	Cat. #37,212

\*Not usable on Prado Universal

## DAYLIGHT PROJECTION BOX

37,943	Daylight Projection Box with translucent screen for Pradovit-color projectors equipped with 50mm lenses. Image size on screen 15" x 15" .....
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# PRADOVIT—COLOR COMPONENTS

## CONTINUOUS PROJECTION

The Pradovit-Color Projectors listed above may be ordered with a built-in cycling device (Catalog #37,929 for the "150" models and #37,940 for the "250" models) for automatic continuous projection. When the projector is ordered with the cycling device (#37,929 for the "150" models and #37,940 for the "250" models), the cost is that of the cycling device plus the projector.

The cycling device may not be purchased separately to install on a Pradovit-Color Projector. However, Pradovit-Color Projectors in the field may be converted. But they must be returned to E. Leitz, Inc., Rockleigh or to a Leica Repair Station for this service. The conversion cost will be that of the cycling device plus a \$12.00 conversion charge and plus transportation charges both ways.

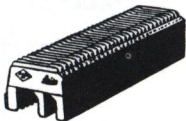
Catalog Number	Item
37,929	<b>Built-in Device for Optional Continuous Cycling</b> of the magazine for continuous projection with a Pradovit-Color 150 Projector. Complete with two activating plates .....
37,940	<b>Built-in Device for Optional Continuous Cycling</b> of the magazine for continuous projection with a Pradovit-Color 250 Projector. Complete with two activating plates .....
37,933	<b>Activating Plate</b> , as replacement, for use with continuing cycling device .....

### IMPORTANT

Please read the paragraphs above carefully.

## LEITZ MAGAZINES FOR PRADOVIT AND PRADOLUX PROJECTORS

37,803	<b>Magazine 2-Pack</b> , package of two 30-slide magazines and two slide retaining straps in transparent plastic box .....
37,802	<b>Plastic Storage Box</b> , transparent. Holds two 30-slide Leitz projector magazines. As supplied with #37,803 .....
37,844	<b>36-Slide Magazine 2-Pack</b> . Package of two 36-slide magazines and two slide retaining straps in stackable drawer-type storage box .....
37,845	<b>Plastic Storage Box</b> , stackable drawer-type, as supplied with #37,844 .....
37,855	<b>50-Slide Magazine 2-Pack</b> . Package of two 50-slide magazines and two slide retaining straps in stackable drawer-type storage box .....
37,856	<b>Plastic Storage Box</b> , stackable drawer-type, as supplied with #37,855 .....
98,230	<b>One Box of Twelve Slide Retaining Straps</b> for 30 slide magazine .....
98,236	<b>One Box of Twelve Slide Retaining Straps</b> for 36 slide magazine .....
98,250	<b>One Box of Twelve Slide Retaining Straps</b> for 50 slide magazine .....



# PRADOVIT—COLOR ACCESSORIES

## MULTIPLE PROJECTION SYSTEM

Catalog  
Number

Item

- 98,761 Multiple Projection System, control unit for alternate projection with two Pradovit-Color 250 Autofocus projectors, however, without lenses, lens sleeves, and field condensers, but including the required connection cords and remote control cord .....

## PRADOVIT TAPE SYNCHRONIZATION ACCESSORIES

- 37,908 Pradovit Multiple Outlet, with connecting cable, is now in two forms. The "old" type, without markings, for Pradovit FA, N and N24 projectors; and the "new" type, identified by Recorder and remote control markings, for the Pradovit-Color projector. Permits use of remote control and focusing cord with synchronizer connecting cable #37,907 .....

**NOTE:** When ordering, specify for which projector the outlet is required.

## ACCESSORIES FOR THE PRADOVIT-COLOR PROJECTORS

- 37,936 Special Light Pointer, attaches directly to remote control switch panel without requiring any special adjustments .....
- 37,721 Spare Bulb for Pradovit Color Pointer (Catalog No. 37,936) .....
- 37,937 Adapter Brackets for Pradovit Color; will accept Micro Projection Attachments as well as other front Attachments of the Prado (See Page 14) .....
- 37,656 Line cord .....
- 37,934\* Remote-Control cord, 10 ft. (Not for AF models) .....
- 37,941\* Remote-Control cord, 10 ft. for AF models .....
- 37,931 16 ft. Extension for remote-control cord .....
- 37,932 50 ft. Extension for remote-control cord .....
- 37,930 Snap-on cover as replacement for Pradovit-Color projector, equipped with lenses up to 120mm focus .....
- 37,952 Special Carrying Case, for Pradovit Color 150 and 150 Auto-Focus to accommodate all lenses up to and including 250mm focal length .....
- 37,962 Special Carrying Case, for Pradovit Color 250 and 250 Auto-Focus to accommodate all lenses up to and including 250mm focal length .....
- 37,717 Halogen low-voltage lamp, 24V, 150W (domestic) .....
- 37,723 Halogen low-voltage lamp, 24V, 250W (imported) .....

**\*NOTE:**

This remote-control cord is only for the PRADOVIT-COLOR. It must not be used on any Pradovit-N or FA projectors or damage to the projector will result. Likewise, the remote-control cord from the former Pradovits must never be used on the PRADOVIT-COLOR.

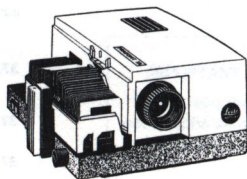
# PRADOVIT TA

The Pradovit TA is a low voltage 150 watt, 24 volt Halogen lamp projector for 35mm slides offered at moderate prices, but with the superb optical qualities of the Pradovit Color projectors. Pradovit TA uses the same slide trays as the Pradovit Color and is motorized for forward and reverse slide changing. Manual operation is possible, as is single slide projection. A direct and highly efficient fan cools the housing, slides and lamp. The voltage selector switch gives a choice

of either 110-130V or 220-240V power supply. Pradovit TA is also equipped with an economical and full power switching, automatic thermal cut-off, a three way lamp adjustment, aspheric illumination optics: interchangeable condenser, heat filter and reflector in common mounting. The Pradovit TA is the ideal choice for home use for those who do not require the automatic features of the Pradovit Color projectors.

## PRADOVIT TA PROJECTOR

Catalog Number	Item
30,157	Pradovit TA Projector, complete with 50mm Elmaron f/2.8 projection lens .....
30,159	Pradovit TA Projector, complete with 85mm Elmaron f/2.8 projection lens .....
30,160	Pradovit TA Projector, complete with 90mm Colorplan f/2.5 projection lens .....



## ACCESSORIES FOR PRADOVIT TA

37,945	Case .....
37,717	Projection Bulb, 24V, 150 watt Halogen (as replacement) .....
37,645	Line Cord (replacement) .....

## LENSES FOR PRADOVIT TA

37,051	50mm Elmaron f/2.8 projection lens .....
37,003	85mm Elmaron f/2.8 projection lens .....
37,005	90mm Colorplan f/2.5 projection lens .....

NOTE: The above lenses are interchangeable. No additional focusing mount required.

## FIELD CONDENSERS FOR PRADOVIT TA

37,220	Field condenser for 50mm Elmaron f/2.8 projection lens .....
37,219	Field condenser for 85mm Elmaron f/2.8 and 90mm Colorplan f/2.5 projection lens .....

This smallest of the Leitz projectors is powerful far beyond its specifications. Measuring only 8½ x 4¼ x 5¼-inches and using a 150W, 110V bulb, it puts more light on the screen than some projectors of 300W.

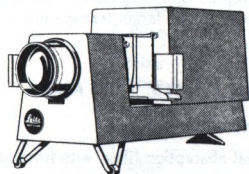
The Pradix is designed to offer portability, simple operation, versatility and optical excellence

at a low price. Its manual slide changer accepts all 2 x 2-inch slides.

The Pradix is an excellent choice as a tabletop projector for slide editing and sales presentation work, for regular home projection or for taking along on your travels.

A socket in the base of the Pradix permits you to use an ordinary tripod as a projection stand, if you wish.

## PRADIX PROJECTOR



Pradix Projector

Catalog Number	Item
31,403	Pradix Projector, complete with 85mm Elmaron f/2.8 projection lens, manual slide changer, 150W bulb .....
31,45b	Pradix Projector, as above, but with 50mm Elmaron f/2.8 projection lens .....

## ACCESSORIES FOR THE PRADIX

37,413	Plastic Carrying Case .....
37,849	Slide Changer .....
37,846	Film Strip Carrier .....
98,588	Projection Bulb BEH, 150W, 115-120V .....
37,207	Condenser for 85mm projector lens .....
37,208	Condenser for 50mm projection lens .....

## LENSES FOR PRADIX

37,051	50mm Elmaron f/2.8 projection lens .....
37,003	85mm Elmaron f/2.8 projection lens .....

# PRADO UNIVERSAL

## PRADO UNIVERSAL PROFESSIONAL "35" & "2 1/4 x 2 1/4"

The Prado Universal Projectors are perhaps the most precise and versatile instruments of their kind available. Powerful, versatile (ten different lenses available for the Prado Universal "35" and six for the Prado Universal "2 1/4 x 2 1/4"), the manually operated Prado-Universal can turn its hand to nearly any projection job. Accessories adapt it to project microscope slides and even the image of living organisms. Or, it can be quickly switched to film strip projection or converted to a reader for micro-filmed records.

The Prado Universal "35" Projector is for 2 x 2 inch slide mounts. The Prado Universal "2 1/4 x 2 1/4" is basically the same projector, but its optics and slide carriers are designed to work most efficiently with transparencies larger than 35mm or Superslides. For casual viewing, the

smaller slides can be used in the Prado Universal "2 1/4 x 2 1/4" by just replacing the slide carrier with one designed for 2 x 2 inch slide mounts. But for maximum optical efficiency, the entire front assembly of the "2 1/4 x 2 1/4" as well as its illuminating system with reflector and aspherical condenser plus its heat absorption filter should be replaced with the components especially designed for the Prado Universal "35". This is important if the smaller slides are to be projected frequently.

This replacement effectively converts the Prado Universal "2 1/4 x 2 1/4" into the Prado Universal "35". Conversely, the Prado Universal "35" can be converted readily into the Prado Universal "2 1/4 x 2 1/4" by replacing its original components with one designed for the larger transparencies.

## PRADO-UNIVERSAL PROJECTORS ARE AVAILABLE IN TWO MODELS. THEY ARE:

### PRADO-UNIVERSAL "35" PROFESSIONAL PROJECTOR

For slides in 2" x 2" mounts, with low voltage Halogen-lamp 24V, 250W two path blower, voltage selector 100-240V, supply line cord, illuminating system with reflector and aspherical

condenser, heat absorption filter, with front assembly, field condenser, slide changer and projection lens.

### PRADO-UNIVERSAL 2 1/4" x 2 1/4" PROFESSIONAL PROJECTOR

For slides in 2 3/4" x 2 3/4" mounts, with Halogen-lamp 24V, 250W two path blower, voltage selector 100-240V, supply-line cord, illuminating

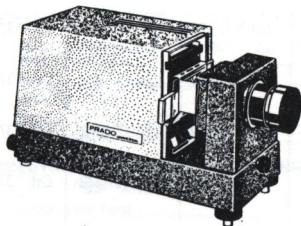
system with reflector, aspherical condenser and heat absorption filter, with front assembly, field condenser, slide changer and projection lens.

Each of these projectors is offered with a wide selection of projection lenses. For prices and catalog numbers, see the chart on the next page.

## PRADO-UNIVERSAL PROJECTORS

WITH PROJECTION LENS	PRADO-UNIVERSAL "35"	PRADO-UNIVERSAL "2¼ x 2¼"
Elmaron 35mm f/2.8	Cat. #31,618	Not Available *
Elmaron 50mm f/2.8	Cat. #31,619	Not Available *
Colorplan 90mm f/2.5	Cat. #31,620	Not Available *
Hektor 120mm f/2.5	Cat. #31,621	Not Available *
Elmaron 150mm f/2.8	Cat. #31,622	Cat. #31,628
Elmaron 200mm f/3.6	Cat. #31,623	Cat. #31,629
Hektor 200mm f/2.5	Cat. #31,624	Cat. #31,630
Elmaron 250mm f/4	Cat. #31,625	Cat. #31,631
Hektor 250mm f/2.8	Cat. #31,626	Cat. #31,632
Hektor 300mm f/2.8	Cat. #31,627	Cat. #31,633

\*Only lenses of 150mm focal length and longer are used on Prado-Universal "2¼ x 2¼"



**PRADO-UNIVERSAL "35"**

# PRADO-UNIVERSAL CONVERSION

## CONVERSIONS

The Prado-Universal "35" may be easily converted to the Prado-Universal "2¼ x 2¼" model, as may the "2¼ x 2¼" be converted to the "35" model.

**TO CONVERT A PRADO-UNIVERSAL "35" TO PRADO-UNIVERSAL "2¼ x 2¼"**

**TO USE THIS LENS\***

**YOU NEED THESE COMPONENTS**

	FRONT ASSEMBLY	COVER PLATE	ILLUMINATING SYSTEM WITH FILTER	SLIDE CHANGER	FOCUSING SLEEVE
150mm f/2.8 Elmaron Cat. #37,030	Cat. #32,311	Cat. #37,867	Cat. #37,871	Cat. #37,815	Cat. #37,186
200mm f/3.6 Elmaron Cat. #37,061	Cat. #32,310	Cat. #37,867	Cat. #37,871	Cat. #37,815	Cat. #37,188
200mm f/2.5 Hektor Cat. #37,079	Cat. #32,310	Cat. #37,867	Cat. #37,871	Cat. #37,815	Cat. #37,189
250mm f/4 Elmaron Cat. #37,081	Cat. #32,310	Cat. #37,867	Cat. #37,871	Cat. #37,815	Cat. #37,190
250mm f/2.8 Hektor Cat. #37,098	Cat. #32,310	Cat. #37,867	Cat. #37,871	Cat. #37,815	Cat. #37,191
300mm f/2.8 Hektor Cat. #37,093	Cat. #32,310	Cat. #37,867	Cat. #37,871	Cat. #37,815	Cat. #37,192

\*Only lenses of a focal length of 150mm or longer can be used with a Prado-Universal "2¼ x 2¼"

**TO CONVERT A PRADO-UNIVERSAL "2¼ x 2¼" TO A PRADO-UNIVERSAL "35"**

**TO USE THIS LENS**

**YOU NEED THESE COMPONENTS**

	FRONT ASSEMBLY	ILLUMINATING SYSTEM	FIELD CONDENSER	HEAT FILTER	SLIDE CHANGER	FOCUSING SLEEVE
35mm f/2.8 Elmaron Cat. #37,041	Cat. #32,402	Cat. #37,872	Cat. #37,216	Cat. #37,869	Cat. #37,849	Cat. #37,119
50mm f/2.8 Elmaron Cat. #37,051	Cat. #32,402	Cat. #37,872	Cat. #37,216	Cat. #37,869	Cat. #37,849	Cat. #37,119
90mm f/2.5 Colorplan Cat. #37,010	Cat. #32,402	Cat. #37,872	Cat. #37,215	Cat. #37,869	Cat. #37,849	Cat. #37,120
120mm f/2.5 Hektor Cat. #37,020	Cat. #32,402	Cat. #37,872	Cat. #37,215	Cat. #37,869	Cat. #37,849	Cat. #37,120
150mm f/2.8 Elmaron Cat. #37,030	Cat. #32,402	Cat. #37,872	Cat. #37,214	Cat. #37,869	Cat. #37,849	Cat. #37,121
200mm f/3.6 Elmaron Cat. #37,061	Cat. #32,402	Cat. #37,872	Cat. #37,213	Cat. #37,869	Cat. #37,849	Cat. #37,123
200mm f/2.5 Hektor Cat. #37,079	Cat. #32,402	Cat. #37,872	Cat. #37,213	Cat. #37,869	Cat. #37,849	Cat. #37,125
250mm f/4 Elmaron Cat. #37,081	Cat. #32,402	Cat. #37,872	Cat. #37,213	Cat. #37,869	Cat. #37,849	Cat. #37,124
250mm f/2.8 Hektor Cat. #37,098	Cat. #32,402	Cat. #37,872	Cat. #37,213	Cat. #37,869	Cat. #37,849	Cat. #37,126
300mm f/2.8 Hektor Cat. #37,093	Cat. #32,402	Cat. #37,872	Cat. #37,213	Cat. #37,869	Cat. #37,849	Cat. #37,127

# PRADO UNIVERSAL ACCESSORIES

## BASIC COMPONENTS FOR PRADO UNIVERSAL "35"

Catalog Number	Item
31,600	Basic Prado-Universal Projector housing with blower, WITHOUT lamp, cord, condenser system, front assembly or lens .....
37,872	Illuminating System with reflector and aspherical condenser .....
37,869	Heat Absorption Filter .....

### FRONT ASSEMBLY

32,402	Front Attachment only .....
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## BASIC COMPONENT PARTS FOR PRADO-UNIVERSAL "2¼x2¼"

31,600	Basic Prado-Universal Projector housing only .....
NOTE	This is the same basic housing as used on the Prado-Universal "35".
37,871	Illuminating System with aspherical condenser and heat absorption filter .....
37,867	Cover Plate .....

### FRONT ASSEMBLIES

32,311	Front Assembly "6x6" with field condenser for 150mm Elmaron lens .....
32,310	Front Assembly "6x6" with field condenser for lenses 200, 250, and 300mm .....

## SLIDE & FILM STRIP CARRIERS FOR PRADO UNIVERSAL "35"

98,477	Semi-automatic Magazine Changer for Prado Universal — accepts the 30, 36 or 50-slide magazines supplied for the Pradovit; magazines not included .....
98,478	Semi-automatic Magazine Changer for discontinued Prado 500 — accepts the 30, 36 or 50-slide magazines supplied for the Pradovit; magazines not included .....
98,849	Manual Slide Changer for 2x2 slides, greater separation between slides than on changer number 37,849 facilitates feeding of slides from both sides .....
37,849	Manual Slide Changer for 2x2 slides .....
37,868	Film Strip Carrier for 24x36mm with mask 18 x 24mm .....

## SLIDE CHANGERS FOR PRADO-UNIVERSAL "2¼ x 2¼"

37,815	Manual Slide Changer for 2¼" x 2¼" (70 x 70mm) Area 54 x 54mm .....
37,816	Manual Slide Changer for 2¼" x 2¼" (60 x 60mm), Area 54 x 54mm .....
37,865	Manual Slide Changer for 2" x 2" slides, 24 x 36mm or superslides, Area 38 x 38mm .....

## CONNECTING CORDS FOR PRADO UNIVERSAL "35" AND "2¼ x 2¼"

37,656	Supply-Line Cord .....
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## SPARE LAMPS FOR PRADO UNIVERSAL "35" AND "2¼ x 2¼"

37,723	Halogen Low Voltage Lamp 24 Volt, 250 Watt .....
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## CARRYING CASES FOR PRADO UNIVERSAL

37,942	Carrying Case for Prado-Universal with lenses up to 150mm focus .....
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# PRADO - UNIVERSAL ACCESSORIES

## LENSES, FOCUSING SLEEVES AND FIELD CONDENSERS FOR PRADO-UNIVERSAL "35"

LENS	FOCUSING SLEEVE	FIELD CONDENSER
35mm Elmaron f/2.8 Cat. #37,041	Cat. #37,119	Cat. #37,216
50mm Elmaron f/2.8 Cat. #37,051	Cat. #37,119	Cat. #37,216
90mm Colorplan f/2.5 Cat. #37,010	Cat. #37,120	Cat. #37,215
120mm Hektor f/2.5 Cat. #37,020	Cat. #37,120	Cat. #37,215
150mm Elmaron f/2.8 Cat. #37,030	Cat. #37,121	Cat. #37,214
200mm Elmaron f/3.6 Cat. #37,061	Cat. #37,123	Cat. #37,213
200mm Hektor f/2.5 Cat. #37,079	Cat. #37,125	Cat. #37,213
250mm Elmaron f/4 Cat. #37,081	Cat. #37,124	Cat. #37,213
250mm Hektor f/2.8 Cat. #37,098	Cat. #37,126	Cat. #37,213
300mm Hektor f/2.8 Cat. #37,093	Cat. #37,127	Cat. #37,213

## LENSES, FOCUSING SLEEVES, AND FRONT ASSEMBLIES WITH FIELD CONDENSERS FOR PRADO-UNIVERSAL "2¼ x 2¼"

LENS	FOCUSING SLEEVE	FRONT ASSEMBLY WITH FIELD CONDENSER
150mm Elmaron f/2.8 Cat. #37,030	Cat. #37,186	Cat. #32,311
200mm Elmaron f/3.6 Cat. #37,061	Cat. #37,188	Cat. #32,310
200mm Hektor f/2.5 Cat. #37,079	Cat. #37,189	Cat. #32,310
250mm Elmaron f/4 Cat. #37,081	Cat. #37,190	Cat. #32,310
250mm Hektor f/2.8 Cat. #37,098	Cat. #37,191	Cat. #32,310
300mm Hektor f/2.8 Cat. #37,093	Cat. #37,192	Cat. #32,310

# MICROPROJECTION ATTACHMENTS

These Attachments may be used with the Prado Universal, Pradovit Color, and the Former Prado 500 and Prado 66 projectors. For use with the Pradavit Color projectors adapter #37,937 must be used.

<b>Catalog Number</b>	<b>Item</b>
32,820	<b>Large Micro Projection Attachment</b> with objectives 4/0.12, 10/0.25 and 25/0.50 as well as 4X Huygens projection eyepiece .....
32,821	<b>Large Vertical Micro Projection Attachment</b> with objectives, 4/0.12, 10/0.25 and 25/0.50 as well as 4X Huygens projection eyepiece, guide rails and deflecting mirror .....
37,937	<b>Adapter Brackets for Pradovit Color;</b> will accept Micro Projection Attachments as well as other front Attachments of the Prado .....
31,635	<b>Prado-Universal "35" Professional Projector For Micro Attachments.</b> For slides in 2"x2" mounts, with low voltage Halogen-lamp 24V, 250W two path blower, voltage selector 100-240V, supply-line cord, illuminating system with reflector and aspherical condenser, heat absorption filter, <b>WITHOUT</b> front assembly, field condenser, slide changer, projection lens and focusing sleeve .....

# PROJECTION TABLES

PROJECTION DISTANCES IN FEET	TRANSPARENCIES 24 x 36 mm											TRANSPARENCIES 2 1/4 x 2 1/4" or 2 3/4 x 2 3/4" (effective size 54 x 54 mm)				
	FOCAL LENGTH OF PROJECTION LENSES IN mm															
	35	50	85	90	100	120	150	175	200	250	300	150	175	200	250	300
7'	6"7"	4"9"														
10'	9"10"	7"1"	4"	3"9"	3"5"									3"5"		
13'	13"1"	9"2"	5"3"	5"1"	4"7"	3"11"								4"7"	4"1"	3"5"
16'		11"6"	6"7"	6"6"	5"11"	4"11"	3"11"							5"9"	5"1"	4"3"
20'		13"9"	8"2"	7"8"	7"1"	5"11"	4"7"	4"3"						7"1"	6"1"	5"3"
23'			9"4"	9"	8"3"	6"11"	5"5"	4"9"						8"2"	7"1"	6"1"
26'			10"8"	10"4"	9"4"	7"8"	6"3"	5"5"	4"7"					9"4"	8"	6"11"
30'			12"3"	11"6"	10"6"	8"10"	7"1"	6"1"	5"3"					10"6"	9"2"	7"10"
33'			13"6"	12"10"	11"8"	9"10"	7"10"	6"11"	5"9"	4"7"				11"8"	10"2"	8"8"
36'					12"11"	10"10"	8"6"	7"5"	6"5"	5"1"				12"11"	11"4"	9"6"
39'					14"1"	11"10"	9"4"	8"2"	6"11"	5"7"	4"7"			14"1"	12"4"	10"6"
43'						12"10"	10"2"	8"10"	7"7"	6"1"	4"11"			13"1"	11"6"	9"
46'						13"9"	11"	9"6"	8"2"	6"7"	5"5"			14"1"	12"4"	9"10"
49'							11"8"	9"10"	8"8"	7"1"	5"9"				13"1"	10"6"
52'							12"2"	10"8"	9"4"	7"5"	6"1"				14"1"	11"2"
56'								11"6"	9"10"	7"10"	6"7"					11"10"
59'								12"4"	10"6"	8"4"	6"11"					12"8"
62'								13"1"	11"2"	8"10"	7"3"					13"3"
66'								13"9"	11"10"	9"4"	7"9"					14"1"
69'									12"4"	9"10"	8"					12"4"
72'									12"10"	10"4"	8"4"					13"
82'									14"9"	11"10"	9"6"					14"9"
98'										14"1"	11"6"					
115'											13"5"					

Figures give the longer screen image side. Corresponding square projection screens should be used to allow for horizontal and vertical pictures of the 24 x 36 mm frame

MICRO PROJECTION ATTACHMENT						
25 mm Summar f/2.8 - 10 mm Stage Aperture						
Screen Distance	6'	9'	12'	15'	18'	21'
Magnification	72 x	109 x	145 x	182 x	219 x	255 x
Image Size	2' 4"	3' 7"	4' 9"	6'	7' 2"	8' 4"

A picture worth taking is worth preserving. No matter how carefully you store and handle your unmounted color transparencies, they will collect dust, finger marks and scratches. To keep them perfect, you should bind them between glass. Then they are safe and you can easily clean the glass cover without ever touching the transparency itself.

Furthermore, glass-binding is the only way to

keep slides absolutely flat in the focal plane of the projection lens. And the better the lens, the more important this becomes in preventing out-of-focus areas on the screen. For wide-screen projection, it is vital. For speed and convenience, either Perrot-Color or Per-O-Slide binders are recommended. To bind large quantities of slides at minimum expense, glass plates, binding tape and metal masks are available.

### PERROT-COLOR AND PER-O-SLIDE BINDERS

The new Perrot-Color and Per-O-Slide mounts offer you the fastest method we know of to mount 35mm transparencies permanently between glass. There are also Perrot binders for the popular new No. 126-size transparencies as well as 2¾" x 2¾" and 3¼" x 3¼" material. With adapter masks, slides from No. 120-size film can be mounted in the 3¼" x 3¼" binders. After you have sandwiched your transparency between the uniformly thin cover glasses, it is only a matter of seconds to seal it securely in the metal binder, using the special Proloc quick-fastener.

Perrot-Color binders are packed with one of two types of cover glass—conventional and treated. The latter is especially surfaced to prevent Newton's Rings which appear as colored rings on the projection screen, degrading the picture. Since, in most cases, only the glossy side of a transparency poses a Newton's Rings problem, only one treated glass is necessary per slide "sandwich". So, the most satisfactory and economical way to use Perrot-Color binders is to get one package each of both treated and untreated glass, using one sheet of each type to bind a single slide.

When only untreated glass is used, it is best to use accessory metal Anti-Newton's Rings masks between the glass and the glossy side of the transparency to prevent Newton Rings problems.

Users of Superslides can also enjoy the advantage of Perrot-Color binders, since they are available with masks for this format. Outer dimensions of the Superslide binders are the same as those for 35mm transparencies.

For automatic projectors employing metal frame holders in their magazines and which do not accept the usual glass-mounted slides there is available a special, ultra-thin version of the Perrot-Color mount. It is sealed in the same way as the regular Perrot-Color mount, but a special quick-fastener is required. The ultra-thin binders are available for 35mm slides only.

Still another type of mount available is the Per-O-Slide—the answer to the busy hobbyist's prayer. The Per-O-Slide mount accepts your transparency complete with cardboard mount as it comes back from processing yet the outside dimensions remain the same as those of the cardboard mount. The only preparation involved is the pre-trimming of the cardboard—a matter of seconds when using the special Procut trimmer.

Another useful accessory for slide binding is the Perocut Film Trimmer for 35mm film. You can use it for cutting apart negative strips for filing or for accurate trimming of individual 35mm negatives or transparencies of several formats prior to binding them in glass. And it is a virtual "must" for anyone who processes his own color film.

## PERROT-COLOR BINDERS FOR UNMOUNTED 24 x 36mm TRANSPARENCIES

Catalog Number	Item
19,847	Perdia 2" x 2" plastic slide mounts without glass, can not be used with glass .....
19,850	Perrot-Color 2" x 2" metal slide mounts; partially assembled, packaged in transparent plastic box with five extra cover frames and self-adhesive labels. Box of 25 .....
19,852	Perrot-Color 2" x 2" metal slide mounts; unassembled, packaged in cardboard containers with five extra cover frames and self-adhesive labels. Box of 25 .....
19,841	Perrot-Color 2" x 2" metal slide mounts for 24 x 36mm transparencies with conventional glass plates, unassembled, packaged separately in folding cardboard box with 20 extra frame covers and self-adhesive labels. Box of 100 .....
19,853	Perrot-Color 2" x 2" metal slide mounts with treated anti-newton-ring glass, unassembled, packaged in a special transparent plastic box with grooved and numbered inserts, converting the empty plastic box into a storage box for mounted transparencies, with 5 extra cover frames and self-adhesive labels, box of 25 .....
19,854	Perrot-Color 2" x 2" metal slide mounts with treated, anti-Newton's Rings glass. Unassembled, packaged in cardboard containers with five extra cover frames and self-adhesive labels. Box of 25 .....
19,842	Perrot-Color 2" x 2" metal slide mounts for 24 x 36mm transparencies with ANTI-NEWTON-RING treated glass plates, unassembled, packaged separately in folding cardboard box with 20 extra frame covers and self-adhesive labels. Box of 100 .....
	(Use Proloc Rapid Fastener #19,875 or #19,878 for sealing all mounts above.)
19,863	Perrot-Color Ultra-Thin 2" x 2" metal slide mounts. Same as #19,852 except ultra thin for use in magazines with their own metal frames. Must use Proloc Rapid Fastener (Cat. #19,874 or #19,873) for sealing. Box of 25 .....
19,843	Perrot-Color Ultra-Thin 2" x 2" metal slide mounts for 24 x 36mm transparencies, with extra thin clear glass plates, unassembled, packaged separately in folding cardboard box with 20 extra frame covers and self-adhesive labels. Box of 100 .....
19,864	Perrot-Color Ultra-Thin 2" x 2" metal slide mounts. Same as #19,863 except that anti-Newton's Rings glass is provided. Must use Proloc Rapid Fastener (Cat. #19,874 or #19,873) for sealing. Box of 25 .....
19,844	Perrot-Color Ultra-Thin 2" x 2" metal slide mounts for 24 x 36mm transparencies, with extra thin ANTI-NEWTON-RING treated glass plates, unassembled, packaged separately in folding cardboard box with 20 extra frame covers and self-adhesive labels. Box of 100 .....

**PERROT-COLOR BINDERS FOR TRANSPARENCIES  
SMALLER THAN 24 x 36mm  
(use Proloc Rapid Fastener #19,875 or #19,878)**

Catalog Number	Item
19,856	Perrot-Color 2x2" metal slide mounts with mask for transparencies from TESSINA camera (14x21mm), anti-Newton's Rings glass. Box of 25 .....
19,849	Perrot-Color 2x2" metal slide mounts with mask for single-frame (18x24mm) 35mm transparencies, anti-Newton's Ring glass. Box of 20 .....
19,890	Perrot-Color 2" x 2" metal slide mounts for #126 (28 x 28 mm) transparencies, taken with Eastman Kodak Instamatic Camera, anti-Newton ring glass plates, box of 20 .....

**PERROT-COLOR BINDERS FOR UNMOUNTED  
38 x 38mm (SUPERSLIDE) TRANSPARENCIES**

(Use Proloc Rapid Fastener #19,875 or #19,878 for sealing Perrot-Color and Per-O-Slide mounts below).

19,861	Perrot-Color Superslide metal mounts with conventional glass plates; trimming template included. Box of 24 supplied in a transparent plastic box with glass plates inserted into frames .....
19,839	Perrot-Color Superslide metal mounts with conventional glass plates; trimming template, unassembled, packaged separately in a cardboard box, with self-adhesive labels. Box of 25 .....
19,845	Perrot-Color Superslide metal mounts with conventional glass plates; trimming template, unassembled, packaged separately in folding cardboard box, with self-adhesive labels. Box of 100 .....
19,862	Perrot-Color Superslide metal mounts with ANTI-NEWTON-RING, treated glass plates; trimming template included. Box of 24 supplied in a transparent plastic box with glass plates inserted into frames .....
19,840	Perrot-Color Superslide metal mounts with ANTI-NEWTON-RING treated glass plates, trimming template, unassembled, packaged separately in a cardboard box, with self-adhesive labels. Box of 25 .....
19,846	Perrot-Color Superslide metal mounts with ANTI-NEWTON-RING treated glass plates, trimming template, unassembled, packaged separately in a folding cardboard box, with self-adhesive labels. Box of 100 .....

## PERROT-COLOR BINDERS FOR SLIDES LARGER THAN 2" x 2"

<i>Catalog Number</i>	<i>Item</i>
19,892	Perrot-Color 2 $\frac{3}{4}$ " x 2 $\frac{3}{4}$ " (70 x 70 mm) metal slide mounts for 2 $\frac{1}{4}$ " x 2 $\frac{1}{4}$ " format. Masking window, 2 $\frac{1}{4}$ " x 2 $\frac{1}{4}$ " (54 x 54 mm) with anti-Newton ring treated glass plates, box of 20. Must use Proform Rapid Fastener #19,893 .....
19,895	Perrot-Color metal slide mounts for "IDEAL" format 3 $\frac{1}{4}$ " x 3 $\frac{1}{4}$ " (83 x 83 mm), masking window 2 $\frac{1}{4}$ " x 2 $\frac{1}{4}$ " (54 x 70 mm) with anti-Newton ring treated glass plates, box of 12. Must use Proli Rapid Fastener #19,897 .....

## PER-O-SLIDE BINDERS FOR 24 x 36mm TRANSPARENCIES LEFT IN CARDBOARD MOUNTS

19,858	Per-O-Slide 2" x 2" metal slide mounts with glass plates accepting 35mm transparencies in cardboard mounts; film remains in the cardboard mount (Ready-mount); cardboard mount is trimmed by trimmer #19,877; unassembled, packaged in cardboard container. Box of 25 .....
19,859	Per-O-Slide 2" x 2" metal slide mount with anti-Newton's Rings treated glass plates; unassembled, packaged in cardboard containers. Box of 25 .....

## RAPID FASTENERS FOR PERROT-COLOR AND PER-O-SLIDE BINDERS

19,875	Proloc Rapid Fastener for sealing Perrot-Color and Per-O-Slide mounts; lever operated .....
19,874	Ultra-Thin Proloc Rapid Fastener for sealing Ultra-Thin Perrot-Color mounts; lever operated .....
19,878	Proloc Precision Fastener, made of stainless steel, for sealing Perrot-Color and Per-O-Slide mounts; lever operated .....
19,873	Proloc Precision Fastener Ultra-Thin, made of stainless steel, for sealing Ultra-Thin Perrot-Color mounts; lever operated .....
19,893	Proform Rapid Fastener for sealing Perrot-Color 2 $\frac{3}{4}$ " x 2 $\frac{3}{4}$ " mounts #19,892 .....
19,897	Proli Rapid Fastener for sealing Perrot-Color "IDEAL" frames #19,895 .....

# SLIDE BINDING ACCESSORIES

## ACCESSORIES AND COMPONENTS FOR PERROT-COLOR AND PER-O-SLIDE BINDERS

Catalog Number	Item
19,877	<b>Procut Cardboard Mount Trimmer</b> for use in trimming cardboard slide mounts to fit Per-O-Slide mounts, Cat. #19,858, #19,859 .....
19,876	<b>Perocut Film Trimmer</b> ; for trimming 35mm film prior to binding. Trims regular transparencies to 24 x 36mm, 24 x 24mm or 18 x 24mm and stereo transparencies 24 x 30mm. Built-in illuminator .....
19,855	<b>Metal Masks</b> for preventing Newton's Rings. Package of 50 .....
19,896	<b>Adapter Masks</b> , accepting transparencies on 120 size film for Perrot-Color "IDEAL" metal mounts, box of 48.
19,857	<b>Stereo Masks</b> . For masking Stemar stereo transparencies in Perrot-Color 2 x 2-inch mounts. Box of 50
19,868	<b>Perrot Color Glass</b> (35x38mm), package of 50, replacement glass for #19,850 and 19,852 .....
19,869	<b>Perrot Color Cover Glass</b> (35x38mm) Anti Newton ring type, replacement glass for Perrot Color Mounts #19,853 and 19,854, package of 50 .....
19,888	<b>Perrot-Color Cover Glass</b> , Ultra-Thin, (35 x 38mm). Anti-Newton's Rings type. Package of 50. Replacement glass for #19,864 .....
19,887	<b>Per-O-Slide Cover Glass</b> . Anti-Newton's Rings type. Package of 50. Replacement glass for Per-O-Slide mounts #19,859 .....
19,881	<b>Per-O-Slide Cover Glass</b> . Package of 20. Replacement glass for Per-O-Slide mounts #19,858 .....
19,883	<b>Perrot-Color Cover Glass</b> (42x42mm), Anti-Newton ring type; replacement glass for Perrot-Color (Superslide) Mounts 19,862; Package of 50 .....
19,865	<b>Metal Cover Frames</b> for Perrot-Color 2" x 2" binders. Replacement for use when rebinding. (Not for Ultra-Thin or Superslide mount.) Package of 20 .....
19,867	<b>Metal Cover Frames</b> for Per-O-Slide binders, package of 20 .....
19,870	<b>Metal Cover Frames</b> for Perrot-Color Super Slide mounts, as replacement when rebinding — package of 20 .....
19,866	<b>Metal Cover Frames</b> , Ultra-Thin, 2 x 2-inch. Replacement for rebinding Perrot-Color Ultra-Thin mounts #19,863 and #19,864, package of 20 .....
19,860	<b>Labels</b> for slide identification (self-adhesive). Not for use with Superslide mounts. Package of 4 sheets, 40 labels per sheet .....
19,880	<b>Plastic Box</b> (transparent). Will hold 25 Perrot-Color or Per-O-Slide mounts .....

### GLASS, MASKS AND BINDING TAPE FOR BINDING COLOR TRANSPARENCIES

19,821	<b>Glass Plates</b> with ground edges for mounting transparencies; box of 100 .....
19,825	<b>Silvered Masks</b> (2 x 2-inch) with 24 x 36mm aperture for masking transparencies; box of 100 .....
19,823	<b>Binding Tape</b> (½" wide), silver-finish, high-strength Mylar, for binding slides with Bindomat or other equipment. 70-ft. roll .....



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## BOOKS

More books have been published, in English and foreign languages, on the Leica and its use than on any other camera. The more outstanding of these are listed here.

<i>Catalog Number</i>	<i>Item</i>
98,008	<b>Leica &amp; Leicaflex Way</b> by Andrew Matheson .....
98,009	<b>Leicaflex Guide</b> , by Andrew Matheson .....
98,029	<b>Leicaflex Book</b> , by Theo Kisselbach .....
98,038	<b>Leica Book</b> , by Theo Kisselbach .....
98,003	<b>"The LEICA and the LEICAFLEX (and Their Systems)"</b> by Josef Makovec, Umschau Verlag, Frankfurt, 1970. The book contains 210 pages, with 143 black and white and 9 color prints under a handsome four-color cover. This is a valuable handbook (8½" x 7½") for any Leica fan .....

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