

Leica

CATALOG
N O. 35

**photographic
equipment**



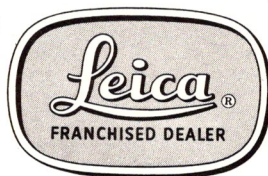
AN EXCLUSIVE LEICA EXTRA: Your Franchised Leica Dealer

Do you know that your Franchised Leica Dealer is an important part of the famous Leica System of photography? He has been carefully chosen to handle this finest of all photographic equipment because of his integrity and his enthusiasm for and knowledge of photography in general and the Leica in particular. Many dealers are graduates of the Leica School in New York City. Hence, they are not only able, but happy to share their Leica knowledge with you because they share your interest in it.

And speaking of that interest—the best way to protect yours is to patronize only Franchised Leica Dealers. Here's why: Leica cameras and accessories, because of their reputation and popularity, are sometimes "handled" by non-franchised dealers. As new, legally imported Leica merchandise is sold only through Franchised Leica Dealers, Leica merchandise obtained through non-franchised dealers is second-hand and sometimes has been obtained through illegal channels. When you buy a Leica camera or lens from your Franchised Leica Dealer he will give you a Leitz import certificate and a Leitz Registration Card identifying the equipment by serial number. Upon the return of the Registration Card to E. Leitz, Inc., you will receive a Guarantee Certificate which is confirmation that you are the original purchaser.

Your Franchised Leica Dealer knows that your best interests are also his. His business methods, advice and service prove it. To be sure of getting all the enjoyment photography holds, buy from the store that displays this sign:

Your Franchised Leica Dealer



proudly displays this sign

PRICES OBSOLETE

Prices Effective March 1, 1960
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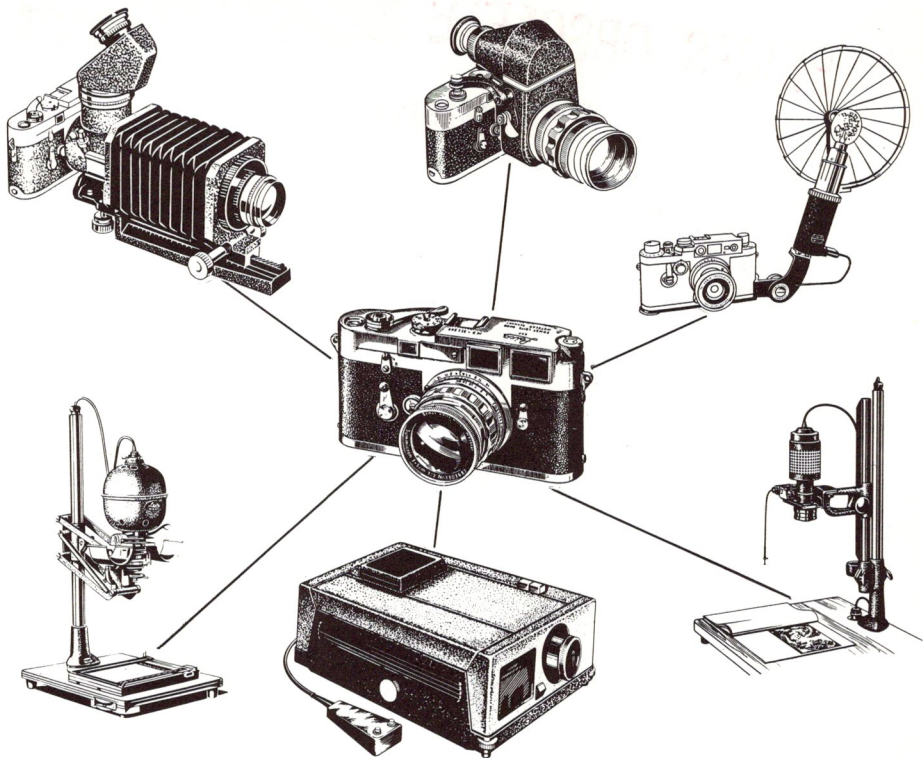
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THE *Leica* SYSTEM . . . key to perfect pictures

Photography means something different to every photographer. To the young mother it means snapshots or color slides of the children. To the advanced amateur it means creative picture-making. To the news photographer it means pictures that say "this is how it was." To the commercial and industrial photographers it means dramatizing industry and the products of industry.

Can one camera meet so many diverse needs? While no one camera is best for every conceivable photographic job, the 35mm camera has proven itself the most versatile single type for most photographic work. And among 35mm cameras, the Leica has been the accepted standard of precision and versatility for 35 years.

Versatile Accessories

Soon after the first Leica appeared in 1925, its designers began to evolve a series of ingenious and marvellously precise accessories. Over the decades, these have been refined and increased in number until today the Leica is used by photographers in every field.

Among the Leica accessories are devices for close-up work, macrophotography, and photomicrography. With them you can copy rare manuscripts, do ophthalmological, medical and dental photography, make life size or larger pictures of plants or insects. The Leica can make a portrait of the moon or of a microbe. With it, you are the most versatile of photographers!

Lenses for Any Job

The versatility of the Leica is based on its selection of superb interchangeable lenses. Leica owners can choose among a wide array of critically sharp, highly corrected lenses with focal lengths from 21mm to 400mm. Such lenses give complete control of perspective, angle of view, image size. And they are available with apertures that range from standard to ultra-high speed. Leica lenses make you the master of any picture situation.

A true system of photography does not stop with top quality lenses and cameras. For, a sparkling negative is only one step toward the final goal—the print. So, to bring your pictures to full perfection, a wide selection of darkroom equipment is also a part of the Leica System of Photography. Daylight developing tanks, contact printers, enlargers, and other darkroom accessories are available to you. And each is designed and manufactured with the same precision lavished on the Leica itself. There are also many other components in the Leica System — filters, exposure meters, lens hoods, carrying cases, to name a few. Each is planned to add further to the ease and convenience of photography with the Leica.

Projectors

The Leitz Prado and Pradovit projectors offer optical and mechanical precision beyond that of ordinary projectors. For it is only by means of such precision design and construction that a projector can recreate on the screen all the brilliance and detail of a color transparency.

Details about the remote-control Pradovit projector, the incomparably versatile Prado "500" and Prado "66" and the efficient little Prado "150" will be found in the Projector section of this catalog.

CAMERAS

When the first Leica was introduced in 1925, a new era in photography began. Today, with 35mm photography more popular than any other type, the Leica is a symbol for all that is first and best in design, performance, and workmanship. For, Leica designers have made the camera almost as easy to use as your eyes.

Whether your interest in photography is casual or deep, amateur or professional, one of the Leica camera models will serve it perfectly. Any Leica you choose will give you a lifetime of service, pride, and pleasure.

LEICA M 3

The most advanced Leica model is the renowned M 3. It is the camera of the world's most famous photographers. Yet, its automatic features make it simple enough for beginners to use with expert skill.

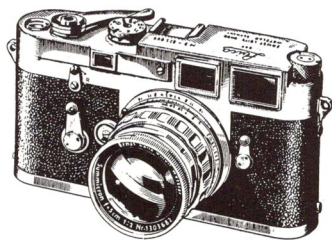
The single-window range- and viewfinder of the M 3 shows a life-size image with built-in luminous-frame finders for 50mm, 90mm, and 135mm lenses. And, with the "RF" Summaron on the M 3, you see the proper wide-angle field for this 35mm lens. The proper frame appears automatically as you attach the lenses to the camera. Parallax compensation is *automatic* as you focus the lens. Thus, the M 3 offers built-in parallax-free focusing and framing throughout

the entire focusing range of each of four lenses. A special frame selector permits you to "pre-view" the 50mm, 90mm, and 135mm fields before actually attaching the lens. The large range-viewfinder area in the center of the viewfinder field can be used as either a coincident or split-image type and includes the depth of field "tabs" discussed in the description of the M2.

A single click-stop dial controls shutter speeds from 1 second to 1/1000 second, including "Bulb." Speeds of the focal-plane shutter are in geometric sequence (1 sec., 1/2 sec., 1/4 sec., 1/8 sec., etc.) so that each gives exactly twice or one-half the exposure of the setting above or below it. This matches the effect of changing apertures at one-stop intervals and provides exact correlation between lens and shutter speeds. The shutter dial can be set either before or after winding the shutter, and intermediate speeds can be accurately set from 1/60 sec. to 1/1000 sec. Flash synchronization for both conventional and electronic flash is *automatic*.

The accessory Leica-Meter "MC" couples to the shutter speed dial and *automatically* adjusts the shutter speed as you line up the selected aperture with the indicator needle.

The rapid-advance lever of the M 3 advances the film with 1, 2 or more strokes, according to your personal preference, and *automatically* winds the shutter for the next exposure at the same time. The exposure counter resets itself to *zero automatically*, and the rewind lever moves to "advance" position *automatically* as you load a fresh film into your camera. A built-in self-timer provides a variable delay between 5 and 10 seconds, so that you can get into the picture yourself, if you wish.



Leica M3 with Rigid 50 mm Summicron f/2 Lens

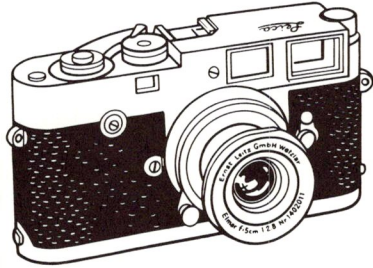
Catalog Number	Code Word	Item	Retail Price
10,150	IGEMO	Leica M 3 without lens	\$270.00*
10,155	IMARO	Leica M 3 with 50mm Elmar f/3.5 lens.	321.00*
10,157	IMOLO	Leica M 3 with 50mm Elmar f/2.8 lens.	330.00*
10,180	ISOUN	Leica M 3 with rigid 50mm Summicron f/2 lens	399.00*
10,185	ISMON	Leica M 3 with Dual-Range 50mm Summicron f/2 lens and Optical Viewing Unit	438.00*
10,165	ISAIO	Leica M 3 with 50mm Summarit f/1.5 lens.	369.00*
10,167	IMOOT	Leica M 3 with 50mm Summilux f/1.4 lens	468.00*

*Including Federal Manufacturer's Excise Tax.

LEICA M 2

The Leica M 2 is a companion camera to the M 3, with features designed for photographers whose needs vary somewhat from those of M 3 users. The single-window, combination range- and viewfinder system of the Leica M 2 has built-in bright-line frames for 35mm wide-angle, 50mm standard, and 90mm long-focus lenses.

Parallax compensation is *automatic* throughout the focusing range of all three lenses, and a frame selector similar to that of the M 3 permits pre-selection of the proper lens for the job. Unique indicator "tabs" on the top and bottom of the M 2 rangefinder field are used to check quickly which subject areas are within the depth of field of the most-used lenses at specific apertures. The top "tab" checks 50mm field depth at $f/16$, and 35mm field depth at $f/5.6$. The bottom "tab" is for 50mm lenses at $f/5.6$ and is well within the depth of field limits of 35mm lenses at $f/3.5$. The M 2 like the M 3, has automatic synchronization for all types of flash. Shutter speeds are from 1 second to 1/1000 second and "Bulb." The M 2 accepts all bayonet-mount Leica lenses and M 3 accessories except earlier bayonet-mounted 35mm wide-angle lenses.



Leica M2 with 50mm Elmar $f/2.8$ lens

A "universal" rapid advance lever permits the M 2 user to advance film and wind the shutter with as few or as many strokes as he pleases—one, two, or more.

The Leica M 2 will accept a new model of the Leicavit Rapid winder (when available) for those who prefer baseplate winding and film advance. Film rewinding is controlled by depressing a button, which returns to the "advance" position automatically when released. The M 2's exposure counter is set by hand at the start of each roll of film.

Catalog Number	Code Word	Item	Retail Price
10,300	KOOHE	Leica M 2 without lens	\$216.00*
10,303		Leica M 2 with 35mm Summaron $f/2.8$ lens . . .	321.00*
10,301		Leica M 2 with 35mm Summicron $f/2$ lens	390.00*
10,357	KIHOO	Leica M 2 with 50mm Elmar $f/2.8$ lens	276.00*
10,380	KIOOL	Leica M 2 with 50mm rigid Summicron $f/2$ lens .	345.00*
10,385	KNOOG	Leica M 2 with Dual-Range 50mm Summicron $f/2$ lens and Optical Viewing Unit	384.00*
10,367	KSOOB	Leica M 2 with 50mm Summilux $f/1.4$ lens	414.00*

LEICA M2S — The M2 with SELF TIMER

10,308	KOOHV	Leica M2S with self timer but without lens . . .	225.00*
10,333		Leica M2S with 35mm Summaron $f/2.8$ lens . . .	330.00*
10,331		Leica M2S with 35mm Summicron $f/2$ lens	399.00*
10,335		Leica M2S with 50mm Elmar $f/2.8$ lens	285.00*
10,336		Leica M2S with 50mm rigid Summicron $f/2$ lens .	354.00*
10,338		Leica M2S with Dual-Range Summicron $f/2$ lens and Optical Viewing Unit	393.00*
10,337		Leica M2S with 50mm Summilux $f/1.4$ lens . . .	423.00*

*Including Federal Manufacturer's Excise Tax.

Leica M 1

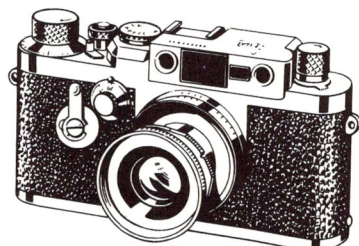
The new Leica M 1 has the same precision as the M 3 and M 2 but lacks some of the automatic features of these models. It is an inexpensive yet flexible camera with a parallax-corrected viewfinder for 35 and 50mm lenses, speeds from 1 second to 1/1000th and "Bulb," but without rangefinder, self-timer or frame selector. Flash synchronization is automatic, like that in the M 3 and M 2. The M 1 accepts bayonet-mounted lenses.

Catalog Number	Code Word	Item	Retail Price
10,120	KOOC	Leica M 1 without lens	\$144.00*
10,122		Leica M 1 with 35mm Summaron f/3.5 lens	226.50*
10,123		Leica M 1 with 35mm Summaron f/2.8 lens	249.00*
10,124	KOOL	Leica M 1 with 50mm Elmar f/3.5 lens	195.00*
10,125	KOEU	Leica M 1 with 50mm Elmar f/2.8 lens	204.00*

LEICA IIIg

The Leica IIIg has many features which give it outstanding performance. Its shutter speeds run from 1 second to 1/1000th second, "Time" and "Bulb". They are in geometric sequence—each gives half or double the exposure time of the one next to it on the dial. This correlates with the aperture stops, since each stop admits half or twice the light of the stop next to it.

The bright-line frame viewfinder of the IIIg shows the field of 50mm lenses. Within the 50mm field, four bright "corners" mark the field of 90mm lenses. Parallax compensation for both fields is *automatic* throughout the entire normal focusing range of lenses. The built-in range-finder couples automatically to the lenses and magnifies the image 1.5X for extreme accuracy in focusing. Its eyepiece is alongside the viewfinder eyepiece in a twin mount.



Leica IIIg with 50 mm Elmar f/2.8 Lens

As in the M 3 and M 2, flash synchronization for both electronic units and flash bulbs is *automatic* in the IIIg. There are no dial settings to make. When you set the shutter speed, synchronization is set automatically.

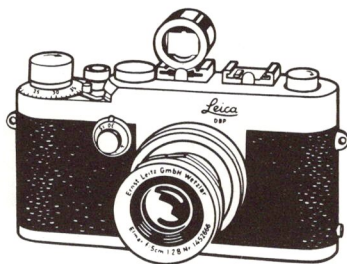
All screw-mounting lenses available for previous Leica models will fit the IIIg; many accessories, including the famous Leicavit Rapid Winder are available for it. However, earlier models of the Leica cannot be converted into the IIIg.

Catalog Number	Code Word	Item	Retail Price
10,250	GOEF	Leica IIIg without lens (16.25 ozs.)	\$163.50*
10,255	GOEL	Leica IIIg with 50mm Elmar f/2.8 lens	223.50*
10,261	GOOM	Leica IIIg with collapsible 50mm Summicron f/2 lens	292.50*
10,265	GMOA	Leica IIIg with 50mm Summarit f/1.5 lens	262.50*

*Including Federal Manufacturer's Excise Tax.

LEICA Ig

The Ig is the "basic" camera of the line, offering Leica precision and versatility at a modest price. The Ig has a full range of shutter speeds from 1 second to 1/1000th, "Time" and "Bulb". It also features automatic built-in flash synchronization for both conventional and electronic flash units. Since it was designed with industrial and scientific photographers in mind, it does not have built-in range—or viewfinders. But it is also ideal for the beginner who must budget, yet who wants top quality right from the start. For general photography, you can add a separate viewfinder and rangefinder to the Ig. Or, you can have it converted to a IIIg as your needs increase, to include built-in range—and viewfinders and a self-timer.



Leica Ig with 50 mm Elmar f/2.8 Lens



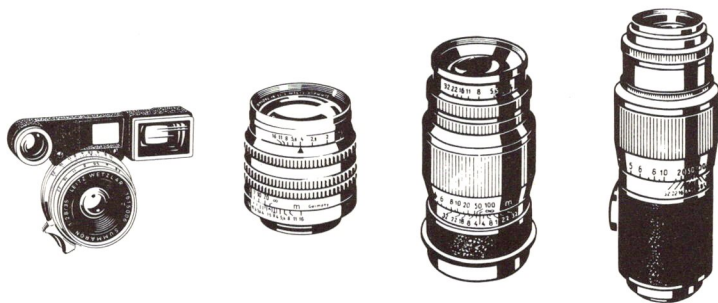
14,011

Catalog Number	Code Word	Item	Retail Price
10,220	OCEGO	Leica Ig without viewfinder, rangefinder or lens	\$ 96.00*
10,224	OGILO	Leica Ig with Optical-Brilliant Viewfinder for 50mm lenses, but without rangefinder or lens	106.20*
10,223	OADGO	Leica Ig with 50mm Elmar f/2.8 lens and Optical-Brilliant viewfinder, but without rangefinder	166.20*
14,011	FOKOS	Rangefinder for Leica Ig or If; chrome finish . .	21.00
14,012	CLIPP	Shoe for mounting rangefinder #10,025 on cameras of larger size	1.20

*Including Federal Manufacturer's Excise Tax.

LEICA LENSES

The Leica System of Photography could not be so universally efficient without its wide selection of truly outstanding interchangeable lenses. Each Leica lens functions with the same unchanging optical and mechanical perfection, no matter what Leica it is used with. Each has its own focusing mount matched precisely to the lens elements it holds. Every mounted lens must pass rigid optical and practical photographic tests before it is released for sale.



You can get Leica lenses in focal lengths from 21mm wide-angle to 400mm telephoto. Some have apertures as large as $f/1.4$. In general, you will use the 50 mm lenses for all-around photography. If you prefer a wider acceptance angle and greater depth of field, you may prefer a 35mm lens as a "standard" lens on the M 2. But there are photographic problems you can solve only with lenses of other focal lengths. To cover a larger picture area without changing the camera position, you will use a wide-angle lens. To bring distant subjects "closer" to fill your negative area, choose a long-focus or telephoto lens. And, that is not all. A choice of focal lengths gives you complete control over perspective—the relative prominence of background and foreground in your pictures.

Behind each Leica lens is more than a century of skill and experience in designing and making precision microscopes and optical equipment. Today's unparalleled Leica lenses are products of constant research and the development of new optical glasses. They are exceptionally well corrected, and equally perfected for both color and black-and-white photography. Each glass-to-air surface of Leica lenses is anti-reflection coated for extra light transmission and image contrast.

Whether your Leica is a IIIg or earlier model with threaded lens mount, or one of the bayonet-mount "M" models, you have a wide choice of lenses for it. Among the unusual lenses available are the 21mm Super Angulon $f/4$ superwide-angle lens and the 400mm Telyt telephoto. The Telyt, while principally used for distance photography, also gives unusual pictures of subjects closer than 25 feet when used with extension tubes. Outstanding among the lenses for the M 3 and M 2 are the 35mm Summicron $f/2$, the 50mm Summilux $f/1.4$ and Dual-Range Summicron $f/2$, the 90mm Summicron $f/2$ and the 90mm Elmar $f/4$ in collapsible mount. Adapters are available to fit screw-threaded Leica lenses to Leica cameras with bayonet mounts.

Lenses up to and including the 135mm Hektor (except the 125mm Hektor $f/2.5$ and the new 65mm Elmar $f/3.5$) fit directly on the camera and couple to the built-in rangefinder of the Leica.

All 90mm lenses (except the collapsible Elmar) and the 135mm Hektor are available in short mounts for use on the Visoflex housings. The 65mm Elmar, the 125mm Hektor and the 200mm and 400mm Telyt lenses are available only in short mount for use on the Visoflex.

Each lens has a front protection cap. Lens hoods which you can store on the lens are included with the 50mm Summilux $f/1.4$, 85mm Summarex, 90mm Summicron, 125mm Hektor and the 200 and 400 mm Telyt lenses. Hoods for other Leica lenses are available as accessories.

LENSES

SCREW-MOUNTING LENSES



11,001



11,005



11,016



11,106



11,318



11,123



11,129

Catalog
Number

Code
Word

		Item	Retail Price
11,002	SUON	21mm Super Angulon f/4	\$240.00*
11,001	SNOOX	28mm Summaron f/3.6	108.00*
11,008	SAWOX	35mm Summicron f/2	174.00*
11,005	SOONC	35mm Summaron f/3.5	82.50*
11,006	SIMOO	35mm Summaron f/2.8	105.00*
11,012	ELMOO	50mm Elmar f/2.8	60.00*
11,016	SOOIC	50mm Summicron f/2, collapsible	129.00*
11,020	SOOIA	50mm Summarit f/1.5	99.00*
11,025	SOOCX	85mm Summarex f/1.5	360.00*
11,023	SEEOF	90mm Summicron f/2, rigid; chrome-finish.	249.00*
00,001	INVOO	Additional Charge for Pre-set Diaphragm for #11,023, #11,123 or #11,124. Can be ordered with lens or installed later	
			12.00
11,029	ELRIT	90mm Elmarit f/2.8, rigid	150.00*
11,030	ELANG	90mm Elmar f/4, rigid	93.00*
11,035	HEFAR	135mm Hektor f/4.5	126.00



11,020



11,025



11,035



11,102

BAYONET-MOUNTING LENSES

11,102	SUMOM	21mm Super Angulon f/4	240.00*
11,305	SODUO	35mm Summaron f/3.5, for M2 or M1	82.50*
11,106	SIMWO	35mm "RF" Summaron f/2.8 with Optical Viewing Unit for M3	138.00*
11,306	SIMOM	35mm Summaron f/2.8 for M2 or M1	105.00*
11,108	SAMWO	35mm "RF" Summicron f/2, with Optical Viewing Unit for M3	207.00*
11,308	SAWOM	35mm Summicron f/2, for M2 or M1	174.00*
11,112	ELMOM	50mm Elmar f/2.8	60.00*
11,110	ELMAM	50mm Elmar f/3.5	51.00*
11,118	SOSIC	50mm Summicron f/2, rigid	129.00*
11,318	SOMNI	50mm Dual-Range Summicron f/2, with Optical Viewing Unit for M3 or M2	168.00*
14,002	SDPOO	Optical Viewing Unit for bayonet-mounting 50mm Dual-Range Summicron f/2 lens.	22.50
11,120	SOMIA	50mm Summarit f/1.5	99.00*
11,114	SOOME	50mm Summilux f/1.4, includes lens hood and lens hood cap	198.00*
11,125	SOOCX- ISBOO	85mm Summarex f/1.5	367.50*
11,123	SEOOM	90mm Summicron f/2, rigid; chrome-finish.	249.00*
11,129	ELRIM	90mm Elmarit f/2.8, rigid	150.00*
11,130	ELGAM	90mm Elmar f/4, rigid	93.00*
11,131	ILNOO	90mm Elmar f/4, collapsible	126.00*
11,135	HEFAM	135mm Hektor f/4.5	126.00

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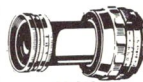
11,118



11,114



11,130



11,131

THE VISOFLEX HOUSINGS

For most photographic work, a rangefinder-viewfinder system is the fastest, most accurate answer to focusing and framing the pictures. But for certain picture problems, ground-glass focusing and framing is preferable. So, the Leica System provides for both methods—a focusing viewfinder built into the camera, the Visoflex reflex focusing attachment to use when it is needed. By suiting the method to the situation, you and your Leica always work with maximum efficiency.



Visoflex II,
Leica M3 and
90mm Sum-
micron f/2

Rangefinder focus is best with short and normal focal length lenses used at normal range. To make these lenses for use with reflex focusing would involve design compromises which would lower their maximum performance. On the other hand, reflex focusing and framing are indicated for working with long focal length lenses or for close-up work when the object is nearer than the minimum focusing distance of the lens. This is because in telephotography the depth of field is critically shallow, and the acceptance angle of the lens is small; 35mm camera rangefinders cannot be given a long enough base for accuracy with extreme telephoto lenses. In extreme close-up and macrophotography, depth of field is also very shallow and parallax cannot be compensated for automatically.

In some cases, of course, your personal working preferences will decide which is the "best" method. Working with medium-long focal lengths, such as the 90mm and 135mm, is a good example of such a case, since the advantage of one system over another is slight in all-around photography with lenses of these focal lengths. Thus, current Leica 90mm and 135mm lenses (except the collapsible 90mm) can be adapted for either rangefinder or reflex focusing.

The photographer who enjoys reflex focusing for general picture taking will like the new 65mm Elmar $f/3.5$ lens for the Visoflex II. Its focal length is close to that of the "normal" 50mm, and the lens is especially corrected to give outstanding performance in the close-up range. In its standard mount, the 65mm Elmar focuses from infinity down to 13 inches without extension tubes.

Within the Leica System there are two reflex housings of different design to assure utmost flexibility with this method of focusing and framing.

Visoflex I

The Visoflex I lends itself admirably to close-up and copying work. It accepts the Bellows Focusing Device, which offers continuously variable focusing and ratios of reproduction. It can, of course, also be used without the Bellows for telephotography (and with extension tubes in place of the Bellows for close-up and macrophotography). Three types of interchangeable focusing magnifier make it possible to use the Visoflex I for shooting at eye-level, below eye-level or for photography from a tripod or copying stand. Four lenses of focal lengths from 125mm to 400mm are available in short mounts, which will focus to infinity on the Visoflex I. Shorter focal length lenses can be used for work at close distances only.

The release of the Visoflex mirror and camera shutter is controlled by a double cable release. The Visoflex I is available in two models to fit either screw-mounting or bayonet-mounting Leica models.

Visoflex II

The Visoflex II is a recent and more compact version of the Visoflex I. It is 22.5mm shallower, front to back, than the Visoflex I, and so will permit lenses of less than 135mm focal length to be focused to infinity—specifically the 90mm lenses and the 65mm Elmar.

A rigid, bar-type mirror-and-shutter release plus a 4X prism-type magnifier make hand-held, eye-level photography easy with the Visoflex II. The new 65mm Elmar $f/3.5$ and the short-mounted 90mm Summicron $f/2$ lens are especially useful with the new housing, and lens units of the 90mm Elmarit and rigid 90mm Elmar $f/4$ lenses can also be used with adapters (the collapsible 90mm lens cannot be focused to infinity with the Visoflex II). All other short-mounted Leica lenses designed for use on the Visoflex I can also be used with the Visoflex II via a simple adapter which bayonets to the front of the new housing and accepts the threaded mount of the older lenses. The Visoflex adapts for copy-stand or low-angle work by replacement of the prism-type viewfinder with a simple 5X magnifier. (The magnifiers of the Visoflex I and Visoflex II are interchangeable only on the housing for which they are designed, however. That is, those for the Visoflex I do not fit the Visoflex II and vice versa.) The mirror and shutter should be triggered with a cable release rather than the bar release when working from a tripod or copying stand. This can be done via a socket which will accept any cable release which fits the Leica M 3.

Like the Visoflex I, the new unit is available in models to fit either bayonet- or screw-mounting Leicas. The screw-mounting Visoflex II cannot be adapted to bayonet-mounting Leicas via a bayonet adapter, since the length of the shutter release bar is different on the two Visoflex II models. Also, because of a difference in height between the IIIg and earlier screw-mounting Leicas, a removable extension "finger" is supplied with the screw-mounting Visoflex II. This increases the reach of the shutter release bar and is used with IIIf or earlier models of the Leica.

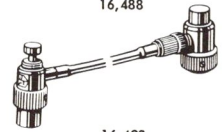
Catalog Number	Code Word	Item	Retail Price
VISOFLEX I AND ACCESSORIES			
16,485	OZYXO	Visoflex I , screw-mounting; complete with special cable release and 5X wide-field focusing magnifier (weight 20 oz.)	\$102.00
16,482	OZXOM	Visoflex I , bayonet-mounting; complete with special cable release and 5X wide-field focusing magnifier (weight 20.5 oz.)	105.00
16,486	LVF00	Wide-Field Magnifier (5X)	21.00
16,487	PEGOO	Wide-Field 45° Magnifier (4X)	42.00
16,488	PAMOO	Wide-Field 90° Magnifier (5X)	30.00
16,492	OZWT0	Double Cable Release for Visoflex I and any Leica (except Leica M 3, M 2, M 1)	7.50
16,491	OZWT0-M	Double Cable Release for Visoflex I and Leica M 3, M 2, M 1	7.50
16,493	OZXVO	Release Coupling for Visoflex I and any Leica (except Leica M 3, M 2, M 1). Single-button hand or cable release operation.	9.00
14,088	OZTNO	Release Adapter. Adapts Visoflex I Double Release #16,492 and camera Cable Releases #14,070, #14,075, and #14,080 to Leica M 3, M 2, M 1 . . . . .	.60
16,495	ZO0AN	Short Focusing Mount for lens unit of 135mm lenses. Fits Visoflex I and II. (Serial number of lens must be furnished with order. For lenses numbered below 245,818 see #16,496.) (Special order: 6-8 week delivery.)	18.00
16,496	ZO0BA	Short Focusing Mount , same use as above, but for 135mm lenses with serial numbers 245,818 or below. Lens unit must be converted and specially fitted. Lens must be sent to factory. Delivery: 3 to 4 months.	30.00



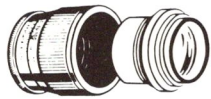
16,487



16,488



16,493



16,495

VISOFLEX II AND ACCESSORIES

16,457	OTYDO	Visoflex II , screw-mounting, without magnifier.	\$60.00
16,455	OTDYM	Visoflex II , bayonet-mounting, without magnifier.	60.00
16,458	OUCLO	Visoflex II , screw-mounting with 4X image erecting magnifier (weight 15 3/4 ozs.)	99.00
16,456	OCL0M	Visoflex II , bayonet-mounting with 4X image erecting magnifier (weight 16 1/4 ozs.)	99.00
16,460	OTXBO	4X Magnifier producing an erect and laterally correct image for Visoflex II.	39.00
16,461	OTVXO	5X Standard Magnifier for Visoflex II	18.00
16,466	OUBIO	Adapter fitting the bayonet on front side of the Visoflex II, with standard Leica thread, increasing extension length of Visoflex II to that of the Visoflex I and permitting the use of short-mounted lenses of 125mm, 135mm, 200mm and 400mm focus	13.50



16,466

Catalog Number Code Word Item Retail Price

16,464	OTZFO	Universal Focusing Mount. Necessary to use with 65mm f/3.5 on Visoflex II. Also adapts lens unit of 90mm Elmarit f/2.8 to Visoflex II. With Extension Tube #16,472 it adapts lens unit of 135mm Hektor f/4.5 to Visoflex II	\$27.00
16,465		Universal Focusing Mount for Visoflex II. Same as #16,464 but with rotating bracket with tripod socket. Permits rotation of camera and Visoflex for vertical pictures	36.00
16,471	OTRPO	Extension Tube for lens unit of the 90mm Elmarit f/2.8 and 65mm Elmar f/3.5 lens. Fits Universal Focusing Mount #16,464 and adapts these lenses for extreme close-up photography. With Extension Tube #16,472 it can also be used with the lens unit of the 135mm Hektor f/4.5	3.60
16,472	OTSR0	Adapter Tube. Adapts lens unit of the 135mm Hektor f/4.5 to Universal Focusing Mount #16,464. Permits the lens to be focused to infinity on the Visoflex II. Can also be used with both #16,464 and Extension tube #16,471 at distances from 38 inches to 26 inches	3.90
16,469	OUFRO	Extension Tube. Bayonets to front of Visoflex II; accepts bayonet mount Leica lenses (except short-mounted 90mm Summicron) for close-up photography	7.50
16,467	OUAGO	Short Focusing Mount for lens unit of rigid 90mm f/4 Elmar lenses above #1,572,401; permits focusing from infinity to 3 feet 4 inches on Visoflex II.	16.50
16,468	OTQNO	Extension Tube for short focusing mount, #16,467 permitting focusing from 3 feet 4 inches to 2 feet 2 inches	1.80
16,463	ZO0EP	Short Focusing Mount; accepts lens units of 90mm Summicron lenses #11,023 and #11,123 for use on Visoflex II only	66.00



LENSES FOR VISOFLEX

11,061	OCMOR-OTZFO	65mm Elmar f/3.5, complete with Universal focusing mount #16,464 for use with Visoflex II only	\$111.00*
11,064		65mm Elmar f/3.5, complete with Universal Focusing Mount #16,465 for use with Visoflex II only	120.00*
11,062	OCMOR	65mm Elmar f/3.5 for Visoflex II only. Must be used with focusing mount #16,464 or #16,465	84.00*
11,028	ERKOO	90mm Elmar f/4, (36mm front diameter) lens unit for use on Visoflex II only. Used with Short Focusing Mount #16,467	57.00*
11,128	ERKOM	90mm Elmar f/4, (42mm front diameter) lens unit for use on Visoflex II only. Used with Short Focusing Mount #16,467	57.00*
11,026	ELKOO	90mm Elmarit f/2.8 lens unit for use on Visoflex II only. Used with Universal Focusing Mount #16,464 or #16,465	108.00*
11,124	OESBO	90mm Summicron f/2, in short mount, chrome finish. Fits Visoflex II only	216.00*
00,001	INVOO	Additional Charge for Pre-set Diaphragm for #11,023, #11,123, or #11,124. Can be ordered with lens or installed later	12.00

Visoflex II, Leica M3 and 90mm Summicron f/2



*Including Federal Manufacturer's Excise Tax

Catalog Number	Code Word	Item	Retail Price
11,126	OERDO	90mm Summicron f/2, in short mount, chrome finish, complete with pre-set diaphragm. Fits Visoflex II only	\$228.00*
11,032	HIKOO	125mm Hektor f/2.5 in short mount without Visoflex. Fits Visoflex I or II	157.50
11,140	OHEBO	135mm Hektor f/4.5 in short mount without Visoflex. Fits Visoflex I or II	106.50



11,032



11,140



11,138



11,063



11,066

Note: Short-mount 135mm Hektor f/4.5 #11,040 supplied in the past for Leica cameras with screwing mount is discontinued. We shall supply instead lens #11,140 which has a 42mm front diameter and is now recommended for Leica cameras with either bayonet or screw-mounting lenses.

11,041	HEFAR-ZOOAN	135mm Hektor f/4.5 (#11,035) in long screw-in mount, plus separate short mount but without Visoflex. Fits Visoflex I or II	144.00
11,141	HEFAM-ZOOAN	135mm Hektor f/4.5 (#11,135) in long bayonet mount, plus separate short mount but without Visoflex	144.00
11,138	HEKOO	135mm Hektor f/4.5 lens unit with click stops, 42mm front diameter, without focusing mount. Adapts to rangefinder focusing via: Long Focusing Mount #14,016 Long Focusing Mount #14,018 Adapts for use on Visoflex I or II via: Short Focusing Mount #16,495 Also fits Adapter furnished with Bellows Device #16,555	88.50
11,063	TELOO	200mm Telyt f/4 short mount, without Visoflex; Includes pre-set diaphragm, built-in collapsible lens hood and lens hood cap. Fits Visoflex I or II	198.00
11,066	TLCOO	400mm Telyt f/5 in short mount without Visoflex; includes built-in collapsible lens hood and lens hood cap	465.00

* Including Federal Manufacturer's Excise Tax

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
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LENS ACCESSORIES

14,082		<p>Lens Turret for bayonet-mounting Leicas. Accepts screw-mounting lenses only. Designed for use with the M3 and 50mm, 90mm and 135mm lenses or the M2 and 35mm, 50mm and 90mm lenses. It is also possible to use other focal lengths by using accessory viewfinders. Provides a rapid method of changing lenses. Attached handle has tripod socket.</p>	\$81.00
14,017	ZOUUK	<p>Long Focusing Mount; accepts lens unit of 90mm Summicron lens for rangefinder-coupled operation on screw-mounting Leicas. (Lens unit must be sent to factory for custom fitting)</p>	99.00
14,019	ZOMUK	<p>Long Focusing Mount; accepts lens unit of 90mm Summicron lens for rangefinder-coupled operation on bayonet-mounting Leicas. (Lens unit must be sent to factory for custom fitting)</p>	99.00
14,016	ZOKEG	<p>Long Focusing Mount, screw-mounting, parallel focusing, couples to rangefinder; adapting lens unit of short-mounted 135mm Hektor lens for use on Leica cameras with threaded lens flange. (Serial number of lens must be furnished with order. Mounts with non-parallel focusing will be supplied for lenses having serial numbers below 1,130,000.) . . .</p>	37.50
14,018	ZOKEM	<p>Long Focusing Mount, bayonet-mounting, parallel focusing, couples to rangefinder; adapting lens unit of short-mounted 135mm Hektor lens #11,140 for use on Leica M 2 or M 3 camera. (Serial number of lens must be furnished with order.)</p>	37.50
14,020	MOOSP	<p>Extension Tube (15mm), fitting between 200mm Telyt and Visoflex for photography between 6 and 10 feet</p> <p>For use with same equipment listed for 200mm Telyt #11,063.</p>	2.10
14,023	TZFOO	<p>Intermediate Collar (62.5mm) with special viewfinder shoe. Replaces Visoflex when using 200mm Telyt directly on Leica cameras having threaded lens flange. Replaces screw-mounting Visoflex I or II</p>	18.00
14,024	TXBOO	<p>Intermediate Collar (63.5mm) with special viewfinder shoe. Replaces Visoflex when using 200mm Telyt directly on Leica cameras having bayonet lens flange. Replaces bayonet-mounting Visoflex I or II.</p>	19.50
16,508	UOORF	<p>Adapter</p> <p>Fits lens unit of</p> <p style="padding-left: 20px;">50mm rigid-mount Summicron lens #11,118</p> <p style="padding-left: 20px;">50mm Dual-Range Summicron lens #11,318</p> <p>to</p> <p style="padding-left: 20px;">Close-Focusing Unit #16,507</p> <p>or</p> <p style="padding-left: 20px;">Auxiliary Reproduction Unit #16,526</p>	2.70



14,018



14,020



14,023

Catalog Number	Code Word	Item	Retail Price
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14,097	IRZOO	Bayonet Adapter actuating the 50mm viewfinder frame of the Leica M 2 and M 3 \$7.50 For M 3 with: All screw-mounting Leica Lenses 50mm or less in focal length. For M 2 with: All screw-mounting 50mm Leica lenses.	
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14,098	ISBOO	Bayonet Adapter actuating the 90mm viewfinder frame of the Leicas M 2 and M 3 7.50 For M 2 and M 3 with: All screw-mounting 90mm Leica lenses.	
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14,099	ISOOZ	Bayonet Adapter actuating the 135mm viewfinder frame of the Leica M 3 and the 35mm frame of the Leica M 2 7.50 For M 3 with: All screw-mounting 135mm Leica lenses. For M 2 with: All screw-mounting Leica lenses 35mm or less in focal length.	
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NOTE: The viewfinder frames of the M 1 are always visible. So, any of the above adapters will mount any screw-mounting lens on the M 1. This also applies to long-mount 135mm lenses with the M 2, since a built-in frame is not used for 135mm lenses on this Leica. And, since the Visoflex substitutes for a built-in finder on all Leicas, any of the adapters may be used with the screw-mounting Visoflex I on any bayonet-mounting Leica. (The screw-mounting Visoflex II cannot be adapted to bayonet-mounting cameras.)



14,026	CINLE	Cine Adapter; adapting screw-mounting Leica lenses (except lenses in short mount designed for use on the Visoflex) to type "C" 16mm motion picture camera mount 4.50	
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14,029	OSBLO	Eyepiece converting screw-mounting 50mm and 90mm Leica lenses to telescopes of 3.5X and 6X power respectively. Screws on base of lens 3.30	
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LEICA LENS DATA

Focal Length	Lens	Aperture		Angle	Class	Mount	Focusing	Click Diaphragm	Coupling	Flange Diameter	Weight Ounces	Minimum Focus	Approx. Min. Focus Area (in.)	Application
		Maximum	Minimum											
21mm	Super-Angulon	f/4	f/22	92°	Wide Angle	Rigid ¹	Rotating	Yes	Rangefinder	42mm	9	M2-2' 4" M3-3' 4"	31.2 x 47 40 x 60	Interiors Architecture Panoramic
28mm	Summaron	f/5.6	f/22	75.4°	Wide Angle	Rigid ⁵	Parallel*	Yes	Rangefinder	36mm	5.25	3.5'	34 x 51	Interiors Architecture Panoramic
35mm	Summaron	f/3.5	f/22	64°	Wide Angle	Rigid ^{1,2}	Rotating* & Parallel	Yes	Rangefinder	42mm	5.25 & 5.50	3.5'	27 x 40.5	Interiors Architecture Panoramic
35mm	Summaron	f/2.8	f/22	64°	Wide Angle	Rigid ^{1,2}	Parallel	Yes	Rangefinder	42mm	5	M2-2' 4" M3-2' 2"	17 x 25.5 16.2 x 24.5	Interiors Architecture Panoramic
35mm	Summicron	f/2	f/16	64°	Wide Angle	Rigid ^{1,2}	Parallel	Yes	Rangefinder	42mm	8.25	M2-2' 4" M3-2' 2"	17 x 25.2 16.2 x 24.5	Interiors Architecture Panoramic
50mm	Elmar	f/2.8	f/16	45°	Standard	Collapsible ¹	Rotating	Yes	Rangefinder	42mm	7.5	3.5'	18 x 27	General Copying Macro
50mm	Summicron	f/2	f/16	45°	Standard	Collapsible ^{1,3} and rigid	Parallel*	Yes	Rangefinder	42mm	8 & 8.25	3.5'	18 x 27	General Action Poor Light Close-up
50mm	Duaf-Range Summicron	f/2	f/16	45°	Standard	Rigid ⁴	Parallel*	Yes	Rangefinder	42mm	14.25 w/ 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	Rigid	Parallel*	Yes	Rangefinder	45mm	11.5	3.5'	18 x 27	General Existing Light Fast action
65mm	Elmar	f/3.5	f/22	36°	Standard-Med-Long	Rigid	Parallel	Yes Half & Full stops	Focusing mt (Note 8 is for Visoflex II only)	43mm	4½ oz. (less focusing mt.)	13"	2.25 x 3.25	General Close-up Copying
85mm	Summarex	f/1.5	f/16	28°	Medium-Long Focus	Rigid ⁵	Rotating*	Yes	Rangefinder	59.8mm	21	5'	15.5 x 23	Existing light Theatrical Fast action Portraiture
90mm	Elmar	f/4	f/32	27°	Medium-Long Focus	Rigid ^{1,6} & Collapsible	Rotating* & Parallel	No & Yes	Rangefinder (Note 8 is for Rigid Mount only)	36mm & 42mm	7 & 9.5 & 12	3.5'	9.5 x 14.25	Animals Sports Landscapes Portraiture Close-up
90mm	Elmarit	f/2.8	f/22	27°	Medium-Long Focus	Rigid ¹	Parallel	Yes	Rangefinder ⁸	42mm	11.5	3.5'	9.5 x 14.25	
90mm	Summicron	f/2	f/16	27°	Medium-Long Focus	Rigid ¹ Long	Parallel	Yes, incl. ½ stops	Visoflex II only	63.5mm	25	3.5'	9.5 x 14.25	
90mm	Summicron	f/2	f/16	27°	Medium-Long Focus	Rigid Short	Parallel	Yes, incl. ½ stops	Visoflex II only	63.5mm	19	3.5'	9.5 x 14.25	
90mm	Summicron	f/2	f/16	27°	Medium-Long Focus	Rigid Short	Parallel	Yes, incl. ½ stops	Visoflex II only	63.5mm	19	3.5'	9.5 x 14.25	
125mm	Hektor	f/2.5	f/22	20°	Long Focus	Rigid Short	Rotating*	Yes	Visoflex I & II	59.8mm	20.5	4'	7.5 x 11.25	Portraiture Theatrical Existing light
135mm	Hektor	f/4.5	f/32	19°	Long Focus	Rigid ¹ Long	Parallel*	Yes	Rangefinder ⁸	36mm & 42mm	13 & 15.5	5'	8.75 x 13	Animals Sports Distance Portraiture Close-up
135mm	Hektor	f/4.5	f/32	19°	Long Focus	Rigid Short	Rotating*	Yes	Visoflex I & II ⁷	36mm & 42mm	8 & 8.25	5'	8.75 x 13	
200mm	Telyt	f/4	f/22	12°	Tele-photo	Rigid Short	Parallel	Yes (Preset)	Visoflex I & II ⁷	65mm	23	10'	11.75 x 17.75	Sports Wild Life Distance Portraiture
400mm	Telyt	f/5	f/32	6°	Tele-photo	Rigid Short	Rotating*	No	Visoflex I & II ⁷	91mm	76	25'	16 x 24	Distance Wild Life Sports

*Where a lens is listed with both Rotating & Parallel focusing, Parallel refers to bayonet-mounted lenses (except the Rigid 90mm Elmar which is Rotating). When two or more flange diameters or weights are given, the larger figure applies to the bayonet-mounted lens.

¹ Available in screw- or bayonet-mount

² Separate models for M3 and M2

³ Screw-mounting is collapsible; bayonet-mounting, rigid

⁴ Bayonet-mounting only

⁵ Screw-mounting only

⁶ Collapsible in bayonet-mounting only

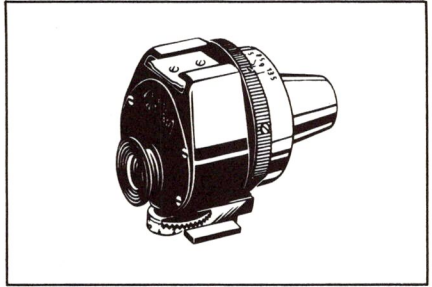
⁷ Visoflex II requires adapter

⁸ Lens unit can be used on Visoflex II with adapters

VIEWFINDERS

The viewfinder built into the Leica M 3 shows the field of view of 50mm, 90mm and 135mm lenses; that of the M 2 shows the fields of 35mm, 50mm, and 90mm lenses. The IIIg viewfinder covers 50mm and 90mm lenses. The built-in finders of other Leica models cover 50mm lenses only. When a lens of longer or shorter focal length is used, you must use an auxiliary finder showing the coverage of that lens. There are three types of viewfinders available.

The Imarect Universal Viewfinder fits into the Leica accessory clip and may be adjusted to indicate the exact field of all Leica lenses from the 35mm wide angle to the 135mm long focus lens and, by the addition of an adapter, the 28mm Summaron $f/5.6$ extreme wide angle objective. A lever actuated cam, calibrated in feet, is built into the finder for adjusting parallax. By composing your subject through the Imarect, it is easy to select the proper focal length lens best suited for the picture.



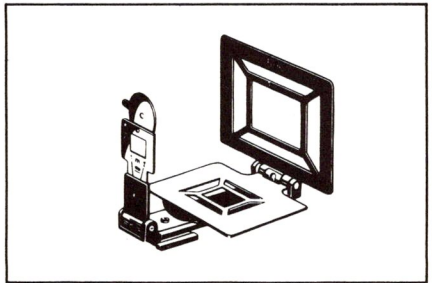
Imarect Universal Viewfinder.



Optical-Bright-Line Viewfinder.

The Optical-Bright-Line viewfinders also fit the accessory clip and are of the sports type, outlining the lens field by a reflected translucent bright line while at the same time permitting observation of a moving object before it enters the area photographed. Compensation for parallax in the 21mm, 28mm, stereo, 35mm and 50mm finders is by reference to a dotted line visible in the field. The finders for the 85, 90 and 135mm lenses are adjusted for parallax by a ring surrounding the eye lens.











The Sports Frame finders are non-optical and outline the subject in a frame. Like the Optical-Bright-Line finders, they allow observation of a moving object before it enters the lens field. The Universal Frame Finder fits into the accessory clip of the camera and has masks for the 50, 90 and 135mm lenses. It is adjusted for parallax by raising or lowering its calibrated eyepiece. The finders for the 200 and 400mm Telyt lenses fit into a special accessory shoe on the Visoflex I or Intermediate Collar used with the 200mm lens and cannot be placed in the camera accessory shoe. Parallax is adjusted by a click-stop ring.

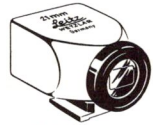


Universal Frame Finder.

Leather cases for the various viewfinders are listed with the cases for other Leica equipment.

OPTICAL FINDERS

Catalog Number	Code Word	Item	Retail Price
 12,005	12,000 VIOOH	Imarect Universal Viewfinder	\$39.00
 12,010	12,005 TUVVO	Adapter for Imarect Finder, adapting it for use with 28mm Summaron f/5.6 wide angle lens	10.50
 12,025	12,002 SBKOO	Optical Bright-Line Viewfinder for 21mm lenses	28.50
 12,030	12,007 SLOOZ	Optical Bright-Line Viewfinder for 28mm lenses	22.50
 12,035	12,010 SBL00	Optical Bright-Line Viewfinder for 35mm lenses	21.00
 12,040	12,015 SBOOI	Optical Bright-Line Viewfinder for 50mm lenses	10.20
 12,045	12,020 SGOOD	Optical Bright-Line Viewfinder for 85mm lens	15.00
 12,050	12,025 SGVOO	Optical Bright-Line Viewfinder for 90mm lenses	15.00
 12,055	12,030 SHOOC	Optical Bright-Line Viewfinder for 135mm lens	15.00
 12,060	14,316 OIDYO	Optical Bright-Line Viewfinder for Stemar Stereo attachment	18.00



12,002



12,007






12,015



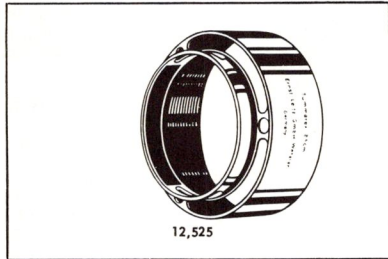
12,030

FRAME FINDERS

 12,035	12,035 SFTOO	Sports Frame Finder for 200mm lens	18.00
 12,037	12,037 SQTOO	Sports Frame Finder for 400mm lens	18.00
 12,040	12,040 ROSOL	Universal Frame Finder for 50mm, 90mm and 135mm lenses	9.00

LENS HOODS

Lens hoods are commonly called "sunshades". But under this name their use is psychologically restricted. You should, of course, protect your lens from the direct rays of the sun when you take a picture; if you do not, your picture will lose a great deal of contrast. But there is also unwanted light from other sources which will flatten your pictures. This is the light reflected from the sky, water, building, rocks or any object in the immediate vicinity. All light striking the surface of the lens which is not directly used to form the picture, will reduce its brilliance. What's more, this goes for flash and floodlight also. For best results, you should use a lens hood at all times. Because keeping out extraneous light is so important to your picture, specially designed hoods are available for all Leica lenses



12,525



12,502



12,500

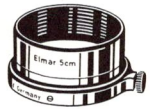


12,580



12,530

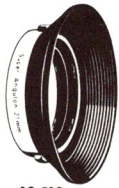
Catalog Number	Code Word	Item	Retail Price
12,502	IWKOO	Lens Hood for 21mm f/4 Super Angulon lens .	\$ 4.50
12,500	SOOBK	Lens Hood with clamping screw for 28mm Summaron lens	2.40
12,505	FOOKH	Lens Hood with clamping screw for screw-mounting 35mm Summaron and Elmar lenses with 36mm front diameter only	2.40
12,571	IROOA	Lens Hood with clamping device, for 35mm and 50mm Summicron f/2, 35mm Summaron f/2.8 and f/3.5 lenses with 42mm front diameter . .	4.50
12,510	FISON	Lens Hood with clamping screw for screw-mounting 50mm Elmar f/3.5 lens with 36mm front diameter	2.10
12,580	ITOOY	Lens Hood with clamping device for screw-mounting 50mm Elmar f/2.8 lens and bayonet-mounting 50mm Elmar lenses with 42mm front diameter	3.90
16,620	VALOO	Combination Lens Hood and Diaphragm Adjusting Ring, with set screw, for screw-mounting 50mm Elmar f/3.5 lens with 36mm front diameter. Settings are indicated by click-stops and are visible from the side. Filters mount on front of the hood	6.60
12,520	XOONS	Lens Hood with clamping screw for 50mm Summarit lenses	3.90
12,525	ORQPO	Lens Hood with bayonet fitting for 85mm Summarex lens	3.90
12,527	HMOOD	Lens Hood for 90mm Summicron f/2 lens (for former models only)	8.70
12,530	FIKUS	Adjustable Lens Hood with clamping screw for screw-mounting 50mm and 90mm Elmar and 135mm Hektor lenses with 36mm front diameter	5.70
12,532	HKMOO	Lens Hood with bayonet fitting for 125mm Hektor lens	4.80
12,535	TNGOO	Lens Hood with clamping screw for 200mm Telyt lens (for former models only)	4.50



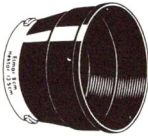
12,510



16,620



12,502



12,575

Catalog Number	Code Word	Item	Retail Price
12,540	TMEOO	Lens Hood with clamping screw for 400mm Telyt lens (former models only)	\$13.50
12,550	OIGEO	Stereo Lens Hood with bayonet fitting for 33mm Stemar stereo lens	8.40

Hoods for Leica Bayonet-Mount Lenses

12,502	IWKOO	Lens Hood for 21mm f/4 Super Angulon lens	4.50
12,580	ITOOY	Lens Hood with clamping device for bayonet-mounting 50mm Elmar lenses and screw-mounting 50mm f/2.8 Elmar lens	3.90
12,571	IHOAA	Lens Hood with clamping device for 35mm and 50mm Summicron f/2, 35mm Summaron f/2.8 and f/3.5 lenses	4.50
12,520	XOONS	Lens Hood with clamping screw for 50mm Summarit lenses	3.90
12,527	HMOOD	Lens Hood for 90mm Summicron f/2 lens (for former models only)	8.70
12,521	XOIM	Lens Hood for 50mm bayonet-mounting Summilux f/1.4 lens (as replacement)	4.50
12,575	IUFOO	Lens Hood with clamping device for bayonet-mounting 90mm Elmar and 135mm Hektor lenses	4.50

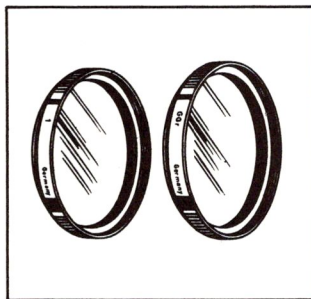
(For Front Lens Hood Caps, See P. B17)

FILTERS

Filters, like quality lenses, must be precision ground and polished to close tolerances. An inferior filter can spoil the wire-sharp results of your best lens. To protect the performance of your lens, Leitz filters are ground plano-parallel from optical glass;—and, except for the polarizing filters and those for color photography, they are not cemented but colored in the mass.

Naturally, fine glass, plano-parallel surfaces and evenness of coloring are necessary for quality. But the thinness of the filter is of the utmost importance. This is particularly true with the short focal length, high aperture Leica lenses.

Leitz filters for black and white photography are made from solid optical glass and ground thin (average: .066") to produce maximum sharpness. The polarizing filters and those for color photography are laminated. This must be done to get the precise transmission of light wavelengths demanded for color work, but they are kept as thin as possible.



Leica Filters

Filters for Black and White Photography

YELLOW. You'll use this mostly to darken the blue sky in relation to the rest of the scene and to give better contrast between sky (which normally photographs light grey) and white clouds. You can also use the yellow filters with orthochromatic film for a similar effect to what they give with panchromatic film. The different densities, 0 the lightest, 1 the darkest, hold back more blue as the density increases. This gives you control of contrast.

GREEN. The green filter has about the same effect on panchromatic film as a yellow filter of equal density. But it will lighten green foliage slightly more than a yellow filter does, and at the same time darken the sky. It is especially good for outdoor portraits against the sky, since it gives better flesh tones than yellow filters. But don't use green filters with orthochromatic film.

BLUE. The blue filter has little use in general photography. It will wash-out blue sky registering it "bald" and without white clouds. Its principal use is in copying, to darken faded writing which has yellowed with age.

ORANGE. The orange filter acts like the yellows, but absorbs more blue. It is a "contrast" filter. You will use it to get high contrast between white clouds and a relatively dark sky. An under-exposed shot taken with an orange filter in daylight and over-printed will look like a night shot. The orange filter will slightly darken green foliage. It is also good for making portraits of heavily freckled people, since it minimizes the tan of the freckles.

ULTRA VIOLET ABSORPTION. The UVa filter absorbs the excessive ultra violet rays found at high altitudes. All film is sensitive to ultra violet; unless it is filtered out, your high altitude negatives will lack contrast. Yellow, green and orange filters will absorb more ultra violet than the UVa filter. But the clear glass of the UVa absorbs the ultra violet without filtering visual light. Distant scenes tend to be flat because moisture in the air scatters ultra violet light. A UVa filter gives better contrast to distant scenes. The UVa is sometimes called a "haze" filter, but it will in no way cut haze. For haze cutting, you will need infra-red film and an infra-red filter. The UVa filter is also very useful in color photography, since it reduces excess blue in high altitude and seashore pictures.

INFRARED. Use the infrared filters (medium or dark) with infrared film only. They are very dark and need excessively long exposures if you use them with panchromatic film.

Infra-red film combined with an infra-red filter produces some startling photographs. Pictures taken in the day time have a moonlight effect; green grass, tree leaves photograph white; blue sky turns out jet black. Aside from novel effects, infra-red film is used widely for medical photography, picturing questioned documents, taking pictures through fog.

Filters for Color Photography

Leitz Type "F", Type "FP", Type "A", Flash, Photoflood (PF), and Skylight (SL) filters are for use with color film. Like all filters for color photography, each is classed as either a conversion or a correction filter. Type "F", Type "A" and Photoflood (PF) are conversion filters, "converting" the light for use with film normally intended for use under different lighting conditions. The Skylight (SL), Flash and Type "FP" filters are correction filters. The Skylight (SL) corrects the excessive blue encountered when using daylight film in the shade. The Type "FP" corrects the reddishness which results when you use Type "F" film with photofloods.

TYPE "F" (mount engraved "F"). Use this with Type "F" Kodachrome, Ektachrome or Anscochrome when you shoot outdoors in daylight.

TYPE "FP" (mount engraved "FP"). This permits you to use Type "F" Kodachrome, Ektachrome or Anscochrome with photofloods.

TYPE "A". Use this filter with Kodachrome Professional Film, Type A, 35mm, when you shoot outdoors in daylight.

FLASH. The Flash Filter is for Type "A" Kodachrome used with clear flash bulbs.

PHOTOFLOOD (mount engraved "PF"). This filter lets you use Kodachrome, Ektachrome or Anscochrome daylight type film to take pictures with photofloods.

SKYLIGHT (mount engraved "SL"). Used with daylight color films, it absorbs the excessive blue found at high altitudes and at the seashore. It also reduces the blueness of open shade and adds a general warmth to the transparency.

Polarizing Filters

These are not color filters but have a neutral density. You can use them for either black and white or color photography. They are the only means by which you can darken blue sky in color pictures without altering color or tone in the rest of the scene.

With a polarizing filter, you can eliminate or reduce reflections from the surfaces of water, show windows, furniture, etc. You will get varying effects, depending on the position at which you set the filter. You can get the polarizing filters in two types of mount: The engraved mount with reference numbers for setting the polarization plane and the swing-out rotating mount which lets you see the exact polarizing effect of the filter in front of the lens.

FILTERS FOR LEICA LENSES	28mm Summaron 28mm Hektor 35mm Elmar f/3.5 35mm Summaron†† 50mm Elmar 50mm Hektor 50mm Summar 90mm Elmar 135mm Hektor		21mm Super Angulon 35mm Summicron 35mm Summaron† 50mm Elmar † 50mm Summicron 90mm Elmar† 90mm Elmar† 135mm Hektor†		50mm Summitar		50mm Summarit 65mm Elmar		50mm Summilux		85mm Summarex 125mm Hektor 200mm Telyt f/4		90mm Summicron 90mm Thambar 200mm Telyt f/4.5		400mm Telyt	
	Mounting Methods	Clamping-Screw		Screw-In		Screw-In		Screw-In		Screw-In		Screw-In		Screw-In		Screw-In
Yellow O (light)	13,000	\$ 5.55	13,081	\$ 5.55	13,080	\$ 5.55	13,155	\$ 7.05	13,156	\$ 7.05	13,230	\$ 10.50	13,290	\$ 7.05	13,291	\$ 19.50
Yellow I (medium)	13,005	5.55	13,086	5.55	13,085	5.55	13,160	7.05	13,161	7.05	13,235	10.50	13,295	7.05	13,296	19.50
Green (medium)	13,015	5.55	13,096	5.55	13,095	5.55	13,170	7.05	13,171	7.05	13,245	10.50	13,305	7.05	13,306	19.50
Blue (medium)	13,020	5.55	13,098	5.55	13,097	5.55	13,172	7.05	13,173	7.05	---	---	13,307	7.05	---	---
Orange (medium dark)	13,025	5.55	13,101	5.55	13,100	5.55	13,175	7.05	13,176	7.05	13,250	10.50	13,310	7.05	13,311	19.50
Red (dark)	13,040	5.55	13,116	5.55	13,115	5.55	13,190	7.05	13,191	7.05	13,255	10.50	13,315	7.05	13,316	19.50
Infrared (medium)	---	---	13,121	5.55	---	---	13,195	7.05	13,196	7.05	13,260	10.50	13,320	7.05	13,321	19.50
Infrared (dark)	13,045	5.55	13,126	5.55	13,125	5.55	13,200	7.05	---	---	13,265	10.50	13,325	7.05	13,326	19.50
Uva Absorption (colorless)	13,055	5.55	13,131	5.55	13,130	5.55	13,205	7.05	13,206	7.05	13,270	10.50	13,330	7.05	13,331	19.50
Type "F"	13,061	7.44	13,138	7.32	13,137	6.66	13,216	9.00	13,217	9.00	13,276	15.00	13,336	10.50	---	---
Photo flood	13,065	7.44	13,141	7.32	13,140	6.66	---	---	---	---	---	---	---	---	---	---
Type "FP"	13,071	7.44	13,148	7.32	13,147	6.66	13,226	9.00	13,227	9.00	13,286	15.00	13,346	10.50	---	---
Type "A"	13,060	7.44	13,136	7.32	13,135	6.66	13,215	9.00	13,218	9.00	13,275	15.00	13,335	10.50	---	---
Flash	13,070	7.44	13,146	7.32	13,145	6.66	13,225	9.00	13,228	9.00	13,285	15.00	13,345	10.50	---	---
Skylight	13,075	7.44	13,151	7.32	13,150	6.66	13,220	9.00	13,221	9.00	13,280	15.00	13,340	10.50	---	---
Polarizing (engraved mount)	13,350	18.90	13,356	19.80	---	---	13,360	19.80	---	---	---	---	---	---	---	---
Polarizing (swing-out mount)	---	---	13,396	37.50	13,395	37.50	13,394	37.50	---	---	---	---	---	---	---	---

NOTE: Polarizing Filter 13,350 is in slip-on mount. Polarizing Filters 13,356 and 13,360 are in screw-in mount. Polarizing Filters 13,396 and 13,394 have clamping screws.

† Cannot be used with 28mm lenses, with or without adapter.

†† With 36mm flange diameter. ‡ With 42mm flange diameter.

FILTER ADAPTERS

Rather than carry extra filters, you will often find it handier to use one made for a lens of different size. When that's the case, you can get adapters which allow the Summitar, Summicron and Summarit filters to be used on other lenses.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
13,154	SOOGZ	Filter Adapter fitting Summicron filters to the following screw-mounting lenses 36mm in diameter	\$ 3.60
		35mm Elmar 50mm Summar	
		35mm Summaron 90mm Elmar	
		50mm Elmar f/3.5 135mm Hektor	
		50mm Hektor	
13,079	SOOTF	Filter Adapter fitting screw-in type Summitar filters or screw-in and bayonet type Summarit filters to lenses with a 36mm outside diameter	3.60
13,077	SOOEY	Filter Adapter fitting screw-in type Summarit or Summarit filters to lenses of 42mm diameter	3.00
13,078	SNHOO	Adapter Ring to adapt screw-in type Summicron filters for use on Summitar lenses	3.00
16,621	VOOLA	Diaphragm Adjusting Adapter for screw-mounting 50mm Elmar lens. Permits adjustment of diaphragm with slip-on filter in position . . . . .	.75



16,621

SPECIAL FILTERS

13,001	FIRHE	Yellow Filter I (medium) in screw-in mount for 35 and 50mm Elmar f/3.5 screw-mounting lenses. Diaphragm may be adjusted with filter in position	3.60
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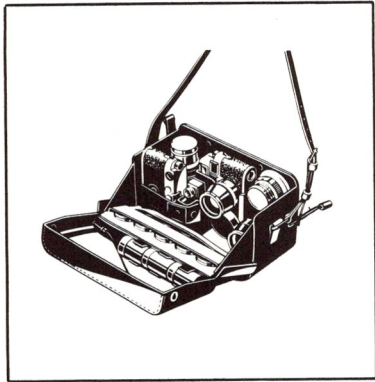
Paired Filters in screw-in mounts for 33mm Stemar Stereo Attachment

13,361	OHUGO	Yellow I (medium)	6.00
13,362	OHVIO	Orange (medium dark)	6.00
13,363	OHWLO	UVa Absorption (colorless)	6.00
13,364	STEKOA	Type "A"	9.00
13,365	STEKPF	Photoflood	9.00
13,366	STEFLLA	Flash	9.00
13,367	STEFKD	Type "F"	9.00
13,368	STESKY	Skylight	9.00
13,369	STEFPK	Type "FP"	9.00

CASES

Protective cases for your Leica equipment must not only preserve its finish and guard against accidental damage, but must also reflect your pride of ownership. Leitz leather cases are made from top quality hides, beautifully finished and strongly sewed. They are designed for utility; the Eveready cases allow you to use your equipment while it is kept protected. The other cases stress easy access. You can get Eveready cases in several styles to fit your individual camera-lens-accessory combinations. Sportsmen who own an "F" series Leica will find the metal water- and shock-resistant case ideal.

Each leather case for camera or lens, except the three smaller cases for the wide angle and 50mm lenses, has an adjustable shoulder strap. Shoulder straps for Eveready cases include a non-slip rubber shoulder grip.



Typical Leica Combination Case

Transparent filter cases not only protect your filters, but let you identify them without removing them from their container. Plastic lens cases are ideal when you use a particular lens occasionally and want to save the cost of a leather case.

CAMERA CASES

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,501	EFOOS	Eveready Case for Leica Ig with 50mm Elmar f/3.5 or f/2.8 lens and detachable viewfinder	\$12.30
14,523	ENoor	Eveready Case for Leica IIIg with 50mm Summicron or Elmar lenses	12.30
14,524	ENSOO	Eveready Case for Leica IIIg with 50mm Summarit lens.	12.30
14,536	ELOOP	Eveready Case for Leica IIIg with any 50mm lens and fitted with Leicavit Rapid Winder . .	13.50
14,526	IDYOO	Eveready Case for Leica M 3 or M 2 with 35mm lenses requiring Optical Viewing Unit or 50mm Dual-Range Summicron, each with Optical Viewing Unit attached	18.00
14,529	IASOO	Eveready Case for Leica M 3, M 2 or M 1 and 50mm Elmar or collapsible Summicron lenses but without meter attached	15.00
14,528	IDCOO	Eveready Case for Leica M 3, M 2 or M 1 with lenses through 50mm (except those with Optical Viewing Unit attached) and collapsible 90mm lens and Leica Meter "MC"	16.50
14,532	EDFOO	Eveready Case for Leica IIIg with any 50mm lens and Leica-Meter attached	15.00
14,531	IPOOM	Eveready Case for Leica M2 or M1 fitted with Leicavit Rapid Winder	18.00
14,518	MBROO	Eveready Case, metal, water- and shock-resistant; for If, IIIf, IIIIf Leica cameras with 50mm Summicron lens.	31.50



14,523



14,528

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,800	EBYOO	Universal Carrying Case with Insert I. Insert I is interchangeable with other inserts for Universal Case and fitted for: Leica M3, M2 or M1 with meter and 90mm collapsible or shorter focal length lenses with lens hood; 135mm lens; three additional lenses of focal length up to and including 90mm with lens hood; Optical Viewing Units of "RF" Summaron and Dual-Range Summicron; battery base of CEYOO flash unit or complete CHICO flash unit or extra camera body	\$72.00
14,801	EBDOO	Universal Carrying Case with Insert II. Insert II is interchangeable with other inserts for Universal Case and fitted for: Leica M3, M2 or M1 without lens or meter; Visoflex I with 200mm Telyt f/4.5; Visoflex magnifier; short-mounted 135mm Hektor with lens hood; 90mm collapsible or shorter focal length lens with lens hood; five 200mm Telyt f/4.5 filters and double cable release	75.00
14,802	EBKOO	Universal Carrying Case with Insert III. Insert III is interchangeable with other inserts for Universal Case and fitted for: Leica IIIg with 50mm lens and attached exposure meter, 3 accessory lenses of from 28mm to 90mm focal lengths, the Hektor 135mm lens, one reflecting viewfinder, Imarect Universal viewfinder, a second camera body or flash unit	72.00
14,810	EBN00	Insert I for Universal Carrying Case	19.50
14,811	EBR00	Insert II for Universal Carrying Case	22.50
14,812	EBS00	Insert III for Universal Carrying Case	19.50
14,094	DXOOK	Shoulder Grip for strap of Eveready case. Will fit carrying straps up to 1/2 inch wide. . . . .	.48

LENS CASES

14,550	ETILA	Leather Case for screw-mounting 28mm Summaron or Hektor, 35mm Summicron, Summaron or Elmar lens	2.40
14,552	ECOOG	Leather Case for "RF" 35mm Summaron with its Optical Viewing Unit and Optical Viewing Unit and Optical Viewing Unit of Dual-Range 50mm Summicron; or bayonet-mounting Dual-Range Summicron #11,318 with its Optical Viewing Unit	8.10
14,560	ETIME	Leather Case for screw- or bayonet-mounting 50mm Elmar f/3.5 or f/2.8 lens in collapsed position.	2.40
14,565	ETRIX	Leather Case for 21mm Super Angulon, 50mm Summitar, Summicron or Summarit lens	2.40
14,627	COONH	Leather Case for Optical Viewing Unit of Dual-Range 50mm Summicron	4.50
14,566	EKOOL	Leather Case , for 50mm Summilux f/1.4 lens	4.50
14,570	ENOOW	Leather Case for 85mm Summarex lens	8.10
14,572	EZOOW	Leather Case for 90mm Summicron lens	8.10
14,575	ETINI	Leather Case for 90mm Elmar screw-mounting lens	6.00



14,560

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,574	ETISE	Leather Case for screw and bayonet-mounting rigid 90mm Elmar and Elmarit lenses.	\$ 6.90
14,576	ETONO	Leather Case for 90mm Elmar collapsible lens.	6.00
14,573	CPOOQ	Leather Case for 90mm Elmar collapsible lens, lens hood and two filters	14.40
14,577	EZDOO	Leather Case for 125mm Hektor lens	6.00
14,580	ETIPO	Leather Case for 135mm Hektor lens	7.20
14,585	EMTOO	Leather Case for Visoflex I with short-mounted 125mm Hektor, 135mm Hektor in short-mount or 200mm Telyt lenses	24.00
14,587	EMQOO	Leather Case for 400mm Telyt lens, Visoflex I or II housing and Leica camera with double cable release and two filters	66.00
14,320	OIBUO	Leather Case fitted for screw-mounting Stemar, Stereo Prism, Stereo Viewfinder, and Stereo lens hood.	24.00
14,321	OIBOM	Leather Case fitted for bayonet-mounting Stemar, Stereo Prism, Stereo Viewfinder and Stereo lens hood.	24.00
14,602	BHOOV	Plastic Case for screw-mounting 21mm f/4 Super Angulon lens	1.65
14,603	PNLOO	Plastic Case for bayonet-mounting 21mm f/4 Super Angulon lens	1.65
14,590	BOORW	Plastic Case for screw-mounting 28mm Hektor, 35mm Elmar or Summaron or 50mm Elmar f/3.5 lens. . . . .	.90
14,595	POLMO	Plastic Case for former bayonet-mounting 35mm Summaron lens without "RF" viewing unit	1.65
14,600	BOOSK	Plastic Case for screw-mounting 50mm Summitar, Summicron or Summarit lens.	1.20
14,601	POLWO	Plastic Case for bayonet-mounting 50mm Elmar, Summicron or Summarit lens.	1.65
14,605	BOOPV	Plastic Case for screw-mounting 90mm Elmar lens.	1.20
14,606	POLYO	Plastic Case for bayonet-mounting 90mm Elmar collapsible lens.	1.65
14,607	POLXO	Plastic Case for bayonet-mounting 90mm Elmar rigid lens.	1.80
14,610	BDOOZ	Plastic Case for screw-mounting 135mm Hektor lens.	1.50
14,611	POLZO	Plastic Case for bayonet-mounting 135mm Hektor lens.	2.10



14,605

FILTER CASES

14,660	POOSD	Plastic Filter Box for filters fitting 28mm Hektor and Summaron; 35mm Elmar and Summaron; 50mm Elmar f/3.5, Summitar and Summicron; 90mm Elmar and 135mm Hektor lenses . . . . .	.45
14,661	POOUE	Plastic Filter Box for filters fitting 50mm Summarit lens. . . . .	.45



14,660

FINDER CASES



14,625

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,615	EBOOH	Leather Case for Imarect viewfinder	\$ 1.80
14,617	COOPB	Leather Case for 21mm or 28mm Optical Bright-Line viewfinder	1.05
14,620	COOXN	Leather Case for 35mm Optical Bright-Line viewfinder	1.20
14,625	COOYA	Leather Case for 50mm Optical Bright-Line viewfinder	1.20
14,630	CPBOO	Leather Case for 85mm, 90mm, or 135mm Optical Bright-Line viewfinder	1.20
14,635	RWBOO	Leather Case for Universal Frame Finder. . .	1.20

ACCESSORY CASES

14,640	EHLOO	Leather Case for rangefinder FOKOS.	2.10
14,613	EYZOO	Leather Case for Summitar or Summicron collapsible lens hood	1.50
14,645	APOOM	Leather Case for self-timer . . . . .	.90
14,643	EXPOO	Leather Case for Close Focusing Device #16,503 for Leica IIIg	3.00
14,650	UYOOQ	Fiber Case for Bellows Focusing Device and accessories	19.50

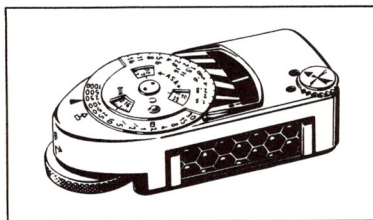
EXPOSURE METERS

Two "musts" for good photography are correct focus and correct exposure. The built-in coupled range finder of your Leica assures proper focus; correct exposure is determined by your Leica-Meter.

There are two basic Leica-Meters, both of which fit into the accessory clip of the Leica. The convenient meter location and its angle of coverage, which approximates the 50mm. lenses, makes it easier than ever to make better pictures with your Leica. You can even get a booster cell to increase the range of your meter for use under poor lighting conditions.

THE LEICA-METER "MC"

The Leica-Meter "MC" is designed for use with the Leica M2 or M3 and fits the accessory clip of these models only. It couples to the shutter dial as you put it in the camera accessory clip. Its direct-reading calculator is calibrated in ASA and DIN and has two sets of aperture markings. You use the red set when the meter's sensitivity selector is set to the red dot for use at low light levels. The booster cell increases the sensitivity of the meter an additional 4 times. An incident light attachment comes with the Leica-Meter "MC". You need no carrying case for the Leica-Meter "MC", because the Eveready case for the M2 or M3 holds the camera with meter attached.



Leica-Meter "MC"

THE LEICA-METER 3

The Leica-Meter 3 is small and compact; you can use it in the ingenious Eveready case that comes with it, or in the accessory clip on your Leica. Some people even find it handy to carry the meter on the little chain and retainer plate that comes with it. They clip the incident light adapter to the other end of the chain so it is always near at hand.

The calculator of the Leica-Meter 3 is calibrated in ASA and DIN and has two index marks; one for bright light, and one for poor light when you use the special booster cell. The booster cell comes in a hard leather case, and attachments for incident light measurement are furnished with both the meter and its booster cell.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,200	METRA	Leica-Meter "MC" without booster cell or case, but with incident light attachment.	\$33.00
14,201	METRA-MBOOC	Leica-Meter "MC" with booster cell, booster cell case and incident light attachments, but without meter case	39.00
14,231	METTWB	Leica-Meter 3 with booster cell, incident light attachments, retainer plate, carrying chain, Eveready case for meter and case for booster cell	24.00
14,230	METTNC	Leica-Meter 3 without booster cell, but with incident light attachment, retainer plate, carrying chain and Eveready case.	18.00
14,232	MBOOWT	Booster Cell for Leica-Meter 2 and 3 with leather case.	7.50
14,202	MBOOC	Booster Cell for Leica-Meter "MC" with case and incident light attachment.	7.50

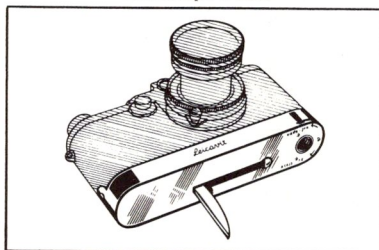
Replacement and Accessory Parts

16,018	MBOOW	Booster Cell for Leica-Meter "M"	7.50
14,208	METRIL	Incident Light Attachment for Leica-Meter "M" . . . . .	.90
14,203		Incident Light Attachment for Leica-Meter "MC" . . . . .	.90
14,204		Incident Light Attachment for Leica-Meter "MC" booster cell . . . . .	.90
14,233	METMIL	Incident Light Attachment for Leica-Meter 2 and 3 . . . . .	.75
14,234	METBIL	Incident Light Attachment for booster cell of Leica-Meter 2 and 3 . . . . .	.90
14,235	METRPC	Retaining Plate and carrying chain for Leica-Meter 3. . . . .	.75
			3.90
14,643	CASCEL	Leather Case for Leica-Meter "M" booster cell . . . . .	.60
14,209	EDOOF	Leather Case for Leica-Meter "MC"	3.90
14,239	METECT	Eveready Case for Leica-Meter 3	1.50
14,238	METCBT	Case for Leica-Meter 2 and 3 and Leica-Meter "MC" booster cell . . . . .	.60
14,012	CLIPP	Shoe for mounting Leica-Meters (except models "M" and "MC") on cameras of larger size	1.20

ATTACHMENTS

(Small Accessories)

Leicavit Rapid Winder.



The Leica System of Photography gets its tremendous versatility from the many well-engineered accessories which it offers you. There is hardly a field of photography in which you cannot excel with your Leica. The many accessories available to the Leica owner are for handling those unusual or specialized situations which he is likely to encounter. This listing of small accessories supplements the more specialized items listed under their respective headings.

Leicavit Rapid Winder

Catalog Number	Code Word	Item	Retail Price
14,004	ASKOO	Self-Timing Device having a delay of approximately 12 seconds between tripping and exposure, in leather case	\$ 7.80
14,003	APDOO	Self-Timing Device without case	6.90
14,645	APOOM	Leather Case for Self-Timing Device. . . . .	.90
14,081	HEBOO	Slow Speed Attachment with speeds of 1, 1/2 1/4, and 1/8 second fitting Leica cameras which do not have built-in slow speeds	12.00
14,009	SYOOM	Leicavit Rapid Winder, manually operated, for sequence photography. Replaces Leica baseplate. (Cannot be used on bayonet-mounting Leicas or those with serial numbers below 400,000)	30.00
14,008	SMYOM	Leicavit Rapid Winder for M2 or M1 (cannot be used on Leica M3)	34.50
14,013	FSIWKR	Film Speed Indicating Winding Knob adjustable to indicate speed of film in both A.S.A. and Weston ratings, showing RED for color and BLACK for other film; as supplied on Leica models If, IIf, and IIIf. For interchanging with non-indicating winding knob on Leica cameras with serial numbers over 400,000.	2.10
14,057	ORAKO	Orange Rangefinder Filter (slip on) for Leica Camera Models II, III and IIIa (10mm diameter)	2.70
14,058	OKARO	Orange Rangefinder Filter (slip on) for Leica Camera Models IIc, IIIf, IIIfb, IIIfc and IIIf (11mm diameter).	2.70
14,021	SVOOP	Take-up Spool with pop-up knob for If, IIf, and IIIf and earlier Leica cameras	2.40
14,022	SPOOM	Take-up Spool (marked "M") with pop-up knob for Leica M1, M2, M3, Ig and IIIg. (Unmarked Spools cannot be used with the Ig, IIIg).	2.40
14,070	FINOT	Cable Release (10 inches) with locking screw for all Leica cameras except bayonet-mounting models	1.20
14,067	FONOT	Cable Release (10 inches) with locking screw for bayonet-mounting Leica models	1.05
14,075	OPKOM	Cable Release (20 inches) with locking screw for all Leica cameras except bayonet-mounting models	1.62



14,003

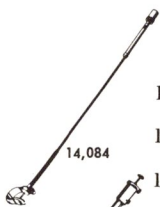


14,070

Catalog Number	Code Word	Item	Retail Price
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14,080	FIDRI	Cable Release (10 feet) for all screw-mounting Leica cameras	\$10.50
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14,084	MQUOO	Mouth Release fitting all screw-mounting Leica cameras. Permits release of shutter by closing teeth on clamp. Complete with 11" cable release. (Ideal for tripping shutter when holding off-camera flash or for handicapped persons)	1.80
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16,492	OZWTO	Double Cable Release for Visoflex I and any screw-mounting Leica	7.50
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16,491	OZTOM	Double Cable Release for Visoflex I and bayonet-mounting Leica models	7.50
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16,493	OZXVO	Release Coupling for Visoflex I and any screw-mounting Leica. Single-button hand or cable release operation	9.00
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14,088	OZTNO	Release Adapter. Adapts Visoflex I Double Release #16,492 and camera Cable Releases #14,070, #14,075 and #14,080 to bayonet-mounting Leica models.60
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14,092		Adjustable Neck Strap for all Leica cameras	1.20
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14,110	TOOQE	Table Tripod with small ball-and-socket tripod head	10.50
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14,100	TOOUG	Table Tripod without ball-and-socket head.	5.70
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14,105	FOOMI	Ball-and-Socket Tripod Head, small	4.80
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14,115	KGOON	Ball-and-Socket Tripod Head, large rigid construction, with built-in adapters for European and ASA Tripod Threads	9.90
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CORRECTION LENSES

When ordering correction lenses it is necessary that prescription be provided for the eye used.

14,060	OPRTO	Correction Lenses for Leica models IIIb, IIc, IIIc, IIf, and IIIf. To correct near and far sightedness.	9.00
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14,065	OPSVO	Correction Lenses for Leica models IIIb, IIc, IIIc, IIf, and IIIf. To correct astigmatism	10.50
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14,064	OKBZO	Correction Lenses for Leica model IIIg. To correct near and far sightedness.	9.00
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14,066	OKVCO	Correction Lenses for Leica model IIIg. To correct astigmatism.	10.50
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14,061	ORTOX	Correction Lenses for Leica M 2 and M 3. To correct near and far sightedness	9.00
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14,062	ORLEO	Correction Lenses for Leica M 2 and M 3. To correct astigmatism.	13.50
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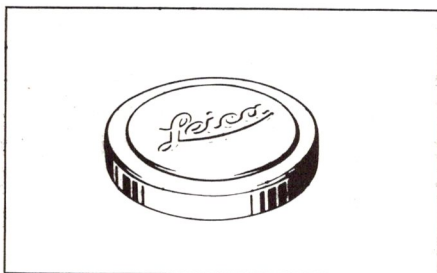
14,063	OQZIO	Correction Lens for 4X-45° magnifier #16,487 and 5X wide-field magnifier #16,486 to correct near-and-far sightedness.	6.60
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14,093	DIOOY	Diopter Selector Disc. A testing device to enable the Leica owner to ascertain if a correction lens will assist him in using his Leica to better advantage. The Selector is not to be used for determining the power of the correction lens and a prescription is required from the customer when he places his order. <i>The Selector will be offered only to Leica dealers</i>	9.00
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LENS PROTECTION COVERS

Protect the quality and performance you bought when you chose your Leica lens. Even when it is in its own or the Eveready case, it can pick up dirt, moisture or small scratches on the front or rear surfaces;—and they can affect its fine performance. Each Leica lens has a front cap when you buy it; put a rear cap on it when you carry it separate from the camera.

Many owners carry a second Leica without a lens, interchanging lenses between cameras as needed. If you do this, protect the interior of your Leica with a lens opening cover.



Front Lens Cap.

FRONT COVERS

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,025	ORVZO	Front Lens Cap, chrome plated, fitting 28mm Hektor or Summaron, 35mm Elmar and Summaron, 50mm and 90mm Elmar, and 135mm Hektor screw-mounting lenses	\$.75
14,027	OQYGO	Front Lens Cap for 90mm Summicron f/2 lenses with serial numbers below 160,000 . .	.90
14,028	OQWCO	Front Lens Cap for 90mm Summicron f/2 lenses with serial numbers 160,000 or over. .	1.20
14,030	ORSTO	Front Lens Cap, chrome plated, fitting 50mm Summitar lens. . . . .	.84
14,031	ORQDO	Front Lens Cap, chrome plated, fitting 50mm Summicron and all Leica lenses with 42mm flange diameter. . . . .	.84
14,033	OROBI	Front Lens Hood Cap, plastic. Fits rear of Lens Hood #12,502 for 21mm Super Angulon, Lens Hood #12,571 for 35mm and 50mm Summicron f/2, 35mm Summaron f/2.8 and f/3.5 lenses, Lens Hood #12,580 for Bayonet-mounting 50mm Elmar lenses. Used when lens hood is reversed on lens for storage or carrying (As replacement)	.45
14,032		Front Lens Cap, screw-in type. Fits lenses with 42mm front diameter	1.95
14,035	ORXDO	Front Lens Cap, chrome plated, for 50mm Summarit lens . . . . .	.84
14,036	ORNIO	Front Lens Cap, chrome plated, for 50mm Summilux f/1.4 lens. (Fits front lens flange, not lens hood) . . . . .	.90
14,037	OROBA	Front Lens Hood Cap, plastic, (45mm diameter) Fits lens hood #12,521 for 50mm Summilux reversed on lens for carrying or storage . . . . .	.45
14,040	ORPNO	Front Lens Cap, chrome plated, for 85mm Summarex and 125mm Hektor lenses . . . . .	.96
14,045	TNOOZ	Front Lens Cap, black finish, for 200mm Telyt lens. . . . .	.84
14,046	TNOOQ	Front Lens Cap, black finish, for 400mm Telyt lens.	2.52
14,047	OIWKO	Front Lens Cap, chrome plated, for Stemar stereo attachment	2.10

REAR COVERS



14,050

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,042	IROOW	Rear Lens Cap for bayonet-mounting 21mm Super Angulon lens	\$ 1.80
14,048	OIXMO	Rear Lens Cap, for screw-mounting 21mm f/4 Super Angulon lens. (Will also fit screw-mounting "STEMAR")	1.20
14,050	ORYFO	Rear Lens Cover, chrome plated, for all screw-mounting Leica lenses (except 21mm lens) and Visoflex . . . . .	.75
14,051	IZQOO	Rear Lens Cover, plastic, for all bayonet-mounting lenses (except 21mm lens) and Visoflex . . . . .	.90
14,151	IZMOO	Rear Lens Cover, chrome plated, for all bayonet-mounting lenses (except 21mm lens) and Visoflex	1.80
14,053	HGOOI	Rear Lens Cap, chrome plated (large diameter), for 125mm Hektor; fitting inverted lens hood	1.80
14,049	OIVHO	Rear Dust Cap, chrome plated, for bayonet-mounting Stemar stereo attachment	1.80
14,052	OIZQO	Rear Dust Cap for Stemar Stereo Prism Attachment	1.80

CAMERA COVERS



14,055



14,056

14,055	ORTVO	Lens Opening Cover, chrome plated, for Leica cameras having threaded lens flange . . . . .	.75
14,056	IVZOO	Lens Opening Cover for Leica cameras having bayonet-type lens flange.	1.05

PUBLICATIONS

The pleasure or profit you get from photography is largely measured by how good your pictures are. You needn't take an extensive course in photography to enjoy your hobby, but you should know its fundamentals.

Sharing your photographic adventures and discussing your mutual interests with other Leica owners is the best way to keep your interest high and to improve your pictures. You will find it helpful to join your local camera club and also The Photographic Society of America—the national organization dedicated to the betterment of photography. If your interests are technical or in some specialized branch of photography, you will find several societies catering to you. You should have one or more good books on photography in your library.

MAGAZINES

The magazine LEICA PHOTOGRAPHY binds Leica owners in a great fraternity; its pages discuss your mutual problems and explain how best to use your Leica equipment. Writings of timely interest, pictures taken by other Leica owners and educational "How To Do It" articles are regular features. LEICA PHOTOGRAPHY is published quarterly by E. Leitz, Inc., New York. It is mailed free to registered owners of new Leica cameras and lenses imported by E. Leitz, Inc. for limited periods of time, based on the date of purchase of the equipment. Others may subscribe to the magazine for the nominal prices listed below. For details, write:

Registration Department
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New York 16, N. Y.

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Single Copies	\$.40
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The magazine LEICA FOTOGRAFIE, published six times a year in Germany, may be obtained in either English or German editions by subscription from:

Rayelle Foreign Publications
76 W. Chelton Avenue
Philadelphia 44, Pennsylvania

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 and you may get them from your Leica Dealer. Do not write to E. Leitz, Inc.

Catalog Number	Code Word	Item	Retail Price
20,010	LIMAN	Leica Manual and Data Book. An authoritative book on the Leica, its accessories and their uses. Has 456 pages covering all branches of Leica photography. Data on all Leicas including the M 3. Charts, tables. Cloth bound	\$ 6.00

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
20,014	PLBKEE	Pocket Leica Book by Theo Kisselbach. An authoritative book covering the Leica, its accessories and their uses. Basic principles and theory of Leica photography explained in non-technical language. Hard covers, 192 pages, translated from the German	\$ 2.95
20,016	TLWAME	The Leica Way by Andrew Matheson. A 423-page illustrated book packed with information on the construction and use of the Leica, its lenses and accessories. The Leica M 3 is fully discussed as well as discontinued models of the Leica. 88 Leica photographs; more than 250 diagrams; 34 pages of tables and formulas. Fourth Edition; cloth bound . .	5.40
20,017		More Color Magic by Walther Benser. A wealth of information on color photography by a world-famous lecturer. Hard covers, many colorful illustrations	4.50
20,026	LIPPHS	The Leica in Professional Practice by Heinrich Stockler. A compilation by the editor of Leica Fotografie of 27 articles on professional photography; subjects range from Leica technique through journalistic and commercial photography to the use of Leica in science and medicine; each chapter written by an expert in his field. Hard covers, 62 four-color plates, 200 black-and-white illustrations, 340 pages. Translated from the German	9.95
20,020		Leica Instruction Book for models If, Iff and IIIf. . . . .	.35
20,024		Leica Instruction Book for model M 2 . . . . .	.35
20,022		Leica Instruction Book for model M 3 . . . . .	.35
20,023		Leica Instruction Book for Model IIIg . . . . .	.35
20,000	LPBGL	Leica Photography Binder (9½ x 11½ inches) holding up to 8 copies of Leica Photography. Hard cover finished in green leatherette with embossed gold lettering	3.00

FREE LITERATURE AVAILABLE ON REQUEST

Leica Cameras and Lenses	Braun Hobby Flash Units	Valoy II Enlarger
Leica M1	Imarect Viewfinder	Focomat Ic Enlarger
Leica M2	Leica Meter 3	Focomat IIc Enlarger
Leica M3	Chico Flash Unit	Rondinax Developing Tank
Leica IIIg	POOWU Copying Device	
Leica Ig	Device	

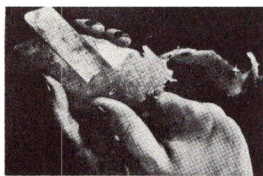
CLOSE-UP PHOTOGRAPHY

Through close-up photography, you can enter and record a world which is otherwise closed to you by the limitations of the human eye. With the camera you can explore the delicate beauty of the interior of a flower, the strangeness of the insect world, and even the fascinating microscopic life in a drop of pond water. And on a purely practical level, close-up photography enables you to copy a rare document, make records of your stamp or coin collection, and do a thousand other useful jobs.

So, early in Leica history, accessories for close-up, macrophotography and photomicrography became an important part of the Leica System. There are a variety of them, refined and perfected by four generations of microscope-making experience, designed to meet every need and every budget.

Close-ups and macrophotographs are made possible by extending the lens further from the film plane than the focusing mount normally permits, or by shortening the focal length of the optical system by adding a supplementary lens to the normal camera lens. Increased extension is achieved by interposing one or more rigid extension tubes, or a flexible bellows, or a combination of both, between the lens and the camera body. The ground-glass focusing screens of the Visoflex and the Focoslides permit precise framing and focusing of the subject directly through the lens.

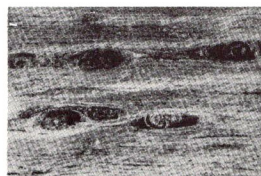
Close-Up photography falls into three classifications:



Gross photography.—Photography at distances between the minimum focusing range of the lens and natural size (image size = object size).



Macrophotography.—Photography at magnifications on the negative (larger than natural size) without the aid of a microscope.



Photomicrography.—Photography at high magnifications using a microscope. The Leica lens is not used, but is replaced by the optical system of the

Leitz close-up accessories are of two types—fixed focus and variable focus. The former are light, easy to carry and inexpensive, but have limited applications. The variable focus units cost somewhat more, but are universal in use, as well as being light and portable. The Reproduction units are designed for the photographer who does a great deal of copying or close-up work and who needs a permanent setup for this work.

Photomicrography differs from close-up and macrophotography in that the optics of the camera are not used. The camera body acts chiefly as a film transport; the microscope lenses form the image. Several accessories for photomicrography are available, so that you can choose the one which best meets your individual needs.

OPTICAL CLOSE-FOCUSING DEVICES

The Optical Close-Focusing Devices are unique among Leica close-up accessories in that they make use of the camera's built-in range- and viewfinders for focusing and framing the picture. They increase the usefulness of most 50mm Leica lenses in the same general way that the built-in close-up range of the 50mm Dual-Range Summicron increases its usefulness. In addition to increasing the extension between lens and film, these accessories use a moving optical wedge to adapt the rangefinder for close-distances and a mask in front of the viewfinder to compensate automatically for parallax and reduced field of view.

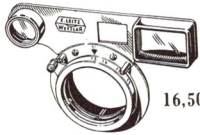
The NOOKY, and SOOKY fit any screw-threaded Leica with coupled rangefinder except the IIIg. The ADOVO device is used with the IIIg, and the SOMKY fits the Leica M 3 and M 2.

OPTICAL CLOSE-FOCUSING DEVICES

Catalog Number	Code Word	Item	Retail Price
16,500	NOOKY	Close Focusing Device for "f" series and earlier Leicas and screw-mounting 50mm Elmar f/3.5 lens (1:17.5—1:6.5)	\$ 36.00
16,502	SOOKY	Close Focusing Device for "f" series and earlier Leicas and screw-mounting 50mm Summicron f/2 or Elmar f/2.8 lens (1:17.5—1:8)	36.00
16,505	NOKUM	Close Focusing Device for "f" series and earlier Leicas and screw-mounting 50mm Summar or Summitar f/2 lens	31.50
16,503	ADVOO	Close-Focusing Device for Leica IIIg. Consists of supplementary front lens fitting 50mm Leica lenses of 42mm front diameter and Optical Viewing Unit which adapts the focusing rangefinder for close-up work between 34 inches and 20 inches (1:15—1:8)	24.00
16,507	SOMKY	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")	36.00
16,508	UOORF	Adapter fitting lens unit of rigid-mount Summicron to Close Focusing Device #16,507 or Auxiliary Reproduction Unit #16,526	2.70
16,509	SOMKY-UOORF	Close Focusing Device #16,507, complete with Adapter #16,508 for use with lens unit of rigid 50mm Summicron. See descriptions of #16,507 and #16,508 for other uses	38.70



16,502



16,507



16,508

FIXED FOCUS UNITS

The Auxiliary Reproduction Units are easily disassembled and fit easily into a pocket or gadget bag. They are fixed focus devices used mainly for copying printed material or small objects. Their extensible legs both outline the picture area and automatically hold the camera at the proper distance from the subject, making them extremely simple to use.

You can use them on any Leica which accepts interchangeable lenses, being sure, of course, to choose one designed for the type of lens mount your Leica has.



16,520

16,511 BEOON **Universal Copying Stand** for 1:1, 1:1.5, 1:2 and 1:3 ratios. Adjustable in height with bracket for camera. Complete with 4 extension tubes, 3 field masks, 5X magnifier with ground glass housing to check focus. Accepts any bayonet-mounting or screw-threaded Leica (not yet available)

55.50

16,520 BEHOO **Auxiliary Reproduction Unit** (1:1.5—1:2—1:3) for 50mm screw-mounting Elmar f/3.5 or Summar f/2 lens. Covers areas of 1 13/32" x 2 1/8", 1 7/8" x 2 27/32" and 2 27/32" x 4 13/32".

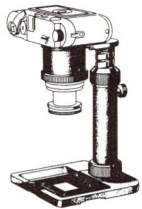
15.00

16,525 BOOWU **Auxiliary Reproduction Unit** (1:4—1:6—1:9) for all 50mm screw-mounting Leica camera lenses. Covers areas of 4 1/8" x 5 3/4", 5 3/4" x 8 1/4" and 8 1/4" x 11 5/8"

28.50

16,526 BOWUM **Auxiliary Reproduction Unit**, bayonet-mounting, for bayonet-mounting Leica cameras. 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 5/8"

36.00



16,511



16,525

BELLOWS EQUIPMENT

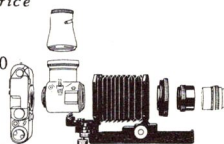
The Bellows Focusing Device is used with the Visoflex I. It provides continuously variable extension between the camera lens and focal plane, adjustable by rack and pinion. The Bellows device can be used with any interchangeable Leica lens within a certain focusing range. However, it is at its most versatile when used with the Visoflex I and lens units of the 125mm or 135mm Hektor. Two scales on the bed of the Bellows Attachment show ratios of reproduction and exposure factors at various settings. One is for the 125mm lens, the other for the 135mm lens.

Working with the Visoflex I, Bellows and lens unit of the 125mm or 135mm Hektor, you have continuous focus from infinity down to a 1:1 image-object ratio (life-size).

Various lens adapters are available for use with the Bellows Device. They are interchangeable, and screw into the front of the assembly. There are adapters for collapsible 50mm Elmar and Summicron lenses, for the lens units of the 50mm Dual-Range or rigid-mount Summicrons and another which accepts any bayonet-mounting Leica lens. The two-piece adapter for the 135mm Hektor serves two purposes. It adapts the front of the Bellows Focusing Device to accept a Leica lens screw thread. And a tubular section provides the proper lens extension for infinity to 1:1 focusing with the Bellows Device and Visoflex I. Removing the tubular section exposes a Leica thread which accepts screw-mounting lenses or various extension tubes.

The Bellows Focusing Device with Visoflex I can be used on a tripod. Or, with adapters, you can also use it on carrying arms which fit the uprights of Leitz enlargers. For critical focusing, when you are working at predetermined image-object ratios, you can add the Rack and Pinion Fine Adjustment as an accessory.

Catalog Number	Code Word	Item	Retail Price
16,555	UXOORHE	Bellows Focusing Device with divisible adapter for 135mm Hektor lens or all other screw-mounting Leica lenses	\$ 66.00
<i>135mm Hektor lenses with serial numbers below 241,000 cannot be used with the Bellows Focusing Device.</i>			
16,485	OZYXO	Visoflex I, screw-mounting; with 5X wide-field magnifier and double cable release	102.00
16,484	OZUPO	Visoflex I, screw-mounting; without magnifier but with double cable release	81.00
16,483		Visoflex I, screw-mounting, without magnifier or cable release	73.50
16,482	OZXOM	Visoflex I, bayonet-mounting; with 5X wide-field magnifier and double cable release.	105.00
16,481	OZPOM	Visoflex I, bayonet-mounting; without magnifier but with double cable release	84.00
16,480		Visoflex I, bayonet-mounting, without magnifier or cable release	76.50
16,492	OZWTO	Double Cable Release for Visoflex I and any screw-mounting Leica.	7.50
16,491	OZTOM	Double Cable Release for Visoflex I and bayonet-mounting Leica Models	7.50
16,493	OZXVO	Release Coupling for Visoflex I and any screw-mounting Leica. Single-button hand or cable release operation.	9.00
14,088	OZTNO	Release Adapter. Adapts Visoflex I Double Release #16,492 and camera Cable Releases #14,070, #14,075 and #14,080 to bayonet-mounting Leica Models . . . . .	.60
16,486	LVFOO	Wide-Field Magnifier (5X) for Visoflex I	21.00



16,555



16,483

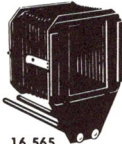


16,486

BELLOWS EQUIPMENT



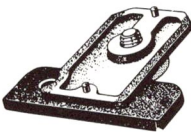
16,487



16,565



16,596



16,600

Catalog Number	Code Word	Item	Retail Price
16,487	PEGOO	Wide-Field 45° Magnifier (4X) for Visoflex I. The image is erect and laterally correct. . . .	\$42.00
16,565	UZEEO	Bellow Lens Hood (with removable mask) for screw-mounting lenses of 36mm front diameter only.	16.50
16,566	UEPOO	Interchangeable Clamping Ring for Bellows Lens Hood #16,565. Converts to #16,567 for use with Leica lenses having 42mm front diameter.	4.80
16,567	UZEOM	Bellows Lens Hood (with removable mask) for 42mm front diameter 135mm Hektor lens	16.50
16,568	UEOOK	Interchangeable Clamping Ring for Bellows Lens Hood #16,567. Converts to #16,565 for use with lenses having 36mm flange diameter	4.80
16,570	UOOST	Divisible Adapter fitting 135mm Hektor lens unit to bellows. (Lenses having serial numbers 245,000 to 245,800 or lower than 241,000 must be sent to Service Department for fitting)	4.80
16,575	UOOTG	Divisible Adapter fitting any rigid 90mm Elmar lens unit to bellows	4.80
16,598	UOOZK	Adapter, fitting lens unit of 90mm Summicron lenses #11,023, #11,123 or #11,124 to bellows	3.75
16,572	UOOXI	Adapter fitting 125mm Hektor lens to bellows (permits focusing to infinity).	2.70
16,552		Interchangeable Scale for Bellows Focusing Device used with 125mm lens. Direct-reading; shows ratios of reproduction and exposure factors at all Bellows extensions . . . . .	.75
16,595	UYCOO	Bayonet Adapter fitting 50mm screw-mounting Elmar 50mm f/3.5 lens to bellows	4.80
16,596	UOOND	Bayonet Adapter fitting all bayonet-mounting Leica lenses to bellows.	6.90
16,597	USOOR	Bayonet Adapter fitting 50mm Summitar lens to bellows.	4.80
17,672	DMUOO	Adapter fitting lens units of 50mm Dual-Range and rigid-mount Summicron lenses to bellows. Used with adapter ring #16,590	2.10
16,590	UOOYW	Adapter Ring fitting Leica lenses or extension tubes to bellows	3.45
16,580	UOOVH	Special Extension Tube fitting 135mm Hektor lens unit to bellows adapter ring. (Lenses having serial numbers 245,000 to 245,800 or lower than 241,000 must be sent to Service Department for fitting.)	1.35
16,585	UOOVW	Special Extension Tube fitting 90mm Elmar lens unit to bellows adapter ring	1.35
16,620	VALOO	Diaphragm Adjusting Ring for screw-mounting 50mm f/3.5 Elmar lens. Settings are indicated by click stops and are visible from the side	6.60
16,600	UWYOO	Adapter Plate fitting bellows to carrying arms for use on enlarger uprights, Rack and Pinion Fine Adjustment or Valoy II Enlarger carrying arm with adapter #16,601 (page D7)	2.10
14,650	UYOOQ	Fiber Case fitted for Bellows, Visoflex I, Focoslide, Leica and accessories	19.50

FOCOSLIDE EQUIPMENT

The Focoslide is a most versatile accessory for close-up and macrophotography. You can even adapt it for photomicrography! It is the basis of all Reproduction Units except the Reprivit II, and even this uses a focusing stage similar to the Focoslide.

In use, the Focoslide accepts the Leica on its sliding upper platform. With this method, film is in the same plane as the ground-glass focusing screen. The lens with its auxiliary Focomount (focusing mount) and extension tubes (if needed) screws into the lens flange of the lower platform. You focus sharply on the ground-glass and slide the camera into position. Two tripod bushings permit you to mount the Focoslide on a tripod or on carrying arms which fit the enlargers.

There are now two models of the Focoslide available; #16,607 for all Leica cameras with screw-mounting lenses, and #16,850 for all Leicas with bayonet-mounting lenses. Both accept the new-type, large-diameter Focomount in which the lens adapters are attached by means of three screws, and which can be interchanged with the aid of a screwdriver.

The former Focoslides for the IIIg, IIIf and former Leica cameras with screw-mounting lenses have been discontinued. But certain accessories and extension tubes for these Focoslides are still available.

Supplementary Focoslide Equipment

Focomounts are available for both current and former models of the Focoslide. As mentioned, these provide for the mounting of various Leica lenses on the Focoslides, as well as a means of focusing the lenses.

Extension tubes are also available to increase the lens-to-film distance and thus to increase image magnification on the negative. These, too, are available for both present and former Focoslide models.

Various adapters and other supplemental equipment increase the versatility of the Focoslide still further. For instance, the Focoslide can be mounted on the upright of the Valoy II via a simple adapter, forming an excellent copying outfit. The Projection Head fits over the ground-glass screen of the Focoslide in place of the focusing magnifiers. When you turn it on, a focusing pattern in the clear area of the Focoslide screen projects onto the copying board. You adjust the lens until this pattern is sharp. The projected light area outlines the area to be photographed. The Diaphragm Adjusting Ring provides a simple means of aperture adjustment when certain 50mm lenses are used on the Focoslide.

Highly corrected magnifiers are available to help you get sharp focus and exact framing. Each fastens to the focusing screen of either current or former Focoslide models via a bayonet catch. And each is interchangeable among the Focoslide, Visoflex I and Reproduction Units. (Magnifiers for the Visoflex II, however, fit only that accessory.)

The 30X Magnifier is used with the clear central spot in the Focoslide screen for aerial focusing of the image.

For convenience, complete Focoslide outfits are listed, as well as individual components. Each outfit is designed for use with a particular Leica lens, and includes components such as magnifiers, Focomounts, extension tubes, and so forth.

FOCOSLIDES

Catalog Number	Code Word	Item	Retail Price
16,607	OOBAZ	Focoslide accepting all screw-threaded Leica cameras	\$ 43.50
16,680	OOTGU	Focoslide accepting all Leica cameras with bayonet-mounting lenses.	43.50



16,680

AUXILIARY MOUNTS

(All Focomounts are adjustable through a range of 22mm.)

16,608	VXZOO	Focomount with Lens Adapter #1 for screw or bayonet-mounting Elmar 50mm f/2.8 or bayonet-mounting Elmar 50mm f/3.5, adjustable through a range of 1:12.5 - 1:2 (with Extension Tube N 1:1.7 - 1:1)	13.50
16,609	VXOOT	Focomount with Lens Adapter #2 for screw-mounting Elmar 50mm f/3.5, 1:18 - 1:2 (with Extension Tube N 1:1.8 - 1:1.1)	13.50
16,688	ZQGOO	Focomount with Lens Adapter #3 with standard Leica thread 39mm-1, accepting Focotar 50mm f/4.5 lens, adjustable through a range of infinity - 1:2.5 (with Extension Tube N 1:2.2 - 1:1.1)	13.50
16,685	VSPOO	Focomount with Lens Adapter #4 for lens unit of the bayonet-mounting Dual-Range or rigid 50mm Summicron lenses, 1:60 - 1:2.2 (with Extension Tube N 1:1.9 - 1:1.1)	13.50



16,685



16,689



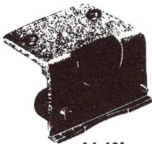
16,686

EXTENSION TUBES AND SUPPLEMENTAL EQUIPMENT FOR NEW FOCOMOUNTS #16,608, #16,609, #16,688 and #16,685

16,689	VWOOU	Repro Extension Tube N, 28mm, with 51mm-1 thread, fits between Focoslide and Focomount. Use multiple combination of this tube to obtain magnification higher than indicated in Focomount listing above.	2.70
16,622	VTOOX	Diaphragm Adjusting Ring for Elmar 50mm f/2.8	9.00
16,620	VALOO	Diaphragm Adjusting Ring for screw-mounting Elmar 50mm f/3.5	6.60
16,686	VTROO	Diaphragm Adjusting Ring for lens unit of Summicron 50mm f/2 rigid or Dual-Range.	9.00
16,614	VWXOO	Filter Adapter Ring, permits use of 36.5mm screw-in filters on 50mm Summicron lens unit or Elmar 50mm f/2.8 lenses with Diaphragm Adjusting Ring in position	2.25
16,564	YROOF	Rack and Pinion Fine Adjustment for Focoslide or Bellows	25.50
16,705	XBEEET	Adapter, with dovetail slide, fitting Focoslide to arm of Pillar Stands LURTE or US II	10.40
16,601	UWOOS	Valoy II Adapter for mounting Focoslide on carrying arm of Valoy II enlarger or Reprovit I	4.50
16,750	OUTSO	Projection Head with 100 watt lamp for Focoslide or Reprovit II focusing stage.	27.00



16,705



16,601



16,750

FOCOSLIDE OUTFITS

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
16,632	OOGAN	Focoslides Outfit for screw-mounting Leica cameras and Elmar 50mm f/2.8, consisting of Focoslides #16,607, Focomount #16,608, Repr Extension Tube #16,689, Diaphragm Adjusting Ring #16,622, 5X Wide-Field Focusing Magnifier #16,486 and Cable Release #14,075. . . .	\$91.32
16,633	OOGIT	Focoslides Outfit for screw-mounting Leica cameras and Elmar 50mm f/3.5 consisting of Focoslides #16,607, Focomount #16,609, Repr Extension Tube #16,689, Diaphragm Adjusting Ring #16,620, 5X Wide-Field Magnifier #16,486, and Cable Release #14,075.	88.92
16,634	OOGUM	Focoslides Outfit for screw-mounting Leica cameras and 50mm f/4.5 Focotar lens, consisting of Focoslides #16,607, Focomount #16,688, Repr Extension Tube N #16,689 5X Wide-Field Magnifier #16,486, and Cable Release #14,075.	82.32
16,681	OOMYL	Focoslides Outfit for bayonet-mounting Leica cameras and lens unit of Dual-Range or rigid mount 50mm Summicron, consisting of Focoslides #16,680, Focomount #16,685, Repr Extension Tube N #16,689, Diaphragm Adjusting Ring #16,686, 5X Wide-Field Magnifier #16,486 and Cable Release #14,067.	90.75
16,682	OOMAP	Focoslides Outfit for bayonet-mounting Leica cameras and 50mm Focotar f/4.5 lens, consisting of Focoslides #18,850, Focomount #16,688, Repr Extension Tube N #16,689, 5X Wide-Field Magnifier #16,486, and Cable Release #14,067.	81.75



16,681



16,486



16,488

FOCUSING MAGNIFIERS			
16,486	LVFOO	Wide-Field Magnifier (5X) (Also fits Visoflex I).	21.00
16,487	PEGOO	Wide-Field 45° Magnifier (4X) (does not fit Focoslides for screw-mounting Leicas)	42.00
16,488	PAMOO	Wide-Field 90° Magnifier (5X) (Also fits Visoflex I).	30.00
16,489	LWOOO	Magnifier (30X) (Not for Visoflex I)	24.00



16,489

ACCESSORIES FOR FORMER STYLE FOCUSLIDES

**Extension Tubes With 39-1mm Thread
(Standard Thread of Screw-Mounting
Leica Lenses)**

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
<p style="text-align: center;">These Extension Tubes have been designed for the former Focoslides but they can also be used on the new Focoslides with the Focomount #16,688 (after attaching Repr tube #16,615 to Focomount) to increase the extension and to obtain higher magnification.</p>			
16,635	BOOXZ	Extension Tube B (7mm).	\$ 1.20
16,640	FVOOQ	Extension Tube F (15mm).	1.50



16,615



16,610



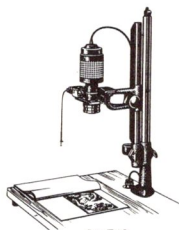
16,650



16,665



16,670



16,749

Catalog Number	Code Word	Item	Retail Price
16,615	ROOYH	Repro Extension Tube (26mm) for Focounts #16,610 and #16,611	\$ 2.70
16,645	GVKOO	Extension Tube G (30mm)	2.70
16,646	FUFOR	Extension Tube (45mm)	3.42
16,647	FULGX	Extension Tube (60mm)	3.77
16,648	FULHI	Extension Tube (90mm)	4.44

Supplementary Equipment

16,610	ZOOXY	Focount for former Focoslides and 50mm Elmar f/3.5 lens. Adjustable through a range of 22.5mm	12.00
16,611	ZOOWL	Focount for former Focoslides and 50mm Focotar f/4.5 lens. Similar to #16,610, but with Leica lens thread	14.40
16,613	ZOOVX	Adapter fitting 50mm Focotar f/4.5 lens to Focount #16,610	2.40
16,650	ZISUM	Intermediate Focusing Mount for 50mm Summar or Summar lens. Adjustable through a range of 8mm	9.90
16,665	ZOOMF	Special Extension Tube (50mm) for short mounted 135mm Hektor lens	2.70
16,670	COOED	Short Focusing Mount for screw-mounting 90mm Elmar lens.	16.50

Variable Focus Reproduction Units

The Reprovits I and II are convenient and versatile copying devices with a wide range of coverage and many accessories. The Reprovit I is built around the Focoslides; the Reprovit II is a professional unit designed for production work. Its focusing stage, mounted on a counterbalanced carrying arm, has a bellows and rack and pinion adjustment and a scale giving exposure factors and ratios of reproduction. Without additional accessories, areas from 16" x 24" to 1" x 1 1/2" can be covered by replacing the Focotar lens with a 24mm Micro Summar f/4.5 lens you can make macro-photographs up to 6.5 diameters on the negative. You can even take the focusing stage with bellows off the carrying arm and put it on a tripod for field use. Focus is continuous from infinity to natural size (1:1).

The Valoy II stand and arm can be adapted to accept the Visoflex I with Bellows Device or the Focoslides, forming still another variable focus reproduction unit.

16,701	OVURO	Valoy II Copying Stand. Consists of baseboard (15 1/2 x 17 3/4 inches); upright (32 inches high) with guide rail; assembly tool; carrying arm with coarse and fine adjustment and adapter for Focoslides. (Stand can be converted to enlarger by addition of Valoy II Enlarger Head.)	\$ 52.50
17,503	VALOEH	Valoy II Enlarger Head; complete with negative carrier and bulb. (Converts Valoy II Copying Stand to enlarger	48.00
16,749	ROODE	Reprovit I Reproduction Outfit. Consisting of: Copying Stand with offset bracket #16,746; removable upright with guide rail #16,747; adjustable carrying arm #16,748; Focoslides adapter #16,706 and Projection Head #16,750	132.00
16,746	OLAQO	Copying Stand with baseboard 23 x 26 3/4 inches; change-over switch; upright 31 1/2 inches high, 40mm diameter and adjustable offset bracket	75.00

Catalog Number	Code Word	Item	Retail Price
16,742		Baseboard, 23 x 26 $\frac{1}{4}$ inches	\$46.50
16,743		Upright, 31 $\frac{1}{2}$ inches high, 40mm diameter	15.00
17,552	VOOQF	Upright, 32 inches high, 32mm diameter	15.00
16,744		Offset Bracket. Can also be used on upright of Focomat Ic enlarger with Column #16,747, Adjustable Carrying Arm #16,748 and Adapter #16,706 to make copying unit for use with Focoslide	13.50
16,747	OKZPO	Removable Column, 25 $\frac{1}{2}$ inches long, with guide rail	9.00
16,748	OKYNO	Adjustable Carrying Arm, self-locking, with quick-set finger release and rack-and-pinion fine adjustment. (Accepts Valoy II enlarger head #17,503, Focoslide with adapter #16,706 or Bellows Focusing Device with adapters #16,706 and #16,600.)	16.50
16,601	UWOOS	Valoy II Adapter for mounting Focoslide on Carrying Arm #16,748	4.50
16,750	OUTSO	Projection Head with 100 watt lamp for Focoslide	27.00
16,760	UVWOO	Lamp Adapter for connecting four copying lamps to change-over switch of Reprint I	2.70
16,795	ROOXU	Reprint II Reproduction Outfit for Leica IIIg, IIIf and other Leica cameras with screw-mounting lenses; covering ratios from 1:17 to 1:1. Consisting of Copying Stand #16,765; Focusing Stage #16,770; Diaphragm Lever and Operating Guide #16,775; Projection Head; 50mm Focotar f/4.5 lens #16,781, Four-Lamp Illuminator #16,785	456.00
16,796	ROXUM	Reprint II Reproduction Outfit for "M" series Leica cameras; otherwise, same as #16,795	456.00
16,765	RIOOX	Copying Stand with baseboard 23 x 27 inches, rubber supports and built-in change-over switch from focusing light to copying lights; double uprights 47 inches high with self-locking counter-balanced carrying arm for holding Focusing Stage; with tape measure and assembly tool. Supplied with Reprint II	159.00
16,770	ROOAI	Focusing Stage with bellows and rack and pinion adjustment for Leica IIIg, IIIf and other Leica cameras with screw-mounting lenses; supplied with #16,795	108.00
16,771	ROOAM	Focusing Stage with bellows and rack and pinion adjustment for "M" series Leica cameras; supplied with #16,796	108.00
16,775	RDQOO	Diaphragm Lever and Operating Guide. (Automatically opens lens for focusing, closing to f/11 when exposing.) Supplied with Reprint II	7.50



16,748



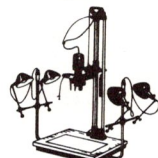
16,601



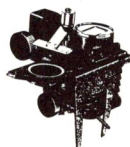
16,750



16,760



16,795



16,775 16,770

Catalog Code
Number Word Item Retail Price

16,750 OUTSO Projection Head for focusing and aligning with 100 watt lamp for Focoslides or Reprovit II focusing stage or Reprovit I \$ 27.00



16,781

16,781 DOOCQ Repro 50mm Focotar f/4.5 lens with click stops. (Especially corrected for close distances.) Supplied with Reprovit II 49.50

16,785 RKCOO Four-Lamp Illuminator with 100 watt lamps connecting to change-over switch of Reprovits I and II. Supplied with Reprovit II 105.00



16,780

17,504 VOOLY Valoy II Enlarger Head, with adapter, fitting carrying arm of Reprovit II Reproduction Outfit. Converts Reprovit II to an enlarger 64.00

SUPPLEMENTAL EQUIPMENT

16,780 OWMAN 24mm Micro Summar f/4.5 with adapter for Reprovit II. Magnifications up to 6.5X are possible 54.00

17,675 DOORX Extension Ring for converting Focotar lens which is supplied with Reprovit II to Focotar lens #17,581 for use with Valoy and Focomat Ic enlargers 1.50



17,675

16,761 RGWO Framing Box (11-5/8" x 16-5/8") with clamping device for Reprovit II. Books and other material up to 5 inches thick are held flat against the glass top 111.00

16,762 OOEVM Illuminating Box (7" x 9 1/2") for transillumination of material being photographed. A milk glass plate evenly diffuses the light from four 25 watt lamps 42.00

16,763 OOEUK Illuminating Box (14" x 16") for transillumination of material being photographed. A milk glass plate evenly diffuses the light from four 60 watt lamps 84.00

16,764 BEEUL Connecting Cord (5 foot) with switch for illuminating boxes #16,762 and #16,763 5.00

REPLACEMENT LAMPS

16,751 VOLAM Projection Bulb (100 watt) for Projection Head #16,750 4.50

16,766 VFOOL Bulb (100 watt) for Four-Lamp Illuminator #16,785 1.00

16,767 BERAT Bulb (25 watt) for Illuminating Box #16,76280

16,768 VKOOK Bulb (60 watt) for Illuminating Box #16,76390

PHOTOMICROGRAPHY

You get many advantages when you use your Leica for photomicrographs.

Film economy.—Unless you have had a lot of experience, you will make several exposures of each subject. While there are good exposure meters for photomicrography, they are expensive. Trial-and-error is still the method most often used for determining correct exposure. This can run into considerable expense with large photomicrographic cameras, especially with color film.

Short exposures.—The Leica film-plane, being much closer to the microscope ocular than that of a larger camera, has less “bellows draw”; therefore, exposures are much shorter. Shorter exposure lessens the chance of vibration and the movement of living specimens during exposure.

Observe while exposing.—The swing-out prism of the Micro Ibsa and Micro Attachment passes 60% of the light to the negative and 40% through the telescope for viewing. You can view living organisms during actual exposure. If you want all of the light to reach the negative, use the Double Release which swings the prism out of the light path as it trips the shutter.

Homogeneity of equipment.—The Leica with Micro Ibsa connects to the draw-tube of the microscope; its light weight needs no special support. Your set-up occupies less space and is easier to adjust.

Determination of magnification.—The fixed position of the Leica film-plane eliminates measurement of film distance. It simplifies your computation. You just multiply the power of the objective by that of the ocular and divide by the factor of the attachment.

Example: 45X objective—10X ocular—Micro Ibsa
with ½X correction lens:—
(45x10) ÷ 3 = 150 diameters on the negative.

Enlarge three times to a 3 x 4½ inch print and you have the same magnification you saw through the microscope (450 times). Enlarge to an 8 x 10 print and you have a magnification of 1200 times.

Examine or photograph.—You can leave the Micro Ibsa or Micro Attachment in position on the microscope at all times. For visual examination of the specimen use the viewing telescope; to photograph the specimen simply press the cable release. You need not change focus or alignment of equipment.

MICRO IBSO

The Micro Ibsa replaces the lens on your Leica. The attachment and camera are then connected to the draw-tube of any standard microscope. The Micro Ibsa has its own “X”-synchronized Ibsa shutter (1 to 1/125th, “T” and “B”) to eliminate vibration at high magnifications and comes with a 10X Periplan ocular. The swing-out prism passes 40% of the light through the viewing telescope which is focused on cross hairs for your individual eyesight.

The interchangeable conical tube of the Micro Ibsa has a correction lens with a magnifying factor of ½X or ⅓X. It shortens the microscope’s “infinity” from 250mm to that of the Leica film-plane. If this compensation were not made you would have to refocus the microscope and so sacrifice resolution.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
17,000	MIKAS	Micro Ibsa with screw-mounting 1/3X conical correction tube and two cable releases . . .	\$115.00
17,001	MIKAS-M	Micro Ibsa with bayonet-mounting 1/3X conical correction tube and two cable releases	117.00
17,005	MIBAC	Micro Ibsa with screw-mounting 1/2X conical tube and two cable releases	118.00
17,006	MIBAC-M	Micro Ibsa with bayonet-mounting 1/2X conical correction tube and two cable releases	120.00



MICRO ATTACHMENT

The Micro Attachment is for use with the Reprovit II or Focoslide when mounted on a separate support. You can focus the microscope image on the ground-glass screen or through the viewing telescope. It is quite like the Micro Ibsa, but in place of the interchangeable conical tube it uses a cylindrical tube with $\frac{1}{3}X$ correction lens. Connection is made to the draw-tube of the microscope with a light-excluding adapter. No ocular comes with the attachment. If you do not have a compensating eyepiece, the 10X Periplan is recommended.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
17,050	RPNOO	Micro Attachment with 1/3X correction lens and two cable releases, but without ocular.	\$120.00
17,051	RPOOT	Micro Attachment with 1/3X correction lens. For applications similar to #17,050 but without Ibsor shutter, viewing telescope or cable releases	21.00
17,053	RSTOO	Micro Attachment with 1/2X correction lens and two cable releases, but without ocular.	123.00
17,054	RTSOO	Micro Attachment with 1/2X correction lens. For applications similar to #17,053 but without Ibsor shutter, viewing telescope or cable releases	24.00

FOCOSLIDE PHOTOMICROGRAPHY

You can use the Focoslide for taking photomicrographs without the Micro Attachment (focusing on the ground-glass screen) and still have the advantage of "infinity correction." The screw-mounting interchangeable conical tubes screw into former models of the Focoslide and connect to the microscope with the light-excluding rings. A step-down adapter is needed to use the conical tubes on current Focoslides. Information on this adapter is available on request.



17,025

17,025 GHEF Interchangeable Conical Tube (1/3X), screw-mounting, for use on Focoslide or Micro Ibsa 15.00

17,026 GHEF-M Interchangeable Conical Tube (1/3X), with bayonet mount, for Micro Ibsa 17.00

17,030 GIIMW Interchangeable Conical Tube (1/2X), screw-mounting, for use on Focoslide or Micro Ibsa. 18.00

17,033 GIIMW-M Interchangeable Conical Tube (1/2X), with bayonet mount, for Micro Ibsa 20.00

17,031 GIINK Interchangeable Conical Tube (1X), screw-mounting, for use on Focoslide or Micro Ibsa 24.00



17,030

ACCESSORIES FOR PHOTOMICROGRAPHY

17,032 LSZOO Light-Excluding Rings (set of 2) for light-tight connection between conical tubes and microscope \$ 7.50

17,055 PEZEN Periplan Ocular (10X) for use with Micro Attachment 19.00

14,070 FINOT Leica Cable Release (10 inch) with set-screw for locking focal plane shutter in open position 1.20

17,015 GIBR Cable Release with set-screw for operating prism. Supplied with Micro Ibsa and Micro Attachment. 2.00

17,020 GIIFT Cable Release without set-screw for operating Ibsor shutter. Supplied with Micro Ibsa and Micro Attachment 2.00

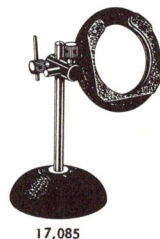
ACCESSORIES FOR PHOTOMICROGRAPHY

Catalog Number	Code Word	Item	Retail Price
17,010	CALOS	Double Release fitting cable releases of Micro Ibsso and Micro Attachment. Simultaneously operates shutter and swing-out prism	\$11.00
17,040	AGIU	Clamping Ring for adjustable draw-tube of 31.8mm inside diameter (Leitz Stand B). Prevents creeping of draw-tube	3.50
17,045	GFEH	Clamping Ring for adjustable draw-tube of 25.4mm inside diameter (Leitz Stand G). Prevents creeping of draw-tube	3.50
17,035	GDIK	Adapter fitting Micro Ibsso to Leitz polarizing microscopes with large diameter draw-tube . .	6.60



SUPPLEMENTAL EQUIPMENT FOR PHOTOMICROGRAPHY

17,060	BEECH	Monla Microscope Lamp (low voltage) for photomicrography or visual observation. Has concentrated filament bulb, focusing condenser and adjustable stand	\$ 44.00
17,075	LIND	Bulb (6 volt, 5 ampere) for Monla lamp	3.00
17,065	REDYX	Regulating Transformer (110/220 volts A.C.) with ammeter for Monla Microscope Lamp . . .	53.00
17,067	RESOX	Regulating Transformer (110 volts A.C.) with three taps (giving 3 brightness stages to Monla lamp)	33.00
17,070	REDIG-BEEUL	Resistance (110 volt) for Monla Microscope Lamp. Used in place of transformer to reduce 110 volts A.C. or D.C. to 6 volts	24.00
17,085	IFSTA	Lifa Filter Stand for holding Lifa photomicrographic filters between light source and microscope	12.00
17,080	DTEEO	Lifa Green Filter for photomicrography. Fits filter stand #17,085	11.00



MAGNIFIERS AND READING GLASSES

Whether your attention focuses on beetles' wings or transistor assemblies, the splinter in your daughter's finger or examination of your Leica negatives—there's a Leitz magnifier to make your work easier. Reading glasses, simple and aplanatic magnifiers in a choice of powers permit you to fill your needs precisely.

You can get the 2-inch hand magnifier and the 3½ and 4-inch reading glasses with either a fixed handle or with or without a removable handle. You can mount the latter two on a pillar stand for gross work.

The simple magnifiers have two lens elements and are well corrected. They are excellent and inexpensive optical aids for school use. Their cylindrical mount permits use with a handle or special dissecting stand.

The aplanatic magnifiers are the finest available. They are very highly corrected to give a flat field free from distortion and color fringes. You have a choice of models in magnifications from 6 to 20 times. You may use them for the most exacting work. They come in a cylindrical mount for use with a handle or special dissecting stand. You can also get them as pocket magnifiers, in protective folding mounts.

<i>Catalog Number</i>	<i>Code Word</i>	HAND MAGNIFIERS <i>Item</i>	<i>Retail Price</i>
18,800	NAHIV	Hand Magnifier (4X), 50mm lens diameter; with fixed polished handle	\$ 12.40
18,805	NEEUG-NEEHX	Hand Magnifier (4X), 50mm lens diameter; with removable handle	12.40
18,810	NEEUG	Hand Magnifier (4X), 50mm lens diameter; without handle	11.60

READING GLASSES

18,815	NAHKY	Reading Glass, 86mm lens diameter; with fixed polished handle	10.00
18,820	NAHKY-NEEHX	Reading Glass, 86mm lens diameter; with removable handle	10.00
18,825	NEEBU	Reading Glass, 86mm lens diameter, without handle	9.20
18,830	NDUEE	Reading Glass, 100mm lens diameter; with fixed polished handle.	10.00
18,835	NDUEE-NEEHX	Reading Glass, 100mm lens diameter; with removable handle	10.00
18,840	NEEDV	Reading Glass, 100mm lens diameter; without handle	9.20
18,845	NAOEE	Reading Glass Stand for mounting 4X magnifier #18,810 or Reading Glasses #18,825 or #18,840. Comprising circular base, upright with adjustable cross arm and universal joint with wing nut.	20.00
18,850	NEEHX	Handle for hand magnifier #18,810 and Reading Glasses #18,825 and #18,840 . . . . .	.80

DISSECTING STANDS

18,940	NADDA	Dissecting Stand accepting simple and aplanatic magnifiers in cylindrical mounts, for use with incident or transmitted light. Comprising horseshoe base with pillar, adjustable illuminating mirror, object stage with glass insert and stage clips, arm rests and a magnifier holder focusing by rack and pinion; with wooden carrying case	60.00
18,950	NADEY	Dissecting Stand as described under #18,940 but with aplanatic magnifiers 10X and 20X; with wooden carrying case	85.00

SIMPLE MAGNIFIERS

18,870	NAGMI	Simple Magnifier (6X), field of view 20mm . .	4.60
18,875	NAGLE	Simple Magnifier (8X), field of view 20mm . .	4.60
18,880	NAGFU	Simple Magnifier (10X), field of view 15mm. .	4.60

APLANATIC MAGNIFIERS

18,900	NAIAS	Aplanatic Magnifier (6X), field of view 30mm. .	11.00
18,905	NAIBB	Aplanatic Magnifier (8X), field of view 22mm. .	11.00
18,910	NAICZ	Aplanatic Magnifier (10X), field of view 15mm	11.00
18,915	NAIGI	Aplanatic Magnifier (12X), field of view 11mm	11.00
18,920	NAILT	Aplanatic Magnifier (20X), field of view 5mm	14.00
18,925	NAFNU	Handle with clamping collar for simple and aplanatic magnifiers in cylindrical mounts . .	3.40

FOLDING MAGNIFIERS

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
18,960	NAJBE	Folding Pocket Magnifier (6X aplanatic) in leather case	\$15.00
18,965	NAJES	Folding Pocket Magnifier (8X aplanatic) in leather case	15.00
18,970	NAJNI	Folding Pocket Magnifier (10X aplanatic) in leather case	15.00
18,975	NAJLO	Folding Pocket Magnifier (12X aplanatic) in leather case	15.00
18,980	NAJOB	Folding Pocket Magnifier (20X aplanatic) in leather case	17.00

RATIOS - AREAS COVERED - DEPTH OF FIELD - EXPOSURE FACTORS
(BASED ON 24 x 36mm 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	138.5	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						

DARKROOM EQUIPMENT

You will enjoy working in your darkroom, for it is here you practice the creative art of photography. From your darkroom come salon prints for exhibits and a priceless store of happy memories captured by your Leica. Your darkroom means economy, too. You can develop and print your own pictures for only the cost of the material. Darkroom work is easy; but, as in taking the picture, your results will depend on the precision of your equipment. Naturally, Leitz darkroom equipment backs up the precision of your Leica in every way.

BULK LOADING

You will find convenience as well as economy when you purchase bulk film and load your own Leica film magazines. If you want to take only a few pictures, load a magazine with a short strip of film. You won't have to wait until you expose three dozen to see the results. Perhaps you may want to take only one picture, such as a black & white test negative. In that case, put a short length of film in the Single Exposure Holder. (You won't even need this accessory to make single exposures with the Leica "M" models.) If you have a full roll of film in your camera and want to remove part of it for development, you will find the Film Cutting Knife useful.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
 14,001	14,001 IXMOO- DRXOO	Film Magazine for all Leicas except "250" exposure model; with screw-cap plastic container	\$ 3.45
	14,006	Film Magazine 14,001 but without container	3.00
	14,010	Plastic Container with screw-cap for Film Magazines . . . . .	.45
	14,015	Center Spool for Film Magazine . . . . .	.75
 14,006	17,100 ABLON	Film Template for trimming trailer and leader on bulk film	2.40
	17,101	Hand Film Winder for loading bulk film into magazines . . . . .	.60
	17,102	Film Cutting Knife for cutting off exposed portions of film in camera	1.50
 14,010	14,120 FCKOO	Single Exposure Holder for Leica models Ic, IIc, IIIc, IIIf with serial numbers below 590,681. For later cameras a special base plate without film positioning bar is required	1.50
	14,125	Single Exposure Holder for Leica models I, Standard, II, III, IIIa and IIIb	1.50
 17,100			



17,101



17,102



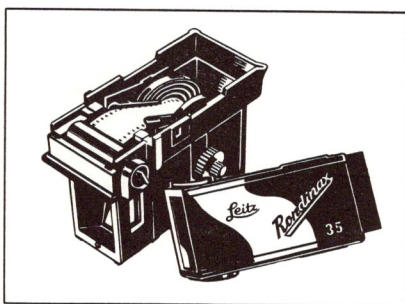
14,120

DEVELOPING TANKS

When you develop films, it is important to keep your solutions at a correct and uniform temperature. Both the "Rondinax" and "Correx" tanks help you to do just that. They are made of strong, shock-resistant plastic which holds an even temperature more readily than metal tanks can. As a further aid to uniform processing, the "Rondinax" features a built-in thermometer. An accessory thermometer is available for "Correx" models.

The "Rondinax" is a daylight-loading tank—you need no darkroom when using it. Since you can load it in full daylight, it is ideal when you travel. You can process as you go, and be sure you have the pictures you want.

The "Correx" tanks must be loaded in a darkroom or changing bag. But once you have loaded them, you can finish the processing in bright light.



Rondinax Developing Tank

"RONDINAX" TANK

Catalog Number	Code Word	Item	Retail Price
17,130	TEOOH	Rodinax Daylight Loading Tank	\$24.00

"CORREX" 35mm AND 120/620 TANKS

17,110	CORUNCJ	"Correx" Tank for 35mm Films, (16 oz.) complete with reel, apron and agitator	6.90
17,111	CORYBCJ	Apron for 35mm "Correx" tank	1.95
17,112	CORIDCJ	Reel for 35mm "Correx" tank	2.10
17,120	CODRORF	"Correx" Tank for #120 or #620 roll films, (16 oz.) apron and agitator	6.60
17,121	CORBARF	Apron for #120-620 roll film "Correx" tank	1.95
17,122	CORSORF	Reel for #120-620 roll film "Correx" tank	1.95

SPARE PARTS FOR DISCONTINUED "CORREX" 35mm TANKS

15,030	CORD	Reel for 17 ounce Tank	\$ 2.85
15,050	CORCF	Lid for 17 ounce Tank	1.65
15,035	COSTI	Agitator for 17 ounce Tank . . . . .	.60
15,065	CORSO	Reel for 10 ounce Tank	1.35
15,072	COODQ	Agitator for 10 ounce Tank . . . . .	.60
15,075	CORET	Thermometer for 10, 16 or 17 ounce developing tanks.	1.50



15,050



15,030



15,035



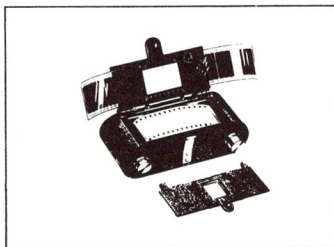
15,075

CONTACT PRINTERS

You will at times want to make contact-size film-strips or copy negatives from your Leica pictures, either as records or for creative darkroom work. And you will enjoy the convenience of the Eldia contact printer for this interesting phase of photography.

ELDIA PRINTER

The ELDIA Contact Printer makes positives of your 24 x 36mm Leica negatives on 35mm film strips. Or you can interchange its hinged masking window with an 18 x 24mm window for single-frame prints. The unexposed film is loaded into a light-tight housing and advanced by turning a knob—a single click for single-frame spacing, two clicks for double-frame. You can print your negatives in any sequence you want, exposing by an external light source.



Eldia Contact Printer

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
17,105	ELDIA	Contact Printer for 35mm strips	\$21.00
17,106	ELKIN	Interchangeable Window (18 x 24mm) for ELDIA Printer	3.60

ENLARGERS

Your Leica negatives are rich in detail and naturally you want prints which bring all of it out. Your enlarger is a vital link between your negatives and prints. In it, precision and utility are as important as in your camera and lens.

Your enlarger must reproduce the wire-sharpness of your negative, yet minimize grain. It must illuminate the entire print area evenly for both small and big enlargements. It must adjust easily, yet remain rigid. Leitz enlargers do all this—and more—because they are designed especially for miniature camera negatives.

Each enlarger has a 75 watt opal bulb which you may adjust in its matt finish reflector. The curvature of the reflector is matched to a special condenser to combine diffused light which reduces grain with "parallel" light which retains detail. You can get higher wattage bulbs for commercial printing or for enlarging on slow papers.

There are two classes of enlargers: manual focusing and automatic focusing. The Valoy II (manual) and Focomat Ic (autofocal) have threaded lens flanges and you can use your screw-mounting 50mm Leica lens (except the Summarit f/1.5). They come with an interchangeable glassless negative carrier for Leica-size negatives and you can also use carriers for negatives up to 4 x 4cm (approximate 1 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "). An accessory orange filter lets you compose your print safely right on the sensitized paper.

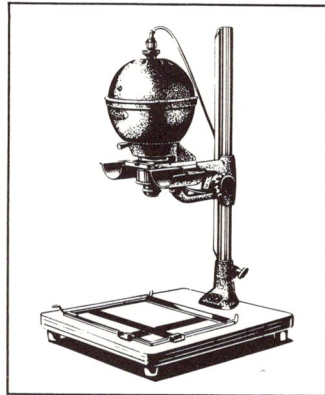
PERSPECTIVE CORRECTOR

You may have noticed that when you photograph a tall building with your camera tilted, parallel edges converge. You've probably also noticed distortions in your interior pictures when the camera was not level, especially if you were using a wide angle lens. These "distortions" are not inherent in your lens, but are the natural result of optical laws and depend on camera angle and variation in distance.

You can change these falsifications and make converging lines parallel by tilting your negative and easel while enlarging. This compensates for your having tipped the camera when taking the picture. The Perspective Corrector will help you. Place the Tilting Negative Carrier Holder in your Valoy II, Focomat Ic or Iic enlarger (it cannot be used with the discontinued Focomat IIa) and your easel on the Tilting Easel Holder. Then adjust one to the other until you get the desired perspective. That's all there is to it.

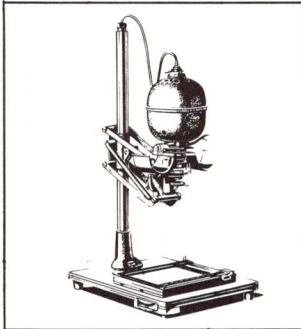
VALOY II ENLARGER

You can use the Valoy II as both enlarger and copying stand! Its baseboard (15 $\frac{1}{4}$ x 17 $\frac{3}{4}$ inches) has a rotating removable upright 32 inches high which has a guide rail to center the carrying arm. The self-locking arm has a finger clamp for rapid positioning on the upright, and a rack-and-pinion for fine adjustment. You can remove the enlarging head from the carrying arm and, with the adapters described in the Close-Up section, attach the Focoslide or Bellows for copying. There is a helical focusing mount for critical focusing and the lamp housing can be tilted for easy removal of the bayonet-mounted condenser.



Valoy II Enlarger

Catalog Number	Code Word	Item	Retail Price
17,501	OZVUO	Valoy II Enlarger and Copying Stand without lens, filter or easel	\$96.00
17,506	FTOOS	Orange Filter for Valoy II	2.40
17,507	NCSOO	Special Condenser for Valoy II enlarger. Treated surface prevents Newton's rings . . .	15.00
17,508	ZPOOK	Table Clamp accepting upright of Valoy II enlarger. Adapts Valoy for enlarging or copying on other than baseboard	12.00
16,601	UWOOS	Valoy II Adapter for mounting Focoslide . . .	4.50
17,510		Filter Holder for Valoy II. Accepts filters for use with Varigam, Poly-contrast and Multi-grade variable contrast enlarging papers.	12.00



Focomat Ic Enlarger

FOCOMAT Ic ENLARGER

The Focomat Ic 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 spring counter-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 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.

17,601	ICOOO	Focomat Ic Enlarger without lens, filter or easel	147.00
17,600	ICWOO	Focomat Ic Enlarger complete with 50mm Focotar f/4.5 lens, Orange Filter and 8 x 10 inch Enlarging Easel.	228.00
17,602	ICLOR	Focomat Ic Color Enlarger. Same as #17,601 but with extra equipment for color printing consisting of filter holder for color filters and illuminated magnification indicator on baseboard	195.00
17,625	IHOOC	Focomat Ic Enlarger with 22 x 25 inch baseboard and upright 47 inches high, but without lens, filter or easel.	163.50
17,626	IHLOR	Focomat Ic Color Enlarger. Same as #17,625 but with extra equipment for color printing, consisting of filter holder for color filters and illuminated magnification indicator on baseboard	211.50
17,637	FOOES	Orange Filter for Focomat Ic.	7.50
17,652	NESOO	Glass Pressure Plate, with spacer ring, for Focomat Ic enlarger. Treated surface prevent prevents Newton's rings. (Used with condenser marked "N")	6.30
17,639	NHCOO	Condenser Type "N" for Focomat Ia and Ic enlargers. Used with Glass Pressure Plate #17,652 for prevention of Newton's rings. (Not required if enlarger is fitted with condenser marked "N")	10.50

Catalog Number	Code Word	Item	Retail Price
17,636		Fitter Holder for Focomat Ic. Accepts filters for use with Varigam, Poly-contrast and Multigrade variable-contrast enlarging papers	\$ 9.90

Accessories for Both Valoy II and Focomat Ic

17,581	DOOHF	50mm Focotar f/4.5 Enlarging Lens for Valoy II and Focomat Ic. Coated, with click stops. Specifically corrected for enlarging and reproduction work	\$51.00
17,675	DOORX	Extension Ring for converting Focotar lens supplied with Reprovit II to Focotar lens #17,581 (also adapts threaded PAXETTE lens to Leica enlargers except Focomat Ila)	1.50
17,671	DOOBC	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)	3.30
17,672	DMUOO	Adapter , fitting lens units of the Dual-Range and rigid-mount Summicron lenses to Valoy II and Focomat Ic enlargers.	2.10
17,665	NEWOO	Newton's Rings Eliminator with 24 x 36mm aperture. Used on condenser of Focomat Ic and Valoy II enlargers to prevent Newton's Rings	3.00

(See P. C 9, item #16,744 for equipment needed to make copying unit from Focomat Ic baseboard and upright.)

Adapters Fitting Lenses of Other Manufacture to the Valoy, Focomat I, Ia and Ic Enlargers.

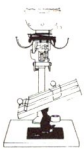
17,673	OOVBH	Adapting threaded FINETTA lens	2.40
17,674	OOVCK	Adapting threaded AKARETTE lens	2.40
17,677	OOVKY	Adapting threaded EXAKTA lens	2.40
17,678	OOVHU	Adapting threaded ROBOT lens	2.40
17,679	OOVPI	Adapting bayonet ROBOT-ROYAL lens.	2.40
17,681	OOVIW	Adapting threaded DIAX Ia lens	3.30
17,682	OOVDM	Adapting bayonet CONTAX lens	3.30
17,683	OOVFQ	Adapting bayonet EXAKTA lens	6.60
17,684	OOVGS	Adapting bayonet PROMINENT lens	3.30
17,686	OOVNE	Adapting threaded PRAKTIKA lens	2.40
17,675	DOORX	Adapting threaded PAXETTE lens	1.50
17,676	OOVMC	Adapting threaded LORDOMAT lens	2.40
16,620	VALOO	Diaphragm Adjusting Ring for screw-mounting 50mm Elmar f/3.5 lens. Provides click-stop adjustment of diaphragm when lens is used in enlarger	6.60
17,670	RCOOF	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	10.50
17,655	ZESOO	Perspective Corrector for Valoy II or Focomat Ic. Complete with Tilting Negative Carrier Holder, Hinged Negative Carrier and Tilting Easel Holder	54.00
17,640	ZHOOR	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	21.00



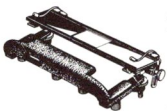
17,581



17,675



17,655



17,640

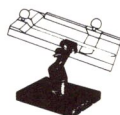


16,620



17,670

Catalog Number	Code Word	Item	Retail Price
17,645	ZFNOO	Hinged Negative Carrier supplied with Perspective Corrector. A glass and metal sandwich with 24 x 36mm (approx. 15/16" x 1-13/32") aperture fitting Tilting Negative Carrier Holder	\$ 3.60
17,650	ZFOOT	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.	29.40
17,660	VBHOO	Bayonet Collar for screw-mounting 50mm Elmar f/3.5 lens. Necessary when using lens in enlarger with Perspective Corrector	3.30
17,661	DNWOO	Bayonet Collar for bayonet-mounting 50mm Elmar f/3.5 lens. Necessary when using lens in enlarger with Perspective Corrector	3.60



17,650



17,660

Interchangeable Masking Negative Carriers for Valoy II, Focomat Ic and Discontinued Focomat Ia Enlargers

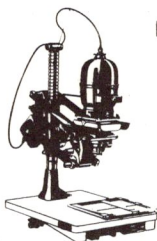
17,514	OZODU	Negative Carrier for 8x11mm (Approx. 5/16"x7/16") negatives	3.90
17,516	VNAOO	Negative Carrier for 18 x 24mm (approx. 11/16" x 15/16") negatives	3.60
17,521	VNIOO	Negative Carrier for 24 x 24mm (approx. 15/16" x 15/16") negatives	3.60
17,526	VNEOO	Negative Carrier for 24 x 36mm (approx. 15/16" x 1-13/32") negatives	3.60
17,531	VNOOU	Negative Carrier for 3 x 4cm (approx. 1-3/16" x 1-9/16") negatives	3.60
17,536	VNUOO	Negative Carrier for 4 x 4cm (approx. 1-9/16" x 1-9/16") negatives	3.60
17,550	VAZEL	Single Negative Holder and Mask used when enlarging single 24 x 36mm (approx. 15/16" x 1-13/32") negative	3.90
17,540	VBOOP	Metal Negative Mask supplied with Single Negative Holder #17,550.	1.20
17,545	VOOMD	Hinged Double Glass Plate (3.5 x 12 cm) (approx. 1-3/8" x 4-11/16") supplied with Single Negative Holder #17,550	2.70
17,541	VASOX	Metal Negative Mask for single 24 x 24mm (approx. 15/16" x 15/16") negatives. Use with Hinged Double Glass Plate #17,545	1.20
17,565	VOONR	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	4.20
17,555	VAZUP	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	1.20
17,560	VAZIS	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	1.20



17,526



17,550



FOCOMAT IIc COLOR ENLARGER

The Focomat IIc Color Enlarger may be used for making both black-and-white or color prints. Removable separation filters (not supplied) are accommodated in a light-tight filter drawer in the lamp housing. The trans-illuminated magnification indicator may be read in the darkened room.

Two lenses, especially corrected for enlarging, are mounted in a sliding plate. The 60mm Focotar f/4.5 is used for negatives up to 4 x 4cm and the 95mm Focotar f/4.5 for larger negatives up to 6 x 9cm.

When changing lenses the proper autofocal cam is automatically coupled to the focusing bellows of the enlarger. The autofocal range of the 60mm lens is 2 to 11 diameters and that of the 95mm lens from 1.3 to 6. Enlargements up to 9.3x and 16x respectively may be obtained by manual focusing. Reductions of 1:2.5 with the 60mm lens may be had by manual focus and 1:1 with the 95mm objective. Extension tubes of 44mm and 26mm are used for this purpose.

The 21" x 26" baseboard has a quick clamping lever to lock the easel and is fitted with a light-box to facilitate placing single negatives in the removable negative carrier. The carrier is treated to prevent Newton's rings.

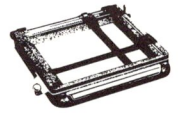
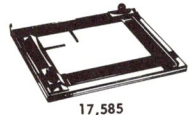
Catalog Number	Code Word	Item	Retail Price
17,870	TULOR	Focomat IIc Color Enlarger complete with 150 watt lamp, 60mm and 95mm Focotar f/4.5 lenses, 21 x 26 inch baseboard, 31-1/2 inch upright, double condenser, illuminated magnification indicator and special holder for color filters	\$639.00
17,862	TWOOQ	Magnification Indicator , internally illuminated	21.00
17,864	TWZOO	Color Filter Holder for color printing. Accepts 12 x 12cm (4-3/4 x 4-3/4 inch) filters	12.00
17,860	TUOOS	Focomat IIc Enlarger . Same as #17,870, but without magnification indicator or color filter holder	606.00
Accessories for the Focomat IIc Enlarger			
16,617	RMOOW	Extension Tube (44mm) for 60mm Focotar f/4.5 lens. Permits reductions down to 1:2.5	2.00
16,615	ROOYH	Repro Extension Tube (26mm). For use with 95mm lens to obtain 1:1 projection	2.70
17,876	NOOIR	Film Holder for 24 x 36mm (approx. 15/16 x 1-13/32 inches) negatives. With single glass pressure plate	33.00
17,875	FYOOR	Orange Filter for Focomat IIc	3.00
17,880	REPOO	Copying Cassette . Replaces film holder during copying.	57.00
17,885	ZOOIR	Perspective Corrector for Focomat IIc. Complete with Tilting Negative Carrier Holder and Tilting Easel Holder	55.00
17,879		Filter Holder . Accepts filters for use with Varigam, Polycontrast, and Multi-grade variable contrast enlarging papers	12.90
<i>(For Enlarging Easels, See P. D 9)</i>			
Interchangeable Negative Masking Plates For Focomat IIc Enlarger			
17,887	CXOOH	Negative Masking Plate for 24 x 24mm (approx. 15/16" x 15/16") size.	1.50
17,888	CWOOI	Negative Masking Plate for 24 x 36mm (approx. 15/16" x 1-13/32") size (as replacement)	1.50
17,889	CXS00	Negative Masking Plate for 3 x 4 cm (approx. 1-3/16" x 1-9/16") size	1.50
17,890	CYOOG	Negative Masking Plate for 4 x 4cm (approx. 1-9/16" x 1-9/16") size	1.50
17,891	CYUOO	Negative Masking Plate for 4.5 x 6cm (approx. 1-13/16" x 2-3/8") size	1.50

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
17,892	CZOOF	Negative Masking Plate for 4 x 6.5cm (approx. 1-9/16" x 2-9/16") size	\$ 1.50
17,893	CZWO0	Negative Masking Plate for 6 x 6cm (approx. 2-3/8" x 2-3/8") size (as replacement)	1.50

ENLARGING EASELS FOR VALOY II, FOCOMAT Ia, Ic, IIa and IIc ENLARGERS

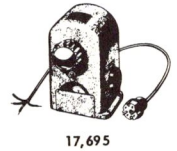
These easels have adjustable masking bands and margin stops, a white surface for focusing the projected image and metal dovetail grooves fitting the quick clamping device of the Focomat enlargers.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
17,585	FPYOO	Enlarging Easel 8 x 10 inches	\$22.50
17,630	FUOOR	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	54.00
17,635	EAWOO	Automatic Electric Enlarging Easel for use with 110 volt A.C. Maximum picture size 5-7/8 x 7-1/8 inches. Margin stops are lever-adjusted from 3/16 to 1/2 inch in 1/16 inch increments, the width being indicated on a calibrated scale. A foot switch supplied with the easel is used for operation; when it is pressed, the top frame of the easel raises and the rear margin stop ejects the exposed paper	120.00



ENLARGER BULBS

17,690	FLABU	Opal Bulb (75 watt) for all enlargers (Imported)	1.20
17,691	FVLOO	Opal Bulb (150 watt) for all enlargers (Imported)	1.20
<i>Standard domestic bulbs may be used but the imported bulbs give better results.</i>			
17,692	AKTOO	Aktina High Efficiency Opal Lamp (250 watt) for Focomat Ic, IIa, and IIc. The lamp should be used with a voltage reducer	2.40
17,695	UOOPE	Voltage Reducer for Aktina High-Efficiency Lamp. Dims lamps while focusing and burns at full intensity during exposure; complete with volt-meter and switch for 110/220 volts A.C. or D.C.	48.00
17,895		Bulb for magnification indicator of Focomat IIc color enlarger (as replacement) . . . . .	.90
17,896		Bulb, 15 watt, for negative-alignment light box of Focomat IIc and Focomat IIc Color enlargers (as replacement) . . . . .	.60



Accessories for Discontinued Models of the Valoy and Focomat I Enlargers

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
17,505	FYLTO	Orange Filter for Valoy	\$ 9.90
17,515	VDOON	Negative Carrier for 18 x 24mm (approx. 11/16" x 15/16") negatives	3.90
17,520	VNOOD	Negative Carrier for 24 x 24mm (approx. 15/16" x 15/16") negatives	3.90
17,525	VDMOO	Negative Carrier for 24 x 36mm (approx. 15/16" x 1-13/32") negatives	3.90
17,530	VAVIR	Negative Carrier for 3 x 4cm (approx. 1-3/16" x 1-9/16") negatives	3.90
17,535	VAKES	Negative Carrier for 4 x 4cm (approx. 1-9/16" x 1-9/16") negatives	3.90



17,525

Accessories for Discontinued Focomat Ila Enlarger

17,710	GLOOC	Hinged Double Glass Plate (10 x 22cm) for holding single negatives in Focomat Ila. Areas up to 2-1/2 x 3-1/2 inches can be enlarged from a 5 x 7 inch negative	10.50
17,711	NIOOR	Special Negative Carrier fitting Focomat Ila enlarger for 35mm (24 x 36mm) negatives. Treated surface prevents Newton's rings	42.00
17,713	NCOOX	Upper Glass Plate for negative carrier of Focomat Ila enlarger. Treated surface prevents Newton's rings	10.50
17,685	FYOON	Orange Filter for Focomat Ila	10.50
17,715	CBOOD	Negative Masking Plate for 18 x 24mm (approx. 11/16" x 15/16") negatives	1.50
17,720	CKOOV	Negative Masking Plate for 24 x 24mm (approx. 15/16" x 15/16") negatives	1.50
17,725	CDEEO	Negative Masking Plate for 24 x 36mm (approx. 15/16" x 1-13/32") negatives	1.50
17,730	CDOOB	Negative Masking Plate for 3 x 4cm (approx. 1-3/16" x 1-9/16") negatives	1.50
17,735	CFIOO	Negative Masking Plate for 4 x 4cm (approx. 1-9/16" x 1-9/16") negatives	1.50
17,740	CGLOO	Negative Masking Plate for 4.5 x 6cm (approx. 1-13/16" x 2-3/8") negatives	1.50
17,745	CFOOZ	Negative Masking Plate for 4 x 6.5cm (approx. 1-9/16" x 2-9/16") negatives	1.50
17,750	CGOoy	Negative Masking Plate for 6 x 6cm (approx. 2-3/8" x 2-3/8") negatives	1.50
17,755	CHOOX	Negative Masking Plate for 6 x 9cm (approx. 2-3/8" x 3-1/2") negatives	1.50
17,756	CHNOO	Negative Masking Plate for 6.5 x 9cm (approx. 2-9/16" x 3-1/2") negatives	1.50



17,710



17,725



17,755

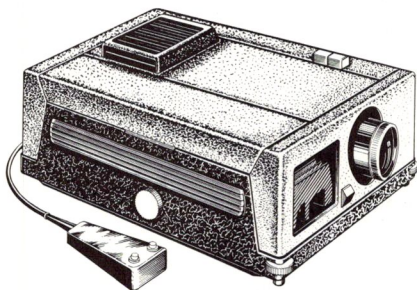
PROJECTORS

When you shoot color, your final goal is usually a sparkling, detail-rich image on a projection screen. No current color printing process can match the crisp brilliance of a projected image. Many things affect the quality of such an image, but it depends mainly and almost equally on the mechanical and optical precision of both your camera and projector.

When the Leica lens reduces and records every detail of the original scene on a tiny transparency, the projector must preserve and expand this detail, often to many times its normal size. And so projector efficiency must approach that of the camera to do this without loss of image quality. This is why Leitz projectors are produced with the same attention to precision that has made the quality of the Leica camera almost legendary. They are designed to reproduce every nuance of color and detail that a Leica transparency holds.

In the pages that follow you will find descriptions of the remote control Pradovit F, the incomparably versatile Prado "500", and the tiny but powerful Prado "150". Whatever your needs, there is a Leitz projector to meet them.

THE PRADOVIT F PROJECTOR



The push-button operated Pradovit F, featuring remote control of both slide-changing and focusing, is the most up-to-the-minute of all Leica projectors. Switch it on, put in a 30-slide magazine, push a button — and your pictures leap to life on the screen. You can run the whole show from your favorite chair — up to fourteen feet from the projector. Or, at the throw of a switch you can operate projector manually — even backing up the magazine to repeat a slide or changing the order of presentation.

It is possible to project slides individually in the Pradovit F, but the projector is designed to accept 30-slide Leitz magazines. These are available individually or in groups of five magazines in a storage container. The five-unit package is the basis of a handy combined storage-and-projection system. The magazines accept both 35mm and superslides, cardboard and glass-mounted, intermixed in any order.

300 WATT OR 500 WATT MODELS

The Pradovit F is available in both 300 watt and 500 watt models. The outstanding optical system of the Pradovit F produces as brilliant a screen image from the 300 watt model as that normally given by a 500 watt machine. As a result, the 300 watt models are recommended for use anywhere except in large auditoriums and lecture halls. The 300 watt model can be converted to the 500 watt model by adding a heat filter and changing bulbs.

FOUR FOCAL LENGTHS

Each model offers a choice of a 90mm, 100mm, 120mm or 150mm Leitz projection lens. The first three lenses use the same focusing mount and the same field condenser. The 150mm lens requires a special focusing mount and a special field condenser.

The Pradovit F is provided with a carrying handle. An ingenious metal lid slips over the top of the projector, converting it into its own carrying case (units with a 150mm lens have a special carrying case in place of the metal lid).

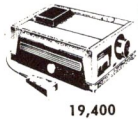
ULTRASONIC REMOTE CONTROL

One of the most ingenious projector controls ever devised is available exclusively for the Pradovit F. This is an Ultrasonic Remote Control unit which controls both focusing and slide changing from up to a hundred feet away! Two bulb-operated, ultrasonic horns are used, one for each type of control. A receiver unit which is plugged into the projector translates the signals into impulses which control lens movement or slide magazine advancement, depending on which horn is used.

A number of other accessories for use with the Pradovit F as well as other projectors, are listed elsewhere.

PRADOVIT F PROJECTORS AND ACCESSORIES

PRADOVIT F 300 AUTOMATIC PROJECTOR



Catalog Number	Code Word	Item	Retail Price
19,400		Pradovit F 300 Automatic Projector, complete with 300 watt bulb, one 30-slide magazine, 14-ft. remote control changing and focusing cord and snap-on projector cover, condenser and focusing mount for Leitz lenses 90mm to 120mm focus but without lens	\$129.00†
19,405		Pradovit F 300 Automatic Projector, same as #19,400, but with 90mm Colorplan f/2.5 projection lens	168.00†
19,402	UCPBU-HL	Pradovit F 300 Automatic Projector, same as #19,400, but with 100mm Hektor f/2.5 projection lens	168.00†
19,403	UCWQU-HL	Pradovit F 300 Automatic Projector, same as #19,400, but with 120mm Hektor f/2.5 projection lens	187.50†
19,404	UDLSU-KL	Pradovit F 300 Automatic Projector, complete with 300 watt bulb, remote cord, 150mm Hektor f/2.5 projection lens and one 30-slide magazine, but with special carrying case in place of snap-on projector cover.	223.50†

PRADOVIT F 500 AUTOMATIC PROJECTOR

19,410		Pradovit F 500 Automatic Projector, complete with 500 watt bulb, one 30-slide magazine, 14-ft. remote control slide changing and focusing cord, snap-on projector cover, double heat absorption filter, condenser and focusing mount for 90mm to 120mm focus, but without lens	135.00†
19,415		Pradovit F 500 Automatic Projector, same as #19,410, but with 90mm Colorplan f/2.5 projection lens	174.00†
19,412	UCPBU-UDKQU-HL	Pradovit F 500 Automatic Projector, same as #19,410, but with 100mm Hektor f/2.5 projection lens	174.00†
19,413	UCWQU-UDKQU-HL	Pradovit F 500 Automatic Projector, same as #19,410, but with 120mm Hektor f/2.5 projection lens	193.50†
19,414	UDLSU-UDKQU-KL	Pradovit F 500 Automatic Projector, complete with 500 watt bulb, remote cord, 150mm Hektor f/2.5 projection lens, and one 30-slide magazine, but with special carrying case in place of snap-on projector cover.	229.50†

† Pradovit Projectors distributed by E. Leitz, Inc., are usable with 60-cycle 110/120 volt A.C. current only. Models sold abroad are designed for use with other electrical systems.

LENSES FOR THE PRADOVIT F

Catalog Number	Code Word	Item	Retail Price
19,228	UFGEU	90mm Colorplan f/2.5 projection lens without focusing mount††	\$ 39.00
19,222	UFSEU	100mm Hektor f/2.5 projection lens without focusing mount††	39.00
19,223	UFKOU	120mm Hektor f/2.5 projection lens without focusing mount††	58.50
19,224	USERU	150MM Hektor f/2.5 projection lens without focusing mount. This is the lens included in #19,404 and #19,414 <i>(If it is needed as an extra lens of longer focus for #19,405, #19,402, #19,403, #19,415, #19,412 or #19,413 the following parts are required and should be ordered:</i> a) Focusing Mount and Focusing Sleeve – Cat. #19,427 b) Double Mount with Field Condenser and Heat Filter – Cat. #19,432	75.00

COMPONENTS AND REPLACEMENT PARTS FOR THE PRADOVIT F

19,426	UTFSU	Focusing Mount with thread to fit Pradovit F frame and focusing sleeve for remote control accepting 90mm, 100mm or 120mm Leitz projection lenses	4.50
19,427	UTHWU	Focusing Mount with thread to fit Pradovit F frame and focusing sleeve for remote control accepting 150mm Leitz projection lens	12.00
19,431	UNHCU	Double Mount with field condenser for 90mm, 100mm or 120mm Leitz projection lenses and heat absorption filter (required when using these lenses in place of the 150mm lens on #19,404 or #19,414, or as replace- ment)	12.60
19,432	UNKGU	Double Mount with field condenser for 150mm Hektor projection lens and heat absorption filter (required when using this lens in place of 90mm, 100mm or 120mm lenses in #19,400, #19,405, #19,402, #19,403, #19,410 #19,415, #19,412, #19,413, or as replace- ment).	12.60
19,425	UDKQU	Extra Heat Filter for Pradovit F 500 Projector. Must be added when 300 watt bulb is replaced by 500 watt bulb, furnished with projectors #19,410, #19,415, #19,412, #19,413 and #19,414	6.00
<p>†† These lenses are included in Cat. #19,405, #19,402, #19,403, #19,415, #19,412 and #19,413 respectively. If any of them are needed as an extra lens of shorter focus for #19,404 or #19,414 the following parts are required and should be ordered:</p> <p>a) Focusing Mount and Focusing Sleeve – Cat. #19,426 b) Double Mount with Field Condenser and Heat Absorption Filter – Cat. #19,431</p>			
19,361	UEOXU	30 Slide Magazine for Pradovit F projectors. Holds 30 slides, either cardboard or glass mounted supplied in cardboard box	1.50



19,386

Catalog Number	Code Word	Item	Retail Price
19,358	UDXRU	Magazine 2-Pack for Pradovit, package of two 30 Slide Magazines in transparent plastic box	\$ 2.85
19,356	UDWPU	Plastic Storage Box, Transparent. Holds two 30-slide Leitz projector magazines. As supplied with #19,358 . . . . .	.90
19,359	UFBXU	Magazine 5-Pack. Same as #19,361, but five magazines in a cardboard storage container	6.90
19,355	UFTGU	50 Slide Magazine 2-Pack. Package of two special 50 slide magazines for Pradovit F in cardboard box	5.70
19,386	UCSHU	Remote control slide changing and focusing cord, 14-ft. as replacement	6.00
19,387		Special remote control slide changing and focusing cord, 26-ft.	8.10
19,389	UCHRU	Metal lid for Pradovit F with lenses up to 120mm focus as supplied with #19,400, #19,405, #19,402, #19,403, #19,410, #19,415, #19,412, #19,413	7.50
19,802	UDGKU	Carrying case with fittings accepting Pradovit F with 150mm Hektor lens as supplied with #19,404 and #19,414	19.50

BULBS FOR PRADOVIT F PROJECTORS

19,453	300 Watt CWD Bulb	3.75
19,455	500 Watt CZA Bulb	4.95

ACCESSORIES FOR PRADOVIT F PROJECTORS

19,420	ULTRA-S	Ultrasonic Remote Control Unit for Pradovit F projectors. One high frequency horn for remote focusing, another for remote slide changing. Receiver plugs into projector, operates projector from up to 100 feet away without connecting cords	99.00
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19,420

GENERAL PROJECTOR ACCESSORIES

19,690	KARBAL	Projector Table, self-storing. Wooden with chrome-plated legs and tilting top. Folds down to become its own carrying case.	66.00
19,691	KARTEX	Table Extension, 8 inches, for Karba projector table. Increases table-top area	4.80
19,692	KARPAD	Felt Pad, green for top of Karba projector table	3.60
19,698	IBAOOB	IBA Arrow Pointer, Model No. 0. Two-battery flashlight pointer projecting bright "V" onto projector screen for pointing out picture details. Less batteries (uses Standard C cells)	6.00
19,696	IBAONE	IBA Arrow Pointer, Model No. I. Three-battery flashlight pointer projecting bright arrow onto projector screen for pointing out picture details. Less batteries (Uses Standard D cells)	9.00
19,697	IBATWO	IBA Arrow Pointer, Model No. II. Similar to #19,696 except five battery flashlight pointer throws brighter arrow than #19,696	19.50
19,694		Spare Bulb with V-shaped filament for IBA Arrow Pointer, Model 0	2.10
19,695		Spare Bulb with arrow-shaped filament for IBA Arrow Pointers, Model I	2.40
19,693		Spare Bulb with arrow-shaped filament for IBA Arrow Pointer, Model II	2.40

PRADO PROJECTORS

Leitz Prado Projectors are the most versatile and precise you can buy. The Prado "500" offers a complete system of projection which is adaptable to microscope slides and live specimens, subminiature transparencies, 35mm slides or filmstrips, Superslides, $2\frac{1}{4} \times 2\frac{1}{4}$ inch and $2\frac{3}{4} \times 2\frac{3}{4}$ inch transparencies.

The entire front lens assembly of the Prado "500" can be lifted off the projector in seconds and a new one substituted to convert from a projector for 35mm or Superslides in 2×2 mounts to a projector for $2\frac{1}{4} \times 2\frac{1}{4}$ inch transparencies, or vice versa.

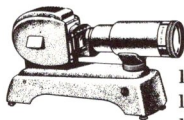
The Prado "500" can be used for either manual projection or with 30-slide magazines for semi-automatic projection. It will never become obsolete as your photographic interests grow.

Lenses, with matching condensers, are available in focal lengths from 50mm to 250mm for 35mm transparencies; for subminiature transparencies, a 25mm lens with special condenser is available. By choosing the proper focal length, you can easily fit the Prado "500" for use with any screen size and in any room from a small living room to a large auditorium. There is a special long-base model of the projector for use with 200mm and 250mm lenses. This prevents the possibility of vibration of the screen image by providing rock-steady support even when heavy, long focal-length lenses are used. For auditorium projection, a 750 watt bulb can be substituted (along with proper heat filters) for the normal 500 watt bulb, without fear of slide damage from overheating.

A built-in blower, plus triple-wall construction and heat filters protect your slides from damage and keep the projector cool to operate. For convenience, a tilting device permits you to line up the image on the screen quickly. A small door in the projector body can be opened to spill light out so that you can inspect upcoming slides without interrupting the slide show.

PRADO "500" PROFESSIONAL PROJECTORS

Catalog Number	Code Word	Item	Retail Price
19,249	UFWNU-LD	Prado "500" Professional Projector, with 500 watt, 120 volt bulb, connecting cord, aspherical condenser, two heat filters and 110/120 volt A.C. motor driven blower, but without front assembly, lens or slide changer.	\$ 82.20
19,251		Prado "500" Professional Projector, complete with 500 watt, 120 volt bulb, connecting cord, aspherical condenser, two heat filters, 110/120 volt A.C. motor-driven blower, slide changer, and front assembly. Complete with 90mm Colorplan f/2.5 projection lens	139.50
19,252	FIUUC-LD	As above, but with 100mm Hektor f/2.5	139.50
19,253	FLUUA-LD	As above, but with 120mm Hektor f/2.5	159.00
19,254	FOUUX-LD	As above, but with 150mm Dimaron f/2.8	144.00
19,255	FOUUX-LD	As above, but with 150mm Hektor f/2.5	175.50
19,275	FPUUW-LD	As above, but with 175mm Hektor f/2.5	228.00
19,256	FEUUG-LD	As above, but with 200mm Dimar f/4	154.50



19,268

19,267	FUUZC-LD	Prado "Auditorium '500'" Projector, similar to Prado "500" Professional but with special long base to prevent vibration when used with heavy, long focal-length lenses. Complete with 200mm Hektor f/2.5 projection lens . .	282.00
19,268	FUUYD-LD	As above, but with 250mm Dimar f/4.	219.00
19,269	FUUXB-LD	As above, but with 250mm Hektor f/2.5	343.50

ACCESSORIES AND REPLACEMENT PARTS

Slide and Film Strip Changers



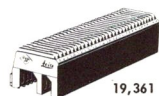
19,385

19,641	SLUUZ	Manual Slide Changer for 2 x 2 slides. Interchangeable with #19,385 (as replacement).	3.60
19,385	UVOGU	Semiautomatic Slide Changer for 2 x 2 slides. With two 30-slide magazines. Interchangeable with #19,641.	22.50



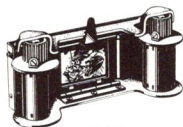
19,362

19,362	UICWU	"Anti-pop" Glass Pressure Plate, in mount for semiautomatic slide changer	7.80
19,369	UITDU	"Anti-pop" Glass Pressure Plate, unmounted. As replacement in #19,362	3.00



19,361

19,361	UEOXU	30-Slide Magazine for semiautomatic slide changer	1.50
19,358	UDXRU	Magazine 2-Pack. Same as #19,361, but 2 magazines in a transparent plastic storage container	2.85



19,025

19,356	UDWPU	Plastic Storage Box, transparent. Holds two 30-slide Leitz projector magazines. As supplied with #19,358 . . . . .	.90
19,359	UFBXU	Magazine 5-Pack, same as #19,361 but 5 magazines in a storage container	6.90
19,686		Adapter "B". Fits Airequipt slide changer Model P 1 to Prado "500" 2 x 2 inch projector	3.00
19,025	SUUZI	Semiautomatic Film Strip Carrier 24 x 36mm	12.00
19,030	SUUAW	Mask for film strip frame 18 x 24mm	1.20

ACCESSORIES AND REPLACEMENT PARTS (con't)

Carrying Cases

Catalog Number	Code Word	Item	Retail Price
19,804	YKUUN-D	Carrying Case for Prado "500" with lenses 85 to 150mm and semiautomatic changer	\$ 15.00
19,805	YLUUM-D	Carrying Case for Prado "500" with lenses 200 to 250mm and semiautomatic changer	21.00
19,802	ZDHUU	Fiber Case for Prado "500" with long base.	27.00

Bulbs for Prado "500" Projector

19,655	FUUM-D	500 Watt, T 10P, 120 volt pre-focus bulb	4.95
19,657	MUUDH-D	750 Watt, T 12P, 120 volt pre-focus bulb (requires extra heat filter)	5.35

Connecting Cord

19,071		Connecting Cord with switch to connect Prado "500" or Prado 66 to A.C. outlet (as replacement).	3.00
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PROJECTION LENSES, FOCUSING MOUNTS, CONDENSERS AND HEAT FILTERS FOR 2X2 INCH SLIDES

Projection Lenses

19,016	WUUNE- APRAIM	50mm Projection Elmar f/3.5 with focusing mount and adapter #19,909.	32.10
19,228	UFGEU	90mm Colorplan f/2.5 without focusing mount	39.00
19,221	UEYSU	100mm Dimaron f/2.8 without focusing mount	30.00
19,222	UFSEU	100mm Hektor f/2.5 without focusing mount	39.00
19,223	UFKOU	120mm Hektor f/2.5 without focusing mount	58.50
19,226	UFPYU	150mm Dimaron f/2.8 without focusing mount	43.50
19,224	USERU	150mm Hektor f/2.5 without focusing mount	75.00
19,227	TFSUU	175mm Hektor f/2.5 without focusing mount	120.00
19,216	TUUKB	200mm Dimar f/4 with focusing mount	58.50
19,217	TYUOU	200mm Hektor f/2.5 with focusing mount	132.00
19,218	TVUUR	250mm Dimar f/4 with focusing mount	69.00
19,219	THWUU	250mm Hektor f/2.8 with focusing mount	193.50

Focusing Mounts

19,225	UTBKU	Focusing Mount for 90mm, 100mm and 120mm lenses.	4.50
19,165	UTAHU	Focusing Mount for 150mm lenses	4.50
19,167	TFUUG	Focusing Mount for 175mm lenses	12.00

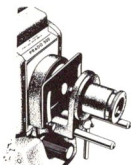
		Front Attachment	
<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
19,620	UGCYU	Front Attachment with lens bracket, but without field condenser	\$ 5.10
Field Condensers			
19,630	UAIRU	Field Condenser for use with 50mm lenses on 2 x 2 inch projectors	6.00
19,631	UBEHU	Field Condenser for 90, 100 and 120mm lenses on 2 x 2 inch projectors	5.10
19,632	UBAZU	Field Condenser for 150mm and 175mm lenses on 2 x 2 inch projectors	5.10
19,633	UBFKU	Field Condenser for 200 and 250mm lenses on 2 x 2 inch projectors	5.10
Aspherical Condenser			
19,601	UFXPU	Aspherical Condenser, as replacement . .	8.10
Heat Absorption Filters			
19,611	UBKSU	Heat Absorption Filter #1, as replacement	6.00
19,612	UBMWU	Heat Absorption Filter #2, as replacement	6.00
19,613	FYUUN	Heat Absorption Filter #3, needed when using 750 watt bulb	6.00

**Accessories for Projecting Subminiature
Slides in 2 x 2 Inch Mounts**

19,014		25mm Summar f/2.8 Projection Lens in focusing mount. For projecting 8 x 11mm, 10 x 14mm, and other subminiature trans- parencies in 2 x 2 inch mounts	45.00
19,634		Special Condenser for use in Prado "500" with 25mm Summar f/2.8 projection lens #19,014	6.00

Micro Projection Attachments

19,662	YELUU	Small Micro Projection Attachment with field condenser and 25mm Summar f/2.8 lens	66.00
19,663	YNUUK	Large Micro Projection Attachment with objectives 3.5/0.10, 10/0.25 and 25/0.50 as well as 4X Huygens projection eyepiece	222.80
19,100	DOBOR	Micro Aquarium, cemented on object slide, 1,1.5, 2,2.5,3 or 4mm deep	6.60



19,662



19,663

FILM VIEWER and MICROFILM READER

Catalog Number	Code Word	Item	Retail Price
19,246	UDQCU-LD	Prado "500" as Microfilm Reader and Film Viewer, basic projector No. 19,249, Front Assembly #19,620, Field Condenser #19,630 and Film Strip Carrier #19,025 . . .	\$105.30
19,015	WUUNE	50mm Projection Elmar f/3.5 in focusing mount	30.00
19,909	APRAIM	Adapter to fit 50mm lens #19,015 to Prado "500"	2.10
19,247	UTCMU	Extension Tube to focus lens in reading box	1.50
19,248	UDSGU	Large Reading Box for Prado "500" with white projection surface set at convenient viewing angle and shielded from outside light with swingout mirror, permitting projection of image on viewing screen or outside screen	55.50
19,245	UDVNU-LD	Film Viewer and Microfilm Reader, complete	194.40

Equipment for the Projection of 2¼ x 2¼ Inch Slides

To project the larger 2¼ x 2¼ inch slides with the Prado "500" the following parts must be used in place of the components in the machine:

- A. Large Aspherical Condenser #19,605
- B. Large Double Heat Absorption Filter #19,618
- C. Front Assembly with field condenser, 2¼ x 2¼ inch slide changer and projection lens; select one of #19,622 through #19,628 in accordance with the anticipated projection distance

19,605	YQUUG	Interchangeable Large Aspherical Condenser marked 6 x 6	13.50
19,618	XUUME	Large Double Heat Absorbing Filter	27.00

Front Assemblies

19,622	YEUS	Front Assembly with Field Condenser 2¼ x 2¼ inch slide changer and Dimaron 150mm f/2.8 projection lens	76.50
19,623	YDUUT	Front Assembly, as above, but with Hektor 150mm f/2.5 projection lens	108.00
19,624	YUURH	Front Assembly, as above, but with Hektor 175mm f/2.5 projection lens	160.50
19,625	YODUU	Front Assembly, as above, but with Dimar 200mm f/4 projection lens	87.00
19,626	YUUSV	¹ Front Assembly, as above, but with Hektor 200mm f/2.5 projection lens	160.50
19,627	YSMUU	¹ Front Assembly, as above, but with Dimar 250mm f/4 projection lens	97.50
19,628	ZBDUU	¹ Front Assembly, as above, but with Hektor 250mm f/2.5 projection lens	222.00

¹Use on Prado "Auditorium '500'".

For individual prices on the above lenses see section on Prado "66", page E11

PRADO "66" PROJECTORS

For 2¼ x 2¼ and 2¾ x 2¾ Inch Transparencies

The Prado "66" is basically the same basic projector as the Prado "500", but it has condensers, lenses, filters and slide carriers designed to work most efficiently with transparencies larger than 35mm or Superslides.

The Prado "66" can be used for the latter sizes just by replacing its slide carrier with one designed for slides in 2 x 2 inch mounts. But for maximum screen brilliance with 35mm or Superslides, it is best to replace the entire front assembly of the "66" as well as its internal aspherical condenser with components especially designed for the smaller slides. By doing this, you convert the Prado "66" to the Prado "500", in effect. Conversely, the Prado "500" can be converted with 2¼ x 2¼ and 2¾ x 2¾ slides.

Catalog Number	Code Word	Item	Retail Price
19,749		Prado "66" Projector , complete with 500 watt, 120 volt bulb, connecting cord, aspherical condenser, double heat filter and 110/120 volt A.C. motor-driven blower, but without front assembly, lens or slide changer.	\$102.60
		Prado "66" Projector , complete with 500 watt, 120 volt bulb, connecting cord, aspherical condenser, double heat filters, 110/120 volt A.C. motor-driven blower, manual slide changer, front assembly.	
19,754		Complete with 150mm Dimaron f/2.8 projection lens.	179.10
19,755		As above, but with 150mm Hektor f/2.5	210.60
19,757		As above, but with 175mm Hektor f/2.5	263.10
19,756		As above, but with 200mm Dimar f/4	189.60
		Prado "Auditorium '66'" Projector , similar to Prado "66" but with special long base to prevent vibration when used with heavy, long focal-length lenses.	
19,767		Complete with 200mm Hektor f/2.5 projection lens	317.10
19,768		As above, but with 250mm Dimar f/4	254.10
19,769		As above, but with 250mm Hektor f/2.8	378.60

ACCESSORIES AND REPLACEMENT PARTS

Slide Changers For Prado "66"

19,644	YDIUU	Manual Slide Changer for 2¼ x 2¼ inch (60 x 60mm) slides (as replacement)	7.50
19,643	YBEUU	Manual Slide Changer for 2 3/4 x 2 3/4 inch (70 x 70mm slides)	7.50
19,642	YFNUU	Manual Slide Changer for 35mm (24 x 36mm) or Super slides in 2 x 2 inch mounts	7.50

Carrying Cases

19,804	YKUUN-D	Carrying Case, for Prado "66" with 150mm lenses.	15.00
19,805	YLUM-D	Carrying Case for Prado "66" with 175mm, 200mm or 250mm lenses.	21.00
19,803	ZDHUU	Carrying Case for Prado "66" with long base	27.00

Bulbs

19,655	FUUM-D	500 watt T 10 P 120 volt bulb	4.95
19,657	MUUDH	750 watt T 12 P 120 volt bulb	5.35

Connecting Cord

19,071		Connecting Cord with switch to connect Prado "500" or Prado "66" to A.C. outlet (as replacement)	3.00
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Catalog Number	Code Word	Item	Retail Price
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**Lenses in Focusing Mount for 2¼" x 2¼"
Slide Projection**

19,714	ECUUG	150mm Dimaron f/2.8 with focusing mount	\$ 48.00
19,715	EDCUU	150mm Hektor f/2.5 with focusing mount	79.50
19,713	TLCUU	175mm Hektor f/2.5 with focusing mount	132.00
19,716	EDUUF	200mm Dimar f/4 with focusing mount	58.50
19,717	EGIUU	200mm Hektor f/2.5 with focusing mount	132.00
19,718	EFGUU	250mm Dimar f/4 with focusing mount	69.00
19,719	EGUUC	250mm Hektor f/2.8 with focusing mount	193.50

Front Attachment with Field Condenser

19,721	EHLUU-BR	Front Attachment with Lens Bracket and Field Condenser for 150mm lenses	21.00
19,722	EHUUB-BR	Front Attachment with Lens Bracket and Field Condenser for 175mm lens.	21.00
19,723	EINUU-BR	Front Attachment with Lens Bracket and Field Condenser for 200mm lenses	21.00
19,724	EIUUA-BR	Front Attachment with Lens Bracket and Field Condenser for 250mm lenses	21.00

Aspherical Condenser

19,605	YQUUG	Aspherical Condenser (as replacement)	13.50
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Heat Absorption Filters

19,618	XUUME	Double Heat Absorption Filter in single mount (as replacement)	27.00
19,619	YOHUU	Heat Absorption Filter used in addition to #19,618 with 750 watt bulb	13.50

Micro Projection Attachments

See Prado "500" Section, p. E8

19,601	UFXPV	Aspherical Condenser, marked 5 x 5 cm. This condenser is supplied with the Prado "500" and must be substituted for the Prado "66" condenser when using the latter with microprojection attachments. It must also be used when Front Assemblies for projection of 35mm slides are used on the Prado "66"	8.10
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**Conversion Equipment For The Projection Of
35mm and Superslides In 2 x 2 Inch Mounts
In The Prado "66"**

It is possible to project transparencies in 2 x 2 inch mounts simply by replacing the slide changer supplied with changer #19,642 listed previously. But for full optical efficiency of the condenser system, and to get a screen image as large as that given by the 2¼ x 2¼ inch slides, and for use with short focal-length lenses, we recommend a conversion by using the components below in place of those supplied with the Prado "66". However, you need not replace the heat filter.

- A. **Front Assembly.** Choose one from #19,671 through #19,675 below. It comes complete with Slide Changer, Projection Lens and matching Field Condenser. Choose the focal length of the lens according to the anticipated projection distance.
- B. **Aspherical Condenser #19,601.** This should replace the condenser inside the projector housing of the Prado "66" when converting for 2 x 2 inch slides.

Catalog Number	Code Word	Front Assemblies <i>Item</i>	<i>Retail Price</i>
19,670		Front Assembly with field condenser, 2 x 2 inch slide changer and 90mm Colorplan f/2.5 lens	\$57.30
19,672	EKUUZ	Front Assembly, as above, but with 100mm Dimaron f/2.8 lens	48.30
19,673	ELRUU	Front Assembly, as above, but with 100mm Hektor f/2.5 lens	57.30
19,674	EMTUU	Front Assembly, as above, but with 120mm Hektor f/2.5 lens	76.80
19,675	EOUUV	Front Assembly, as above, but with 150mm Hektor f/2.5 lens	93.30
Aspherical Condenser			
19,601	UFXPX	Aspherical Condenser	8.10
Accessories and Replacement Parts for 2 x 2 Inch Front Assemblies for Prado "66"			
19,641	SLUUZ	Manual Slide Changer as included in the above outfits, as replacement	3.60
19,385	UVOGU	Semiautomatic Slide Changer for 2x2 slides. With two 30-slide magazines. Interchangeable with #19,641	22.50
19,025	SUUZI	Semiautomatic Film Strip Carrier for 24 x 36mm film strips	12.00
19,030	SUUAW	Mask for film strip frame 18 x 24mm	1.20

(See page E6 for slide magazines)

PRADO "150" PROJECTOR

For home projection — especially when you want to take a projector along on a visit to someone else's home — nothing surpasses the little Prado "150". It has the precision construction of the larger Prados, measures only 3¾ x 6¼ x 9¾ inches and weighs only 3 lbs., 10 ozs.

But the size of the Prado "150" is deceptive. A superb optical system produces enough light from its 150 watt bulb to put a bright image on screens up to 5 x 5 feet. It is versatile, too. Accessories include a semi-automatic slide changer which accepts Leitz 30-slide magazines, a Microfilm Reader, a Film Strip Attachment, a 50mm Elmar Projection lens for short-distance projection, and a carrying case.

The Prado "150" is convection cooled, and can be mounted on a tripod by means of a built-in bushing in its base.

Catalog Number	Code Word	Item	Retail Price
19,000	DUUYO-LD	Prado "150" Projector, complete with 150 watt, 120 volt bulb, connecting cord, manual slide changer. Complete with 85mm Hektor f/2.5 projection lens	\$ 72.00
19,002	DUUXA-LD	As above, but with 100mm Dimaron f/2.8 . . .	72.00

ACCESSORIES AND REPLACEMENT PARTS

Slide and Film Strip Changers

19,641	SLUUZ	Manual Slide Changer, as replacement	3.60
19,007	UVFLU	Semiautomatic Slide Changer, with two 30-slide magazines; interchangeable with #19,641.	22.50
19,688		Adapter "D" fitting Airequipt Model P1 slide changer to Prado "150" projector	3.60
19,025	SUUZI	Semiautomatic Film Strip Carrier, 24 x 36mm.	12.00
19,030	SUUAW	Mask for film strip frame, 18 x 24mm (See page E6 for slide magazines)	1.20

Carrying Cases

19,801	DYTUU	Carrying Case for Prado "150"	9.60
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Bulbs For Prado "150"

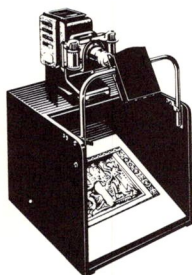
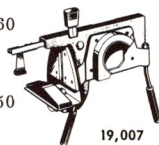
19,040	DVUUM	150 Watt 110/120 bulb	5.50
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Interchangeable Lenses In Focusing Mounts For the Prado "150" Projectors

19,001		85mm Hektor f/2.5 projection lens in focusing mount	33.00
19,003		100mm Dimaron f/2.8 projection lens in focusing mount	33.00
19,015	WUUNE	50mm Elmar Projection Lens, with mount . .	30.00
16,635	BOOKZ	Extension Tube "B", 7mm, to focus lens at shorter distances	1.20

Microfilm Reader

19,010	DUUPW	Prado 150 Projector with special condenser for 50mm lens with bulb and film strip attachment, but without projection lens	47.40
19,015	WUUNE	Elmar 50mm f/3.5 coated projection lens without iris diaphragm, in focusing mount . .	30.00
19,020	SHUUC	Reading Box accommodating Prado "150" projector (Cat. No. 19,010 with white projection surface set at convenient viewing angle and shielded from outside light, with swingout mirror permitting projected image on viewing screen or outside screen	36.00
19,005	DYUUI	Microfilm Reader and Film Viewer complete.	113.40



19,005

Projectors

SLIDE BINDING

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 take them out of their cardboard mounts and bind them between glass. Then they are safe and you can easily clean the glass cover without ever touching the transparency itself.

PER-O-COLOR BINDERS

The new Per-O-Color slide binders offer you the fastest method we know of to mount 35mm transparencies permanently between glass. After you have sandwiched your transparency between the optically finished, uniformly thin cover glasses, it is only a matter of seconds to seal it securely in the metal binder. Two pressures on the special Proloc quick-fastener seal all four sides. Result: slides so thin and so uniform that they work perfectly in automatic changers.

Per-O-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 Per-O-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 metal anti-Newton's Rings masks between the glass and the glossy side of the transparency. These masks are available as accessories.

Per-O-Color slide binders come in boxes of 25, along with five extra metal cover frames. The extras can be used if you damage some of the original metal covers or if you want to rebind a slide. Along with the binders and cover glasses you get a self-adhesive label to identify each slide. Per-O-Color binders with untreated glass are packed two ways: unassembled, in a cardboard box, or partially assembled, in a transparent plastic box which can be used for slide storage. Plastic boxes are also available separately. Per-O-Color binders with treated glass are available only in cardboard boxes, unassembled.

PER-O-COLOR BINDERS

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
19,850	PROCOL	Per-O-Color 2" x 2" metal slide mounts for double frame 35mm transparencies; partially assembled, packaged in transparent plastic box with five extra cover frames and self-adhesive labels. Box of 25	\$3.00
19,852	PROCAS	Per-O-Color 2" x 2" metal slide mounts for double frame 35mm transparencies; unassembled, packaged in cardboard containers with five extra cover frames and self-adhesive labels. Box of 25	2.55
19,854	PRONEW	Per-O-Color 2" x 2" Metal Slide mounts for double frame 35mm transparencies with treated glass. Unassembled, packaged in cardboard containers with five extra cover frames and self-adhesive labels. Box of 25	3.00
19,855	PROTON	Metal Masks for preventing Newton's rings. Package of 50	1.20
19,857	PROSTE	Stereo Masks. For masking Stemar stereo transparencies in Per-O-Color 2" x 2" mounts. Box of 50	1.20
19,875	PROLOC	Proloc Rapid Fastener for sealing Per-O-Color mounts; lever operated	2.10

Components

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
19,860	PROLAB	Label (self-adhesive), for slide identification. Package of 4 sheets, 40 labels per sheet.	\$.90
19,865	PRORCF	Metal Cover Frames. Replacements; use when rebinding. Package of 20 . . . . .	.66
19,870	PROGLA	Cover Glass Replacements (35 x 38mm). Package of 20 . . . . .	.54
19,871	PROARC	Cover Glass Replacements (35 x 38mm), anti-Newton's rings type. Package of 20	1.20
19,880	PROBOX	Plastic Box (transparent). Will hold 25 Per-O-Color mounts . . .	.39

BINDOMAT

The easiest, least expensive way to bind slides in quantity is to use the Bindomat. The Bindomat measures, cuts and aligns the binding tape; it seals the cover glass under pressure and has an illuminated platen to help you put the transparencies in their masks. The tape channel will take slides up to 2-7/16 inches square and has an adjustable stop for 2 x 2 inch slides. Slots at the back of the Bindomat hold your slides while you are working on them. A "C" clamp comes with the Bindomat to clamp it to your work table.

BINDOMAT

19,820	DAMOT	Bindomat for mounting transparencies between 2 x 2 inch glass plates. Includes 100 glass plates, 100 masks, roll of binding tape and "C" clamp	\$19.50
19,827	DAMCO	Bindomat Replacement Spring . . . . .	.36
19,828	DACMO	Bindomat Replacement Tape Core . . . . .	.24
19,829	DABRB	Bindomat Replacement Bulb . . . . .	.16
19,821	UGRIN	Glass Plates with ground edges for mounting transparencies; box of 100	1.80
19,825	USMAS	Silvered Masks (2 x 2 inch) with 24 x 36mm aperture for masking transparencies; box of 100	1.20
19,826	USSTMA	Stereo Masks (Silvered). For masking Stemar stereo transparencies when mounted between 2" x 2" glass; box of 50 . . . . .	.96
19,822	TIEUP	Cloth Binding Tape (1/2 inch wide) for use with Bindomat. 70 foot roll, red only	1.95

PROJECTION TABLES • PROJECTION DISTANCE AND SCREEN IMAGE SIZE

Distance	2 x 2 INCH (5 x 3) SLIDES WITH 24 x 36mm FORMAT						2 1/4 x 2 1/4 INCH (7 x 7) SLIDES WITH 6 x 6cm FORMAT			STEREO 2 x 2 INCH SLIDES WITH 24 x 36mm FORMAT (10 x 24mm PAIR)		
	Focal Length of Lens						Focal Length of Lens			Focal Length of Lens		
	85mm	100mm	120mm	150mm	200mm	250mm	150mm	200mm	250mm	85mm	100mm	120mm
10'	2'8" x 4'	2'3" x 3'5"					3'5" x 3'5"			2' x 2'8"	1'8" x 2'3"	
13'	3'5" x 5'3"	2'9" x 4'6"	2'5" x 3'8"				4'7" x 4'7"	3'3" x 3'3"		2'7" x 3'5"	2'3" x 2'9"	1'10" x 2'5"
16'	4'3" x 6'6"	3'8" x 5'6"	3' x 4'7"	2'5" x 3'8"			5'7" x 5'7"	4'1" x 4'1"	3'3" x 3'3"	3'3" x 4'3"	2'9" x 3'8"	2'3" x 3'
20'	5'4" x 8'2"	4'6" x 6'11"	3'9" x 5'9"	3' x 4'7"	2'3" x 3'5"		7'1" x 7'1"	5'3" x 5'3"	4'1" x 4'1"	4'1" x 5'4"	3'5" x 4'6"	2'10" x 3'9"
23'	6'2" x 9'4"	5'3" x 7'11"	4'4" x 6'7"	3'5" x 5'3"	2'8" x 4'	2'2" x 3'3"	8' x 8'	6'1" x 6'1"	4'9" x 4'9"	4'8" x 6'2"	3'11" x 5'3"	3'3" x 4'4"
26'	7' x 10'8"	5'11" x 9'	4'11" x 7'6"	3'11" x 6'	3' x 4'7"	2'6" x 3'7"	9'2" x 9'2"	6'11" x 6'11"	5'5" x 5'5"	5'4" x 7'	4'6" x 5'11"	3'9" x 4'11"
30'	8'1" x 12'3"	6'10" x 10'4"	5'8" x 8'8"	4'6" x 6'11"	3'5" x 5'3"	2'9" x 4'6"	10'8" x 10'8"	7'11" x 7'11"	6'3" x 6'3"	6'1" x 8'1"	5'2" x 6'10"	4'4" x 5'8"
33'	8'11" x 13'6"	7'6" x 11'6"	6'3" x 9'6"	5' x 7'7"	3'9" x 5'9"	3' x 4'7"	11'8" x 11'8"	8'8" x 8'8"	6'11" x 6'11"	6'9" x 8'11"	5'9" x 7'6"	4'9" x 6'3"
36'		8'2" x 12'6"	6'10" x 10'4"	5'5" x 8'3"	4'3" x 6'6"	3'5" x 5'3"	12'10" x 12'10"	9'6" x 9'6"	7'7" x 7'7"		6'3" x 8'2"	5'2" x 6'10"
40'		9'2" x 14'1"	7'7" x 11'7"	6'1" x 9'3"	4'9" x 7'1"	3'9" x 5'9"	14'1" x 14'1"	10'8" x 10'8"	8'6" x 8'6"		7' x 9'2"	5'9" x 7'7"
43'			8'2" x 12'6"	6'7" x 10'	5'1" x 7'7"	4'1" x 6'1"		11'6" x 11'6"	9'2" x 9'2"			6'3" x 8'2"
46'			8'9" x 13'1"	7' x 10'8"	5'5" x 8'3"	4'3" x 6'6"		12'4" x 12'4"	9'10" x 9'10"			6'6" x 8'9"
49'				7'5" x 11'3"	5'8" x 8'8"	4'6" x 6'11"		13'1" x 13'1"	10'6" x 10'6"			
52'				7'11" x 12'	6'3" x 9'6"	4'11" x 7'6"		13'9" x 13'9"	11'2" x 11'2"			
56'					6'7" x 10'	5'3" x 7'11"			11'10" x 11'10"			
59'					7'1" x 10'9"	5'7" x 8'4"			12'8" x 12'8"			
62'					7'5" x 11'3"	5'11" x 9'			13'1" x 13'1"			
65'					7'9" x 11'6"	6'3" x 9'6"						
69'					8'2" x 12'6"	6'7" x 10'						
72'					8'6" x 12'9"	6'10" x 10'4"						
75'					8'10" x 13'5"	7' x 10'8"						
79'						7'7" x 11'7"						
82'						7'10" x 11'8"						
85'						8' x 12'2"						
88'						8'2" x 12'6"						
92'						8'9" x 13'1"						
95'						9' x 13'7"						

MICRO PROJECTION ATTACHMENT						
25mm Summar f/2.8—10mm 5Stage 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"

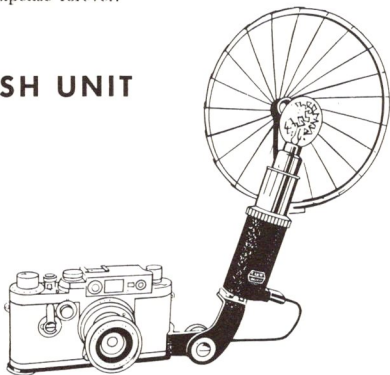
FLASH EQUIPMENT

You can choose between two basic types of flash equipment for your Leica—conventional and electronic. Each has its advantages. Leica flash units for conventional flash bulbs (the CEYOO and the Chico) are extremely small and light. They are very easy to carry and their cost is modest. Operating power comes from a 22-1/2 volt battery-capacitor.

The Braun Hobby Electronic Flash Units although somewhat bulkier and more expensive than the conventional units, have repeating flash tubes good for more than 30,000 flashes. They soon pay for themselves since they end your flashbulb expense forever.

CEYOO FLASH UNIT

This flash unit for conventional bulbs is so popular that we have adapted it for use on other cameras besides the Leica. The various adaptations consist of the basic CEYOO unit with a special connecting cord fitting the specific type of camera listed. (The only exception is flash unit CEYOSR which has no connecting cord; it has a special foot which makes the electrical contact.) The connecting cords furnished with the flash units for the Leica come with a removable female socket for use with electronic flash equipment.



The folding reflector of your CEYOO unit slips off the gun for compact storage and you can easily adjust it in height for centering to different bulbs. Its special matt finish gives even illumination even when you use a wide-angle lens. The bulb holder has a removable bayonet socket with ejector button. A big advantage of the CEYOO is that it takes screw base bulbs as well as bayonet base bulbs for those times when you need high light output. What's more, you get a test lamp with each unit to assist you in checking electrical connections. CEYOO and CHICO flash units come complete with batteries.

EXTENSION FLASH

Frequently you will find it desirable to locate the flash unit at a distance from your camera. All you will need for this purpose is one or more 5 foot extension cords which you put between the unit and the connecting cord at the camera. Extension flash gives you flexibility of light placement for better modeling, bounce light and special effects.

MULTIPLE FLASH

Multiple flash is the firing of two or more bulbs at the same time. It gives you the flexibility of studio lighting equipment and you can fill in shadows, make highlights or use more than one bulb to evenly light a large area.

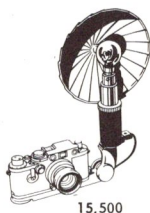
Parallel System

To join extension flash units in parallel, use a CEYOO unit, complete with B-C insert, for each extension light. A built-in rectifier in each unit prevents any chance of premature firing as bulbs are inserted into the sockets.

Series System

Some photographers prefer a series circuit for multiple flash work, especially with early models of the CEYOO. With a series hook-up premature firing is impossible. Also, you can insert bulbs either before or after you connect up the units. You will need one complete flash unit with a B-C insert at the camera and one additional unit (in which you have replaced the B-C insert with a series insert) for each extra lamp. Connect these units with an extension cord and series flash plug.

If you prefer the series system, there is a Multiple Flash Kit for your convenience. It contains a CEYOO flash unit in which a Series Insert replaces the B-C series, a five foot extension cord and a Series Flash Plug.



15,500



15,520



15,521



15,522

CEYOO FLASH UNITS

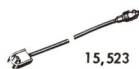
<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
15,500	CEYAL	Flash Unit with connecting cord fitting "f" and "g" series Leicas.	\$24.00
15,520	CNOOS	Connecting Cord for "f" and "g" series Leicas. Supplied with flash unit #15,500 . . .	3.30
15,546	ZIOOQ	Adapter for mounting flash unit in accessory clip of Leica If.	1.50
15,501	CEYOO-M	Flash Unit with connecting cord fitting "M" model Leica cameras	24.00
15,521	MOONZ	Connecting Cord for "M" model Leica cameras. Supplied with flash unit #15,501 . . .	3.30
15,503	CEYOSR	Flash Unit for Stereo Realist and Graflex-22; without connecting cord, but with special foot	24.00
15,502	CEYOPC	Flash Unit with connecting cord fitting shutters having Continental-type (P-C) outlet	24.00
15,522	COOSX	Connecting Cord for connecting CEYOO flash unit to shutters having Continental-type (P-C) outlet. Supplied with flash unit #15,502	3.30
15,510	CEYODP	Flash Unit with connecting cord fitting shutters having ASA double-post outlet	24.00
15,511	CEYOBT	Flash Unit with connecting cord fitting shutters having ASA bayonet-type outlet . . .	24.00
15,512	CEYOKE	Flash Unit with connecting cord fitting Kine Exakta and Exa cameras	24.00

REPLACEMENT PARTS FOR CEYOO FLASH UNITS

Catalog Number	Code Word	Item	Retail Price
15,532	VLOOF	Folding Reflector, matt finish.	\$ 6.00
15,533	CQQWO	Bayonet Bulb Adapter with ejector	5.40
15,534	COOQW	Test Lamp . . . . .	.35
15,535	COOWZ	B-C Insert with 22½ volt battery	4.20
15,536	COOUY	B-C Insert without battery	2.70
15,537	COOUM	Battery; 22½ volt for B-C Insert	1.50
15,538	CUMOO	Female Socket adapting CEYOO connecting cords to other flash units . . . . .	.60

ACCESSORIES FOR CEYOO FLASH UNITS

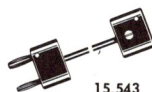
15,530	LCCEYO	Flash Unit CEYOO without connecting cord. Used for multiple flash.	20.70
15,523	COONS	Connecting Cord adapting "f" and "g" series Leicas for use with flash units having Continental-type (P-C) connector.	3.30
15,524	MICOO	Connecting Cord adapting "M" model Leica cameras to other flash units having a Con- tinental-type (P-C) connector	3.30
15,527	CCDPCE	Connecting Cord for connecting CEYOO flash unit to shutters having ASA double-post out- let.	5.40
15,528	CCBTCE	Connecting Cord for connecting CEYOO flash unit to shutter having ASA bayonet-type out- let.	5.40
15,529	CCKECE	Connecting Cord for connecting CEYOO flash unit to Exakta and Exa cameras.	5.40
15,542	COOMU	Male Plug for connecting CEYOO flash unit to synchronizers of other cameras . . . . .	.90
15,543	COOKT	Extension Cord (5 foot) for extension or multiple flash.	3.30
15,544	CNXOO	Multiple Flash Plug for parallel connection of multiple flash.	3.45
15,515	CEYSMF	Multiple Flash Kit for series connection of former units, (CEYOO Flash Unit and reflector, Series Insert, Series Flash Plug, 5 foot extension cord)	27.00
15,516	SMFIBH	Series Insert for series flash. Supplied with multiple kit	2.05
15,517	SMFPBC	Series Flash Plug for series connection of multiple flash. Supplied with multiple kit.	4.80



15,523



15,524



15,543



15,544

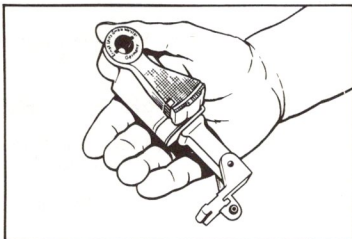


15,545

Catalog Number	Code Word	Item	Retail Price
15,545	CTOOM	Angle Bracket for mounting flash unit at side of the Leica	\$6.60
14,012	CLIPP	Shoe for mounting flash unit on other than Leica cameras	1.20
14,054	IXOUU	Synchro Outlet Cover for "M" model Leica cameras . . . . .	.30

CHICO FLASH UNIT

"Chico" is as tiny and attractive as it sounds. But efficient! The small size and high power of bayonet-base flash bulbs coupled with improvements in battery design, give you a huge light output from a vest-pocket flash gun. "Chico" is the last word in compactness and convenience. In a single plastic housing (only 1-1/2" wide and 3-1/2" long!) you get a 22-1/2 volt Battery-Capacitor, a built-in circuit tester with test lamp and a rectifier for multiple flash. The bayonet-base bulb socket with ejector button and the folding fan-type reflector are part of the housing, too!



"Chico" Flash Unit with Adjustable Holder for IIf, IIIf

Its built-in circuit tester is a unique feature of the "Chico" flash. If you push the test button after you have placed a flash bulb in the socket, a test lamp will shine through the housing. This tells you that your battery and flash bulb are in order. You can also test the synchronizing circuit of your camera. With the unit connected to the camera and a bulb in position (but with the reflector folded) operate the shutter. If the circuit is complete and everything is functioning properly, the test lamp will glow. The flash bulb cannot fire unless the reflector is in open position.

You can put "Chico" directly into the accessory shoe of your camera, or you can use it with an adjustable holder which provides angular adjustment of the flash unit.

For Extension Flash

As with the CEYOO flash, all that you need to fire the "Chico" unit at a distance from your camera is one or more extension cords to connect the unit to your camera. The flash unit has a tripod socket in its base so you can mount it on a tripod for extension or multiple lighting.

For Multiple Flash

You can fire two or more "Chico" units in multiple by connecting them to each other with the proper cords. Unlike the CEYOO unit, "Chico" has no provision for series flash. You will need each unit complete with a battery. However, a rectifier built into each unit prevents premature firing of the bulb—a major advantage of series wiring.

CHICO FLASH UNITS

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
15,601	DEOOC- DFHOO	Flash Unit with Adjustable Holder fitting Leica models IIf and IIIf. No connecting cord is required. Cannot be used on Leica Ig or IIIg	\$13.50
15,602	DEOOC- DFOOB- CVOOK	Flash Unit with adjustable Holder and Connecting Cord fitting "M" model Leica Cameras	15.00
15,603	DEOOC- DFOOB- CUOOL	Flash Unit with Adjustable Holder and 17 inch Connecting Cord fitting "f" and "g" series Leicas. Flash may be held off camera for bounce or angle lighting	15.00
15,604	DEOOC- DFOOB- DGKOO	Flash Unit with Adjustable Holder and Connecting Cord fitting shutters having Continental-type (P-C) outlet	13.50

ACCESSORIES FOR CHICO FLASH UNITS

15,600	DEOOC	Flash Unit without Adjustable Holder or Connecting Cord	10.20
15,608	DFHOO	Adjustable Holder for Flash Unit fitting Leica models IIf and IIIf. Connects directly to synchronizing outlet, no connecting cord required. Cannot be used on Leica Ig, IIIg	3.30
15,609	DFOOB	Adjustable Holder for Flash Unit fitting all synchronized models of the Leica and cameras of other makes. (Connecting cord or proper type is required).	1.50
15,613	CUOOL	Connecting Cord, with bayonet lock, connecting Flash Unit to synchronizing outlet of "f" and "g" series Leicas.	3.30
15,611	CVOOK	Connecting Cord, with bayonet lock, connecting Flash Unit to "M" model Leica cameras	3.30
15,612	DGKOO	Connecting Cord connecting Flash Unit to shutters having Continental-type (P-C) outlet.	1.80
15,617	DGKOO- SIXFT	Extension Cord (6 foot) for extension or multiple flash	2.70
15,619	TITANI	Multiple Flash Plug (two-way) for parallel connection of multiple flash	1.20
15,620	DHOOA	Battery; 22½ volt for Flash Unit	1.50
15,622	DHMOO	Plastic Box for "Chico" Flash Unit . . . . .	.90
14,012	CLIPP	Shoe for mounting Flash Unit on other than Leica cameras	1.20



15,608



15,613

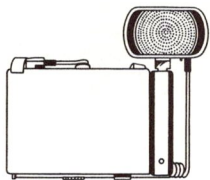


15,611



15,612

BRAUN HOBBY ELECTRONIC FLASH UNITS



Special EF 2 and Special EF 2 NC

Electronic flash offers the advantages of conventional flash bulbs plus unique characteristics of its own. Its highspeed light source (1/1000 second) will "stop" virtually any action and has a life of many thousands of flashes. And, since Braun Hobby electronic flash units operate from either ordinary A.C. household current or rechargeable storage batteries, or both, depending on the model, you can use them anywhere. Thus, electronic flash eliminates the cost of constant bulb replacement and costs practically nothing to operate.

Each Hobby unit is engineered to meet a special need in flash equipment; each is a product of the well-known electrical firm of Max Braun of Frankfurt, Germany—Europe's largest manufacturer of electronic flash units. Among innovations are the "Barix" storage batteries used in the EF 2 and EF 3 units and the removable nickel-cadmium battery which powers the F 60 "Pocket-Pak". Unlike ordinary lead-acid batteries, a fully-charged "Barix" battery can be stored without recharging for several months with no damage to its plates.

Both the tiny, interchangeable nickel cadmium battery in the F 60 "Power Pak" and the permanently installed nickel cadmium units in the EF 2 NC are highly resistant to accidental overcharging. And they are even less subject to damage from storage without maintenance than the rugged "Barix" units. Both types of batteries are perfectly suited to the needs of busy professionals, yet equally valuable for hobbyists who may use them only intermittently.

Another feature of the Hobby units is a monitor circuit which automatically checks the condenser charge. During waits between pictures the monitor circuit switches off the vibrator when the condenser reaches full charge. Then, if the charge drops, the monitor circuit switches the vibrator on for a moment—automatically—to restore full power, then switches it off again. The battery charge lasts longer; light output stays consistent. And you concentrate on good pictures, not the on-off switch.

Four Models

Because it is so small and light, the "Pocket-Pak" is perfect for field work. It is also extremely useful for multiple flash work. When hooked to the FZ-1 photocell, it becomes a cord-free "slave" unit, several of which fit easily into a gadget bag.

The tiny rechargeable nickel cadmium battery of the "Pocket-Pak" gives from 40 to 50 flashes per charge; when exhausted, it can be instantly replaced with another fully charged battery. To keep the working weight of the unit to a minimum, the battery charger is not built in, but is supplied with the "Pocket-Pak" as a detachable unit.

The hobby Automatic EF 3 is the most advanced of four models, and is especially suited for professional use. It features push-button control of its various functions, switching instantly from A.C. to storage battery operation, to half-power light output or battery charging via a built-in charger. Its 135 watt-second power will handle virtually any assignment, and an extension flash head is available to provide widely varying lighting effects.

The Special EF 2 is designed especially with advanced amateurs in mind. Its 70 watt-second power is ample for nearly any hobby photography, and many professional assignments as well. Its newly-designed, tiny reflector throws a 60° beam completely free of hot spots in the field of a normal lens and excellent even for wide-angle shots. The Special EF 2 works on either A.C. or the new "Barix" storage battery and has a built-in battery charger. There is ample light output to handle an extension flash head, which is available as an accessory.

The Special EF 2 NC has features virtually identical with those of the Special EF 2, except that its battery is a rechargeable nickel-cadmium unit rather than the Barix. This battery is permanently installed and cannot be removed by the user. The nickel-cadmium, like the Barix battery features long life and minimum maintenance, giving up to 75 flashes on a single battery charge.

PHOTOCELL SLAVE UNIT

The Braun FZ-1 Photoelectric Cell makes any Braun flash unit (and virtually any other electronic flash unit) into a "Slave" unit for cord-free multiple flash photography. The FZ-1 measures only 3 3/8" x 2 3/8" x 1 3/8", and, loaded with two batteries, it weighs less than seven ounces. It can be set for low, medium or high sensitivity and will operate flash units as far as 100 feet from the "master" unit on the camera. A rotating cover for the photoelectric cell provides directional protection from the light of other flash units which might be in use nearby, and prevents accidental firing of the "slave" unit.

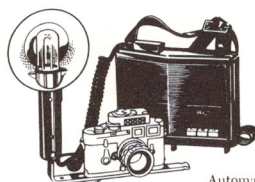
Connecting cords for all three Hobby units are available for all synchronized models of the Leica and many other types of cameras.

BRAUN HOBBY SPECIFICATIONS

	Automatic EF3	Special EF2 and Special EF2NC	F-60 "Pocket-Pak"		
Case Dimensions	9" x 6 1/4" x 3"	6 1/2" x 5 1/4" x 2 1/4"	4 1/2" x 5 1/4" x 1 1/4"		
Total weight (with battery)	6 lbs. 7 oz.	Special EF2 4 lbs. 4 oz. Special EF2NC 4 lbs. 3 oz.	23 oz.		
Flash duration	1/1000 sec.	1/1000 sec.	1/1000 sec.		
Color Temperature	5600°K. (matches daylight color film balance)	5600°K. (matches daylight color film balance)	5600°K. (matches daylight color film balance)		
Watt seconds	Full-power position 135 Half-power position 60	70	40		
Reflector Coverage	Adjustable Choice of 50° or 70°	60°	65°		
Guide Number	Daylight Kodachrome	55* open lens 1 1/2 stops	44	32	
	Daylight Kodachrome, Anscochrome or Ektachrome	90* open lens 1 1/2 stops	70	56	
	Daylight Super Anscochrome	160* open lens 1 1/2 stops	120	90	
	Daylight High Speed Ektachrome	175 open lens 1 1/2 stops	145	125	
	ASA 100 B & W	300* open lens 1 1/2 stops	230	220	
	A.C.	Unlimited	Unlimited	Unlimited	—
Flashes Per Charge	Barix battery	80	180	75	—
	Nickel-cadmium battery	—	—	75	40
	110 volts A.C.	8-9 sec.	2-3 sec.	5-7 sec.	—
Recycle Time	Battery	9 sec.	3-4 sec.	6-7 sec.	10 sec.
	Extension flash head available	Yes	Yes	No.	
Battery charger	Built in	Built in	Separate		

* Guide number for two-position reflector on "Automatic" set for 50° beam. Open lens 1/2 stop for reflector in 70° beam position.

BRAUN HOBBY AUTOMATIC EF3 ELECTRONIC FLASH UNIT

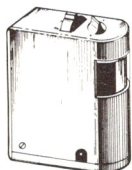
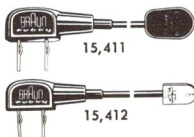


Automatic EF 3
(Camera Cord Extra)

Catalog Number	Code Word	Item	Retail Price
15,403		Automatic EF 3 Storage Battery—A.C. Unit Complete with "Barix" rechargeable battery, built-in vibrator and charger, A.C. line cord, and camera bracket, but without camera connecting cord	\$109.50

Accessories for the Automatic EF 3 and Former Models of the Automatic

15,411	CTKOO	Connecting Cord (50cm long) for "M" model Leica cameras	5.00
15,416		Connecting Cord (6 feet long) for "M" model Leica cameras	6.80
15,412	CSOON	Connecting Cord (50cm long) for "f" or "g" series Leicas.	5.00
15,417		Connecting Cord (6 feet long) for "f" or "g" series Leicas.	6.80
15,413	BRCCPA	Connecting Cord (40cm long) for Continental-type (P-C) outlet	2.75
15,414	BRCCRA	Connecting Cord (80cm long) for Rolleiflex and Rolleicord cameras	3.75
15,436		Photoelectric Cell FZ-1 for remote firing of all Braun Hobby models and most other Electronic Flash Units. Connects to unit by means of 40cm cord. Two 30 Volt BC batteries required for high sensitivity. Without cord or batteries	22.50
15,413		Connecting Cord (40cm long) P-C type connecting Foto Cell to Braun Hobby Unit . . .	2.75
15,437		Eveready Battery #413 , 30 Volt BC (2 req.)	1.75
15,438		Encircling Clamp and snap off bracket for Press type cameras. Permits flash head of Braun Hobby EF3, Automatic AA, Special, Special ANC and Standard AS to be mounted to flash gun bracket of Linhof Super Technika 5x7, 4x5, 2¼x3¼, Technika Press 23 and Crown and Speed Graphics.	12.00
15,439		Encircling Clamp for Rolleiflex Permits flash head of Braun Hobby EF3, Automatic AA, Special, Special ANC and Standard AS to be mounted to Rolleiflex accessory.	5.40
15,471		Multiple Flash Head , 16-foot cord. (For Automatic EF 3, Automatic A. A., Special A.M. or A.N.C.)	30.00



15,436

Accessories for the Automatic EF 3 and Former Models of the Automatic

Catalog Number	Code Word	Item	Retail Price
15,457	PCFCEA	Exakta Adapter. Adapts P-C cords for use on Exakta and Exa cameras. (May be used with P-C cords of CEYOO and CHICO flash units.)	\$2.50
15,455	ABHPWB	Plastic Squeeze Bottle with narrow spout and cap. For adding distilled water to storage battery . . . . .	.50
15,459		Flash Head Bracket , for mounting flash head of Braun Hobby Automatic EF 3, Automatic A.A., Special A.M. or A.N.C. or former Standard on Leica accessory shoe or flash angle brackets	2.00

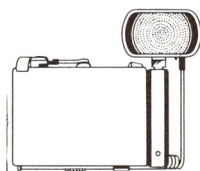
Replacement Parts for the Automatic EF 3 and Former Models of the Automatic

15,423		"Barix" Storage Battery for Automatic EF 3 and former models of the Automatic and Standard	12.00
15,451		Vibrator , with muffler, for Automatic A.A.	9.00
15,452	RBHSEV	Vibrator , with muffler for previous Automatic models	9.00
15,432	LCBHAW	Line Cord (13-foot)	2.25

(FOR FUSES, SEE P. F 13)

BRAUN HOBBY SPECIAL EF 2 AND EF 2 NC ELECTRONIC FLASH UNITS

15,401		Special EF 2 Storage Battery—A.C. Unit. Complete with "Barix" rechargeable battery, built-in vibrator and charger, A.C. line cord, camera bracket and detachable flash head handle, but without camera connecting cord	69.50
15,402		Special EF 2 NC Storage Battery—A.C. Unit. Complete with nickel-cadmium rechargeable battery, built-in vibrator and charger, A.C. line cord, camera bracket and detachable flash head handle, but without camera connecting cord.	109.50



15,401

Accessories for Special EF 2, Special EF 2 NC, and Former Models Special A.M. and Special A.N.C.

15,411	CTKOO	Connecting Cord (50cm long) for "M" model Leica cameras	5.00
15,416		Connecting Cord (6 feet long) for "M" model Leica cameras	6.80
15,412	CSOON	Connecting Cord (50cm long) for "f" and "g" series Leicas.	5.00
15,417		Connecting Cord (6 feet long) for "f" and "g" series Leicas	6.80
15,413	BRCPCPA	Connecting Cord (40cm long) for Continental-type (P-C) outlet	2.75
15,414	BRCRCRA	Connecting Cord (80cm long) for Rolleiflex and Rolleicord cameras	3.75
15,459		Flash Head Bracket for mounting flash head of Braun Hobby Automatic EF 3, Automatic A.A., Special A.M. or A.N.C. or Standard on Leica accessory shoe or flash angle brackets	2.00

NOTE: Domestic cords can be used with ASA synchronizer outlets.

Accessories for Special EF 2, Special EF 2 NC, and Former Models Special A.M. and Special A.N.C.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
15,436		Photoelectric Cell FZ-1 for remote firing of all Braun Hobby models and most other Electronic Flash Units. Connects to unit by means of 40cm cord. Two 30 Volt BC batteries required for high sensitivity. Without cord or batteries	\$22.50
15,413		Connecting Cord (40cm long) P-C type connecting Foto Cell to Braun Hobby Unit . . .	2.75
15,437		Eveready Battery #413, 30 Volt BC (2 req.)	1.75
15,438		Encircling Clamp and snap off bracket for Press type cameras	12.00
		Permits flash head of Braun Hobby EF3, Automatic AA, Special, Special ANC and Standard AS to be mounted to flash gun bracket of Linhof Super Technika 5x7, 4x5, 2¼x3¼, Technika Press 23 and Crown and Speed Graphics.	
15,439		Encircling Clamp for Rolleifix	5.40
		Permits flash head of Braun Hobby EF3, Automatic AA, Special, Special ANC and Standard AS to be mounted to Rolleifix accessory.	
15,471		Multiple Flash Head (For former models Special A.M., Special A.N.C. or Automatic A.A.)	30.00
15,470		Multiple Flash Head for Special EF 2 and Special EF 2 NC	30.00
15,457	PCFCEA	Exakta Adapter. Adapts P-C cords for use on Exakta and Exa cameras. (May be used with P-C cords of CEYOO and CHICO flash units.)	2.50
15,455	ABHPWB	Plastic Squeeze Bottle with narrow spout and cap. For adding distilled water to storage battery . . . . .	.50

Replacement Parts for Special EF 2, Special EF 2 NC, Special A.M. and Special A.N.C.

15,421		"Barix" Storage Battery for Standard EF 1, Special EF 2, and former models of the Special	10.50
15,450		Vibrator, with muffler (for special AM and ANC only)	9.00
15,432	LCBHAU	Line Cord, black, (13-foot)	2.25
15,431		Line Cord, gray, (13-foot)	2.25

(FOR FUSES, SEE P. F13)

BRAUN HOBBY F60 "POCKET-PAK"

ELECTRONIC FLASH UNIT

Catalog Number	Code Word	Item	Retail Price
15,404		F 60 "Pocket-Pak" Storage Battery Flash Unit complete with nickel cadmium rechargeable battery, removable flash head, separate charger and A.C. connecting cord, but without camera connecting cord	\$74.50
15,405		F 60 "Pocket-Pak" Storage Battery Flash Unit , same as #16,384, but without battery charger or A.C. connecting cord	59.50
15,424		Nickel Cadmium Storage Battery for Braun Hobby F 60 "Pocket-Pak" , as spare or replacement	15.00
15,476		Battery Charger for Braun Hobby F 60 "Pocket-Pak" , complete with connecting cord	15.00
Accessories for the F 60 "Pocket-Pak"			
15,411	CTKOO	Connecting Cord (50 cm long) for "M" model Leica Cameras	5.00
15,416		Connecting Cord (6 feet long) for "M" model Leica Cameras	6.80
15,412	CSOON	Connecting Cord (50cm long) for "f" or "g" series Leicas	5.00
15,417		Connecting Cord (6 feet long) for "f" or "g" series Leicas	6.80
15,413	BRCCPA	Connecting Cord (40cm long) for Continental-type (P-C) outlet	2.75
15,414	BRCCRA	Connecting Cord (80cm long) for Rolleiflex and Rolleicord cameras	3.75
15,436		Photoelectric Cell FZ-1 for remote firing of all Braun Hobby models and most other electronic flash units. Connects to unit by means of short connecting cord. Two 30 Volt BC batteries required for high sensitivity. Without cord or batteries.	22.50
15,413		Connecting Cord (40cm long) P-C type, connecting Photocell to Braun Hobby unit . .	2.75
15,437		Eveready Battery #413 , 30 Volt BC (2 req.) each	1.75

(FOR FUSES, SEE PAGE F13)



Braun
Hobby
F60
"Pocket-
Pak"

Accessories for Former Models Standard EF 1 and Standard

Catalog Number	Code Word	Item	Retail Price
15,411	CTKOO	Connecting Cord (50cm long) for Leica Model M 2 or M 3	\$5.00
15,416		Connecting Cord (6 feet long) for Leica M 2 or M 3	6.80
15,412	CSOON	Connecting Cord (50cm long) for "f" and "g" series Leicas	5.00
15,417		Connecting Cord (6 feet long) for "f" and "g" series Leicas	6.80
15,413	BRCCPA	Connecting Cord (40cm long) for Continental-type (P-C) outlet	2.75
15,414	BRCCRA	Connecting Cord (80cm long) for Rolleiflex and Rolleicord cameras	3.75
15,436		Photoelectric Cell FZ-1 for remote firing of all Braun Hobby models and most other electronic flash units. Connects to unit by means of short camera connecting cord. Two 30 Volt BC batteries required for high sensitivity. Without cord or batteries.	22.50
15,413		Connecting Cord (40cm long) P-C type connecting Foto Cell to Braun Hobby Unit	2.75
15,437		Eveready Battery #413, 30 Volt BC (2 req.)	1.75
15,438		Encircling Clamp and snap off bracket for Press type cameras	12.00
		Permits flash head of Braun Hobby EF3, Automatic AA, Special, Special ANC and Standard AS to be mounted to flash gun bracket of Linhof Super Technika 5x7, 4x5, 2 1/4 x 3 1/4, Technika Press 23 and Crown and Speed Graphics.	
15,439		Encircling Clamp for Rolleiflex	5.40
		Permits flash head of Braun Hobby EF3, Automatic AA, Special, Special ANC and Standard AS to be mounted to Rolleiflex accessory with camera either on or off the tripod.	
15,421		"Barix" Storage Battery for Standard EF 1, Special EF 2, and former models of the Special	10.50
15,423		"Barix" Storage Battery for former models of the Standard and Automatic and current Automatic EF 3	12.00
15,478	ABHIBC	Battery Charger. Interchangeable with vibrator. WARNING: for former models of the Standard with pebbled reflectors and with serial numbers below 271,626 only	2.25
15,477		Battery Charger. Interchangeable with vibrator. WARNING: for former models of the Standard with mirror-center reflector and with serial numbers 271,626 or higher only (cannot be used in Standard EF 1)	2.25
NOTE: Both storage battery and appropriate charger are needed for wet cell operation of former Standard models.			
15,457	PCFCEA	Exakta Adapter. Adapts P-C cords for use on Exakta and Exa cameras. (May be used with P-C cords of CEYOO and CHICO flash units.)	2.50

Accessories for Former Models Standard EF 1 and Standard

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
15,459		Flash Head Bracket. for mounting flash head of Braun Hobby Automatic EF 3, Automatic A.A., Special A.M. or A.N.C. or Standard on Leica accessory shoe or flash angle brackets.	\$ 2.00

NOTE: Domestic cords can be used with ASA synchronizer outlets.

Replacement Parts for the Standard

15,433	LCBHSR	Line Cord (4½ foot). Necessary for A.C. operation and when recharging storage battery in unit (as replacement)	1.80
15,452	RBHSBV	Vibrator, with muffler. For former models with pebbled reflectors and serial numbers below 271,626 only.	9.00
15,450		Vibrator, with muffler. For former models with mirror-center reflectors and serial number 271,626 or higher only (cannot be used in Standard EF 1).	9.00

(FOR FUSES, SEE BELOW)

Fuses For Braun Hobby Units

15,446		Fuse, 60ma, for F 60 "Pocket-Pak" . . . . .	.15
15,443		Fuse, 400ma, for F 60 "Pocket-Pak" and Automatic EF 3 and models of the Automatic with serial numbers above 400,000 . . . . .	.15
15,445		Fuse, 200ma, for Special EF 2 and Special EF 2NC . . . . .	.15
15,444		Fuse, 180ma, for Standard EF 1 and previous models of the Special . . . . .	.15
15,442		Fuse, 300ma, for previous models of the Automatic with serial numbers below 400,000, and the Braun Hobby "100" . . . . .	.15

(Available to dealers only in cartons of 10 fuses each.)

New and genuine Leica equipment is sold only through franchised Leica dealers, who are distinguished by the display of the Leica dealer emblem.



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