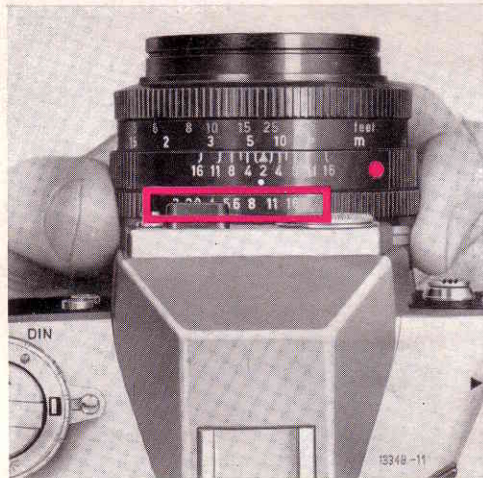
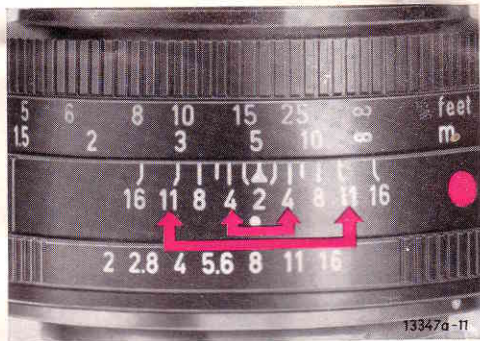


The automatic lens aperture

remains fully open for maximum viewing and focusing efficiency, except for the brief interval of exposure. The aperture preselector ring (18) has click-stop settings for each aperture and half-aperture. This ring couples to the exposure meter follow-pointer.



The depth-of-field scale



Distances in front of, and behind, the plane of sharpest focus that will be reproduced with acceptable sharpness are indicated for each lens aperture. The arrows above indicate the depth-of-field for $f/4$ and $f/11$.

LEICAFLEX lens changing

LEICAFLEX lenses can be inserted and removed regardless of their distance or auto-aperture settings. Grasp the lens by the stationary ring (17), and follow these simple directions:

To remove the lens,

press the release-lock (4), turn the lens to the **left**, and lift out as shown by the arrow above.



To insert a lens,

align the raised red dot on the lens barrel with the red dot on the lensmount, press the lens straight into the opening, and turn to the **right** (as shown below) until the bayonet clicks audibly in the locked position.

Avoid lens-changing in direct light! Turn the open lensmount toward your body to avoid strong illumination.



Series filters



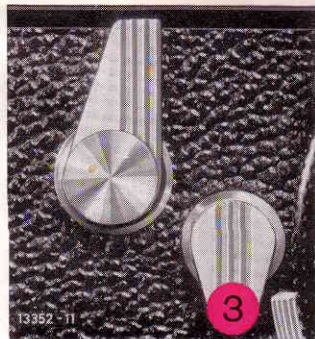
Every LEICAFLEX lens is supplied with a filter-retaining ring (b) engraved with its Series size. The 35- and 50mm LEICAFLEX lenses use Series VI filters; the 90- and 135mm, Series VII. To mount a filter, remove the retaining-ring, drop the filter in, and replace. (If the retaining-ring is screwed in very tightly, do not attempt to unscrew with force. Instead, grasp the ring at any point on its circumference with thumb and forefinger, turning slightly to the left to loosen.)

Lenshoods



Lenshoods (a) should always be used for best optical quality. The 35- and 50mm LEICAFLEX lenses use the same reversible lenshood (No. 14164L), which may be reversed over the lens for easier transport, or when the camera is carried in its ever-ready case. Press the two chromed spring releases before mounting or removing this lenshood. The 90- and 135mm LEICAFLEX lenses have built-on telescoping lenshoods which are simply drawn forward for use.

The LEICAFLEX mirror-control lever (3)



Position 1 (UPRIGHT) = Instant-return mirror, springing up as the release is pressed, and returning immediately after each exposure.

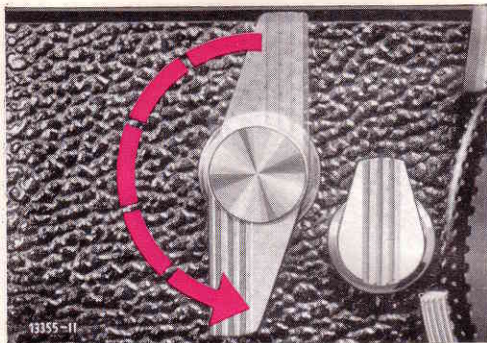
Position 2 (TO SIDE) = Mirror springs up as soon as shutter is released, and remains locked up until control lever is returned to Position 1.

Position 3 (DOWNWARD) = Mirror is locked up **before** shutter is released, and remains locked up until control lever is returned to Position 1. If the transport-

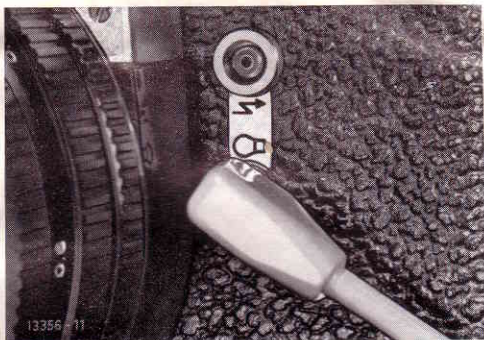
lever (13) is tensed, mirror rises as soon as Position 3 is set; if not, mirror will rise when transport-lever is stroked to retension the camera.

IMPORTANT! After a series of exposures have been made with the control lever in Positions 2 or 3, this lever should be returned to Position 1 **before** retensioning the camera. If the camera is retensioned before resetting to Position 1, it will be necessary to make a blank exposure before the mirror will return.

The self-timer






Flash synchronization



An exposure delay of about 10 seconds is introduced when the lever is swung all the way down, as shown above. The delayed shutter action is started by pressing the camera release-button (14). Note that the exposure occurs just before the self-timer lever returns to its upward position.

The upper contact marked ⚡ is for synchronizing electronic-flash units at speeds of up to $1/100$ sec (= ⚡ on the speed dial). The lower contact marked ? is for synchronizing flashbulbs. The table on the next page gives full synchronization data for the most widely used flashbulbs.

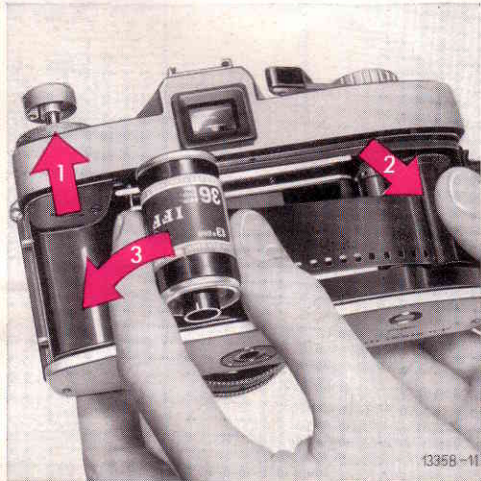
LEICAFLEX Flash Table

Electronic-Flash		B →  (=1/100)	
Flash bulbs	M 2	1 → 1/30	Contact (upper)
	XM 1 PF 1 PF 5	1 → 1/125	 Contact (lower)
	GE 5 25 M 3	1 → 1/250	
	AG 1	1 → 1/60	

Film Loading

To open camera back press flat button in center of locking-bar (23), simultaneously pressing bar upward. **1** Pull rewind crank up to remove finished film. (The LEICA-FLEX accepts all standard 35mm cartridges; it does not accept LEICA cassettes.) **2** Turn take-up spool to locate one of 3 loading slits, if necessary. **3** With shiny side of film facing you, push tongue into loading slit, press perforations over lower transport gear, and hold in place with

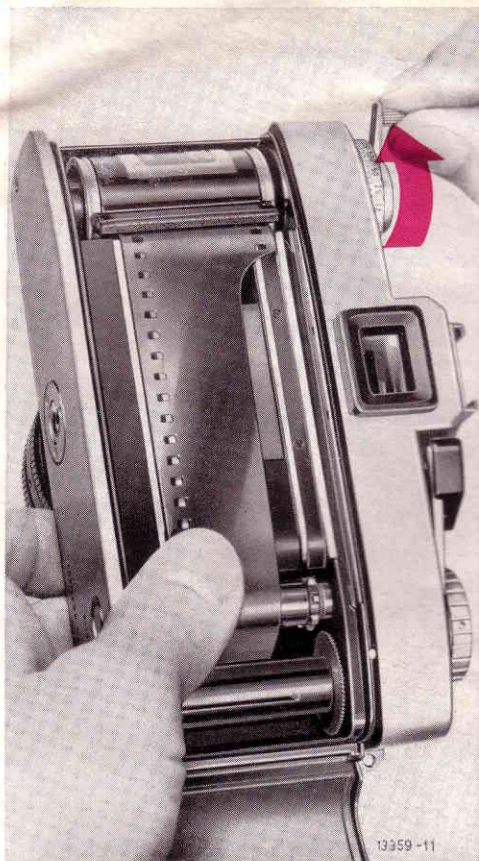
right-hand thumb. **4** Pull film to the left, drawing out minimum needed, and drop cartridge into left-hand chamber. Lower rewind crank and turn to remove slack. **Film must run straight between guide-rails!** **5** Close camera back, pressing locking-bar downward. Take 2 blank exposures, observing that rewind turns in opposition to arrow. The automatic frame counter (which springs to 2 marks before 0 when back is opened) will now stand at 0. The LEICAFLEX is now ready to shoot!



Rewinding the exposed film



Press the rewind button (21) on the bottom of the camera, unfold the rewind crank (10), and turn in the direction of the arrow until no further resistance is felt. **Do not pull up on the rewind crank while rewinding!** The rewind button (21) will stay down in the proper rewinding position until the transport lever (13) is stroked. For maximum security and convenience, hold the LEICAFLEX as shown above when rewinding. As the film is rewound the frame-counter (15), will turn backward toward "O". After rewinding, pull the rewind crank up to remove the finished film cartridge.



MACROTAR lenses

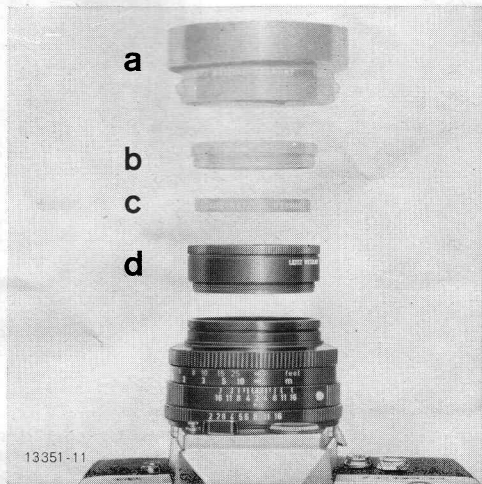
are precision two-element coated achromats especially designed to extend the focusing possibilities of the 50-, 90-, and 135mm LEICAFLEX lenses into the close-focusing ranges with optimum image quality.

®MACROTAR lenses VIa (Catalog No. 16531 E) and VIb (No. 16532 F) were computed **exclusively** for use with the 50mm ®SUMMICRON-R f/2 lens, and provide critical corner-to-corner close-up quality, even at medium lens apertures.

MACROTAR lens VIIa (No. 16533 G) was computed to match the correction of the 90- and 135mm ELMARIT-R f/2.8 lenses. The MACROTAR VIIb (No. 16534 H) is intended only for use with the 135mm ®ELMARIT-R f/2.8 lens.

The MACROTAR data table on the next page gives full operating information. The normal operation of the LEICAFLEX is in no way changed by the use of the MACROTAR lenses, and no exposure-increase factors are required.

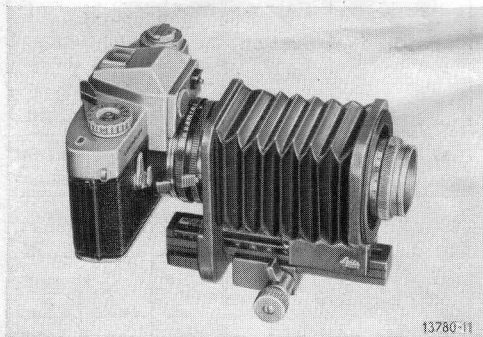
To mount a MACROTAR (d)
first unscrew the filter retaining-ring (b), and screw directly into the threaded front flange of the LEICAFLEX lens. Filters (c) and lenshoods (a) are used in the normal way, as described on page 18.



LEICAFLEX lens	M A C R O T A R	Dis- tance scale setting	Approx. distance		Field covered (inches)	Repro- duction ratio	Depth -of- Field (inches)		
			Subject -to- film in inches	Subject -to- MACRO- TAR in inches			f/8	f/11	f/16
50mm SUMMICRON-R f/2	VI a	∞	19 ¹¹ / ₁₆ "	16 ¹ / ₁₆ "	7 ¹ / ₄ " x 10 ⁷ / ₀ "	1: 7.7	1 ³ / ₈ "	1 ⁷ / ₈ "	2 ³ / ₄ "
	VI a	20"	12 ¹ / ₈ "	8 ¹ / ₄ "	3 ⁵ / ₈ " x 5 ⁷ / ₁₆ "	1: 3.8	2 ⁵ / ₆₄ "	9 ¹ / ₁₆ "	2 ⁵ / ₃₂ "
	VI b	∞	11 ⁷ / ₈ "	8 ³ / ₁₆ "	3 ¹¹ / ₁₄ " x 5 ⁹ / ₁₆ "	1: 3.9	1 ³ / ₃₂ "	9 ¹ / ₁₆ "	1 ³ / ₁₆ "
	VI b	20"	9 ¹ / ₂ "	5 ⁹ / ₁₆ "	2 ⁷ / ₁₆ " x 3 ¹¹ / ₁₆ "	1: 2.6	3 ¹ / ₁₆ "	9 ¹ / ₃₂ "	3 ¹ / ₈ "
90mm ELMARIT-R f/2.8	VII a	∞	29 ¹ / ₁₆ "	24 ¹ / ₁₆ "	6 ⁵ / ₁₆ " x 9 ¹ / ₂ "	1: 6.7	1 ¹ / ₁₆ "	1 ¹ / ₂ "	2 ¹ / ₈ "
	VII a	28"	17 ⁷ / ₁₆ "	11 ¹³ / ₁₆ "	2 ⁷ / ₈ " x 4 ⁵ / ₁₆ "	1: 3.0	1 ⁷ / ₆₄ "	3 ¹ / ₈ "	1 ⁷ / ₃₂ "
135mm ELMARIT-R f/2.8	VII b	∞	4'11"	4'5 ¹ / ₄ "	9 ⁵ / ₁₆ " x 14"	1: 9.9	2 ¹ / ₄ "	3 ¹ / ₈ "	4 ¹ / ₂ "
	VII b	5'	33 ¹ / ₂ "	27 ³ / ₁₆ "	4 ¹ / ₄ " x 6 ³ / ₈ "	1: 4.5	1 ⁷ / ₃₂ "	2 ³ / ₃₂ "	1 ¹ / ₁₆ "
	VII a	∞	29 ¹³ / ₁₆ "	24 ¹ / ₁₆ "	4 ¹ / ₄ " x 6 ³ / ₈ "	1: 4.5	1 ⁷ / ₃₂ "	2 ³ / ₃₂ "	1 ¹ / ₁₆ "
	VII a	5'	23 ¹ / ₈ "	16 ¹³ / ₁₆ "	2 ⁵ / ₈ " x 3 ¹⁵ / ₁₆ "	1: 2.8	7 ¹ / ₃₂ "	5 ¹ / ₁₆ "	7 ¹ / ₁₆ "

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

Using LEICA lenses with the LEICAFLEX



Because its moving mirror requires a longer lensmount-to-film distance, the LEICAFLEX can not be used with rangefinder-focusing LEICA lenses.

The special LEICA-to-LEICAFLEX lens adapter No. 14 127 F permits the use of all VISOFLEX II/III lenses and accessories with the LEICAFLEX. This includes the FOCUSING BELLOWS II.

The aperture simulator:

The LEICA-to-LEICAFLEX lens ring is equipped with an aperture simulator that couples to the follow-pointer of the LEICAFLEX exposure meter. This is used to set the correct exposure exactly as with a LEICAFLEX lens. After correct exposure has been determined, the aperture indicated on the simulator scale is then transferred to the LEICA lens.

The following LEICA lenses and accessories can be used directly with the ring No. 14 127 F on the LEICAFLEX: FOCUSING BELLOWS II, with any applicable LEICA lens.



90mm ELMAR f/4 (lens-head in mount No. 16 467 N, "OUAGO")

90mm SUMMICRON f/2 (in short VISOFLEX II/III focusing mount)

Universal Focusing Mount No. 16 464 K ("OTZFO") with:

65mm ELMAR f/3.5

90mm ELMARIT f/2.8 (lens-head)

135mm ELMAR f/4 (lens-head in ring No. 16 472 K, "OTSRO")

135mm HEKTOR F/4.5 (lens-head in ring as above)

The following LEICA lenses can be used with the LEICAFLEX with the ring No. 14 127 F plus the ring No. 16 466 M ("OUBIO"):

125mm HEKTOR f/2.5

135mm ELMAR f/4, in short focusing mount

135mm HEKTOR f/4.5, in short focusing mount

200mm TELYT f/4 (and f/4.5)

280mm TELYT f/4.8

400mm TELYT f/5

FOCORAPID, fast-focusing mount with:

135mm ELMAR/HEKTOR (lens-heads in ring No. 14 114 A)

200mm TELYT f/4 (lens-head directly)

200mm TELYT f/4.5 (lens-head in ring No. 14 113 H)

280mm TELYT f/4.8 (lens-head in ring No. 14 112 G)

Caring for your LEICAFLEX lenses

The special LEITZ hard anti-reflection coating on the outer surfaces of your LEICAFLEX lenses is abrasion-resistant, but not scratch-proof! Treat lens surfaces with great care, always starting any cleaning process by dusting with a camel's-hair lens brush. If this doesn't suffice, wipe gently with a soft, well-laundered linen cloth, a clean piece of chamois leather, or a high-grade (white) optical lens tissue. Avoid any colored or chemically impregnated tissues which are intended only for eyeglasses. Use lens cleaning fluids sparingly, if at all. When not in use, the front

and rear lens surfaces should be protected by using the front and rear lenscaps supplied for this purpose. Above all, remember:

It is better to keep your lenses clean, than to keep cleaning your lenses!

When photographing in sandy, dusty, or other potentially dangerous places, protect the front lens surface by using a clear LEITZ UVa (ultra-violet absorbing) filter. This filter will not affect the exposure time. Lenshoods, which improve optical quality by blocking-off stray light rays, also protect against accidental contacts with the front lens surface, and are a big help in rainy weather. When photographing near salt water, always use the UVa filter to prevent air-borne salt from settling on the lens. Should salt water ever splash on your camera or lens, clean by first wiping with a cloth dampened in ordinary tap-water, then dry thoroughly with a second piece of clean cloth.