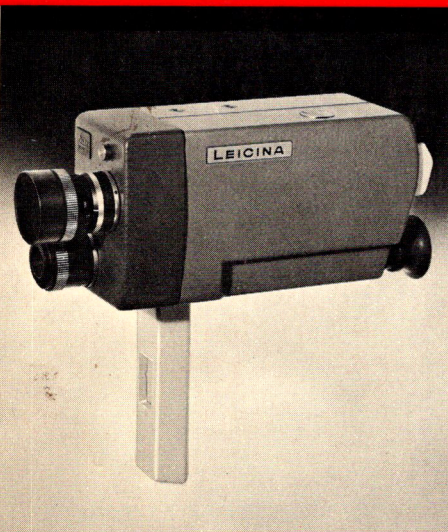


**CATALOG
NO. 36**

LEICA LEICINA



**LEICA,
LEICINA,
AND
ALLIED
PHOTOGRAPHIC
EQUIPMENT**



E. LEITZ, INC.

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

E. LEITZ INC., 468 PARK AVENUE SOUTH, NEW YORK 16, NEW YORK

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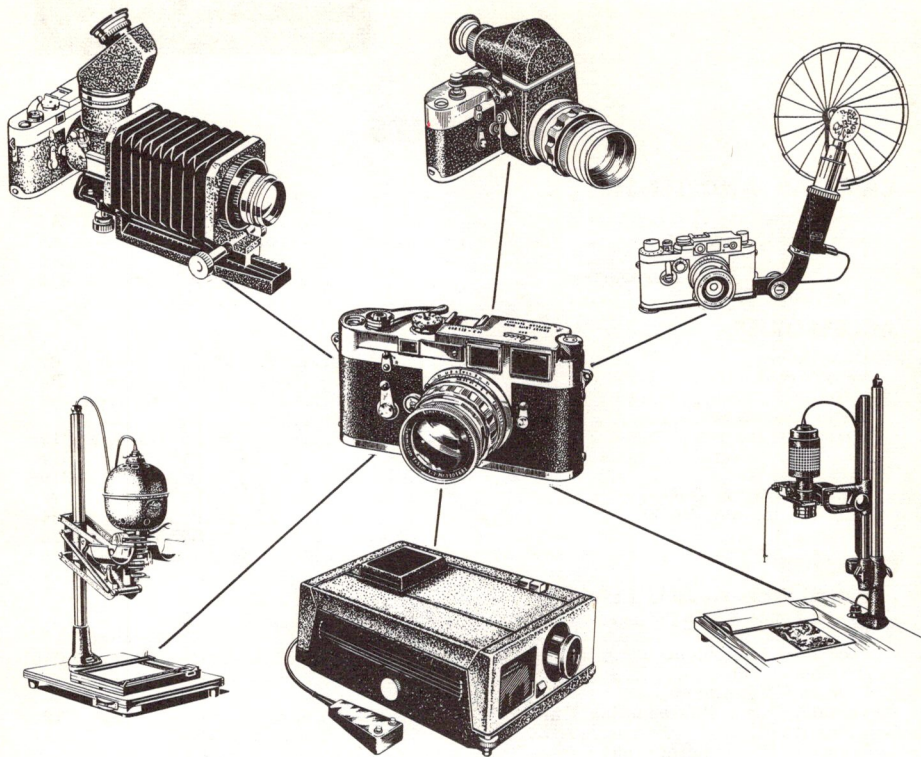
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THE *Leica* **SYSTEM** . . . key to perfect pictures

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.

The Leica System

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.

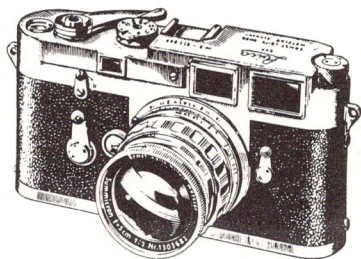
The single-window range- and viewfinder of the M 3 shows a life-size image with built-in luminous-frame finders for 50mm, 90mm, and 135mm lenses. And, with the "RF" Summaron on the M 3, you see the proper wide-angle field for this 35mm lens. The proper frame appears automatically as you attach the lenses 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 "preview" the 50mm, 90mm, and 135mm fields before actually attaching the lens. The large range-finder 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

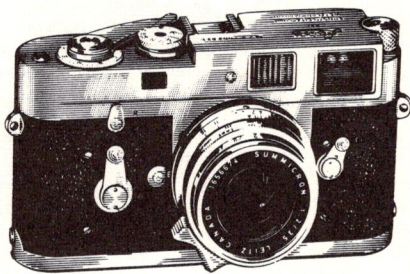
Catalog Number	Code Word	Item	Retail Price
10,150	IGEMO	Leica M 3 without lens	\$297.00*
10,155	IMARO	Leica M 3 with 50mm Elmar f/3.5 lens.	349.50*
10,157	IMOLO	Leica M 3 with 50mm Elmar f/2.8 lens.	363.00*
10,180	ISOUN	Leica M 3 with rigid 50mm Summicron f/2 lens	447.00*
10,185	ISMON	Leica M 3 with Dual-Range 50mm Summicron f/2 lens and Optical Viewing Unit	486.00*
10,167	IMOOT	Leica M 3 with 50mm Summilux f/1.4 lens . . .	513.00*

*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 M2S with self timer* and with 35mm Summicron $f/2$ lens

*no longer available without self timer

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.

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 special model of the Leicavit Rapid winder for those who prefer base-plate 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.

LEICA M2S-THE M2 WITH SELF-TIMER

M 2 NO LONGER AVAILABLE WITHOUT SELF TIMER

Catalog Number	Code Word	Item	Retail Price
10,308	KOOHV	Leica M2S with self timer but without lenses.....	\$249.00*
10,333		Leica M2S with 35mm Summaron $f/2.8$ lens.....	366.00*
10,331		Leica M2S with 35mm Summicron $f/2$ lens.....	423.00*
10,335		Leica M2S with 50mm Elmar $f/2.8$ lens.....	315.00*
10,336		Leica M2S with 50 mm rigid Summicron $f/2$ lens.....	399.00*
10,338		Leica M2S with Dual-Range Summicron $f/2$ lens and Optical Viewing Unit.....	438.00*
10,337		Leica M2S with 50mm Summilux $f/1.4$ lens.....	465.00*

*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 range-finder, self-timer or frame selector. Flash synchronization is automatic, like that in the M3 and M 2. The M 1 accepts bayonet-mounted lenses.

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
10,120	KOOCY	Leica M 1 without lens	\$147.00*
10,123		Leica M 1 with 35mm Summaron f/2.8 lens.....	264.00*
10,124	KOOML	Leica M 1 with 50mm Elmar f/3.5 lens.....	199.50*
10,125	KOOEU	Leica M 1 with 50mm Elmar f/2.8 lens.....	213.00*

*Including Federal Manufacturer's Excise Tax.

CAMERAS, LENSES & ACCESSORIES AVAILABLE IN BLACK FINISH

To meet a limited but definite demand, certain Leica cameras, lenses, and accessories are now offered in a black as well as a chrome finish. These black-finish items will be available in limited quantities and on special order only.

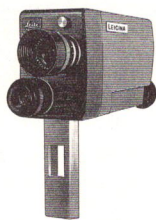
The black cameras, lenses, Leicavit and Leica Meter MC have white lettering and numerals except for the footage markings on the feet/meter focusing scales of the lenses and the low intensity scale of the Leica Meter MC, these are in red.

<i>Catalog Number</i>	CAMERAS IN BLACK FINISH	<i>Retail Price</i>
10,309	Leica M 2S without lens in Black Finish	\$276.00*
10,151	Leica M 3 without lens in Black Finish	324.00*
LENSES IN BLACK FINISH		
11,307	35mm Summicron f/2 for M 2S in Black Finish . . .	180.00*
11,104	35mm Summicron f/2 with "RF" for M 3 in Black Finish	219.00*
11,869	35mm Summilux f/1.4 in Black Finish for M2S . . .	280.50
11,872	35mm Summilux f/1.4 in Black Finish with "RF" for M3	312.00*
11,117	50mm Summicron f/2 Rigid Bayonet Mount in Black Finish	165.00*
11,113	50mm Summilux f/1.4 Bayonet Mount in Black Finish	237.00*
11,122	90mm Summicron f/2 Bayonet Mount in Black Finish	276.00*
11,121	90mm Summicron f/2 in short mount with Black Finish	234.00*
11,119	90mm Summicron f/2 in short mount with preset diaphragm and with Black Finish	246.00*
ACCESSORIES IN BLACK FINISH		
16,459	Short Mount for 90mm Summicron f/2 in Black Finish	69.00
14,087	Long Mount for 90mm Summicron f/2 in Black Finish	111.00
98,200	Leica Meter MC in Black Finish	36.00
14,007	Leicavit Rapid Winder for M 2 (cannot be used on M 3) in Black Finish	54.00

* Includes Federal Manufacturers' Excise Tax

LEICINA 8 S

The Leicina 8S is an 8mm movie camera with the quality and precision of the Leica. It offers not only utter, point-and-shoot simplicity in use, but also — and most important — a picture quality unmatched in the home-movie field. The Leicina uses 8mm film in its least expensive form — rolls — and loading it is a matter of just a few seconds.



automatic diaphragm

The Leicina's completely automatic electric-eye diaphragm sets itself for perfect exposures with any 8mm film, indoors or out, in bright light or dim. You frame the scene by looking directly through the Leicina's fast $f/2$ lens by means of the brilliant reflex finder system. As you frame the scene, the viewfinder shows you the diaphragm scale of the lens and a footage indicator which tells you how much film you have used and how much remains to be shot.

two fast lenses

The Leicina comes with two $f/2$ Dygon lenses — a 9mm for normal work and a 15mm for extra image size and “reach” for photographing medium-distance action. The 9.5 lens focuses to 10” for unusual close-ups and titling work, while the 15mm lens is of fixed-focus. The great depth of field of both lenses makes focusing unnecessary in all cases except when titling or shooting extreme close-ups.

functional design

Basic to the Leicina's high-quality screen image is its functional design, aimed at steady hand-holding. A two-position forehead-rest bar provides a firm brace-point for either right-or left eyed cameramen. A built-on fold-away grip offers a steady hold to one hand, while the other hand presses down on the top of the camera. This three-point support makes it possible to hold the Leicina extremely still while shooting. And this in turn is most appreciated when the pictures are projected (many times enlarged on the screen) and any camera motion appears greatly magnified.

electric motor

The electric, battery-powered Leicina motor is a marvel of unvarying accuracy. Its 16 fps speed never dies in mid-scene, never slows down, as with spring-driven motors, to produce unwanted speed-up of action on the screen. Four penlight cells, obtainable anywhere, power the motor for shooting at least 10 rolls of film, and a built-in meter lets you check battery condition every time you load or unload the camera.

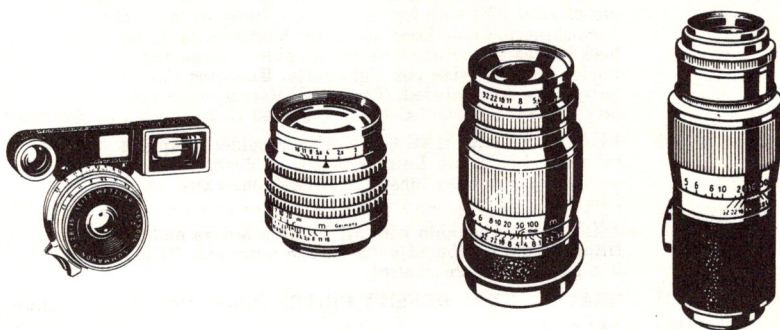
LEICINA & ACCESSORIES

<i>Catalog Number</i>		<i>List Price</i>
20501	LEICINA 8S 8MM ELECTRIC-EYE MOTION PICTURE CAMERA with built-in 15mm DYGON F/W fixed focus lens (angle of view 22°) and afocal converter 9mm DYGON (angle of view 37°) with focusing from infinity to ten inches. A combination lens hood and filter holder suitable for both lenses is included, as are a cable release and holder for 4 AA size pen light cells. Batteries themselves are not included. The 1.35V Mercury-type battery for the "Electric Eye" is included	\$267.00*
22408	LEATHER CARRYING CASE with shoulder strap and rubber pad for basic Leicina outfit, as described, plus additional converter lenses, 4 filters, one extra 8mm film	27.00
	FILTERS are useable with all Leicina lenses and the filter factors can be adjusted on the automatic "Electric Eye" exposure control.	
22125	GRAY NEUTRAL DENSITY FILTER (filterfactor 4X)....	3.90
22103	YELLOW FILTER	3.90
22107	ORANGE FILTER	3.90
98130	TYPE A FILTER	7.80
22113	UVa FILTER (no factor)	3.90
22502	DEAC - 5.2V NICKEL CADMIUM battery in housing . . .	13.50
22504	CHARGER FOR DEAC BATTERY	7.20
21001	9MM DYGON F/2 LENS	39.00*
22205	LENS HOOD for 15mm Dygon Lens	2.25
22209	LENS HOOD for 9mm Dygon Lens	1.80
22521	BATTERY HOUSING for Nickel Cadium battery	4.50
22451	WRIST LOOP STRAP	1.20
22231	TAKE UP SPOOL . . . . .	.75

**Includes 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 one of the older models 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 Elmar (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 Elmar are available in short mounts for use on the Visoflex housings. The 65mm Elmar, the 125mm Hektor and the 200mm, 280mm 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 and 125mm Hektor lenses. The 90mm Summicron and the 200mm, 280mm and 400mm TELYT lenses have built-in collapsible lens hoods. Hoods for either Leica lenses are available as accessories.

LENSES

SCREW-MOUNTING LENSES

Catalog Number	Code Word	Item	Retail Price
 11,001	11,002	SUOON 21mm Super Angulon f/4	\$249.00*
	11,001	SNOOX 28mm Summaron f/5.6	112.50*
	11,008	SAWOO 35mm Summicron f/2	174.00*
	11,006	SIMOO 35mm Summaron f/2.8	117.00*
	11,012	ELMOO 50mm Elmar f/2.8	66.00*
	11,018	SOSTA 50mm Summicron f/2, rigid	150.00*
	11,014	SOWGE 50mm Summilux f/1.4	216.00*
 11,025	11,025	SOOCX 85mm Summarex f/1.5	360.00*
	11,023	SEOF 90mm Summicron f/2, rigid; chrome finish	270.00*
	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	174.00*
	11,030	ELANG 90mm Elmar f/4, rigid	108.00*
 11,750		135mm Elmar f/4	157.50
		BAYONET-MOUNTING LENSES	
	11,102	SUMOM 21mm Super Angulon f/4	249.00*
	11,106	SIMWO 35mm "RF" Summaron f/2.8 with Optical Viewing Unit for M 3	156.00*
 11,306	11,306	SIMOM 35mm Summaron f/2.8 for M 2 or M 1	117.00*
	11,108	SAMWO 35mm "RF" Summicron f/2, with Optical Viewing Unit for M 3	207.00*
	11,308	SAWOM 35mm Summicron f/2, for M 2 or M 1	174.00*
	11,870	35mm Summilux f/1.4 for M 2	267.00*
 11,318	11,871	35mm Summilux RF f/1.4 with Optical Viewing Unit for M 3	297.00*
	11,112	ELMOM 50mm Elmar f/2.8	66.00*
	11,110	ELMAM 50mm Elmar f/3.5	52.50*
	11,118	SOSIC 50mm Summicron f/2, rigid	150.00*
	11,318	SOMNI 50mm Dual-Range Summicron f/2, with Optical Viewing Unit for M 3 or M 2	189.00*
	14,002	SDPOO Optical Viewing Unit for bayonet-mounting 50mm Dual-Range Summicron f/2 lens	24.00*
 11,123	11,114	SOOME 50mm Summilux f/1.4 includes lens hood and lens hood cap	216.00*
	11,125	SOOCX-ISBOO 85mm Summarex f/1.5	367.50*
	11,123	SEOOM 90mm Summicron f/2, rigid; chrome finish	270.00*
	11,129	ELRIM 90mm Elmarit f/2.8, rigid	174.00*
	11,130	ELGAM 90mm Elmar f/4, rigid	108.00*
 11,131	11,131	ILNOO 90mm Elmar f/4, collapsible	141.00*
	11,850	135mm Elmar f/4	157.50

*Including Federal Manufacturer's Excise Tax.

THE VISOFLEX HOUSINGS



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

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.

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 I, 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. It also accepts the Bellows Focusing Device II.

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 M Model Leicas.

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.

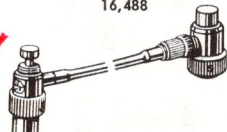
Catalog Number	Code Word	Item	Retail Price
VISOFLEX I AND ACCESSORIES			
16,485	OZYXO	Visoflex I, screw-mounting; complete with special cable release and 5X wide-field focusing magnifier (weight 20 oz.)	\$126.00
16,482	OZXOM	Visoflex I, bayonet-mounting; complete with special cable release and 5X wide-field focusing magnifier (weight 20.5 oz.)	126.00
16,486	LVFOO	Wide-Field Magnifier (5X)	22.50
16,487	PEGOO	Wide-Field 45° Magnifier (4X)	54.00
16,488	PAMOO	Wide-Field 90° Magnifier (5X)	33.00
16,492	OZWTO	Double Cable Release for Visoflex I and any Leica (except Leica M 3, M 2, M 1)	10.80
16,491	OZWTO-M	Double Cable Release for Visoflex I and Leica M 3, M 2, M 1	10.80
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.	15.00
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	2.40
16,495	ZOoAN	Short Focusing Mount for lens unit of 135mm Hektor lens. 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.)	21.00
16,496	ZOoBA	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
14,071		Short Focusing Mount for 135mm Elmar lens	21.00



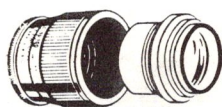
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16,488



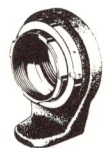
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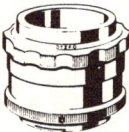
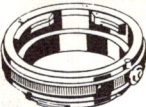


16,495

VISOFLEX II AND ACCESSORIES

16,457	OTYDO	Visoflex II, screw-mounting, without magnifier.	\$79.50
16,455	OTDYM	Visoflex II, bayonet-mounting, without magnifier.	79.50
16,458	OUCLO	Visoflex II, screw-mounting with 4X image erecting magnifier (weight 15 3/4 ozs.)	126.00
16,456	OCLOM	Visoflex II, bayonet-mounting with 4X image erecting magnifier (weight 16 1/4 ozs.)	126.00
16,460	OTXBO	4X Magnifier producing an erect and laterally correct image for Visoflex II.	46.50
16,461	OTVXO	5X Standard Magnifier for Visoflex II	28.50
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, 280mm and 400mm focus	19.50



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	\$36.00
			
16,464			
16,476		Adapter 21.5mm long. Permitting use of short mounted 125mm, 135mm, 200mm and 400mm lenses on Visoflex II. Bayonet adapter must be added.	5.40
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 Mounts #16,464 and #16,465 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.	5.40
16,473		Adapter Tube. To use on all screw mounted lenses with Universal Focusing mount for close-ups.	8.70
			
16,469			
16,472	OTSRO	Adapter Tube. Adapts lens unit of the 135mm Hektor f/4.5 to Universal Focusing Mount #16,464 or #16,465. Permits the lens to be focused to infinity on the Visoflex II. Can also be used with both #16,464 or #16,465 and Extension tube #16,471 at distances from 38 inches to 26 inches	5.40
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	10.50
			
16,467			
16,474	OUEPO	Extension Tube for short-mounted 90mm Summicron f/2 lens for photography between 3'6" and 2'1"	5.40
			
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.	21.00
16,468	OTQNO	Extension Tube for short focusing mount, #16,467 permitting focusing from 3 feet 4 inches to 2 feet 2 inches	2.85
16,463	ZOEEP	Short Focusing Mount; accepts lens units of 90mm Summicron lenses #11,Q23 and #11,123 for use on Visoflex II only.	66.00

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



11,026

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	\$126.00*
11,062	OCMOR	65mm Elmar f/3.5, for Visoflex II only. Lens unit without focusing mount. For widest focusing range use with universal focusing mount #16,464.	90.00*

*Including Federal Manufacturer's Excise Tax

Catalog Number	Code Word	Item	Retail Price
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	\$ 70.50*
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.	123.00*
11,124	OESBO	90mm Summicron f/2, in short mount, chrome finish. Fits Visoflex II only	228.00*
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
11,126	OERDO	90mm Summicron f/2, in short mount, chrome finish, complete with pre-set diaphragm. Fits Visoflex II only	240.00*
11,032	HIKOO	125mm Hektor f/2.5 in short mount without Visoflex. Fits Visoflex I or II	171.00
11,950		135mm Elmar f/4 in short mount without Visoflex. Fits Visoflex I or II	135.00
		Lens unit of above adapts to rangefinder focusing via: Long-Focusing Mount #14072 Long-Focusing Mount #14073	
11,951		135 mm Elmar f/4 lens unit with click stops 42mm front diameter, without focusing mount. Adapts to rangefinder focusing via: Long Focusing Mount #14072 Long Focusing Mount #14073 Adapts for use on Visoflex I or II via: Short Focusing Mount #14071 Also fits Adapter furnished with Bellows Device #16,555	114.00
98041		135mm Elmar F/4 (11750) in long screw-in mount, plus separate short mount but without Visoflex. Fits Visoflex I or II.	178.50
98141		135mm Elmar F/4 (#11850) in long bayonet mount, plus short mount but without Visoflex. Fits Visoflex I or II.	178.50
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.	222.00
11,901		Telyt 280mm f/4.8 lens unit without focusing mount.	210.00
11,912		Telyt 280mm f/4.8 lens in parallel focusing mount with tripod socket; matte-black finish, pre-set diaphragm; built in collapsible lens hood; shortest distance on focusing scale 19 feet	291.00
11,066	TLCOO	400mm Telyt 1/5 in short mount without Visoflex; includes built-in collapsible lens hood and lens hood cap	498.00
		Fits Visoflex I or II.	



11,124



11,032



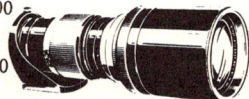
11,950



11,138



11,063






11,066

* Including Federal Manufacturer's Excise Tax

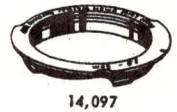
Catalog Number	Code Word	Item	Retail Price
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LENS ACCESSORIES

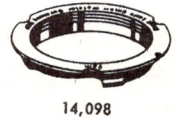
	14,017	ZOOUK	Long Focusing Mount ; accepts lens unit of 90mm Summicron lens for rangefinder-coupled operation on screw-mounting Leicas. (Lens unit must be sent to factory for custom fitting)	\$108.00
	14,019	ZOMUK	Long Focusing Mount ; accepts lens unit of 90mm Summicron lens for rangefinder-coupled operation on bayonet-mounting Leicas. (Lens unit must be sent to factory for custom fitting)	108.00
	14,018	ZOKEG	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.) . . .	43.50
	14,018	ZOKEM	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.)	43.50
	14,020	MOOSP	Extension Tube (15mm), fitting between 200mm Telyt and Visoflex for photography between 6 and 10 feet	3.90
			For use with same equipment listed for 200mm Telyt #11,063.	
	14,023	TZFOO	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	30.00
	14,024	TXBOO	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.	30.00
	16,508	UOORF	Adapter Fits lens unit of 50mm rigid-mount Summicron lens #11,118 50mm Dual-Range Summicron lens #11,318 to Close-Focusing Unit #16,507 or Auxiliary Reproduction Unit #16,526	3.60
	14,073		Long focusing mount , screw-mounting, parallel focusing, couples to rangefinder; adapting lens unit of short-mounted 135mm Elmar lens for use on Leica cameras with threaded lens flange. (Serial number of lens must be furnished with order)	43.50
	14,072		Long focusing mount , bayonet-mounting, parallel focusing, couples to rangefinder; adapting lens unit of short mounted 135mm Elmar lens for use on M Leicas (serial number of lens must be furnished with order).	43.50

Catalog Number	Code Word	Item	Retail Price
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14,097	IRZOO	Bayonet Adapter actuating the 50mm view- finder frame of the Leica M 2 and M 3 \$8.40 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 view- finder frame of the Leicas M 2 and M 3 8.40 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 view- finder frame of the Leica M 2 8.40 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 135 mm lenses with the M 2, since a built-in frame is not used for 135 mm lenses on this Leica. Except the 28 mm and certain older 35 mm and 50 mm lenses with a low infinity lock with which bayonet adaptor must be used. 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 6.30
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LEICA LENS DATA

Flange Length	Lens	Aperture Maximum	Aperture Minimum	Angle	Class	Mount	Focusing	Click Diaphragm	Coupling	Flange Diameter	Filter Designation	Weight Ounces	Minimum Focus	Approx. Min. Focus Area (in.)	Application	
21mm	Super-Angulon	f/4	f/22	92°	Wide Angle	Rigid 1	Rotating	Yes	Rangefinder	42mm	E39	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	A36	5.25	3.5'	34 x 51	Interiors Architecture Panoramic	
35mm	Summilux	f/1.4	f/16	64°	Wide Angle	Rigid 2, 4	Parallel	Yes	Rangefinder	43mm	E41	m-2.11 m-3.8	M2 3' M3 2' 2"	22 x 35 16 x 24	Interiors Architecture Panoramic	
35mm	Summaron	f/2.8	f/22	64°	Wide Angle	Rigid 1, 2	Parallel	Yes	Rangefinder	42mm	A36	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	E39	8.25	M2-2' 4" M3-2' 2"	17 x 25.5 16.2 x 24.5	Interiors Architecture Panoramic	
50mm	Elmar	f/2.8	f/16	45°	Standard	Collapsible†	Rotating	Yes	Rangefinder	42mm	E39	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	E39	8 & 8.25	3.5'	18 x 27	General Action Poor light Close-up	
50mm	Dual-Range Summicron	f/2	f/16	45°	Standard	Rigid 4	Parallel*	Yes	Rangefinder	42mm	E39	14.25 w/ o.v.a.	Normal 4" Close-up ⁵	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	E43	11.5	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 11.093 in Visoflex II only	43mm	E41	4 1/2 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	E58	21	5'	15.5 x 23	Existing light Fast action Portraiture	
90mm	Elmar	f/4	f/32	27°	Medium-Long focus	Rigid 4 & Collapsible	Rotating* & Parallel	No & Yes	Rangefinder (Note 8 is for Rigid Mount only)	36mm & 42mm	E39	7 & 9.5 & 12	3.5'	9.5 x 14.25	Animals Sports Landscapes Portraiture Close-up	
													In Viso. II 3' 4"	In Viso. II 8.75 x 13		
90mm	Elmarit	f/2.8	f/22	27°	Medium-Long focus	Rigid 1	Parallel	Yes	Rangefinder*	42mm	E39	11.5	3.5'	9.5 x 14.25	Animals Sports Landscapes Portraiture Close-up	
														In Viso. II 19.6		In Viso. II 3 x 4.7
90mm	Summicron	f/2	f/16	27°	Medium-Long focus	Rigid 1 Long	Parallel	Yes, incl. 1/2 stops	Rangefinder	63.5mm	E48	25	3.5'	9.5 x 14.25	Portraiture Theatrical Existing light	
90mm	Summicron	f/2	f/16	27°	Medium-Long focus	Rigid Short	Parallel	Yes, incl. 1/2 stops	Visoflex II only	63.5mm	E48	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	E58	20.5	4'	7.5 x 11.25	Portraiture Theatrical Existing light	
135mm	Elmar	f/4	f/32	19°	Long focus	Rigid 1 Long	Parallel*	Yes	Rangefinder*	36mm & 42mm	E39	13 & 15.5	5'	8.75 x 13		
135mm	Elmar	f/4	f/32	19°	Long focus	Rigid Short	Rotating*	Yes	Visoflex I & II 7, 8	36mm & 42mm	E39	8 & 8.25	5'	8.75 x 13	Animals Sports Distance Portraiture Close-up	
200mm	Telyt	f/4	f/22	12°	Tele-photo	Rigid Short	Parallel	Yes (Preset)	Visoflex I & II	65mm	E58	23	10'	11.75 x 17.75	Sports Wild life Distance Portraiture	
280mm	Telyt	f/4.8	f/32	8.5°	Tele-photo	Rigid Short	Parallel	Yes (Preset)	Visoflex I & II	65mm	E58	52.3	13'	12 x 18	Distance Wild life Sports	
400mm	Telyt	f/5	f/32	6°	Tele-photo	Rigid Short	Rotating*	No	Visoflex I & II 7	91mm	E85	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

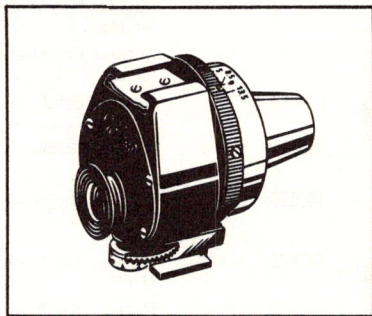
⁷ Visoflex II requires adapter

* 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 35mm (with "RF" attachment), 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.



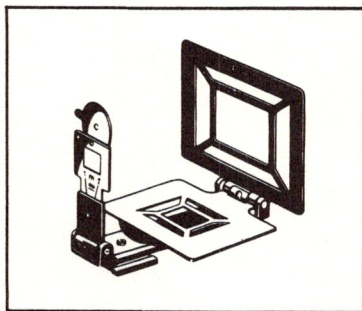
Imarect Universal Viewfinder.



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.

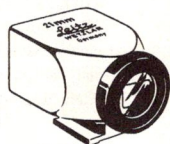


Universal Frame Finder.

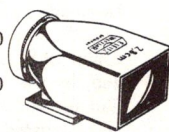
Leather cases for the various viewfinders are listed with the cases for other Leica equipment.

OPTICAL FINDERS

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
 12,005	12,000 VIOOH	Imarect Universal Viewfinder	\$63.00
	12,005 TUVOO	Adapter for Imarect Finder, adapting it for use with 28mm Summaron f/5.6 wide angle lens	18.50
	12,002 SBKOO	Optical Bright-Line Viewfinder for 21mm lenses	48.00
	12,007 SLOOZ	Optical Bright-Line Viewfinder for 28mm lenses	30.00
 12,010	12,010 SBLOO	Optical Bright-Line Viewfinder for 35mm lenses	28.50
	12,015 SBOOI	Optical Bright-Line Viewfinder for 50mm lenses	16.50
	12,020	Optical Bright-Line Viewfinder for 85mm lens	21.90
	12,025 SGVOO	Optical Bright-Line Viewfinder for 90mm lenses	21.90
 12,025	12,030 SHOOC	Optical Bright-Line Viewfinder for 135mm lens	21.90
	14,316 OIDYO	Optical Bright-Line Viewfinder for Stemar Stereo attachment	21.90



12,002




12,007



12,015

FRAME FINDERS

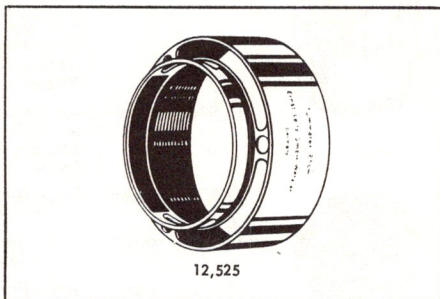
 12,035	12,035 SFTOO	Sports Frame Finder for 200mm lens	25.50
	12,037 SQTOO	Sports Frame Finder for 400mm lens	25.50
	12,040 ROSOL	Universal Frame Finder for 50mm, 90mm and 135mm lenses	16.50



12,030

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.



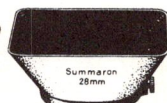
12,525

HOODS FOR CURRENT BAYONET-MOUNTING AND SCREW-MOUNTING LENSES

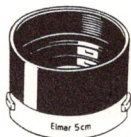
Catalog Number	Code Word	Item	Retail Price
12,502	IKKOO	Lens Hood for all 21mm f/4 Super Angulon Angulon lenses	\$ 6.60
12,500	SOOBK	Lens Hood with clamping screw for 28mm Summaron lens	5.70
12,522		Lens Hood for Summilux f/1.4 (as replacement)	7.80
12,571	IROOA	Lens Hood with clamping device for all 35mm and 50mm Summicron lenses, all bayonet-mounting 35mm Summaron and current screw-mounting lenses with 42mm front diameter. Also the discontinued 50mm Summarit	5.70
12,520	XOONS	Lens Hood with clamping screw for all 50mm Summarit lenses	5.70
12,521	XOOIM	Lens Hood for all 50mm Summilux f/1.4 lenses (as replacement).	5.70
12,525	ORQPO	Lens Hood with bayonet fitting for 85mm Summarex lens (as replacement)	9.00
12,575	IUF00	Lens Hood with clamping device for bayonet-mounting 90mm Elmarit, 90mm Elmar and 135mm Hektor lenses with 42mm front diameter	7.50
12,532	HKMOO	Lens Hood with bayonet fitting for 125mm Hektor lens (as replacement)	9.00



12,502



12,500



12,580



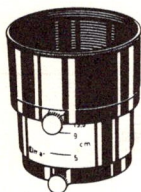
12,575



12,510

HOODS FOR DISCONTINUED LENSES

12,505	FOOKH	Lens Hood with clamping screw for screw-mounting 35mm Summaron and Elmar lenses with 36mm front diameter only	5.70
12,510	FISON	Lens Hood with clamping screw for screw-mounting 50mm Elmar f/3.5 lens with 36mm front diameter	5.70



12,530



16,620

Catalog Number	Code Word	Item	Retail Price
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	\$7.80
12,530	FIXUS	Adjustable Lens Hood with clamping screw for screw-mounting 50mm and 90mm Elmar and 135mm Hektor lenses with 36mm front diameter	10.80
12,527	HMOOD	Lens Hood for 90mm Summicron f/2 lens (for former models only)	9.60
12,535	TNGOO	Lens Hood with clamping screw for 200mm Telyt lens (for former models only)	7.50
12,540	TMEOO	Lens Hood with clamping screw for 400mm Telyt lens (former models only)	15.00
14,313	OIGEO	Stereo Lens Hood with bayonet fitting for 35mm Stemar stereo lens	9.60

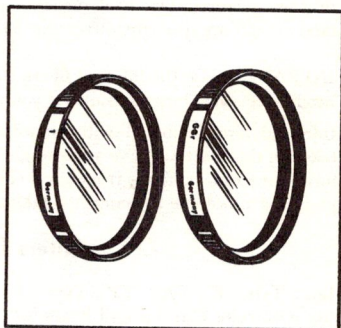
(For Front Lens Hood Caps, See P. B21)

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 underexposed 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.

RED. The red filter is for extreme contrast effects such as black skies against white clouds. It is similar to, but stronger in effect than the orange filter. Normally it should not be used for pictures of people since it will produce chalk skin tones and "washed-out" lips. The factor for this filter varies widely with the type of film and lighting used, and so bracketed exposures are recommended using a series of factors such as 6, 12, 24.

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. Finally it makes a good lens protection cover when there is danger that dust, sand or salt spray might affect the lens surface.

INFRARED. Use the infrared filters (medium or dark) with infrared film only. It is very dark and needs excessively long exposures if you use it 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 reddish-ness which results when you use Type "F" film with photofloods.

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

TYPE "FP" (mount engraved "FP"). This permits you to use Type "F" Kodachrome or Ektachrome 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	FILTER ¹ FACTORS	A-36**		E-39**		E-41**		E-43**		E-48**		E-58**		E-85**	
		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 Summarit‡‡ 50mm Summicron 90mm Elmar‡ 90mm Summarit‡ 135 Hektor‡				35mm Summilux 50mm Summarit 65mm Elmar		50mm Summilux		90mm Summicron 90mm Thambar 200mm Telyt f/4.5		85mm Summarex 125mm Hektor 200mm Telyt f/4 280mm Telyt		400mm Telyt
Mounting Methods	***	Clamping-Screw		Screw-In		Screw-In		Screw-In		Screw-In		Screw-In		Screw-In	
Yellow O (light)	1.5	13,000 FIHEL	\$ 7.50	13,081 HOAR	\$ 7.20	13,155 XOOPT	\$ 8.40			13,290 POOAH	\$ 9.00	13,230 UPOOZ	13,500	13,291 TFOOG	\$27.00
Yellow I (medium)	1.5 - 2	13,005 FIGRO	7.50	13,086 HOBE	7.20	13,160 XOOGG	8.40	13,161 YCGOO	\$ 8.40	13,295 POOBV	9.00	13,235 UQMOO	13,500	13,296 TFSOO	27.00
Yellow-Green (medium)	2 - 3	13,015 FIPOS	7.50	13,096 HOFG	7.20	13,170 XOOSH	8.40	13,171 YELOO	8.40	13,305 POODW	9.00	13,245 UROOX	13,500	13,306 TIYOO	27.00
Blue (medium)	1.5	13,020 BQCOO	7.50	13,098 HOOKI	7.20	13,172 XQOOE	8.40	13,173 YMOOL	8.40	13,307 POOCQ	9.00				
Orange (medium dark)	3 - 5	13,025 PSEGO	7.50	13,101 HOOGU	7.20	13,175 XOOZY	8.40	13,176 YLXOO	8.40	13,310 POOKZ	9.00	13,250 USOOV	13,500	13,311 TEQOO	27.00
Red (dark)	6 - 25	13,040 FEDOO	7.50	13,116 HOOCs	7.20	13,190 XOOUI	8.40	13,191 YGPoo	8.40	13,315 POOGL	9.00	13,255 USQOO	13,500	13,316 TGUOO	27.00
Infrared (dark)	6 - 100 ²	13,050 FEOOG	7.50	13,126 HOoET	7.20	13,200 XOOWK	8.40	13,196 YHROc	8.40	13,325 POOHY	9.00	13,265 UTSOO	13,500	13,326 THWOO	27.00
UVa Absorption (colorless)	1.2	13,055 FIOLA	7.50	13,131 HOoIV	7.20	13,205 XOoYL	8.40	13,206 YMOZOO	8.40	13,330 POoFX	9.00	13,270 UVOoF	13,500	13,331 TIooD	27.00
Type "F"		13,061 FKDELm	9.00	13,138 FKDSMI	9.00	13,216 FKDSMT	10.20	13,217 YFOOOO	10.20	13,336 FKDTEL	12.30	13,276 FKDSAX	17.70		
Photoflood		13,065 FKLO	9.00	13,141 FIFLOMI	9.00										
Type "FP"		13,071 FPKELM	9.00	13,148 FPKSMI	9.00	13,226 FPKSMT	10.20	13,227 YFPOOO	10.20	13,346 FPLTEL	12.30	13,286 FPKSAX	17.70		
Type "A"		13,060 FIKAT	9.00	13,136 FIDAYMI	9.00	13,215 XOOAY	10.20	13,218 YAOOOO	10.20	13,335 POoAY	12.30	13,275 USoAY	17.70		
Flash		13,070 FICHR	9.00	13,146 GCHROMI	9.00	13,225 XOF LA	10.20	13,228 YFLASH	10.20	13,345 POFLA	12.30	13,285 USFLA	17.70		
Skylight		13,075 FISKF	9.00	13,151 GCSKYMI	9.00	13,220 XOSKY	10.20	13,221 YSKYLI	10.20	13,340 POSKY	12.30	13,280 USSKY	17.70		
Polarizing (engraved mount)	2.5 - 3	13,350 POOEL	24.00	13,356 POOTR†	27.60	13,360 XQOO	25.50	13,351	27.60						
Polarizing (sawing-out mount)	2.5 - 3			13,396 FISUMMT†	37.50		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 screw.

† Cannot be used with 28mm or 21mm lenses, with or without adapter. †† With 36mm flange diameter. ††† With 42mm flange diameter. ‡ E-39 filters to be used on the 50mm Summarit lens

**Letters designate: A = Slip-on; E = Screw-in. Numbers show the outer flange diameter of lenses accepting slip-on filters, or the outer thread diameter of screw-in filters. ‡‡ E-39 filters to be used on the 50mm Summarit lens must have adapter #13,078.

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

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

¶ Slip-on type for Summarit

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 Summar, 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	\$ 4.95
		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 Summarit filters or screw-in and bayonet type Summarit filters to lenses with a 36mm outside diameter	4.95
13,077	SOEY	Filter Adapter fitting screw-in type Summarit or Summarit filters to lenses of 42mm diameter	3.75
13,078	SNHOO	Adapter Ring to adapt screw-in type Summicron filters for use on Summarit lenses	3.30
16,621	VOOLA	Diaphragm Adjusting Adapter for screw-mounting 50mm Elmar lens. Permits adjustment of diaphragm with slip-on filter in position	1.20



16,621

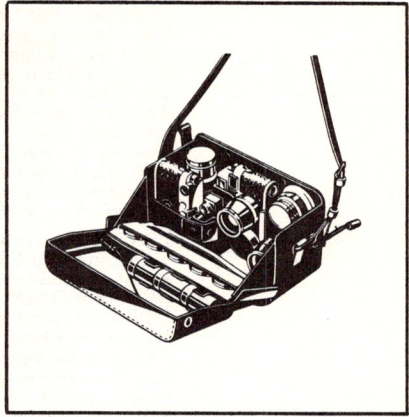
SPECIAL FILTERS

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	4.80
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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.

LEITZ CAMERA CASES

Catalog Number	Code Word	Item	Retail Price
14,501	EFOOS	Eveready Case for Leica Ig with 50mm Elmar f/3.5 or f/2.8 lens and detachable viewfinder	\$14.10
14,523	ENOUR	Eveready Case for Leica IIIg with 50mm Summicron or Elmar lenses	14.10
14,536	ELOOP	Eveready Case for Leica IIIg with any 50mm lens and fitted with Leicavit Rapid Winder . .	15.00
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	21.60
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	17.40
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"	20.40
14,532	EDFOO	Eveready Case for Leica IIIg with any 50mm lens and Leica-Meter attached	16.50
14,531	IPOOM	Eveready Case for Leica M2 or M1 fitted with Leicavit Rapid Winder	21.60
14,518	MBROO	Eveready Case, metal, water- and shock-resistant; for If, IIf, IIIf Leica cameras with 50mm Summicron lens.	18.00
14,820		Combination Case, for Leica M2 or M3 and 35, 50, and 90mm or 50, 90 and 135mm lenses	37.50



14,523



14,528

Catalog Number	Code Word	Item	Retail Price
14,803		Universal Carrying Case II with Insert I, accommodating 1 Leica M with Leica Meter and a lens of 35 or 50mm focal length with lenshood, 1 Elmar or Elmarit 90mm Lens, 1 Hektor or Elmar 135mm or a Summicron 90mm lens. One lens of 28 up to 50mm focal length. The 21mm lens and the suitable lenshoods for all above. There is room for a second camera housing or a synchronised flash unit (CEYOO, CHICO). A leather container included in the Universal Carrying Case II takes 3 filters of the type A 36, E 39, or E 41a.	\$90.00
14,804		Universal Carrying Case II with Insert II, accommodating 1 Leica Model M with Visoflex II, intermediate ring OUBIO and focusing thread OUAGO or OTZFO, 1 each intermediate ring OTSRO, OTRPO and the 65mm lens, 1 135mm lens or the Elmarit 90mm with lenshood, 1 Telyt 200mm or the Summicron f/2 90mm. The 35mm lens fits the front pouch of the carrying case or in case the 200mm lens is not included, the 35mm lens can be fitted in its place. The leather container for the filters has room for 3 filters of the sizes A 36, E 39, or #41	96.00
14,806		Universal Carrying Case II, with Insert III. Insert III is interchangeable with other inserts for Universal Case and fitted for: Leica IIIg or other screw mounting Leicas with 50mm lens and attached exposure meter, 3 accessory lenses of from 28mm to 90mm focal lengths, the Elmar 135mm lens, one reflecting viewfinder, Imarect Universal viewfinder, a second body or flash unit	84.00
COMPONENT PARTS			
98,860		Universal Carrying Case II, without insert. . .	60.00
14,813		Insert I for Universal Carrying Case II	30.00
14,814		Insert II for Universal Carrying Case II	36.00
14,812		Insert III for Universal Carrying Case II (same as supplied heretofore)	24.00
14,094	DXOOK	Shoulder Grip for strap of Eveready case. Will fit carrying straps up to 1/2 inch wide . . . . .	.75

Note:

The new Universal Carrying Case II will accept inserts of the former type #14,810 #14,811 and #14,812.

The Universal Carrying Case I will not accept the new inserts #14,813 nor #14,814.

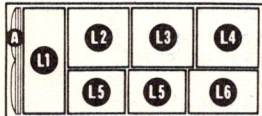
ORIGINAL BENSER CARRYING CASE SYSTEM

<i>Catalog Number</i>	<i>Item</i>	<i>Retail Price</i>
98,800	"Original Benser" Combination Carrying Case, top quality leather but without inserts .	\$24.00
98,811	Insert L1 for Benser Carrying Case. Holds all Leica bodies, including the M2 and M3 with Leica-Meter MC	2.85
98,812	Insert L2 for Benser Carrying Case. Top section holds any wide angle lenses with lens hood. Bottom sections holds 21mm and viewfinder, or any short focus lens without lens hood	4.80
98,822	Insert L2A for Benser Carrying Case. Top section holds 65mm Elmar or 90mm Elmarit lens hood with OTZFO; or 90mm Elmarit lens hood with OTRPO. Bottom section, 135mm Hektor or Elmar lens unit plus OTERO; or 90mm plus OTZFO	6.45
98,813	Insert L3 for Benser Carrying Case. Top section holds all 50mm lens with lens hood or any shorter focused lens. The bottom section holds any short focused lens up to 50mm without hood.	4.35
98,814	Insert L4 for Benser Carrying Case. Holds either the 90mm Elmar, 90mm Elmarit with lens hood or the 135mm Hektor or Elmar with lens hood reversed	4.35
98,815	Insert L5 for Benser Carrying Case. Holds six films on either metal or cardboard containers.	3.90
98,816	Insert L6 for Benser Carrying Case. Top section holds Leica-Meter MC, Optical viewing unit for 50mm Dual-Range Summicron, and dust brush. The bottom section holds one roll of film or Imarect viewfinder	4.35
98,817	Insert L7 for Benser Carrying Case. Top section holds any of a number of current photoelectric exposure meters. The bottom section, the Imarect Viewfinder	4.35
98,818	Insert L8 for Benser Carrying Case. Holds 35mm "RF" Summaron lens for M3 plus Optical Viewing Unit for 50mm Dual-Range Summicron and Leica-Meter MC in top section. The bottom section takes 90mm lenses (Except 90mm Summicron) without lens hood and one roll of films	7.20
98,819	Insert L9 for Benser Carrying Case. Holds 90mm Summicron lens and one roll of film.	7.20
98,820	Insert L10 Benser Carrying Case. Top section holds Visoflex II including magnifier. The bottom section holds the 135mm Hektor or Elmar in short mount with OTSRO	7.35
98,821	Insert L11 Benser Carrying Case. Holds the 200mm Telyt lens with OUBIO and four filters	7.35
98,824	Filter A Insert, accepts 6 Filters	1.35
98,825	Filter Wallet, accepts 4 Filters . . . . .	.90
98,801	"Original Benser #1" Combination Carrying Case with basic M2 insert set 1, L1, L2, L3, L4, L5, L6, L5 & filter case	52.50

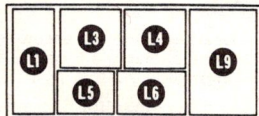
- 98,802 "Original Benser #2" Combination Carrying Case, with M2 90mm Summicron insert set II, L1, L3, L4, L5, L6, L9. \$51.00
- 98,803 "Original Benser #3" Combination Carrying Case, with basic M3 insert set III, L1, L3, L4, L5, L5, L8 & filter case 50.55
- 98,804 "Original Benser #4" Combination Carrying Case, with M3 90mm Summicron insert set IV, L, L4, L5, L8, L9 49.50
- 98,805 "Original Benser #5" Combination Carrying Case, with basic Visoflex II insert set V, L, L2a, L5, L10, L11. 51.90

"FLOOR PLANS" OF BENSER CARRYING CASE OUTFITS

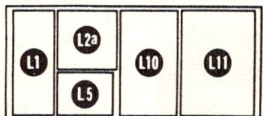
M 2 Outfit (# 98,801)



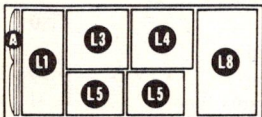
M 2 Outfit w/90mm f/2 (# 98,802)



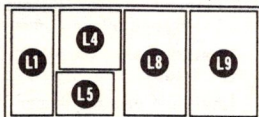
Visoflex II Outfit (# 98,805)



M 3 Outfit (# 98,803)



M 3 Outfit w/90mm f/2 (# 98,804)



INSERT GROUPS for popular combinations of Leica equipment are available with basic case. In groups where Filter Insert (A) is eliminated, filters are carried in either L9 or L11, since both have special compartments for this purpose. Many inserts accept equipment alternate to that specifically listed below.

GUIDE TO BENSER CASE INSERTS

INSERT	UPPER SECTION	LOWER SECTION
A	Six Leitz filters of various diameters.	None.
L1	Leica Models through IIIg; also M1, M2 and M3 with Leica-Meter M or MC attached.	None.
L2	35mm Lens (except "RF" Models) with lens hood attached.	21mm or 28mm Leitz lenses and special Viewfinders, but without lenshood. Removeable partition keeps finder from touching lens. Or 35, 50mm or collapsible 90mm Elmar (all without hoods).
L3	50mm or shorter lens with lens hood attached. Also 90mm Elmar f/4 collapsible in collapsed position with reversed lens hood.	Shorter lenses through 50mm, but without lens hood attached. Or 90mm collapsible-mount Elmar.
L4	90mm rigid-mount Elmar or Elmarit or 135mm Hektor or Elmar lens with lens hood reversed.	None.
L5	Holds four film cartridges in metal can or five in foil or cardboard tubes. Cans with exposed film should be reversed when replaced in inserts.	None.
L6	Leica-Meter MC and Optical Viewing Unit of 50mm Dual-Range lens plus dust brush.	Imarect viewfinder or extra cartridge or swing-out polarizing filter.
L7*	Weston Master II, Norwood and other photo-electric meters.	Imarect viewfinder, extra film or other small accessories.
L8**	35mm "RF" Summaron for M3, or 50mm lens plus Optical Viewing Unit for Dual Range Summicron and Leica-Meter "MC".	90mm long-mount lens (except Summicron f/2), without lens hood and in horizontal position; or 50mm Summicron with reversed lens hood plus one film. Or 65mm lens with OTZFO or 90mm collapsible lens, collapsed, with reversed hood.
L9**	90mm Summicron (side compartment holds filter wallet or five films without cans).	None.
L10**†	Visoflex II, including magnifier.	135mm Hektor or Elmar lens unit plus OTSRO and OTZFO plus reversed lens hood. Or 65mm or 90mm Elmarit lens unit plus OTZFO.
L11**†	200mm Telyt plus OUBIO plus four filters.	None.
L2a†	65mm Elmar or 90mm Elmarit lens unit with OTZFO; or 90mm Elmarit lens unit with OTRPO.	135mm Hektor or Elmar lens unit plus OTSRO; or 90mm plus OTZFO.

*Replacement for L6 if no "MC" meter is used, or if meter is left on camera body and second meter is carried.

**This insert is full width of the case and is generally used in place of L2, plus L5 or L6.

†For use when assembling Visoflex outfit in case.

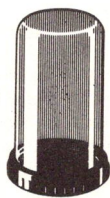
LENS CASES

Catalog Number	Code Word	Item	Retail Price
14,550	ETILA	Leather Case for screw-mounting 28mm Summaron or Hektor, 35mm Summicron, Summaron or Elmar lens	\$4.20
14,552	ESCOG	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	9.90
14,560	ETIME	Leather Case for screw- or bayonet-mounting 50mm Elmar f/3.5 or f/2.8 lens in collapsed position.	4.20
14,565	ETBIX	Leather Case for 21mm Super Angulon, 50mm Summitar, Summicron or Summarit lens.	4.20
14,627	COONH	Leather Case for Optical Viewing Unit of Dual-Range 50mm Summicron.	4.80
14,566	EKOOL	Leather Case, for 50mm Summilux f/1.4 lens	6.00
14,570	ENOOV	Leather Case for 85mm Summarex lens.	11.40
14,572	EZOOW	Leather Case for 90mm Summicron lens	9.00
14,574	ETISE	Leather Case for screw and bayonet-mounting rigid 90mm Elmar and Elmarit lenses.	8.40
14,576	ETONO	Leather Case for 90mm Elmar collapsible lens	8.40
14,573	CPOOQ	Leather Case for 90mm Elmar collapsible lens, lens hood and two filters	16.50
14,577	EZDOO	Leather Case for 125mm Hektor lens	8.10
14,580	ETIPO	Leather Case for 135mm Hektor lens	9.00
14,585	EMTOO	Leather Case for Visoflex I or II with short-mounted 125mm Hektor, 135mm Hektor in short-mount or 200mm Telyt lenses. Specify for which Visoflex housing and which 200mm Telyt	37.50
14,587	EMQOO	Leather Case for 400mm Telyt lens, Visoflex I or II housing and Leica camera with double cable release and two filters	90.00
14,320	OIBUO	Leather Case fitted for screw-mounting Stemar, Stereo Prism, Stereo Viewer, and Stereo lens hood.	24.00
14,321	OIBOM	Leather Case fitted for bayonet-mounting Stemar, Stereo Prism, Stereo Viewer and Stereo lens hood.	24.00
14,602	BHOOV	Plastic Case for screw-mounting 21mm f/4 Super Angulon lens	3.00
14,603	PNLOO	Plastic Case for bayonet-mounting 21mm f/4 Super Angulon lens	3.00
14,590	BOORW	Plastic Case for screw-mounting 28mm Hektor, 35mm Elmar or Summaron or 50mm Elmar f/3.5 lens.	2.40
14,595	POLMO	Plastic Case for bayonet-mounting 35mm Summaron lenses without "RF" viewing unit.	2.40



14,560

Catalog Number	Code Word	Item	Retail Price
14,600	BOOSK	Plastic Case for screw-mounting 50mm Summarit, Summicron or Summarit lens	\$2.40
14,601	POLWO	Plastic Case for bayonet-mounting 50mm Elmar, Summicron or Summarit lens	2.40
14,605	BOOPV	Plastic Case for screw-mounting 90mm Elmar lens	3.30
14,606	POLYO	Plastic Case for bayonet-mounting 90mm Elmar collapsible lens	2.40
14,607	POLXO	Plastic Case for bayonet-mounting 90mm Elmar rigid lens	3.30
14,610	BDOOZ	Plastic Case for screw-mounting 135mm Hektor lens	3.30
14,611	POLZO	Plastic Case for bayonet-mounting 135mm Hektor lens	3.30



14,605

FILTER CASES

14,604		Plastic Filter Box for filter E39 . . . . .	.90
98,052		Plastic Filter Box for filter E41 . . . . .	.90
98,053		Plastic Filter Box for filters A36 and E43 . . . . .	.90



14,604

FINDER CASES

14,615	EBOOH	Leather Case for Imarect viewfinder	3.00
14,617	COOPB	Leather Case for 21mm or 28mm Optical Bright-Line viewfinder	2.40
14,620	COOXN	Leather Case for 35mm Optical Bright-Line viewfinder	2.40
14,625	COOYA	Leather Case for 50mm Optical Bright-Line viewfinder	2.40
14,630	CPBOO	Leather Case for 85mm, 90mm, or 135mm Optical Bright-Line viewfinder	2.40
14,635	RWBOO	Leather Case for Universal Frame Finder	2.40



14,625

ACCESSORY CASES

14,640	EHLOO	Leather Case for rangefinder FOKOS	2.40
14,645	APOOM	Leather Case for self-timer	1.50
14,643	EXPOO	Leather Case for Close Focusing Device #16,503 for Leica IIIg	4.80
14,650	UYOOO	Fiber Case for Bellows Focusing Device and accessories	27.00

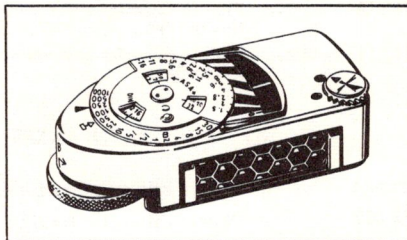
EXPOSURE METERS

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.	25.50
14,230	METTNC	Leica-Meter 3 without booster cell, but with incident light attachment, retainer plate, carrying chain and Eveready case.	19.50
14,232	MBOOWT	Booster Cell for Leica-Meter 3 (or 2) with leather case.	7.50
14,202	MBOOC	Booster Cell for Leica-Meter "MC" with case and incident light attachment.	7.50

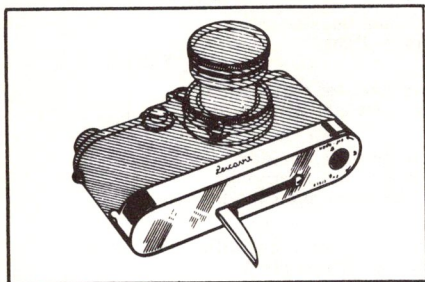
Replacement and Accessory Parts

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	METML	Incident Light Attachment for Leica-Meter 2 and 3. . . . .	.75
14,234	METBIL	Incident Light Attachment for booster cell of Leica-Meter 3 (or 2) . . . . .	.90
14,235	METRPC	Retaining Plate and carrying chain for Leica-Meter 3. . . . .	.75
14,209	EDOOF	Leather Case for Leica-Meter "MC"	4.20
14,239	METECT	Eveready Case for Leica-Meter 3	1.80
14,238	METCBT	Case for Leica-Meter 3 (or 2) and Leica-Meter "MC" booster cell . . . . .	.90
14,012	CLIPP	Shoe for mounting Leica-Meters (except models "M" and "MC") on cameras of larger size.	1.65

ATTACHMENTS

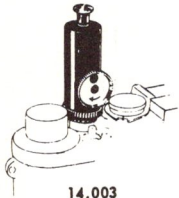


(Small Accessories)

Leicavit Rapid Winder.

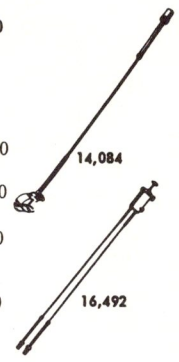


The Leica System of Photography gets its tremendous versatility from the many well-engineered accessories which it offers you. There is hardly a field of photography in which you cannot excel with your Leica. The many accessories available to the Leica owner are for handling those unusual or specialized 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	\$12.80
	14,003	APDOO	Self-Timing Device without case	11.10
	14,645	APOOM	Leather Case for Self-Timing Device.	1.50
14,003	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	6.00
	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)	48.00
	14,008	SMYOM	Leicavit Rapid Winder for M2 or M1 (cannot be used on Leica M3)	51.00
	14,011	FOKOS	Rangefinder for Leica Ig or If; chrome finish.	22.50
	14,012	CLIPP	Shoe for mounting rangefinder #10,025 on cameras of larger size	1.65
14,011	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.	2.40
	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, IIf, IIIb, IIIc and IIIf (11mm diameter).	3.00
	14,021	SVOOP	Take-up Spool with pop-up knob for If, IIf, and IIIf and earlier Leica cameras	3.30
	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).	3.30
	14,070	FINOT	Cable Release (10 inches) with locking screw for all Leica cameras except bayonet-mounting models	1.80
14,070	14,067	FONOT	Cable Release (10 inches) with locking screw for bayonet-mounting Leica models	1.50

Catalog Number	Code Word	Item	Retail Price
14,075	OPKOM	Cable Release (20 inches) with locking screw for all Leica cameras except bayonet-mounting models	\$ 2.40
14,080	FIDRI	Cable Release (10 feet) for all screw-mounting Leica cameras	10.50
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)	2.40
16,492	OZWTO	Double Cable Release for Visoflex I and any screw-mounting Leica	10.80
16,491	OZTOM	Double Cable Release for Visoflex I and bayonet-mounting Leica models	10.80
16,493	OZIVO	Release Coupling for Visoflex I and any screw-mounting Leica. Single-button hand or cable release operation	15.00
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.	2.40
14,092	TSOOU	Adjustable Neck Strap for all Leica cameras	1.80
98,050		Deluxe Neck Strap, for all Leica Cameras, and with quick release safety clips.	5.40
14,110	TOOQE	Table Tripod with small ball-and-socket tripod head	16.50
14,100	TOOUG	Table Tripod without ball-and-socket head . .	7.50
14,105	FOOMI	Ball-and-Socket Tripod Head, small	9.00
14,115	KGOON	Ball-and-Socket Tripod Head, large rigid construction, with built-in adapters for European and ASA Tripod Threads	15.00



CORRECTION LENSES

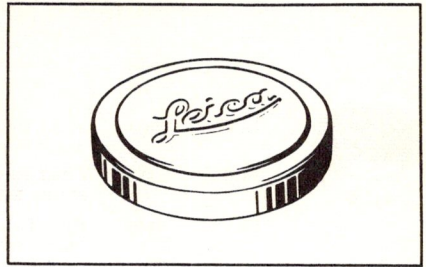
When ordering correction lenses it is necessary that prescription be provided for the eye used.

14,060	OPRTO	Correction Lenses for Leica models IIIb, IIc, IIIc, IIIf, and IIIf. To correct near and far sightedness.	10.50
14,065	OPSVO	Correction Lenses for Leica models IIIb, IIc, IIIc, IIIf, and IIIf. To correct astigmatism . . .	11.50
14,064	OKBZO	Correction Lenses for Leica model IIIg. To correct near and far sightedness.	10.50
14,066	OKVCO	Correction Lenses for Leica model IIIg. To correct astigmatism	13.00
14,061	ORTOX	Correction Lenses for Leica M 2 and M 3. To correct near and far sightedness	10.00
14,062	ORLEO	Correction Lenses for Leica M 2 and M 3. To correct astigmatism	15.00
14,063	OQZIO	Correction Lens for 4X-45° magnifier #16,487 and 5X wide-field magnifier #16,486 to correct near-and-far sightedness.	9.00

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

Catalog Number	Code Word	Item	Retail Price
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 with 36mm flange diameter	\$1.65
14,030	ORSTO	Front Lens Cap, chrome plated, fitting 50mm Summitar lens	1.65
14,031	ORQDO	Front Lens Cap, chrome plated, fitting 50mm Summicron and all Leica lenses with 42mm flange diameter	1.65
14,032		Front Lens Cap, screw-in type. Fits lenses with 42mm front diameter	1.95
14,078		Front Lens Cap, Plastic for 35mm f/1.4 Summilux, f/1.4 lens. (fits front lens flange not lens hood)	1.50
14,035	ORXDO	Front Lens Cap, chrome plated, for 50mm Summarit lens	1.65
14,036	ORNIO	Front Lens Cap, chrome plated, for 50mm Summilux, f/1.4 lens. (Fits front lens flange, not lens hood)	1.65
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
14,037	OROBA	Front Lens Hood Cap, plastic (45mm diameter). Fits lens hood #12,521 for 50mm Summilux reversed on lens for carrying or storage . . . . .	.45
14,034	ORCAP	Front Lens Cap, chrome plated, for 65mm Elmar lens (as replacement)	1.20
14,027	OQYGO	Front Lens Cap for 90mm Summicron f/2 lenses with serial numbers below 1,651,000 . .	1.50
14,028	ORSTO	Front Lens Cap for 90mm Summicron f/2 lenses with serial numbers 1,651,000 or over . .	1.95
14,040	ORPNO	Front Lens Cap, chrome plated, for 85mm Summarex and 125mm Hektor lenses	1.95
14,044	ORZIT	Front Lens Cap, chrome plated, for 200mm f/4 Telyt lens	2.40
14,045	TNOOZ	Front Lens Cap, black finish, for 200mm f/4.5 Telyt lens	1.65
14,079		Front Lens Cap, for 280mm f/4.8 Telyt lens	3.30

REAR COVERS



14,050

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
14,046	TNOOQ	Front Lens Cap, black finish, for 400mm Telyt lens	\$3.30
14,047	OIWKO	Front Lens Cap, chrome plated, for Stemar stereo attachment.	3.00
14,042	IROOW	Rear Lens Cap for bayonet-mounting 21mm Super Angulon lens and Stemar lenses	2.55
14,048	OIXMO	Rear Lens Cap, for screw-mounting 21mm f/4 Super Angulon lens. (Will also fit screw-mounting "STEMAR")	2.55
14,050	ORYFO	Rear Lens Cap, chrome plated, for all screw-mounting Leica lenses (except 21mm lenses) and Visoflex	1.65
14,051	IZQOO	Rear Lens Cap, plastic, for all bayonet mounting lenses (except 21mm lens) and Visoflex	1.65
14,151	IZMOO	Rear Lens Cap, chrome plated, for all bayonet-mounting lenses (except 21mm lens) and Visoflex	2.55
14,059		Rear Lens Cap, for 65mm Elmar . . . . .	.45
14,053	HGOOI	Rear Lens Cap, chrome plated (large diameter), for 125mm Hektor; fitting inverted lens hood	2.70
14,052	OIZQO	Rear Dust Cap for Stemar Stereo Prism Attachment	1.80

CAMERA COVERS



14,055

14,055	ORTVO	Lens Opening Cover, chrome plated, for Leica cameras having threaded lens flange	1.65
14,056	IVZOO	Lens Opening Cover for Leica cameras having bayonet-type lens flange.	1.65



14,056

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
E. Leitz, Inc.
468 Park Avenue South
New York 16, N. Y.

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3 years (twelve issues).....	2.50
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(No 3-year subscription available)	

The English edition of the German magazine LEICO FOTOGRAFIE, published six times a year in Germany may be obtained from:

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LEICA FOTOGRAFIE

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3 years (18 issues).....	12.00

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BOOKS

More books have been published, in English and foreign languages, on the Leica and its use than on any other camera. The more outstanding of these are listed here and you may get them from your *Leica Dealer*. Do not write to E. Leitz, Inc.

Catalog Number	Code Word	Item	Retail Price
98,011	LIMAN	Leica Manual and Data Book. (New 14th Edition, published May 1961). 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.....	\$ 6.95

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
98,014	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
98,016	TLWAME	The Leica Way by Andrew Matheson. A 431-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; 32 pages of tables and formulas. Fifth Edition; cloth bound . .	5.40
98,017		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
98,026	LIPPHS	The Leica in Professional Practice by Heinrich Stockler. A compilation by the editor of <i>Leica Fotografie</i> 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
98,024		Leica Instruction Book for model M 2 . . . . .	.35
98,022		Leica Instruction Book for model M 3 . . . . .	.35
98,023		Leica Instruction Book for Model IIIg . . . . .	.35

FREE PRODUCT LITERATURE AVAILABLE ON REQUEST

SCHIANSKY TRIPODS

Many 35mm photographers never realize how good their lenses really are until they shoot pictures from a tripod. Slight camera movement in hand-held photos sometimes unnoticed in the contact print, could destroy definition in the enlargement.

To be practical as well as useful, a tripod must have three characteristics: lightness, rigidity and versatility. Schiansky tripods, well-known the world around, have all three — and there are eight models to suit any individual equipment from subminiature to studio view camera.

"C" — Beam Construction

The heart of the light-yet-rigid construction of the Schiansky designs are the seamless C-beams used as upper leg section. These make possible the quick-flip locking levers which wedge the conventional tubular lower leg sections into position at any height. The "S" models carry an additional tubular section which can be extended to provide extra height.

The Schiansky lever-locks, unlike ordinary threaded locking collars, can't clog with dirt or jam because of corrosion.

Schiansky tripods also feature a reversible elevator column for added height. For extremely low-level shots, the column can be reversed and the camera attached almost at ground level.

Tripod Accessories

A wide array of Schiansky-designed accessories are available to extend the uses of the tripods.

Among them are ball-socket heads, pan-and-tilt heads, a copying bracket which converts the tripod to a copy stand, a projector platform to hold slide projectors, a three-wheeled "dolly" for easy movement of large studio cameras or for follow-along sequences of action when shooting movies. An array of zippered tripod cases with shoulder straps and hand straps is also available.

Catalog Number	Code Word	Item	Retail Price
96,001		Junior Tripod 121, a full-scale precision tripod with all features suitable for miniature, reflex and medium-size cameras up to 2¼ x 3¼ inches. Fitted with non-sliding rubber tips. Weight 25½ ounces; length 18 inches, extending to 44½ inches. Uses Tripod case 126SN. . .	\$19.50
96,002		Junior Tripod 121S, similar to model 121, but with an extra extension of the bottom section. Weight 31 ounces; length 18 inches, extending to 56 inches. Uses Tripod case 126SN	24.90
96,003		Channel Section Tripod 161, weighing only 33½ ounces, exceptionally light for its size, a universal tripod for the amateur, suitable for still cameras up to 2¼ x 3¼ inches and 8mm cine cameras. Convertible steel/rubber tips. Weight 33½ ounces; length 22½ inches, extending to 57 inches. Uses Tripod case 166SN	25.50
96,004		Channel Section Tripod 161S, the same as 161 with extension, this tripod is ideal for 8mm. Convertible steel/rubber tips. Weight 39 ounces; length 22½ inches, extending to 74 inches. Uses Tripod case 166SN	31.50
96,005		Super Tripod 191, for the advanced amateur and professional photographer, taking still cameras up to 5 x 7 inches and 8 and 16mm. cine cameras. An adjusting ring in the tripod head prevents the legs from splaying out, and permits a 3 position choice of leg angle, Convertible steel/rubber tips. Weight 56 ounces; length 24½ inches, extending to 62 inches. Uses Tripod Case 196SKN or 196SGN	43.50
96,006		Super Tripod 191S, extra extension make this model a real super-tripod. The ideal cine tripod for 16mm. cameras. Convertible steel/rubber tips. Weight 63½ ounces; length 24½ inches, extending to 79 inches. Tripod case 196SKN or 196SGN	49.50
96,007		Short Channel-Section Tripod 149, exceptionally short, this tripod will go into any brief-case, as it has three telescoping channels. Conventional steel/rubber tips. For cameras up to 2¼ x 3¼ inches and for 8mm. cine cameras. Weight 46 ounces; length 17 inches, extending to 51 inches. Uses Tripod case 146KN.	31.50
96,008		Double Channel-Section Tripod 131. A specially rigid and solid design for still cameras up to 8 x 10 inches and 16mm. cine cameras. The legs slide without metallic contact in the long guides of the double channel section supports. Twin tips and special catches on the legs permit maximum splaying out. Complete with bracing chain, handy clamping knobs, and convertible steel/rubber tips. Weight 8 lbs., length 34½ inches, extending to 61 inches. Uses Tripod case 136SN or 136SVN	90.00

SCHIANSKY TRIPOD ACCESSORIES

Catalog Number	Code Word	Item	Retail Price
96,020		Studio Lighting Stand 081, easily dis- mantled tripod base on rubber rollers, handy quick-locking keys, double extension, modern style and finish. Weight 9¼ lbs; length 35½ inches, extending to 74 inches	\$48.00
96,021		Extension Piece 083, for above, length 23½ inches	4.80
96,022		Home Lamp Stand 071, weight 53 ounces; length 27½ inches, extending to 67 inches. . .	13.50
96,023		Extension Piece 072, for above, length 27½ inches	3.00
96,030		Ball-and-Socket Head 163, ball-and socket head permits cameras to tilt in every direction. Suitable for miniature, reflex, and medium-size cameras up to 2¼ x 3¼ inches, weight 5½ Oz.	7.50
96,031		Ball-and-Socket Head 143, Tilts in every direction, suitable for miniature, reflex, and medium- size cameras up to 2¼ x 3¼ inches. Weight 8¼ Oz.	13.50
96,032		Ball-and-Socket 133, for large-size cameras up to 8 x 10 inches. Its features include a heavy- duty ball shaft, precision clamping system for universal tilt movement, panning scale, and exceptional smoothness of all movements. Weight 25½ Oz.	27.60
96,033		Junior-Pan-And-Tilt Head 162 for 8mm. cine cameras and still models up to 2¼ x 3¼ inches. The handle can be fitted with a cable release. Weight 9½ Oz.	9.80
96,040		Standard Cable Release D1, for Junior Pan-and- Tilt Head #162, Catalog #96033	1.80
96,041		Heavy Duty Cable Release D2, for Junior Pan- and-Tilt Head #162m Catalog #96033	3.00
96,034		Cine Pan-And-Tilt Head 142, for 8 and 16mm. cine cameras. Separate horizontal and vertical movements, individually locked. Panning and tilting scales, complete with spirit level. Weight 17¼ Oz.	21.00
96,035		Cine Pan-And-Tilt Head 142D, same as above but with release in handle	24.00
96,036		Cine Pan-And-Tilt Head 139. Specially suit- able for 16mm. cine cameras. Separate hori- zontal and vertical movements, each locking individually as a standard motion picture models. Panning and tilting scales, complete with spirit level. Weight 44 Oz.	36.00
96,009		Staticfix 203 shoulder brace, light yet husky device providing firm support for hand held exposures. Ideal for indoor and long lens work. For all Leicas and other 35mm cameras, can be used with Visoflex II but not Visoflex I.	7.80

SCHIANSKY TRIPOD CASES

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
96,042		Copying Bracket 320. For shots near floor level with reversed centre column, this bracket converts any rigid tripod into a copying stand. It also permits large-scale closeups attachments without interference from the tripod legs. Weight 10¼ Oz.	\$ 7.50
96,043		Projector Platform 350. Mounted on a tripod, it provides a projection stand for slide and cine projectors. Fits any tripod with standard bush. Weight 24 Oz.	6.60
96,044		Reducing Adaptor Model 055, to convert 3/8 inch camera bushes to ¼ inch. . . . .	.15
96,046		Borex Thread Adaptor 056, for cable release for models 162 and 142 . . . . .	.45
96,047		Sliding Extension Column Model 134, with a manual height adjustment for Model 131. Weight 30½ Oz.	21.00
96,048		Cranking Extension Column Model 137, with crank-driven height adjustment for Model 131. Weight 70 Oz.	39.00
96,049		Tripod Dolly 135, for studio work. Rubber wheels set in ball bearings with swivel locks for tracking shots in cine work. Foot-pedal lock and release. Spring clamps wedge the tripod legs into the supporting cups. Easily dismantled. Weight 14¾ lbs.	150.00
96,060		Tripod Case #126 SN, for Tripod 121 or 121S.	6.00
96,061		Tripod Case #166 SN, for Tripod 161 or 161S.	12.00
96,062		Tripod Case #196 SKN, for Tripod 192 or 191S	16.50
96,063		Tripod Case #196 SGN, for Tripod 191 or 191S	18.00
96,064		Tripod Case #146 KN, for Tripod 149	10.50
96,065		Tripod Case #136 SN, for Tripod 131	22.50
96,066		Tripod Case #136 SVN, for Tripod 131	24.00

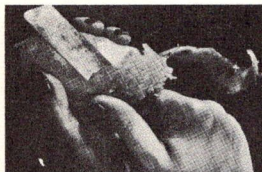
CLOSE-UP PHOTOGRAPHY

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.

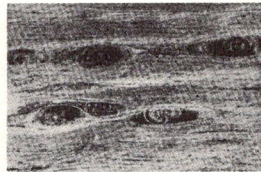
Close-Up photography falls into three classifications:



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 microscope.

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

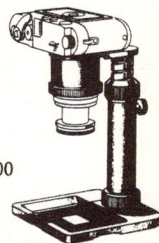
Catalog Number	Code Word	Item	Retail Price
16,500	NOOKY	Close Focusing Device for "f" series and earlier Leicas and screw-mounting 50mm Elmar f/3.5 lens (1:17.5-1:6.5)	\$45.00
16,502	SOOKY	Close Focusing Device for "f" series and earlier Leicas and screw-mounting 50mm Summicron f/2 or Elmar f/2.8 lens (1:17.5-1:8)	45.00
16,505	NOKUM	Close Focusing Device for "f" series and earlier Leicas and screw-mounting 50mm Summar or Summitar f/2 lens	81.50
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 (1:1.5-1:8)	30.00
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 ratfos of reproduction from 1:15 (14" x 21") to 1:7.5 (7" x 10.5")	45.00
16,508	UOORF	Adapter fitting lens unit of rigid-mount Summicron to Close Focusing Device # 16,507 or Auxiliary Reproduction Unit # 16,526	3.60
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	48.60

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.

16,511 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



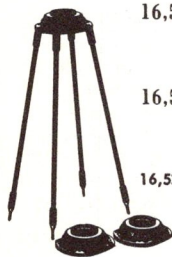
78.00

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".

39.00

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"

52.50



16,525

BELLOWS EQUIPMENT

BELLOWS FOCUSING DEVICE I FOR VISOFLEX I

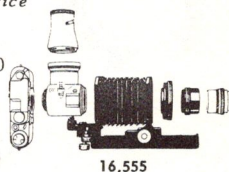
The Bellows Focusing Device I is used with the Visoflex I. It provides continuously variable extension between the camera lens and focal plane, adjustable by rack and pinion. The Bellows Device I can be used with any interchangeable Leica lens within a certain focusing range. However, it is at its most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

Working with the Visoflex I, Bellows I and the 125mm or 135mm lens units, 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 I. 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 lenses serves two purposes. It adapts the front of the Bellows-Focusing Device I 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 I and Visoflex I. Removing the tubular section exposes a Leica thread which accepts screw-mounting lenses or various extension tubes.

The Bellows Focusing Device I 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 I , with divisible adapter for 135mm Hektor lens unit or screw-mounting Leica lenses	\$ 79.50
<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	126.00
16,484	OZUPO	Visoflex I, screw-mounting; without magnifier but with double cable release	103.50
16,483		Visoflex I, screw-mounting, without magnifier or cable release	92.70
16,482	OZXOM	Visoflex I, bayonet-mounting; with 5X wide-field magnifier and double cable release.	126.00
16,481	OZPOM	Visoflex I, bayonet-mounting; without magnifier but with double cable release	103.50
16,480		Visoflex I, bayonet-mounting, without magnifier or cable release	92.70
16,492	OZWTO	Double Cable Release for Visoflex I and any screw-mounting Leica.	10.80
16,491	OZTOM	Double Cable Release for Visoflex I and bayonet-mounting Leica Models	10.80
16,493	OZXVO	Release Coupling for Visoflex I and any screw-mounting Leica. Single-button hand or cable release operation.	15.00
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	2.40
16,486	LVFOO	Wide-Field Magnifier (5X) for Visoflex I	22.50



16,555

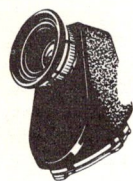


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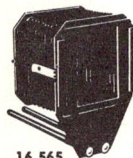


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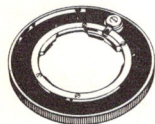
BELLOWS EQUIPMENT



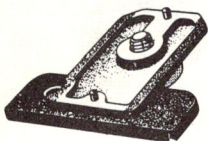
16,487



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. . . .	\$54.00
16,565	UZEEO	Bellow I Lens Hood (with removable mask) for screw-mounting lenses of 36mm front diameter only.	28.50
16,566	UEPOO	Interchangeable Clamping Ring for Bellows I Lens Hood #16,565. Converts to #16,567 for use with Leica lenses having 42mm front diameter.	7.50
16,567	UZEOM	Bellows I Lens Hood (with removable mask) for 42mm front diameter 135mm lenses. . . .	28.50
16,568	UEOOK	Interchangeable Clamping Ring for Bellows I Lens Hood #16,567. Converts to #16,565 for use with lenses having 36mm flange diameter.	7.50
16,570	UOOST	Divisible Adapter fitting 135mm Lenses unit to Bellows I. (Lenses having serial numbers 245,000 to 245,800 or lower than 241,000 must be sent to Service Department for fitting) Supplied with 16,555 (This is #16,590 + #16,580)	7.50
16,575	UOOTG	Divisible Adapter fitting any rigid 90mm Elmar or Elmarit unit #16,590 + #16,585 lens unit to Bellows I	7.50
16,598	UOOZK	Adapter, fitting lens unit of 90mm Summicron lenses #11,023, #11,123 or #11,124 to Bellows I.	5.10
16,572	UOOXI	Adapter fitting 125mm Hektor lens to Bellows I (permits focusing to infinity).	3.60
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.	1.20
16,595	UYCOO	Bayonet Adapter fitting 50mm screw-mounting Elmar 50mm f/3.5 lens to Bellows I.	5.40
16,596	UOOND	Bayonet Adapter fitting all bayonet-mounting Leica lenses to Bellows I.	9.90
16,597	USOOR	Bayonet Adapter fitting 50mm Summitar lens to Bellows I.	4.80
17,672	DMUOO	Adapter fitting lens units of 50mm Dual-Range and rigid-mount Summicron lenses to Bellows I. Used with adapter ring #16,590.	3.80
16,590	UOOYW	Adapter Ring fitting Leica screw mounting lenses or extension tubes to Bellows I. . . .	4.50
16,580	UOOVH	Special Extension Tube fitting 135mm lens unit to Bellows I adapter ring. (Lenses having serial numbers 245,000 to 245,800 or lower than 241,000 must be sent to Service Department for fitting.)	3.00
16,585	UOOVW	Special Extension Tube fitting 90mm Elmar or Elmarit lens unit to Bellows I adapter ring. . . .	3.00
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.	7.80
16,600	UWYOO	Adapter Plate fitting Bellows I 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).	6.80
14,650	UYOOQ	Case fitted for Bellows I, Visoflex I, Focslide, Leica and accessories.	27.00

BELLOWS FOCUSING DEVICE II FOR VISOFLEX II

The new Focusing Bellows II for use with the Visoflex II is an extremely compact reproduction unit offering as principal features:

Continuous focusing from infinity to 1:1 (image-to-object size ratio) with 90mm lenses, using the lens heads of the Elmar or Elmarit. 125mm or 135mm long lenses will focus from infinity to 1:1.3 or 1:1.4 and up to a ratio of 1.1 or more with extra extension tubes or adapters. Very powerful image magnifications are possible with short-focus LEICA lenses such as the 35mm and 50mm focal lengths.

Two focusing methods are provided: A knob at the left-hand side of the track focuses by changing the lens-to-film distance. On the right-hand side a second knob (with thumb-operated locking lever) moves the whole assembly as a unit closer or away from the subject in order to focus without changing the image-scale or picture-field size. Both focusing methods employ geared rack-and-pinion movement with three accuracy-ensuring steel guide-rails inset into the square track-bar.

Two engraved data-scales show the reproduction-ratios and corresponding exposure-increase factors for the 90mm ELMARIT or ELMAR lens-heads (on the left-hand side) and the actual bellows extension in millimeters (on the right-hand side). When using the 90mm ELMARIT or ELMAR, for example, an extension of 90mm shown on the right-hand scale will also indicate a 1:1 reproduction-ratio and a corresponding exposure-increase factor of 4X on the left-hand scale.

Horizontal or vertical pictures can be made without disturbing the tripod position by pressing a push-button lock at the rear, left-hand side of the bellows and simply turning the camera through a 90° angle until it clicks into the position desired.

Five Bellows II adapter rings are used to accept all LEICA lenses from 35mm through 135mm in focal length. Note: The 135mm ELMAR *f*/4 or HEKTOR *f*/4.5 lens-heads are first screwed into the extension tube No. 16472 (OSTRO), then this is screwed into the Bellows II ring No. 16558 supplied with the basic outfit.

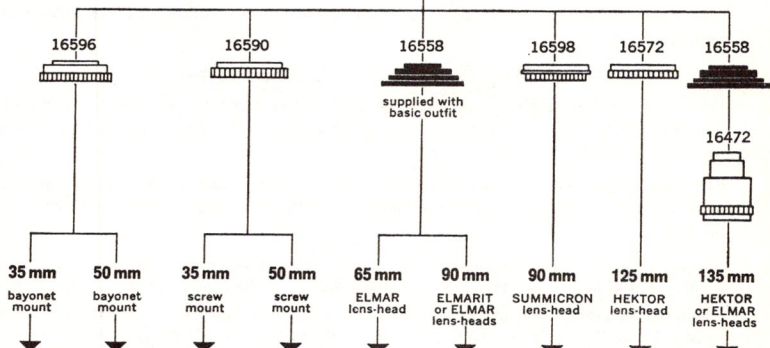
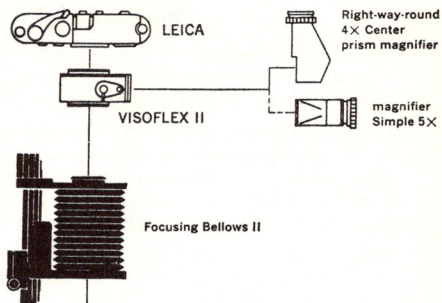
A large bellows-type lens-hood which provides especially effective protection against stray light entering the lens is available as an accessory for the Focusing Bellows II. Two mounting rods slide into holes in the base of the lens-standard, and the hood is firmly secured by means of a clamping set-screw. The bellows-type hood is fitted in the same way as normal LEICA lens-hoods for lenses with the 42mm (E 39) front flange diameter, and permits the normal use of filters.

Many older LEICA lenses with the 36mm (A 36) front flange diameter may be used with this hood if the lens adapter ring No. 13154 is first fitted.

<i>Catalog Number</i>	<i>Item</i>	<i>Retail Price</i>
16,356	Focusing Bellows II, with adapter ring for lens-units of the 90mm ELMARIT or ELMAR and the 65mm ELMAR	\$ 96.00
16,557	Bellows-type lens-hood for Focusing Bellows II and LEICA lenses with 42mm (E 39) front diameter	30.00
13,154	Adapter-ring for using bellows-type lens hood with LEICA lenses having 36mm (A36) front diameter	4.95
16,596	Adapter-ring for fitting bayonet-mount 35mm and 50mm LEICA lenses to Bellows II	9.90
16,590	Adapter-ring for fitting screw-mount 35mm and 50mm LEICA lenses to Bellows II	4.50
16,558	Adapter-ring for fitting lens-heads of the 90mm ELMARIT or ELMAR, and the 65mm ELMAR to Bellows II. (This ring is supplied with the basic outfit)	6.30
16,598	Adapter-ring for fitting lens-head of the 90mm SUMMICRON to Bellows II	5.10
16,572	Adapter-ring for fitting lens-head of the 125mm HEKTOR to Bellows II	3.60
16,472	Tube to thread into adapter-ring No. 16558, permitting use of the lens-heads of the 135mm ELMAR or HEKTOR on Bellows II	5.40
14,821	Case for Bellows II, Visoflex II and accessories	27.00
16,457	Visoflex II, screw-mounting, without magnifier .	79.50
16,455	Visoflex II, bayonet-mounting without magnifier	79.50
16,458	Visoflex II, screw-mounting with 4X image erecting magnifier (weight 15 $\frac{1}{4}$ ozs.)	126.00
16,456	Visoflex II, bayonet-mounting with 4X image erecting magnifier (weight 16 $\frac{1}{4}$ ozs.)	126.00
16,460	4X Magnifier producing an erect and laterally correct image for Visoflex II	46.50
16,461	5X Standard Magnifier for Visoflex II	28.50

THE EXTREME VERSATILITY OF THE FOCUSING BELLOWS II

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



Reproduction Ratio (Image: object)	from 2.1:1 to 4.8:1	from 1.4:1 to 3.2:1	from 1.7:1 to 4.4:1	from 1.1:1 to 3.0:1	from 0 to 1.4:1	from 0 to 1.0:1	from 1.0:20 to 1.1:1	from 0 to 1.0:1.7	from 0 to 1.0:1.4
Magnification	2.1X 4.8X	1.4X 3.2X	1.7X 4.4X	1.1X 3.0X	0 1.4X	0 1.0X	0.05X 1.1X	0 0.6X	0 0.7X
Distance from subject to film	6.5" 9.5"	8.5" 11.5"	6.0" 9.0"	8.5" 11.0"	∞ 11.0"	∞ 14.5"	78" 14"	∞ 20"	∞ 22"
Field-size inches	0.5×0.7" 0.2×0.3"	0.7×1.1" 0.3×0.4"	0.6×0.8" 0.2×0.3"	0.9×1.3" 0.3×0.5"	∞ 0.7×1.1"	∞ 0.9×1.4"	18.9×28.4" 0.9×1.3"	∞ 1.6×2.4"	∞ 1.4×2.0"

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

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 Reprint 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 # 16,680 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

Focomount's 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.

FOCOSLIDES

Catalog Number	Code Word	Item	Retail Price
16,607	OOBAZ	Focoslide accepting all screw-threaded Leica cameras	\$75.00
16,680	OOTGU	Focoslide accepting all Leica cameras with bayonet-mounting lenses.	75.00



16,680

AUXILIARY MOUNTS

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

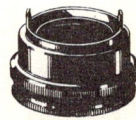
Catalog Number	Code Word		
16,608	VXZOO	Focomount with Lens Adapter #1 for screw or bayonet-mounting Elmar 50mm f/2.8 or bayonet-mounting Elmar 50mm f/3.5, adjustable through a range of 1:12.5 - 1:2 (with Extension Tube N 1:1.7 - 1:1)	21.00
16,609	VXOOT	Focomount with Lens Adapter #2 for screw-mounting Elmar 50mm f/3.5, 1:18 - 1:2 (with Extension Tube N 1:1.8 - 1:1.1)	21.00
16,688	ZQGOO	Focomount with Lens Adapter #3 with standard Leica thread 39mm-1, accepting Focotar 50mm f/4.5 lenses, adjustable through a range of infinity - 1:2.5 (with Extension Tube N 1:2.2 - 1:1.1)	21.00
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)	21.00



16,685



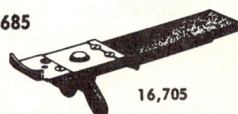
16,689



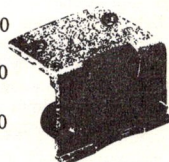
16,686

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

16,689	VWOOO	Repro Extension Tube N, 26mm, 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.	4.50
16,622	VTOOX	Diaphragm Adjusting Ring for Elmar 50mm f/2.8	12.00
16,620	VALOO	Diaphragm Adjusting Ring for screw-mounting Elmar 50mm f/3.5	7.80
16,686	VTROO	Diaphragm Adjusting Ring for lens unit of Summicron 50mm f/2 rigid or Dual-Range	12.00
16,614	VWOOO	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	3.00
16,564	YROOF	Rack and Pinion Fine Adjustment for Focoslide or Bellows	39.00
16,705	XBEEB	Adapter, with dovetail slide, fitting Focoslide to arm of Pillar Stands LURTE or US II	10.40
16,601	UWOOS	Adapter for mounting Focoslide on carrying arm of Valoy II enlarger or Reprovit I	6.00
16,750	OUTSO	Projection Head with 100 watt lamp for Focoslide or Reprovit II focusing stage	46.50



16,705



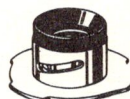
16,601



16,750



16,486



16,489

FOCUSING MAGNIFIERS

16,486	LVFOO	Wide-Field Magnifier (5X) (Also fits Visoflex I).	22.50
16,487	PEGOO	Wide-Field 45° Magnifier (4X) (does not fit Focoslide for screw-mounting Leicas).	54.00
16,488	PAMOO	Wide-Field 90° Magnifier (5X) (Also fits Visoflex I).	33.00
16,489	LWOOO	Magnifier (30X) (Not for Visoflex I)	27.00

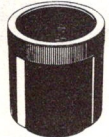
ACCESSORIES FOR FORMER STYLE FOCOSLIDES

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

Catalog Number	Code Word	Item	Retail Price
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16,615



16,665

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 Repro tube #16,615 to Focomount) to increase the extension and to obtain higher magnification.

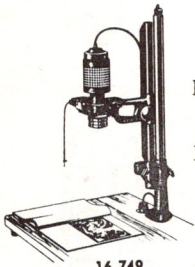
16,635	BOOXZ	Extension Tube B (7mm)	\$ 4.20
16,640	FVOOQ	Extension Tube F (15mm)	4.50
16,615	ROOYH	Repro Extension Tube (26mm) for Focomounts #16,610 and #18,61L	4.80
16,645	GVKOO	Extension Tube G (30mm)	4.80
16,646	FUFOR	Extension Tube (45mm)	6.00
16,665	ZOOMF	Special Extension Tube (50mm) for short mounted 135mm Hektor lens	6.00
16,647	FULGX	Extension Tube (60mm)	6.60
16,648	FULHI	Extension Tube (90mm)	7.80

Variable Focus Reproduction Units

The Reprovits IA and II are convenient and versatile copying devices with a wide range of coverage and many accessories. The Reprovit IA is built around the Focoslide; the Reprovit II is a professional unit designed for production work. Its focusing stage, mounted on a counter-balanced 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 Focoslide, forming still another variable focus reproduction unit.

16,701	OVURO	Valoy II Copying Stand. Consists of base-board (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 Focoslide. (Stand can be converted to enlarger by addition of Valoy II Enlarger Head.)	\$ 60.00
17,503	VALOEH	Valoy II Enlarger Head; complete with negative carrier and bulb. (Converts Valoy II Copying Stand to enlarger	89.70
16,749		Reprovit IA Reproduction Outfit. Consisting of: Large Copying Stand with offset bracket #16,746; removable post with guide rail #17,552; adjustable carrying arm #16,748; Focoslide adapter #16,601 and Projection Head #16,750	170.70
16,746		Copying Stand with baseboard 22 x 25 inches; switch; upright 47 inches high, 40mm diameter and adjustable offset bracket	82.50



16,749

Catalog Number	Code Word	Item	Retail Price
17,623		Baseboard, 22 x 25 inches	\$42.00
17,551		Baseboard for Valoy II, 15½" x 17¾" . .	18.30
17,622		Upright, 47 inches high, 40mm diameter	24.00
98,151		Flange attached baseboard to adapt to Upright #17622	4.20
17,552	VOOQF	Removable Post with Guide Rail, 32 inches high, 32mm diameter	18.00
16,744	OKLMO	Offset Bracket. Can also be used on upright of Focomat Ic enlarger with Post #16,747 or #17,552, Adjustable Carrying Arm #16,748 and Adapter #16,601 to make copying unit for use with Focoslide	16.50
16,747	OKZPO	Removable Post, 25½ inches long, with guide rail	13.50
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 #16,601 or Bellows Focusing Device with adapters #16,601 and #16,600.)	18.00
16,601	UWOCS	Adapter for mounting Focoslide on Carrying Arm #16,748	6.00
16,750	OUTSO	Projection Head with 100 watt lamp for Focoslide	46.50
16,795	ROOXU	Reprovit 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	708.00
16,796	ROXUM	Reprovit II Reproduction Outfit for "M" series Leica cameras; otherwise, same as #16,795	708.00
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 Reprovit II	249.00
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	165.00
16,771	ROOAM	Focusing Stage with bellows and rack and pinion adjustment for "M" series Leica cameras; supplied with #16,796	165.00
16,775	RDQOO	Diaphragm Lever and Operating Guide. (Automatically opens lens for focusing, closing to f/11 when exposing.) Supplied with Reprovit II	10.50



16,748



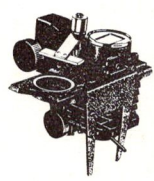
16,601



16,750



16,795



16,770 or 16,771

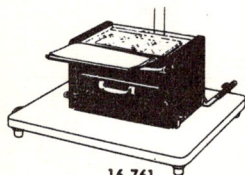
Catalog Number	Code Word	Item	Retail Price
16,750	OUTSO	Projection Head for focusing and aligning with 100 watt lamp for Focoslide or Reprovit II focusing stage or Reprovit I	\$ 46.50
16,781	DOOCQ	Repro 50mm Focotar f/4.5 lens with click stops. (Especially corrected for close distances.) Supplied with Reprovit II	57.00
16,785	RKCOO	Four-Lamp Illuminator with 100 watt lamps. Supplied with Reprovit II Cat No. 16,795 and 16,796	180.00
17,504	VOOLY	Valoy II Enlarger Head, with adapter, fitting carrying arm of Reprovit II Reproduction Outfit. Converts Reprovit II to an enlarger	60.00



16,781



16,780



16,761



17,675

SUPPLEMENTAL EQUIPMENT			
14,014	AQOOT	Extension Winding Knob for screw-mounting Leica cameras, for use with Reprovit II	4.20
16,780	OWMAN	24mm Micro Summar f/4.5 with adapter for Reprovit II. Magnifications up to 6.5X are possible	94.00
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
16,761	RGWOO	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	115.00
16,763	OOEUK	Illuminating Box (14" x 16") for trans-illumination of material being photographed. A milk glass plate evenly diffuses the light from two 20 watt G.E. fluorescent tubes	100.00
16,764	BEEUL	Connecting Cord (5 foot) with switch for illuminating box #16,763.	6.00

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 old style Illuminating Box #16,762 . . . . .	.80
16,768	VKOOK	Bulb (60 watt) for Illuminating Box #16,763 . . . . .	.90
98,210		Fluorescent Tube, 24" General Electric 20 Watt F20 T12/WWX for #16,763	1.15

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 $\frac{1}{3}$ X correction lens:—
 $(45 \times 10) \div 3 = 150$ diameters on the negative.

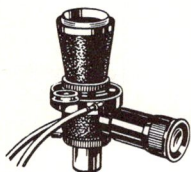
Enlarge three times to a 3 x 4 $\frac{1}{2}$ inch print and you have the same magnification you saw through the microscope (450 times). Enlarge to an 8 x 10 print and you have a magnification of 1200 times.

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 IBSA ATTACHMENT

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 $\frac{1}{3}$ X or $\frac{1}{2}$ X. 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.



17,000

Catalog Number	Code Word	Item	Retail Price
17,000	MIKAS	Micro Ibsor with screw-mounting 1/3X conical correction tube and two cable releases . . .	\$146.00
17,001	MIKAS-M	Micro Ibsor with bayonet-mounting 1/3X conical correction tube and two cable releases	146.00
17,005	MIBAC	Micro Ibsor with screw-mounting 1/2X conical tube and two cable releases	150.00
17,006	MIBAC-M	Micro Ibsor with bayonet-mounting 1/2X conical correction tube and two cable releases	150.00

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 fit the Focomount #16,688 plus extension tube #17,675 of the current Focoslide (no Focomount needed for the former Focoslide) and connect to the microscope with the light-excluding rings #17,032.



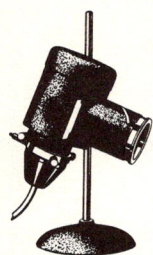
17,025

17,025	GIEF	Interchangeable Conical Tube (1/3X), screw-mounting, for use on Focoslide or Micro Ibsor	20.00
17,026	GIEF-M	Interchangeable Conical Tube (1/3X), with bayonet mount, for Micro Ibsor	20.00
17,030	GIMW	Interchangeable Conical Tube (1/2X), screw-mounting, for use on Focoslide or Micro Ibsor.	24.00
17,033	GIMW-M	Interchangeable Conical Tube (1/2X), with bayonet mount, for Micro Ibsor	24.00
17,031	GINK	Interchangeable Conical Tube (1X), screw-mounting, for use on Focoslide or Micro Ibsor	30.00
17,032	LS200	Light-Excluding Rings (set of 2) for light-tight connection between conical tubes and microscope	10.40

ACCESSORIES FOR PHOTOMICROGRAPHY

17,055	PEZEN	PERIPLAN Ocular (10X) supplied with Micro Ibsor Attachment	23.00
14,070	FINOT	Leica Cable Release (10 inch) with locking screw for all Leica cameras except bayonet-mounting models.	1.80
14,067	FONOT	Cable Release (10 inches) with locking screw for bayonet-mounting models	1.50
17,015	GIBR	Cable Release with set-screw for operating prism. Supplied with Micro Ibsor Attachment	2.80
17,020	GIFT	Cable Release without set-screw for operating Ibsor shutter. Supplied with Micro Ibsor Attachment.	2.40

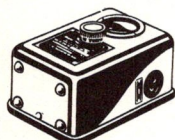
ACCESSORIES FOR PHOTOMICROGRAPHY



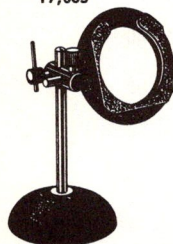
17,060

Catalog Number	Code Word	Item	Retail Price
17,010	CALOS	Double Release fitting cable releases of Micro Ibo Attachment. Simultaneously operates shutter and swing-out prism.	\$12.80
17,040	AGHU	Clamping Ring for adjustable draw-tube of 31.8mm inside diameter (Leitz Stand B). Prevents creeping of draw-tube	4.00
17,045	GFEH	Clamping Ring for adjustable draw-tube of 25.4mm inside diameter (Leitz Stand G). Prevents creeping of draw-tube	4.00
17,035	GDIK	Adapter fitting Micro Ibo to Leitz polarizing microscopes with large diameter draw-tube	8.40

SUPPLEMENTAL EQUIPMENT FOR PHOTOMICROGRAPHY



17,065



17,085

17,060	BEECH	Monla Microscope Lamp (low voltage) for photomicrography or visual observation. Has concentrated filament bulb, focusing condenser and adjustable stand	53.00
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	67.00
17,067	RESOX	Regulating Transformer (110 volts A.C.) with three taps (giving 3 brightness stages to Monla lamp)	41.00
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	26.00
17,085	IFSTA	Lifa Filter Stand for holding Lifa photomicrographic filters between light source and microscope	17.00
17,080	DTEEO	Lifa Green Filter for photomicrography. Fits filter stand #17,085	13.00

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 aplanatic magnifiers 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	NAHV	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	11.00
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	11.00
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	1.00

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	59.00
18,950	NADEY	Dissecting Stand as described under #18,940 but with aplanatic magnifiers 10X and 20X; with wooden carrying case	85.00

APLANATIC MAGNIFIERS

18,900	NAIAS	Aplanatic Magnifier (6X), field of view 30mm.	13.00
18,905	NAIBB	Aplanatic Magnifier (8X), field of view 22mm.	13.00
18,910	NAICZ	Aplanatic Magnifier (10X), field of view 15mm	13.00
18,915	NAIGI	Aplanatic Magnifier (12X), field of view 11mm	13.00
18,920	NAILT	Aplanatic Magnifier (20X), field of view 5mm	15.00
18,925	NAFNU	Handle with clamping collar for simple and aplanatic magnifiers in cylindrical mounts . .	3.80

FOLDING MAGNIFIERS

<i>Catalog Number</i>	<i>Code Word</i>		<i>Retail Price</i>
18,960	NAJBE	Folding Pocket Magnifier (6X aplanatic) in leather case	\$ 17.00
18,965	NAJES	Folding Pocket Magnifier (8X aplanatic) in leather case	17.00
18,970	NAJNI	Folding Pocket Magnifier (10X aplanatic) in leather case	17.00
18,975	NAJLO	Folding Pocket Magnifier (12X aplanatic) in leather case	17.00
18,980	NAJOB	Folding Pocket Magnifier (20X aplanatic) in leather case	19.80

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	133.5	194.1	1.2 X
1:12	11.3 x 16.9	1.64	2.30	3.28	4.50	6.55	288 x 432	41.6	58.2	83.2	114.4	166.4	1.2 X
1:11	10.4 x 15.6	1.39	1.94	2.77	3.82	5.56	264 x 396	35.2	49.3	70.4	96.8	140.8	1.2 X
1:10	9.45 x 14.2	1.15	1.62	2.32	3.18	4.62	240 x 360	29.3	41.1	58.7	80.7	117.3	1.2 X
1:9	8.51 x 12.8	0.945	1.32	1.89	2.60	3.78	216 x 324	24.0	33.6	48.0	66.0	96.0	1.2 X
1:8	7.56 x 11.3	0.758	1.06	1.51	2.08	3.03	192 x 288	19.2	26.9	38.4	52.8	76.8	1.3 X
1:7	6.61 x 9.92	0.588	0.825	1.18	1.62	2.36	168 x 252	14.9	20.9	29.9	41.1	59.7	1.3 X
1:6	5.66 x 8.51	0.441	0.620	0.885	1.21	1.77	144 x 216	11.2	15.7	22.4	30.8	44.8	1.4 X
1:5	4.72 x 7.09	0.315	0.440	0.632	0.867	1.26	120 x 180	8.0	11.2	16.0	22.0	32.0	1.4 X
1:4	3.78 x 5.66	0.209	0.296	0.422	0.580	0.840	96 x 144	5.3	7.5	10.7	14.7	21.3	1.6 X
1:3	2.84 x 4.26	0.126	0.178	0.252	0.347	0.505	72 x 108	3.2	4.5	6.4	8.8	12.8	1.8 X
1:2	1.89 x 2.84	0.063	0.087	0.126	0.173	0.252	48 x 72	1.6	2.2	3.2	4.4	6.4	2.3 X
1:1.5	1.42 x 2.13	0.039	0.055	0.079	0.110	0.158	36 x 54	1.0	1.4	2.0	2.8	4.0	2.8 X
1:1.33	1.26 x 1.89	0.031	0.047	0.067	0.091	0.134	32 x 48	0.8	1.2	1.7	2.3	3.3	3.1 X
1:1	0.945 x 1.42	0.020	0.031	0.043	0.059	0.083	24 x 36	0.5	0.8	1.1	1.5	2.1	4 X
1.5:1	0.630 x 0.945	0.012	0.016	0.023	0.032	0.047	16 x 24	0.30	0.41	0.59	0.81	1.19	6 X
2:1	0.472 x 0.709	0.008	0.011	0.016	0.022	0.032	12 x 18	0.20	0.28	0.40	0.55	0.80	9 X
3:1	0.314 x 0.472	0.005	0.007	0.010	0.013	0.018	8 x 12	0.12	0.17	0.24	0.33	0.47	16 X
4:1	0.236 x 0.354	0.003	0.005	0.007	0.009	0.013	6 x 9	0.08	0.12	0.17	0.23	0.33	25 X
5:1	0.189 x 0.284	0.002	0.004	0.005	0.007	0.010	4.8 x 7.2	0.06	0.09	0.13	0.18	0.26	36 X
6:1	0.158 x 0.237	0.002	0.003	0.004	0.006	0.008	4.0 x 6.0	0.05	0.07	0.10	0.14	0.21	49 X
6.5:1	0.145 x 0.217	0.002	0.003	0.004	0.005	0.007	3.7 x 5.5	0.05	0.07	0.09	0.13	0.19	56 X
7:1	0.135 x 0.202	0.002	0.002	0.004	0.005	0.007	3.4 x 5.1	0.04	0.06	0.09	0.12	0.17	64 X
8:1	0.118 x 0.177	0.002	0.002	0.003	0.004	0.006	3.0 x 4.5	0.04	0.05	0.08	0.10	0.15	81 X
9:1	0.105 x 0.158	0.001	0.002	0.003	0.004	0.005	2.7 x 4.0	0.03	0.05	0.07	0.09	0.13	100 X
10:1	0.094 x 0.142	0.001	0.001	0.002	0.003	0.005	2.4 x 3.6	0.03	0.04	0.06	0.08	0.12	121 X
Circle of confusion = 1/750 inch							Circle of confusion = 1/30 mm						

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.

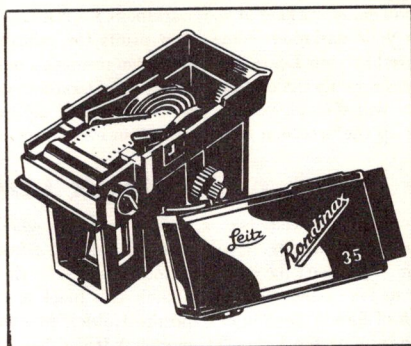
<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>	
14,001	IXMOO- DRXOO	Film Magazine for all Leicas except "250" exposure model; with screw-cap plastic container	\$ 6.90	 17,101
14,006	IXMOO- SINE	Film Magazine 14,001 but without container	6.30	
14,010	DRXOO	Plastic Container with screw-cap for Film Magazines . . . . .	.60	
14,015	SPUCA	Center Spool for Film Magazine	1.95	 14,001
17,100	ABLON	Film Template for trimming trailer and leader on bulk film	5.10	
17,101	AGRIF	Hand Film Winder for loading bulk film into magazines	1.80	
14,125	FHKOO	Single Exposure Holder for Leica models I, Standard, II, III, IIIa and IIIb	1.50	 14,006
				 17,100

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



15,035



15,050

SPARE PARTS FOR DISCONTINUED "CORREX" 35mm TANKS

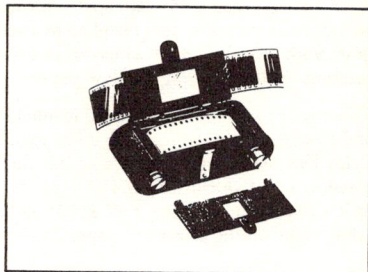
15,050	CORCF	Lid for 17 ounce Tank	1.65
15,035	COSTI	Agitator for 17 ounce Tank . . . . .	.60
15,072	COODQ	Agitator for 10 ounce Tank . . . . .	.60

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>
17,900	ELDIA	Contact Printer for 35mm strips	\$27.00
17,901	ELKIN	Interchangeable Window (18 x 24mm) for ELDIA Printer	6.90

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 and Summilux f/1.4). 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 $\frac{1}{8}$ ” x 1 $\frac{1}{8}$ ”). An accessory orange filter lets you compose your print safely right on the sensitized paper.

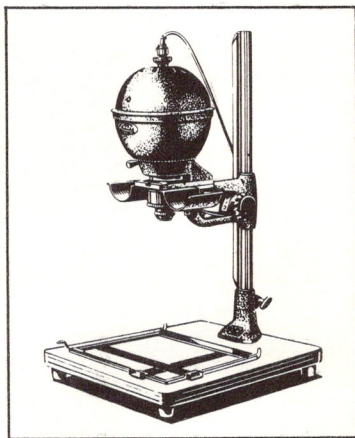
PERSPECTIVE CORRECTOR

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.

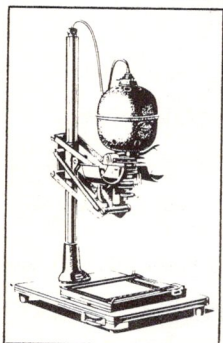
VALOY II ENLARGER

You can use the Valoy II as both enlarger and copying stand! Its baseboard (15 $\frac{1}{2}$ 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. The condenser is specially surface-treated to prevent the formation of Newton’s Rings.



Valoy II Enlarger

Catalog Number	Code Word	Item	Retail Price
17,501	OZVUO	Valoy II Enlarger and Copying Stand without lens, filter or easel	\$144.00
17,506	FTOOS	Orange Filter for Valoy II.	3.00
17,507	NCSOO	Special Condenser for Valoy II enlarger. Treated surface prevents Newton's rings . . .	16.50
17,508	ZPOOK	Table Clamp accepting upright of Valoy II enlarger. Adapts Valoy for enlarging or copying on other than baseboard	15.00
16,601	UWOOS	Valoy II Adapter for mounting Focoslide . . .	6.00
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 surface-treated, anti-Newton's Rings condenser. You can also use the baseboard and upright of your Focomat Ic as a copying stand by using one of the carrying arms described in the section on Close-Up Photography.

17,601	ICOOP	Focomat Ic Enlarger without lens, filter or easel	231.00
17,600	ICWOO	Focomat Ic Enlarger complete with 50mm Focotar f/4.5 lens, Orange Filter and 8 x 10 inch Enlarging Easel.	328.50
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	279.00
17,625	IHOOC	Focomat Ic Enlarger with 22 x 25 inch baseboard and upright 47 inches high, but without lens, filter or easel.	246.00
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	294.00
16,743		Upright 32" high 40mm dia.	15.00
17,652	NESOO	Glass Pressure Plate, with spacer ring, for Focomat Ic enlarger. Treated surface prevents Newton's rings. (Used with condenser marked "N")	9.00
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")	13.50
17,641		Orange Filter for Focomat Ic	4.50

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



17,581



17,675



16,620

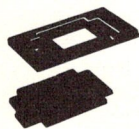
Accessories for Both Valoy II and Focomat Ic

17,581	DOOHP	50mm Focotar f/4.5 Enlarging Lens for Valoy II and Focomat Ic. Coated, with click stops. Specifically corrected for enlarging and reproduction work	58.50
17,675	DOORX	Extension Ring for converting Focotar lens supplied with Reprint 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)	3.60
17,672	DMUOO	Adapter, fitting lens units of the Dual-Range and rigid-mount Summicron lenses to Valoy II and Focomat Ic enlargers.	3.30
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.	4.50

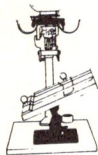
(See P. C 9, item #16,744 for equipment needed to make copying unit from Focomat Ic baseboard and upright.)

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

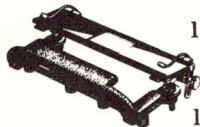
17,673	OVBH	Adapting threaded FINETTA lens.	2.40
17,674	OOVCK	Adapting threaded AKARETTE lens	2.40
17,677	OOVKY	Adapting threaded EXAKTA lens	2.40
17,678	OOVHU	Adapting threaded ROBOT lens	2.40
17,679	OOVPI	Adapting bayonet ROBOT-ROYAL lens.	3.00
17,681	OOWV	Adapting threaded DIAX Ia lens.	3.30
17,682	OOVDM	Adapting bayonet CONTAX lens	3.30
17,683	OOVFQ	Adapting bayonet EXAKTA lens	6.90
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	3.00
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	7.80
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	12.00
17,655	ZESOO	Perspective Corrector for Valoy II or Focomat Ic. Complete with Tilting Negative Carrier Holder, Hinged Negative Carrier and Tilting Easel Holder	61.50
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	22.50



17,670



17,655



17,640

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	\$ 6.00
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.	33.00
17,660	VBHOO	Bayonet Collar for screw-mounting 50mm Elmar f/3.5 lens. Necessary when using lens in enlarger with Perspective Corrector	4.80
17,661	DNWOO	Bayonet Collar for bayonet-mounting 50mm Elmar f/3.5 and all Elmar 50mm f/2.8 lenses. Necessary when using lens in enlarger with Perspective Corrector	3.90

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	4.50
17,516	VNAOO	Negative Carrier for 18 x 24mm (approx. 1-1/16" x 15/16") negatives	4.50
17,521	VNIOO	Negative Carrier for 24 x 24mm (approx. 15/16" x 15/16") negatives	4.50
17,526	VNEOO	Negative Carrier for 24 x 36mm (approx. 15/16" x 1-13/32") negatives	4.50
17,531	VNOOU	Negative Carrier for 3 x 4cm (approx. 1-3/16" x 1-9/16") negatives	4.50
17,536	VNUOO	Negative Carrier for 4 x 4cm (approx. 1-9/16" x 1-9/16") negatives	4.50
17,550	VAZEL	Single Negative Holder and Mask used when enlarging single 24 x 36mm (approx. 15/16" x 1-13/32") negative	7.35
17,540	VBOOP	Metal Negative Mask supplied with Single Negative Holder #17,550.	1.95
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	5.40
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	1.95
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	6.30
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	1.95
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	1.95



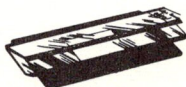
17,514



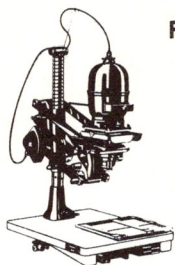
17,516



17,526



17,540



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 100mm V-Elmar 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: 2 to 11 diameters with 60mm lens and 1 to 5.7 with 100mm lens. Manual focusing range: 4x to 16x with 60mm lens and 1.4x to 8.6x with 100mm lens. 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.

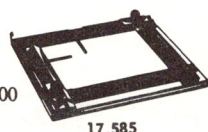
Catalog Number	Code Word	Item	Retail Price
17,870	TULOR	Focomat IIc Color Enlarger complete with 150 watt lamp, 60mm and 100mm V-Elmar f/4.5 lenses, 21 x 26 inch baseboard, 31-1/2 inch upright, double condenser, illuminated magnification indicator and special holder for color filters	\$ 798.00
17,862	TWOOQ	Magnification Indicator , internally illuminated	24.00
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	762.00
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	3.00
16,615	ROOYH	Repro Extension Tube (26mm). For use with 100mm or 95mm lens to obtain 1:1 ratio	3.60
98,300	NIFOO	Auxiliary Focusing Device for 1:1 reduction with V-Elmar 100mm lens.	18.60
17,876	NOOIR	Film Holder for 24 x 36mm (approx. 15/16 x 1-13/32 inches) negatives. With single glass pressure plate	37.80
17,875	FYOOR	Orange Filter for Focomat IIc	3.60
17,880	REPOO	Copying Cassette . Replaces film holder during copying.	75.00
17,885	ZOOIR	Perspective Corrector for Focomat IIc. Complete with Tilting Negative Carrier Holder and Tilting Easel Holder	78.00
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.	2.40
17,888	CWOOI	Negative Masking Plate for 24 x 36mm (approx. 15/16" x 1-13/32") size (as replacement)	2.40
17,889	CXSOO	Negative Masking Plate for 3 x 4 cm (approx. 1-3/16" x 1-9/16") size.	2.40
17,890	CYOOC	Negative Masking Plate for 4 x 4cm (approx. 1-9/16" x 1-9/16") size	2.40

Catalog Number	Code Word	Item	Retail Price
17,891	CYUOO	Negative Masking Plate for 4.5 x 6cm (approx. 1-13/16" x 2-3/8") size	\$2.40
17,892	CZOOO	Negative Masking Plate for 4 x 6.5cm (approx. 1-9/16" x 2-9/16") size	2.40
17,893	CZWOO	Negative Masking Plate for 6 x 6cm (approx. 2-3/8" x 2-3/8") size (as replacement)	2.40

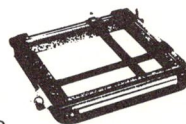
ENLARGING EASELS FOR VALOY II, FOCOMAT Ia, Ic, IIa and IIc ENLARGERS

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.

Catalog Number	Code Word	Item	Retail Price
17,585	FPYOO	Enlarging Easel 8 x 10 inches	\$34.50
17,630	FUOOO	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	93.00
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 top 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	80.00



17,585



17,635

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.	68.00
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



17,695

Accessories for Discontinued Models of the Valoy and Focomat I Enlargers

Catalog Number	Code Word	Item	Retail Price
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	4.50
17,520	VNOOD	Negative Carrier for 24 x 24mm (approx. 15/16" x 15/16") negatives	4.50
17,525	VDMOO	Negative Carrier for 24 x 36mm (approx. 15/16" x 1-13/32") negatives	4.50
17,530	VAVIR	Negative Carrier for 3 x 4cm (approx. 1-3/16" x 1-9/16") negatives	4.50
17,535	VAKES	Negative Carrier for 4 x 4cm (approx. 1-9/16" x 1-9/16") negatives	4.50



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	11.40
17,711	NIOOR	Special Negative Carrier fitting Focomat Ila enlarger for 35mm (24 x 36mm) negatives. Treated surface prevents Newton's rings	43.50
17,713	NCOOX	Upper Glass Plate for negative carrier of Focomat Ila enlarger. Treated surface prevents Newton's rings	11.40
17,685	FYOON	Orange Filter for Focomat Ila	11.40
17,715	CBOOD	Negative Masking Plate for 18 x 24mm (approx. 11/16" x 15/16") negatives	2.40
17,720	CKOOV	Negative Masking Plate for 24 x 24mm (approx. 15/16" x 15/16") negatives	2.40
17,725	CDEEO	Negative Masking Plate for 24 x 36mm (approx. 15/16" x 1-13/32") negatives	2.40
17,730	CDOOB	Negative Masking Plate for 3 x 4cm (approx. 1-3/16" x 1-9/16") negatives	2.40
17,735	CFIOO	Negative Masking Plate for 4 x 4cm (approx. 1-9/16" x 1-9/16") negatives	2.40
17,740	CGLOO	Negative Masking Plate for 4.5 x 6cm (approx. 1-13/16" x 2-3/8") negatives	2.40
17,745	CFOOZ	Negative Masking Plate for 4 x 6.5cm (approx. 1-9/16" x 2-9/16") negatives	2.40
17,750	CGOOY	Negative Masking Plate for 6 x 6cm (approx. 2-3/8" x 2-3/8") negatives	2.40
17,755	CHOOX	Negative Masking Plate for 6 x 9cm (approx. 2-3/8" x 3-1/2") negatives	2.40
17,756	CHNOO	Negative Masking Plate for 6.5 x 9cm (approx. 2-9/16" x 3-1/2") negatives	2.40



17,710



17,725



17,755

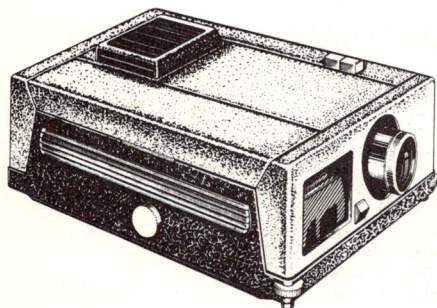
PROJECTORS

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, Automatic Pradovit FA & N Projectors, 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 PROJECTORS



The push-button operated Pradovit, featuring forward and reverse as well as remote control of both slide changing and focusing, is the most up-to-the-minute of all Leitz projectors. Switch it on, put in a 30 or 50 slide magazine, push a button — and your pictures leap to life on the screen. You can run the whole show from your favorite chair — change slides, back up the magazine — even focus — up to 65 feet from the projector by remote control cord or with the cordless ultrasonic control. Or you can operate the projector manually for editing.

It is possible to project slides individually in the Pradovit, but the projector is designed to accept 30-slide or 50-slide Leitz magazines. These are available individually or in groups of two or 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.

THE PRADOVIT FA

The Pradovit FA is available in both 300 and 500 watt models. The outstanding optical system of the Pradovit FA 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.

THE PRADOVIT N

Externally and in operating features, the Pradovit N is similar to the FA. But its revolutionary optical and illuminating system introduces a coolness of operation and depth of focus which are unparalleled in 35mm projection.

The Pradovit N uses a low-voltage, high-amperage lamp operating at 12 volts and 100 watts, which provides screen illumination equal to or exceeding that produced by most 300-watt projectors of conventional designs.

The exceptionally compact lamp filament permitted by the low-voltage operation results, in turn, in great depth of focus. This great depth of focus combined with the low operating temperature virtually eliminates the problem of refocusing due to the "popping" of cardboard mounted slides, or the projection of intermixed glass- and cardboard mounted slides.

The Pradovit N is an ideal automatic projector for all uses except for lecture hall or auditorium use involving extra-large screens, where the Pradovit FA or Prado projectors with 500-watt lamps should be used.

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 FA and N are 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).

PRADOVIT FA 300 AUTOMATIC PROJECTOR

CATALOG NUMBER	ITEM	RETAIL PRICE
98,400	Pradovit FA 300 Automatic Projector, complete with 300 watt bulb, two 30-slide magazines, 14-ft. remote control cord for focusing and slide changing with forward and backward magazine operation, single heat absorption filter, condenser and focusing mount for Leitz lenses 90mm to 120mm focus, snap-on projector cover but without lens	\$195.00 †
98,401	Pradovit FA 300 Automatic Projector, same as Catalog #98,400 but with 90mm Colorplan f/2.5 projection lens.	243.00 †
98,403	Pradovit FA 300 Automatic Projector, same as Catalog #98,400 but with 120mm Hektor f/2.5 projection lens.	264.00 †
98,404	Pradovit FA 300 Automatic Projector, same as Catalog #98,400 but with 150mm Hektor f/2.5 projection lens and special carrying case.	309.00 †

The Pradovit FA 300 watt projector may be converted to a 500 watt projector by replacing the bulb with catalog #98,441 and adding a second heat absorption filter and special glass plate which fits between the lamp and reflector.

37,915	Extra heat filter and special glass plate in mount for Pradovit FA 500	11.10
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† 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 her electrical systems.

PRADOVIT FA 500 AUTOMATIC PROJECTOR

CATALOG NUMBER	ITEM	RETAIL PRICE
98,410	Pradovit FA 500 Automatic Projector, complete with 500 watt bulb, two 30-slide magazines, 14-ft. remote control cord for focusing and slide changing with forward and backward magazine operation, double heat absorption filter, #37,915 condenser and focusing mount for Leitz lenses 90mm to 120mm focus snap-on projector cover, but without lens.	\$207.00 †
98,411	Pradovit FA 500 Automatic Projector, same as Catalog #98,410, but with 90mm Colorplan f/2.5 projection lens.	255.00 †
98,413	Pradovit FA 500 Automatic Projector, same as Catalog #98,410, but with 120mm Hektor f/2.5 projection lens.	276.00 †
98,414	Pradovit FA 500 Automatic Projector, same as Catalog #98,410, but with 150mm Hektor f/2.5 projection lens and special carrying case	321.00 †

PRADOVIT N AUTOMATIC PROJECTOR

98,430	Pradovit N Automatic Projector, complete with low-voltage lamp for 12 V 8.4 Amp., built in transformer, two 30-slide magazines, 14-ft remote control for focusing and slide changing with forward and backward magazine operation, single heat absorption filter, condenser and focusing mount for Leitz lenses 90mm to 120mm focus, snap-on projector cover, but without lens	186.00 †
98,431	Pradovit N Automatic Projector, same as Catalog #98,430 but with 90mm Colorplan f/2.5 projection lens	234.00 †
98,432	Pradovit FN Automatic Projector same as Catalog #98,430 but with 100mm Dimaron f/2.8 projection lens	220.50 †
98,433	Pradovit N Automatic Projector, same as Catalog #98,430, but with 120mm Hektor f/2.5 projection lens.	255.00 †
98,434	Pradovit N Automatic Projector, same as Catalog #98,430, but with 150mm Hektor f/2.5 projection lens and special carrying case	300.00 †

†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, Fa, AND N

CATALOG NUMBER	ITEM	RETAIL PRICE
37,010	90mm Colorplan f/2.5 projection lens without focusing mount††	\$ 48 00
37,000	100mm Dimaron F/2.8 projection lens without focusing mount. (This is the lens recommended for the Pradovit N if a 100mm lens is desired)	34.50
98,579	100mm Hektor f/2.5 projection lens without focusing mount††	39.00
37,020	120mm Hektor f/2.5 projection lens without focusing mount††	69.00
37,040	150mm Hektor f/2.5 projection lens without focusing mount.	93.00

NOTE: Write for details on condensers and mounts needed to change from a 90mm or 120mm lens to a 150mm lens on a Pradovit FA.

If the 150mm lens (37,040) is needed as an extra lens of longer focus for 98,431, 98,432 or 98,433 the following parts are required and should be ordered.

- a. Focusing mount and focusing sleeve - catalog No. 37,910*
- b. Double mount with Field Condenser and Heat Filter - catalog No. 37,914*

†† If the 90mm (37,010) or 120mm (37,020) lenses are needed as an extra lens of shorter focal length for 98,434 the following parts are required and should be ordered:

- a. Focusing mount and focusing sleeve - catalog No. 37,909*
- b. Double mount with Field Condenser and Heat Filter - catalog No. 37,913*

COMPONENTS AND REPLACEMENT PARTS FOR THE PRADOVIT F, FA and N

37,909	Focusing Mount with thread to fit Pradovit frame and focusing sleeve for remote control accepting 90mm, 100mm or 120mm Leitz projection lenses.	6.00
37,910	Focusing Mount with thread to fit Pradovit frame and focusing sleeve for remote control accepting 150mm Leitz projection lens	12.00
37,913	Double Mount with field condenser for 90mm, 100mm or 120mm Leitz projection lenses and heat absorption filter for Pradovit F & N.	13.50
37,914	Double Mount with field condenser for 150mm Hektor projection lenses and heat absorption filter for Pradovit F & N.	13.50
37,904	Extra Heat Filter for Pradovit F Projector. Must be added when 300 watt bulb is replaced by 500 watt bulb	6.00
37,915	Extra Heat Filter and special glass plate in mount for the Pradovit FA 500.	11.10

**CATALOG
NUMBER**

ITEM

RETAIL PRICE

37,800	30 Slide Magazine for Pradovit projectors. Holds 30 slides, either cardboard or glass mounted, supplied in cardboard box.	\$ 1.50
37,803	Magazine 2-Pack for Pradovit, package of two 30 Slide Magazines in transparent plastic box.	2.85
37,802	Plastic Storage Box, Transparent. Holds two 30-slide Leitz projector magazines. As supplied with #37,803.	1.05
37,801	Magazine 5-Pack. Same as #37,800, but five magazines in a cardboard storage container	6.90
37,823	Cardboard Storage Bos. Holds five 30 slide Leitz projector magazines. As supplied with #37,801.	2.40
37,804	50 Slide Magazine 2-Pack. Package of two special 50 slide magazines for Pradovit F, FA and N in cardboard box.	5.70
98,172	Remote Control slide changing and focusing cord, 14-ft. (as replacement) for Pradovit F. . .	6.00
98,173	Special remote control slide changing and focusing cord, 26-ft. for Pradovit F.	8.10
37,900	Remote Control slide changing, focusing and reverse cord, 14 ft. for Pradovits Fa and N. (as replacement).	9.60
37,901	Special Remote Control slide changing, focusing and reverse cord, 33 ft. for Pradovits Fa and N.	13.50
37,902	Special Remote Control slide changing, focusing and reverse cord, 48 ft. for Pradovits Fa and N.	15.00
37,903	Special Remote Control slide changing, focusing and reverse cord, 65 ft. for Pradovits Fa and N.	18.00
37,905	Metal lid for Pradovit F, FA and N with lenses up to 120mm focus (as replacement).	7.50
37,906	Carrying case with fittings accepting Pradovit F, FA or N with 150mm Hektor lens (as replacement).	22.50

BULBS FOR PRADOVIT PROJECTORS

98,440	300 Watt CWD Bulb for F and FA	3.75
98,441	500 Watt DAK Bulb for F and FA	4.70
37,709	Low-Voltage lamp, 12 V 8.4 Amp, for Pradovit N.	4.80

NUMBER

ACCESSORIES FOR PRADOVIT PROJECTORS

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

- 19,421 **Ultrasonic Remote Control Unit for Pradovit N and FA Projectors.** The unit is plugged into the projector in place of the remote control cord. The hand-held ultrasonic signal director is push-button controlled and silently operating with a set of subminiature batteries as power supply. One push-button control is for slide changing. A short push will feed the magazine forward and a long push will cause it to reverse. The other push-button is for remote control focusing. As long as this button is pushed down, the lens will move back and forth for focusing. The range is up to 50 ft. 120.00

GENERAL PROJECTOR ACCESSORIES

- 19,690 **Projector Table, self-storing.** Wooden with chrome-plated legs and tilting top. Folds down to become its own carrying case. 66.00
- 19,691 **Table Extension, 8 inches, for Karba projector table.** Increases table-top area. 4.80
- 19,692 **Felt Pad, green for top of Karba projector table.** 3.60
- 19,698 **IBA Arrow Pointer, Model No. O.** 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 **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 **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 O.** 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.** 2.60

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, sub-miniature 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 300mm 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, 250mm and 300mm 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	ITEM	RETAIL PRICE
98,500	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	\$101.40
98,501	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 without field condenser, focusing mount or lens	120.00
98,502	Complete with 90mm Colorplan f/2.5 projection lens.	180.00
98,504	As above, but with 100mm Hektor f/2.5	171.00
98,505	As above, but with 120mm Hektor f/2.5	201.00
98,506	As above, but with 150mm Dimaron f/2.8.	195.00
98,507	As above, but with 150mm Hektor f/2.5	226.50
98,508	As above, but with 175mm Hektor f/2.5.	280.50
98,509	As above, but with 200mm Dimar f/4.	198.00
98,520	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 without focusing mount or lens but with field condenser. . . .	195.00
98,522	Complete with 200mm Hektor f/2.5 projection lens.	351.00
98,523	As above, but with 250mm Dimar f/4.	282.00
98,524	As above, but with 250mm Hektor f/2.8. . . .	420.00
98,525	As above, but with 300mm Hektor f/2.8. . . .	549.00

ACCESSORIES AND REPLACEMENT PARTS

Slide and Film Strip Changers

37,807	Manual Slide Changer for 2 x 2 slides. Interchangeable with #37,818 (as replacement)	5.40
37,818	Semiautomatic Slide Changer for 2 x 2 slides. With two 30-slide magazines. Interchangeable with #37,807	21.00
37,809	"Anti-pop" Glass Pressure Plate, in mount for semiautomatic slide changer.	5.10
37,810	"Anti-pop" Glass Pressure Plate, unmounted. As replacement in #37,809	3.00
37,800	30-Slide Magazine for semiautomatic slide changer.	1.50
37,803	Magazine 2-Pack. Same as #37,800 but 2 magazines in a transparent plastic storage container.	2.85

CATALOG NUMBER	ITEM	RETAIL PRICE
37,802	Plastic Storage Box, transparent. Holds two 30-slide Leitz projector magazines. As supplied with #37,803.	\$ 1.05
37,801	Magazine 5-Pack, same as #37,800 but 5 magazines in a storage container.	6.90
37,823	Cardboard Storage Box for 5-Pack; replacement as supplied with #37,801.	2.40
37,805	Semiautomatic Film Strip Carrier 24 x 36mm. .	15.00
37,806	Mask for film strip frame 18 x 24mm.	1.50

Carrying Cases

98,560	Carrying Case for Prado "500" with lenses 90mm to 150mm and semiautomatic changer. .	15.00
98,561	Carrying Case for Prado "500" with lenses 200 to 250mm and semiautomatic changer. . .	21.00
37,403	Fiber Case for Prado "500" with long base.	36.00

Bulbs for Prado "500" Projector

98,564	500 Watt, T 10P, 120 volt pre-focus bulb. . . .	4.95
98,565	750 Watt, T 12P, 120 volt pre-focus bulb (requires extra heat filter).	5.35

Connecting Cord

37,652	Connecting Cord with switch to connect Prado "500" or Prado 66 to A.C. outlet (as replacement).	4.50
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PROJECTION LENSES, FOCUSING MOUNTS, CONDENSERS AND HEAT FILTERS FOR 2X2 INCH SLIDES

Projection Lenses

37,058	Elmar 50mm F/2.8 projection lens with focusing mount.	46.50
37,812	Adapter to fit Elmar 50mm projection lenses to Prado 500.	1.50
37,010	90mm Colorplan f/2.5 without focusing mount	48.00
37,000	100mm Dimaron f/2.8 without focusing mount	34.50
98,579	100mm Hektor f/2.5 without focusing mount	39.00

CATALOG NUMBER	ITEM	RETAIL PRICE
37,020	120mm Hektor f/2.5 without focusing mount	\$ 69.00
37,030	150mm Dimaron f/2.8 without focusing mount	61.50
37,040	150mm Hektor f/2.5 without focusing mount	93.00
37,050	175mm Hektor f/2.5 without focusing mount	141.00
37,060	200mm Dimar f/4 with focusing mount	72.00
37,070	200mm Hektor f/2.5 with focusing mount.	156.00
37,080	250mm Dimar f/4 with focusing mount	87.00
37,090	250mm Hektor f/2.8 with focusing mount.	225.00
37,091	300mm Hektor f/2.8, with focusing mount.	354.00

Focusing Mounts

37,100	Focusing Mount for 90mm, 100mm and 120mm lenses.	6.00
37,101	Focusing Mount for 150mm lenses.	7.50
37,102	Focusing Mount for 175mm lenses.	13.50

Front Attachment

98,568	Front Attachment with lens bracket, but without field condenser.	18.20
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Field Condensers

98,569	Field Condenser for use with 50mm lens on 2 x 2 inch projectors.	6.00
37,200	Field Condenser for 90, 100, 120mm lenses on 2 x 2 inch projectors.	6.00
37,201	Field Condenser for 150mm and 175mm lenses on 2 x 2 inch projectors.	6.00
37,202	Field Condenser for 200, 250mm and 300mm lenses on 2 x 2 inch projectors.	6.00

Aspherical Condenser

37,819	Aspherical Condenser, as replacement.	9.00
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Heat Absorption Filters

98,566	Heat Absorption Filter #1, as replacement.	9.00
37,811	Heat Absorption Filter #2, as replacement.	9.00
98,567	Heat Absorption Filter #3, needed when using 750 watt bulb	9.00

ACCESSORIES

ACCESSORIES FOR PROJECTING SUBMINIATURE SLIDES IN 2X2 INCH MOUNTS

CATALOG NUMBER	ITEM	RETAIL PRICE
98,570	25mm Summar F/2.8 Projection Lens in focusing mount. For projecting 8 x 11mm, 10 x 14mm, and other subminiature transparencies in 2 x 2 inch mounts	\$ 48.00
98,571	Special Condenser for use in Prado "500" with 25mm Summar f/2.8 projection lens #98,570	6.00

Micro Projection Attachments

32,800	Small Micro Projection Attachment with field condenser and 25mm Summar f/2.8 lens	80.00
32,806	Large Micro Projection Attachment with objectives 3.5/0.10, 10/0.25 and 25/0.50 as well as 4X Huygens projection eyepiece	266.60
98,851	Micro Aquarium, cemented on object slide, 1mm deep	10.80
98,852	Micro Aquarium, cemented on object slide, 1.5mm deep	10.80
98,853	Micro Aquarium, cemented on object slide, 2mm deep	10.80
37,850	Micro Aquarium, cemented on object slide, 2.5mm deep	10.80
98,854	Micro Aquarium, cemented on object slide, 3mm deep	10.80
98,855	Micro Aquarium, cemented on object slide, 4mm deep	10.80

FILM VIEWER and MICROFILM READER

98,550	Prado "500" as Microfilm Reader and Film Viewer, basic projector No. 98,500, Front Assembly #98,568 Field Condenser #98,569 and Film Strip Carrier #37,805	135.60
37,058	50mm Projection Elmar f/2.8 in focusing mount	46.50
37,812	Adapter to focus lens in reading box	1.50
31,212	Large Reading Box for Prado "500" with white projection surface set at convenient viewing angle and shielded from outside light w with swingout mirror, permitting projection of image on viewing screen or outside screen	57.00
98,551	Film Viewer and Microfilm Reader, complete	240.60

**Equipment for the Projection
of 2¼ x 2¼ Inch Slides**

<i>CATALOG NUMBER</i>	<i>ITEM</i>	<i>RETAIL PRICE</i>
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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 #37,203
- B. Large Heat Absorption Filter #37,814
- C. Front Assembly with field condenser, 2¼ x 2¼ inch slide changer and projection lens; select one of #32,333 through #32,391 in accordance with the anticipated projection distance.

37,203	Interchangeable Large Aspherical Condenser marked 6 x 6	\$ 14.10
37,814	Large Double Heat Absorbing Filter	30.00

Front Assemblies

32,333	Front Assembly with Field Condenser 2¼ x 2¼ inch slide changer and Dimaron 150mm f/2.8 projection lens	99.00
32,344	Front Assembly, as above, but with Hektor 150mm f/2.5 projection lens	130.50
32,355	Front Assembly, as above, but with Hektor 175mm f/2.5 projection lens	183.00
32,366	Front Assembly, as above, but with Dimar 200mm f/4 projection lens	108.50
32,377	¹ Front Assembly, as above, but with Hektor 200mm f/2.5 projection lens	184.50
32,388	¹ Front Assembly, as above, but with Dimar 250mm f/4 projection lens	115.50
32,399	¹ Front Assembly, as above, but with Hektor 250mm f/2.8 projection lens	253.50
32,391	¹ Front Assembly, as above, but with Hektor 300mm f/2.8 projection lens	382.50

¹ Use on Prado "Auditorium '500'".
For individual prices on the above lenses see section on Prado "66".

PRADO "66" PROJECTORS

For 2¼ x 2¼ and 2¼ x 2½ Inch Transparencies

The Prado "66" is basically the same 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 for 2¼ x 2¼ and 2¼ x 2½ slides.

<i>CATALOG NUMBER</i>	<i>ITEM</i>	<i>RETAIL PRICE</i>
98,530	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	\$118.50
98,531	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, 2¼ x 2¼ front assembly, but without lens and focusing mount.	147.00
98,532	Complete with 150mm Dimaron f/2.8 projection lens.	216.00
98,533	As above, but with 150mm Hektor f/2.5.	249.00
98,534	As above, but with 175mm Hektor f/2.5.	301.50
98,535	As above, but with 200mm Dimar f/4.	222.00
98,540	Prado " Auditorium '66' " Projector, similar to Prado "66" but with special long base to prevent vibration when used with heavy, long focal-length lenses, but without lens and focusing mount.	216.00
98,541	Complete with 200mm Hektor f/2.5 projection lens.	372.00
98,542	As above, but with 250mm Dimar F/4.	308.00
98,543	As above, but with 250mm Hektor f/2.8.	441.00
98,544	As above, but with 300mm Hektor f/2.8.	570.00

ACCESSORIES AND REPLACEMENT PARTS

Slide Changers For Prado "66"

<i>CATALOG NUMBER</i>	<i>ITEM</i>	<i>RETAIL PRICE</i>
37,816	Manual Slide Changer for 2¼ x 2¼ inch (60 x 60mm) slides.	\$ 7.50
37,815	Manual Slide Changer for 2¼ x 2¼ inch (70 x 70mm slides) (as replacement).	7.50
37,817	Manual Slide Changer for 35mm (24 x 38mm) or Super slides in 2 x 2 inch mounts . .	7.50

Carrying Cases

98,560	Carrying Case, for Prado "66" with 150mm lenses	15.00
98,561	Carrying Case for Prado "66" with 175mm, 200mm or 250mm lenses	21.00
37,403	Fiber Carrying Case for Prado "66" with long base	36.00

Bulbs

98,564	500 watt T 10 P 120 volt bulb	4.95
98,565	750 watt T 12 P 120 volt bulb	5.85

Connecting Cord

37,652	Connecting Cord with switch to connect Prado "500" or Prado "66" to A.C. outlet (as replacement).	4.50
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Lenses in Focusing Mount for 2¼" x 2¼"

Slide Projection

37,033	150mm Dimaron f/2.8 with focusing mount . . .	69.00
37,044	150mm Hektor f/2.5 with focusing mount . . .	102.00
37,055	175mm Hektor f/2.5 with focusing mount . . .	154.50
37,066	200mm Dimar f/4 with focusing mount	75.00
37,077	200mm Hektor f/2.5 with focusing mount . . .	156.00
37,088	250mm Dimar f/4 with focusing mount	87.00
37,099	250mm Hektor f/2.8 with focusing mount . . .	225.00
37,092	300mm Hektor f/2.8 with focusing mount . . .	354.00

Front Attachment with Field Condenser

CATALOG NUMBER	ITEM	RETAIL PRICE
98,590	Front Attachment with Lens Bracket and Field Condenser for 150mm and 175mm lenses.....	\$21.00
98,592	Front Attachment with Lens Bracket and Field Condenser for 200mm and 250mm lenses.....	21.00

Aspherical Condenser

37,203	Aspherical Condenser (as replacement)	14.10
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Heat Absorption Filters

37,814	Double Heat Absorption Filter in single mount (as replacement)	30.00
37,813	Heat Absorption Filter used in addition to #37,814 with 750 watt bulb	15.00

Micro Projection Attachments

See Prado "500" Section

37,819	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". . . .	9.00
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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 #37,817 listed previously. But for full optical efficiency of the condenser system, and to get a screen image as large as that given by the 2 $\frac{1}{4}$ x 2 $\frac{1}{4}$ 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 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 #37,819. This should replace the condenser inside the projector housing of the Prado "66" when converting for 2 x 2 inch slides.

Front Assemblies

CATALOG NUMBER	ITEM	RETAIL PRICE
32,610	Front Assembly with field condenser, 2 x 2 inch slide changer and 90mm Colorplan f/2.5 lens	\$ 78.60
32,600	Front Assembly, as above, but with 100mm Dimaron f/2.8 lens	65.10
98,562	Front Assembly, as above, but with 100mm Hektor f/2.5 lens	69.60
32,620	Front Assembly, as above, but with 120mm Hektor f/2.5 lens	99.60
32,640	Front Assembly, as above, but with 150mm Hektor f/2.5 lens	125.10

Aspherical Condenser

37,819	Aspherical Condenser	9.00
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Accessories and Replacement Parts for 2 x 2 Inch

Front Assemblies for Prado "66"

37,807	Manual Slide Changer as included in the above outfits, as replacement	5.40
37,818	Semiautomatic Slide Changer for 2 x 2 slides. With two 30-slide magazines. Interchangeable with #37,807	21.00
37,805	Semiautomatic Film Strip Carrier for 24 x 36 mm film strips.	15.00
37,806	Mask for film strip frame 18 x 24mm	1.50

PRADO "150" PROJECTOR

For home projection — especially when you want to take a projector along to a visit to someone else's home — nothing surpasses the little Prado "150". It has the precision construction of the larger Prados, measures only 3 3/8 x 6 1/4 x 9 3/4 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 Micro-film 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	ITEM	RETAIL PRICE
98,581	Prado "150" Projector, complete with 150 watt, 120 volt bulb, connecting cord, manual slide changer and 100mm Dimaron f/2.8 projection lens	\$78.00

ACCESSORIES AND REPLACEMENT PARTS

Slide and Film Strip Changers

37,807	Manual Slide Changer, as replacement	5.40
37,808	Semiautomatic Slide Changer, with two 30-slide magazines; interchangeable with #37,807.	22.50
37,805	Semiautomatic Film Strip Carrier, 24 x 36mm.	15.00
37,806	Mask for film strip frame, 18 x 24mm.	1.50

(See page E0 for slide magazines)

Carrying Cases

37,400	Carrying Case for Prado "150"	11.40
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Bulbs For Prado "150"

37,700	150 Watt 110/120 bulb	5.50
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**Interchangeable Lenses In Focusing Mounts
For the Prado "150" Projectors**

<i>CATALOG NUMBER</i>	<i>ITEM</i>	<i>RETAIL PRICE</i>
98,586	100mm Dimaron f/2.8 projection lens in focusing mount	\$ 37.50
37,058	50mm Elmar f/2.8 Projection Lens, in focusing mount	46.50
16,635	Extension Tube "B", 7mm, to focus lens at shorter distances	4.20

Microfilm Reader

31,009	Prado 150 Projector with special condenser for 50mm lens with bulb and film strip attachment, but without projection lens	50.10
37,058	Elmar 50mm f/2.8 coated projection lens without iris diaphragm, in focusing mount.	46.50
31,010	Reading Box accommodating Prado "150" projector (Cat. No. 31,009) 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	40.20
31,003	Microfilm Reader and Film Viewer complete.	136.80

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 bind them between glass. Then they are safe and you can easily clean the glass cover without ever touching the transparency itself.

Furthermore, glass-binding is the only way to keep slides absolutely flat in the focal plane of the projection lens. And the better the lens, the more important this becomes in preventing out-of-focus areas on the screen.

For greatest speed and convenience, either Perrot-Color or Per-O-Slide binders are recommended. For greatest economy, or when a large number of slides are involved, we recommend the Bindomat. The glass plates for the Bindomat have ground edges to prevent both cut fingers and cut binding tape, which might result from using glass plates with unground edges.

PERROT-COLOR AND PER-O-SLIDE BINDERS

The new Perrot-Color and Per-O-Slide mounts offer you the fastest method we know of to mount 35mm transparencies permanently between glass. 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.

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

When only untreated glass is used, it is best to use metal anti-Newton's Rings masks between the glass and the glossy side of the transparency in case of Newton Rings problems. These masks are available as accessories.

Users of $1\frac{1}{8}$ x $1\frac{1}{2}$ inch Superslides can also enjoy the advantages of Perrot-Color binders, since they are available with masks for this format. Outer dimensions of the Superslides binders are the same as those for 35mm transparencies.

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

Still another type of mount available is the Per-O-Slide — the answer to the busy hobbyist's prayer. The Per-O-Slide mount accepts your transparency complete with cardboard mount as it comes back from processing. The only preparation involved is the pre-trimming of the cardboard — a matter of seconds when using the special Procut trimmer which is specially designed for this purpose. The Per-O-Slide offers the quickest and easiest method of permanent glass-binding yet devised.

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

The Perocut trims not only regular double-frame (24mm x 36mm) photographs for use in Perrot-Color binders, but 24mm x 24mm, 18mm x 24mm and stereo sizes 24mm x 30mm and 24mm x 23mm as well.

FOR MOUNTING DOUBLE FRAME 35mm (24 x 36mm)
TRANSPARENCIES WHICH HAVE BEEN REMOVED
FROM THEIR CARDBOARD MOUNTS.

19,850	Perrot-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	Perrot-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	Perrot-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
19,863	Perrot-Color Ultra-Thin 2" x 2" metal slide mounts. Same as 19,852 except ultra thin for use in Magazines with their own metal frames. Must use Proloc Rapid Fastener (Cat #19,874) for sealing. Box of 25.	2.70
19,864	Perrot-Color Ultra-Thin 2" x 2" metal slide mounts. Same as 19,854 except ultra thin for use in Magazines with their own metal frames. Must use Proloc Rapid Fastener (Cat #19,874) for sealing. Box of 25.	3.30

**FOR MOUNTING DOUBLE FRAME 35mm (24 x 36mm)
TRANSPARENCIES WITHOUT REMOVING THEM FROM THEIR
CARDBOARD MOUNTS**

19,858	Per-O-Slide 2" x 2" metal slide mounts with glass plates accepting 35mm transparencies in cardboard mounts; film remains in the cardboard mount (Readymount); cardboard mount is trimmed by trimmer #19,877; unassembled, packaged in cardboard container. Box of 25	2.40
19,859	Per-O-Slide 2" x 2" metal slide mount with anti-Newton treated glass plates; unassembled, packaged in cardboard containers. Box of 25 . . .	2.85

**FOR MOUNTING SUPERSLIDE TRANSPARENCIES WHICH HAVE
BEEN REMOVED FROM THEIR CARDBOARD MOUNTS**

19,861	Perrot-Color Superslide Metal mounts with anti-ventional glass plates; trimming template included. Box of 24	2.85
19,862	Perrot-Color Superslide Metal mounts with Newton treated glass plates; trimming template included. Box of 24	3.45

**ACCESSORIES AND COMPONENTS FOR PERROT-COLOR AND
PER-O-SLIDE METAL BINDERS**

19,875	Proloc Rapid Fastener for sealing Perrot-Color and Per-O-Slide mounts; level operated . . .	2.10
19,874	Ultra-Thin Proloc Rapid Fastener for sealing Ultra-Thin Perrot-Color mounts; lever operated for use with #19,863 and #19,864	2.70
19,877	Procut Cardboard Mount Trimmer for use in trimming cardboard slide mount to fit Per-O-Slide Mounts, Cat. #19,858, 19859	5.10
19,876	Perocut Film Trimmer ; for precision trimming of 35mm film prior to binding. Trims regular transparencies to 24 x 36mm, 24 x 24mm or 18 x 24mm and stereo transparencies 24 x 30 mm. Has built-in illuminator	16.50
19,855	Metal Masks for preventing Newton's rings. Package of 50	1.20
19,857	Stereo Masks . For masking Stemar stereo transparencies in Perrot-Color 2" x 2" mounts. Box of 50	1.20
19,870	Perrot-Color Cover Glass Replacements (35 x 38mm). Package of 20 . . . . .	.54
19,871	Perrot-Color Cover Glass Replacements (35 x 38mm) anti-Newton's rings type. Package of 20	1.20
19,865	Metal Cover Frames for Perrot-Color and Per-O-Slide binders. Replacement for use when rebinding. (Not for Ultra-Thin or Superslide mounts). Package of 20 . . . . .	.66
19,860	Labels for slide identification (self-adhesive). Not for use with Superslide mounts. Package of 4 sheets, 40 labels per sheet . . . . .	.90
19,880	Plastic Box (transparent). Will hold 25 Perrot-Color or Per-O-Slide mounts. . . . .	.39

BINDOMAT AND GLASS PLATES

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.

CATALOG NUMBER	ITEM	RETAIL PRICE
19,820	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	Bindomat Replacement Spring . . . . .	.36
19,828	Bindomat Replacement Tape Core . . . . .	.24
19,829	Bindomat Replacement Bulb . . . . .	.16
19,821	Glass Plates with ground edges for mounting transparencies; box of 100	1.95
19,825	Silvered Masks (2 x 2 inch) with 24 x 36mm aperture for masking transparencies; box of 100	1.20
19,826	Stereo Masks (Silvered). For masking Stemar stereo transparencies when mounted between 2" x 2" glass; box of 50 . . . . .	.96
19,823	Binding Tape (1/2" wide), silver-finish, high-strength Mylar, for binding slides with Bindomat or other equipment. 70-ft. roll	1.95
19,822	Binding Tape (1/2" wide) Red, for binding slides with Bindomat or other equipment 70-ft. roll	2.25

PROJECTION SCREENS

The final link in the chain of equipment used in making and projecting color slides is the screen. If this link is weak, the strength of the others will have been wasted. The detail that lens, camera and film have recorded will be destroyed; the brilliance of the projector beam will be dimmed.

So that you may enjoy top-quality projection to the utmost, we are offering a selection of home-sized projection screens made by the manufacturers of the huge auditorium screens which so impressed the audiences of photo-lecturer Walter Benser on his American tours.

These "MW" screens are made by Mechanische Weberei, Bad Lippspringe, West Germany. The "Stella" is a box-type screen with four folding legs which provide for floor use; with the legs folded, the "Stella" can be placed on top of a table or stand. For storage or carrying, the "Stella" is self-contained in a rugged box equipped with a carrying handle.

The "Stellira" is a sturdy, handsomely-finished folding tripod model screen of familiar and popular design.

Both the "Stella" and "Stellira" are available with either of two screen surfaces and in a selection of sizes to fit nearly any home need.

SCREEN FABRICS

The "Blankana Extra" fabric is available for both types of the MW screens. It has a matt white surface which gives high brightness and outstanding definition and which reflects light back evenly to the audience over a wide angle of view. This means that the screen image will look as bright to viewers far off to one side of the projector as it does to those close to or directly behind the light beam.

The "Perluxe Extra" fabric gives still greater reflective brilliance than the "Blankana Extra", without any serious loss of reflectance angle or image definition.

Both screen fabrics are available in either the "Stella" or "Stellira" stands and in a choice of three sizes.

Large screens for special uses are available on special order through Franchised Leica dealers.

CATALOG NUMBER	SIZE	ITEM	RETAIL PRICE
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Model STELLA F

box type with four legs

98,600	40 x 40"	BLANKANA EXTRA, flat, mat white surface	\$ 46.50
98,601	40 x 40"	PERLUXA EXTRA, brilliant white surface	55.50
98,602	52 x 52"	BLANKANA EXTRA, flat, mat white surface	60.00
98,603	52 x 52"	PERLUXA EXTRA, brilliant white surface	78.00

Model STELLA FK
box type with four legs,
with cranking device

98,605	64 x 64"	BLANKANA EXTRA, flat, mat white surface	\$ 111.00
98,606	64 x 64"	PERLUXA EXTRA, brilliant white surface	156.00

Model STELLIRA
with deluxe collapsible stand

98,610	40 x 40"	BLANKANA EXTRA, flat, mat white surface	42.00
98,611	40 x 40"	PERLUXA EXTRA, brilliant white surface	45.00
98,612	52 x 52"	BLANKANA EXTRA, flat, mat white surface	60.00
98,613	52 x 52"	PERLUXA EXTRA, brilliant white surface	66.00
98,614	64 x 64"	BLANKANA EXTRA, flat, mat, white surface	81.00
98,615	64 x 64"	PERLUXA EXTRA, brilliant white surface	99.00

PROJECTION TABLES • PROJECTION DISTANCE AND SCREEN IMAGE SIZE

Distance	2 x 2 INCH (5 x 5) SLIDES WITH 24 x 36mm FORMAT						2 1/4 x 2 3/4 INCH (7 x 7) SLIDES WITH 6 x 6cm FORMAT			STEREO 2 x 2 INCH SLIDES WITH 24 x 36mm FORMAT (18 x 24mm PAIR)		
	Focal Length of Lens						Focal Length of Lens			Focal Length of Lens		
	90mm	100mm	120mm	150mm	200mm	250mm	150mm	200mm	250mm	85mm	100mm	120mm
10'	2'6" x 3'9"	2'3" x 3'5"					3'5" x 3'5"			2' x 2'8"	1'8" x 2'3"	
13'	3'3" x 4'11"	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' x 6'2"	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' x 7'8"	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'	5'9" x 8'9"	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'	6'7" x 10'	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'	7'8" x 11'8"	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'	8'5" x 12'9"	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 Stage Aperture

Screen Distance	6'	9'	12'	15'	18'	21'
Magnification	72 X	109 X	145 X	182 X	219 X	255 X
Image Size	2'4"	3'7"	4'9"	6'	7'2"	8'4"

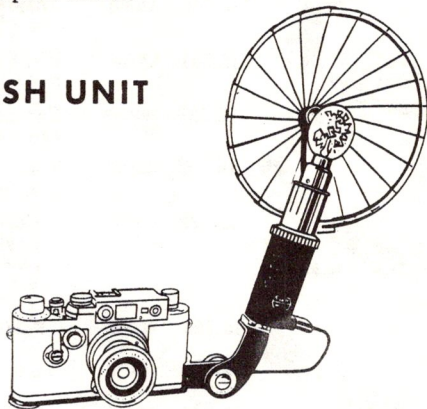
FLASH EQUIPMENT

You can choose between two basic types of flash equipment for your Leica—conventional and electronic. Each has its advantages. The flash unit for conventional flash bulbs (the CEYOO) is extremely small and light, and is very easy to carry plus the cost is modest. Operating power comes from a 22½ 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 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 the unit to assist you in checking electrical connections. CEYOO 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.

Current CEYOO units (engraved "P") will not cause premature firing, in parallel-wired multiple hook-ups, even when used with older models of the CEYOO which lacked a rectifier. When an older model is used with a current one, the older unit is placed at the camera and the current unit is used as the remote light.

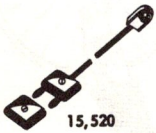
Two or more older CEYOO units (not engraved "P") are best used for multiple flash in a series-wired circuit. Simply replace the B-C insert of the remote units with Series Inserts and use Series Flash Plugs to connect the units.

CEYOO FLASH UNITS

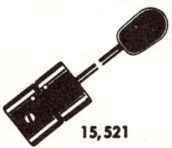
Catalog Number	Code Word	Item	Retail Price
15,500	CEYAL	Flash Unit with connecting cord fitting "f" and "g" series Leicas.	\$83.00
15,520	CNOOS	Connecting Cord for "f" and "g" series Leicas. Supplied with flash unit #15,500 . .	3.30
15,546	ZIOOQ	Adapter for mounting flash unit in accessory clip of Leica lf.	1.80
15,501	CEYAL-M	Flash Unit with connecting cord fitting "M" model Leica cameras.	83.00
15,521	MOONZ	Connecting Cord for "M" model Leica cameras. Supplied with flash unit #15,501.	3.30
15,502	CEYOPC	Flash Unit with connecting cord fitting shutters having Continental-type (P-C) outlet	33.00
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
15,532	VLOOF	Folding Reflector, matt finish.	6.80
15,533	CQQWO	Bayonet Bulb Adapter with ejector	5.70
15,534	COOOW	Test Lamp . . . . .	.45
15,535	COOWZ	B-C Insert with 22½ volt battery	7.80
15,536	COOUY	B-C Insert without battery	6.30
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



15,500



15,520



15,521



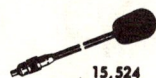
15,522

ACCESSORIES FOR CEYOO FLASH UNITS

Catalog Number	Code Word	Item	Retail Price
15,530	LCCEYO	Flash Unit CEYOO without connecting cord. Used for multiple flash.	\$29.70
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 Continental-type (P-C) connector	3.30
15,527	CCDPCE	Connecting Cord for connecting CEYOO flash unit to shutters having ASA double-post outlet. (Supplied with flash unit #15,510)	5.40
15,528	CCBTCE	Connecting Cord for connecting CEYOO flash unit to shutter having ASA bayonet-type outlet. (Supplied with flash unit #15,511)	5.40
15,529	CCKECE	Connecting Cord for connecting CEYOO flash unit to Exakta and Exa cameras with flash unit #15,512)	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	3.90
15,516	SMFIBH	Series Insert for series flash.....	2.05
15,517	SMFPBC	Series Flash Plug for series connection of multiple flash.....	4.80
15,545	CTOOM	Angle Bracket for mounting flash unit at side of the Leica	9.00
14,012	CLIPP	Shoe for mounting flash unit on other than Leica cameras	1.65
14,054	IXOOU	Synchro Outlet Cover for "M" model Leica cameras . . . . .	.30



15,523



15,524



15,543

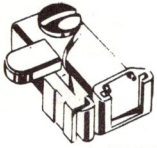

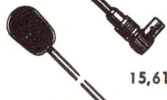
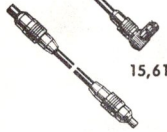
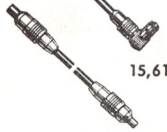
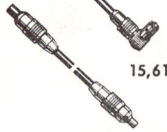


15,544



15,545

ACCESSORIES FOR DISCONTINUED CHICO FLASH UNITS

<i>Catalog Number</i>	<i>Code Word</i>	<i>Item</i>	<i>Retail Price</i>
 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
	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
	CUOOL	Connecting Cord, with bayonet lock, connecting Flash Unit to synchronizing outlet of "f" and "g" series Leicas. Supplied with # 15,603.	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. Supplied with # 15,604.	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	1.65

BRAUN HOBBY ELECTRONIC FLASH UNITS

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 3 units and the removable nickel-cadmium battery which powers the F 60 "Pocket-Pak" and the EF 2 NC.

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

The "Pocket-Pak" F-30, newest of the famous Braun Hobby electronic flash units, puts the fun back into flash photography by taking the fussiness out of it. Inspired electronic engineering has made the F-30 ultra-light and ultra-small, yet powerful and free of trailing power cords or the need for constant maintenance. It is powered by four inexpensive maintenance-free "C" size dry cells and is the perfect answer to spur-of-the-party or pick-up-and-go picture taking.

The Braun Hobby "Pocket-Pak" F-60 is almost identical in size and weight, and identical in output and operating characteristics as the F-30, but is powered with a tiny rechargeable nickel cadmium battery which 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 F-60 to a minimum the battery charger is not built in, but is supplied with the "Pocket-Pak" F-60 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 NC 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. There is ample light output to handle an extension flash head, which is available as an accessory. Its rechargeable nickel-cadmium battery is permanently installed and cannot be removed by the user. The nickel-cadmium 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.

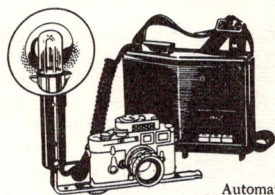
BRAUN HOBBY SPECIFICATIONS

	Automatic EF3	Special EF2NC	F-60 "Pocket-Pak"	F-30 "Pocket-Pak"	
Case Dimensions	9" x 6 3/4" x 3"	6 3/4" x 5 1/2" x 2 3/4"	4 1/2" x 5 1/2" x 1 1/4"	4 1/4" x 6 1/2" x 1 1/4"	
Total weight (with battery)	6 lbs. 7 ozs	4 lbs. 3 ozs.	23 ozs	27 1/2 ozs	
Flash duration	1/1000 sec.	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)	5600°K. (matches daylight color film balance)	
Watt seconds	Full-power position 135 Half-power position 60	70	40	40	
Reflector Coverage	Adjustable Choice of 50° or 70°	60°	65°	65°	
Guide Number	Daylight* Kodachrome	60° open lens 1 1/2 stops	45	32	32
	Daylight Kodakrome 11	96° open lens 1 1/2 stops	72	51	51
	Daylight Kodacolor with No. 85 Filter	70° open lens 1 1/2 stops	50	35	35
	Daylight Ektachrome E2	120° open lens 1 1/4 stops	80	60	60
	Daylight Anscochrome	110° open lens 1 1/2 stops	80	55	55
	Daylight Super Anscochrome	200° open lens 1 1/2 stops	140	100	100
	Daylight High Speed Ektachrome	240° open lens 1 1/2 stops	170	120	120
	Kodak Plus-X B & W	360° open lens 1 1/2 stops	250	180	180
	Flashes per Charge	A.C.	Unlimited	Unlimited	Unlimited
Barix battery		80	180	75	—
Nickel-cadmium battery		—	—	75	40
"C" Cells		—	—	—	—
Recycle	110 volts A.C.	8-9 sec.	2-3 sec.	5-7 sec.	—
	Battery	9 sec.	3-4 sec.	6-7 sec.	10 sec.	10 sec. **
Extension flash head available	Yes	Yes	Yes	No	No
Battery charge	Built in	Built in	Built in	Separate	None

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

**With Pertrix #235 "C" cells or Eveready E93 cells.

BRAUN HOBBY AUTOMATIC EF 3 ELECTRONIC FLASH UNIT

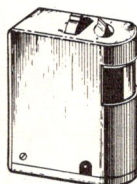
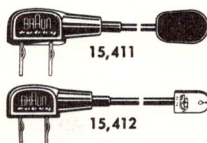


Automatic EF 3
(Camera Cord Extra)

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	\$124.00

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 Elec- tronic Flash Units. Connects to unit by means of 40cm cord. Two 30 Volt BC bat- teries required for high sensitivity. Without cord or batteries	22.50
15,413		Connecting Cord (40cm long) P-C type con- necting 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, 2½x3¼, 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



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

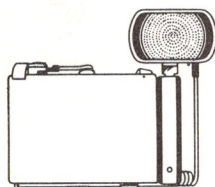
Replacement Parts for the Automatic EF 3 and Former Models of the Automatic

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

(FOR FUSES, SEE P. F 12)

BRAUN HOBBY SPECIAL EF 2 NC ELECTRONIC FLASH UNIT

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.

99.50

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	GSOON	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
15,459		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.

Catalog Number	Code Word	Item	Retail Price
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 (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	LCBHAW	Line Cord, black, (13-foot)	2.25
15,431		Line Cord, gray, (13-foot)	2.25

(FOR FUSES, SEE P. F12)

BRAUN HOBBY F60 "POCKET-PAK" ELECTRONIC FLASH UNIT



Braun
Hobby
F60
"Pocket-
Pak"

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. con- necting cord, but without camera connecting cord	\$79.50
15,405		F 60 "Pocket-Pak" Storage Battery Flash Unit, same as #16,384, but without battery charger or A.C. connecting cord	64.50
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

BRAUN HOBBY F-30 "POCKET-PAK"

15,407		F-30 "Pocket-Pak" Flash Unit without batteries and camera connecting cord.	62.50
15,406		F-30 "Pocket-Pak" Flash Unit same as above but with 4 EVERREADY E93 batteries.	64.30
15,427		EVERREADY Battery E 93 (shipped only in cartons of 12 to dealers) . . . . .	.60

Accessories for the F 60 & F 30 "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 sensi- tivity. 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 F12)

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	BRC CPA	Connecting Cord (40cm long) for Continental-type (P-C) outlet.	2.75
15,414	BRC CRA	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, 2¼x3¼, 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

Catalog Number	Code Word	Item	Retail Price
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



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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