

# General Catalogue

Cameras  
Projectors  
Binoculars  
Enlargers  
Copying stands



Edition of  
1st July 1977



# **General Catalogue of Photographic Equipment**

ERNST LEITZ WETZLAR GMBH GERMANY



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® = Registered Trademark

Accessories for discontinued articles on request (Ernst Leitz GmbH, After Sales Service P. O. Box 20 27, Wetzlar, Germany).

We shall be pleased to make blocks available for publication. Please indicate the block numbers found next to or below the illustrations, when we shall send them to you in the same size free of charge.

The illustrations in this catalogue are not necessarily binding in every technical detail.

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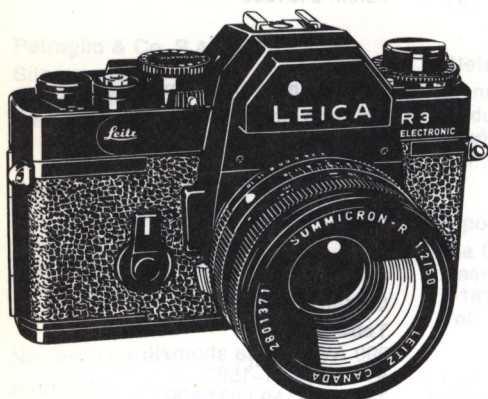
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# LEICA R 3 electronic

and lenses (pages 11-32)



10 032

11 215

29101-111

## LEICA R 3 electronic

**S.L.R. camera with pentaprism. Hinged camera back.** Eyelets for carrying strap on both sides. Brass top and baseplate, chromium plated in silver or black finish.  $\frac{1}{4}$ " tripod thread.

**Rapid bayonet changer** for the lenses. Finely-ground micro-prisms ensure bright and contrasty **viewfinder image**. Sharpness assessment across the entire **viewfinder field**. **Depth-of-field button**. **Central micro-prism ring with additional split-image rangefinder** for positive focusing. Combined lens stop/shutter speed display in the viewfinder.

**Measurement at full aperture with all R lenses with automatic diaphragm, and at working aperture with all lenses without automatic diaphragm according to two different measuring methods by means of 3 CdS double photo resistors.** Can be changed from integrated (effective) to selective measurement (exact measuring field limit 7mm dia.; corresponding to the measuring screen).

**Automatic exposure control** for both measuring methods. Storage of the measured value with spot measurement when the release button is pressed (taking up the slack). Shutter speeds continuous from 4 sec to 1/1000 sec. Display of the shutter speeds in the viewfinder.

### **Changeover to manual measurement for both measuring methods.**

Setting at shutter speeds indicated on the dial from 4 sec to 1/1000 sec by hand.

Coupled lens stop, shutter speed, and film speed selector from 12-36 DIN 12-3200 ASA. Exposure corrections of up to  $\pm 2$  light values can be set.

**Click-stop shutter speed dial.** The shutter speeds set are displayed in the viewfinder. Arresting at automatic position "A". **Facility for multiple exposures** with automatic backwind.

**CLS metal blade focal-plane shutter** (Copal LEITZ shutter) for fully electronic, continuous shutter control from 4 sec to 1/1000 sec at the automatic setting ("A"). With manual setting, fully electronic shutter control for 4, 2, 1, 1/2, 1/4, 1/8, 1/15th, 1/30, 1/60, 1/125, 1/250, 1/500, 1/1000 sec. Mechanical shutter control at "A" setting = 1/90 sec. "B" = time exposures of any desired duration.

Two silver oxide button cells, type Varta N 7301, National G 13, Mallory MS 76 or Ucar S 76.

### **Battery test.**

**Automatic synchronization** for flashbulbs up to 1/250 sec, for electronic flash units up to 1/90 sec.

**Separate standard contacts** for flashbulbs and electronic flash units.  
Accessory shoe contact or contact in the flash unit holder.

**Adjustable self-timer.** LEITZ rapid winding lever with standby position for shutter wind and film transport.

**Main switch for battery;** also serves as a release block.

**Automatic frame counter.**

**Film transport indicator.**

**Film cartridge window.**

**Folding rewind crank.**

**Rapid film change** for all commercially available 35mm films.

Convenient lock for the camera back.

Shoe for special viewfinders and other accessories.

**Very broad carrying strap with non-slip pad.**

**Dimensions:** height 76mm, length 148mm,  
total depth 64.8mm (depth of body 32mm).

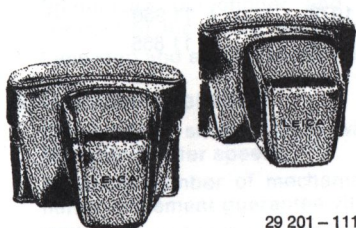
Weight: 0.780 kg.

Code No.

LEICA R 3 electronic, silver chromium finish . . . . . 10 031

LEICA R 3 electronic, black chromium finish . . . . . 10 032

**Leather ever-ready case for the LEICA R 3 electronic  
with ordinary front** for 50mm lenses with lens hood . . . . . 14 506



29 201 - 111

**Leather ever-ready case for the LEICA R 3 electronic  
with large front** for the following lenses: 16mm f/2.8,  
28mm f/2.8, 35mm f/2.8, 35mm f/2, 60mm f/2.8 (without 1:1  
adapter), 90mm f/2.8, 90mm f/2 . . . . . 14 507

LEICAFLEX lenses can subsequently be converted for the use also with the LEICA R 3.

Same R-lenses can also be fitted with a new aperture ring which becomes visible in the LEICA R 3 viewfinder.



The following LEITZ-R-lenses will be delivered with an additional R 3 control segment. Please note serial number or date.

Lenses	Serial No. or date	Code No.
FISHEYE-ELMARIT-R f/2.8 16mm	1. 9. 1976	11 222
ELMARIT-R f/2.8 19mm	No. 2736900	11 225
SUPER-ANGULON-R f/4 21mm	31. 10. 1976	11 813
ELMARIT-R f/2.8 24mm	No. 2719572	11 221
ELMARIT-R f/2.8 28mm	No. 2726021	11 204
SUMMICRON-R f/2 35mm	No. 2731769	11 227
ELMARIT-R f/2.8 35mm	No. 2668376	11 201
PA-CURTAGON-R f/4 35mm	31. 10. 1976	11 202
SUMMICRON-R f/2 50mm	No. 2758826	11 228
SUMMILUX-R f/1.4 50mm	No. 2515901	11 875
MACRO-ELMARIT-R f/2.8 60mm	No. 2761535	11 203
ELMARIT-R f/2.8 90mm	No. 2734951	11 239
SUMMICRON f/2 90mm	No. 2761083	11 219
ELMARIT-R f/2.8 180mm	No. 2753081	11 919
ELMAR-R f/4 180mm	with segments	11 922
APO-TELYT-R f/3.4 180mm	No. 2749556	11 240
VARIO-ELMAR-R f/4.5 80-200mm	No. 2773201	11 224
TELYT-R f/4 250mm	No. 2695343	11 920
TELYT-R f/6.8 400mm	31. 10. 1976	11 960
TELYT-R f/6.8 560mm	31. 10. 1976	11 865

# Important Sales Points for the LEICA R 3

Moderate price – modern – simple

## 1. Correct exposure – everytime'

LEITZ full screen integral measurement by three double photo-resistors.

Also facility for spot measurement with precise limitation of the centre circle measuring area. Spot-measuring cell mounted in the floor of the camera, shielded against stray light.

## 2. Simple operation – automatic mode

Automatically determined exposure times from 4 to 1/1000 sec., continuously variable for both exposure measuring methods.

With spot measurement, storage facility of the measured value up to 30 secs, is possible.

## 3. Individual control – manual mode

Choice of shutter speed/lens stop combination for manual exposure measurement.

Exposure correction of up to  $\pm 2$  values.

## 4. Quick Viewfinding

Micro-prism screen with groundglass screen effect and mirror with 17 coatings produce a bright viewfinder image.

Split-image rangefinder and micro-prisms as well as the high image contrast of the LEITZ lenses make optimum focusing easier.

Lens stop and shutter speed indicated in the viewfinder.

## 5. Reliable operation

Copal LEITZ shutter (CLS) with LEITZ patented control slide system for accurate shutter speeds.

Minimum number of mechanical parts and the crank guide drive for the mirror movement guarantee vibration-free shutter release.

With battery failure, a mechanical shutter speed of 1/90 sec. is always available.

Film cartridge viewing window.

Large bayonet for quick lens change.

Easy film insertion, precise control of film transport.

## 6. Many possibilities of use

24 interchangeable lenses.

Wide range of system accessories.

Facility for multiple exposure.

## 7. First-class quality

Assembly in a LEITZ factory.

Inspection to LEITZ standards.

Camera top and baseplate of 0.8mm brass.

Hardened components wherever necessary.

Factory-adjusted focusing screen.

Endurance test with 50,000 shutter releases.

Use of well-tried components of the LEICAFLEX SL 2.

LEICA-R lenses by LEITZ Wetzlar and Canada.

## 8. Neat design

Stylish, abrasion-resistant LEITZ black chromium finish.

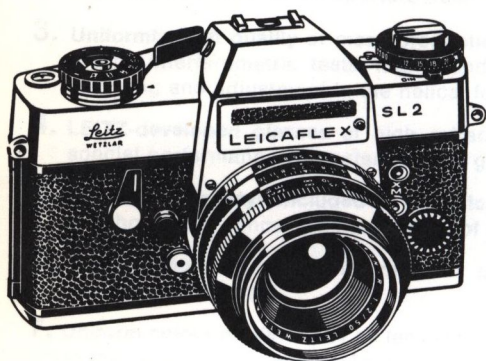
# Important Sales Points for LEICA lenses

- 1. Excellent optical performance** at all apertures and distances within the designed operating range (no exaggerated claims of apertures and focusing distances).
- 2. High contrast** even at full aperture (facilitates focusing).
- 3. Uniformly high quality** of mass production through suitably matched elements, interferometric tests, high standards of surface finish and final matching and adjustment in the helical focusing mount.
- 4. LEITZ-developed glasses** of high refractive indices, hard surfaces and special performance characteristics (e. g. abnormal partial dispersion).
- 5. Lens hoods always included in the price of the lens** (the absence of a lens hood may cancel the advantages of multicoating).
- 6. Multicoating** only where this improves performance (for instance of the wide-angle R lenses).
- 7. Uniform colour rendering** by all lenses through Absorban layers embedded in the cement layer, absorbing the U. V. light.
- 8. Smooth and backlash-free focusing** ensured by the use of brass and aluminium for the helical mount.
- 9. Precise setting of the preselected aperture value** through spring-back diaphragm on ball bearings and with long travel (no bounce, resulting in inaccurate setting).
- 10. Quick lens change** through tangible and visible lens locking indication. Large bayonet for high precision and positive seating.
- 11. LEICA lenses are**  
subjected to a hardness test.  
corrosion protected.  
tested with 50,000 actions.  
unaffected by temperatures between  $-35$  to  $60^{\circ}\text{C}$ .





# LEICAFLEX SL 2/SL 2 MOT and lenses and SL 2 MOT accessories



10 021  
11 228

## LEICAFLEX® SL 2

**Single-lens-reflex camera** with pentaprism. **Hinged back**. Eyelets for carrying strap on both sides. Chromium-plated camera top and base plate.  $\frac{1}{4}$ in tripod thread.

Finely-ground micro-prisms ensure **very bright viewfinder image**. Sharpness assessment across the entire viewfinder field. **Depth-of-field button**. **Central micro-prism ring** with **additional split-image rangefinder** for positive focusing. Combined lens stop/shutter speed display in the viewfinder.

**Selective light metering through the lens** at full aperture. Built-in CdS exposure meter, which can be switched off. Measuring- and follow pointer visible in the viewfinder. **Illuminated measurement read-out** for poor lighting conditions. Aperture, shutter speed, and film speed selector coupled from 10-39 DIN (8-6,400 ASA) PX 625 Mallory battery (replacements from Messrs. Mallory). **Rapid bayonet changer** for the lenses.

**Click-stop shutter speed dial**, the shutter speed set on the dial is visible on a scale in the viewfinder.

### **Battery test.**

**Focal plane shutter\*** for 1,  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{15}$ ,  $\frac{1}{30}$ ,  $\frac{1}{60}$ , ( $\frac{1}{100}$ ),  $\frac{1}{125}$ ,  $\frac{1}{250}$ ,  $\frac{1}{500}$ ,  $\frac{1}{1000}$ ,  $\frac{1}{2000}$  sec and time exposures of any duration.

**Automatic flash synchronization** for flashbulbs up to  $\frac{1}{250}$  sec, for **electronic flash units up to  $\frac{1}{100}$  sec**.

Separate standard contacts for flashbulbs and electronic flash units. Accessory-shoe contact or contact in the flash unit holder, can be used simultaneously with the other flash contacts.

Adjustable **self-timer**.

**Rapid winding lever with double exposure lock** for shutter wind and film transport.

**Folding rewind crank**.

**Rapid film change** for all commercially available 35mm films.

Automatic frame counter.

Self-locking camera back.

Film indicator.

Shoe for special viewfinders and other accessories.

Carrying strap with non-slip pad.

**Dimensions:** Height 97mm (3.8in), length 148mm (5.9in), depth 57mm (2.25in).

\* Cold-proofing to  $-30^{\circ}\text{C}$  on request.

- LEICAFLEX SL 2 body \*, silver chromium . . . . . 10 021
- LEICAFLEX SL 2 body \*, black chromium . . . . . 10 022



14 504

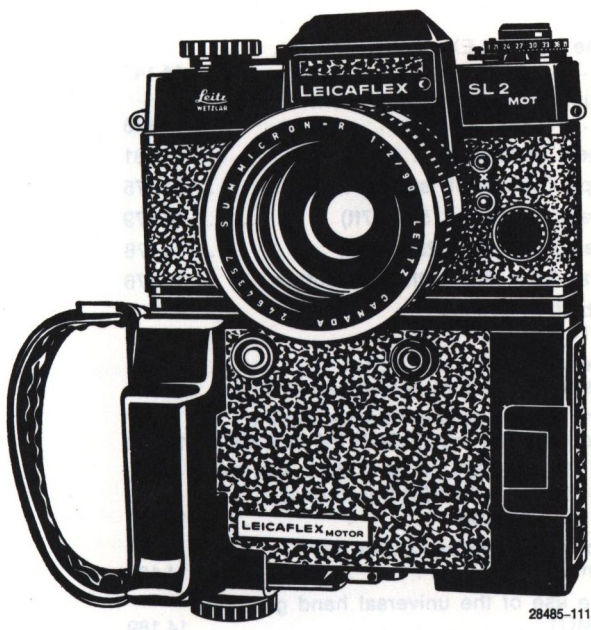
28962-111

Ever-ready case for LEICAFLEX SL 2 with normal front for 50mm f/2 lens with lens hood . . . . . 14 504

Ever-ready case for LEICAFLEX SL 2 with large front for the following lenses: 16mm f/2.8, 28mm f/2.8, 35mm f/2.8, 35mm f/2, 60mm f/2.8 (without adapter), 90mm f/2.8, 90mm f/2 . . . . . 14 509

Leather case for lens hood . . . . . 14 621

Large front part as replacement . . . . . 14 508



10 023

14 077

28485-111

### LEICAFLEX SL 2 MOT

As LEICAFLEX SL 2, but without self-timer, and with **electrical and mechanical junctions for the use of the LEICAFLEX motor.**

Baseplate, camera, and motor in black finish.

The camera can also be used without motor.

\* On request available with microprism screen or with full groundglass screen.



**LEICAFLEX motor** to be used exclusively on the LEICAFLEX SL MOT or SL 2-MOT.

**Automatic shutter wind** for serial and single exposures.

**Remote control** through electric cable connection or radio release etc.

**Frame frequencies** from 3–4 fps.

Switch for camera and motor operation, as well as single-frame exposures.

**Battery housing** for 10 NC batteries, such as DEAC 501 RS by Varta AG (or 10 1.5v midget batteries).

This requires a charger by Varta, Code No. GF 1.2–12/0.005–0.5.

The charger must charge at about 45mA, i.e. it must be set for 10 batteries.

**Frame counter** for motor-released exposures.

**End switch** for 36 exposures and  $\infty$ -position.

**3-pin connection** for remote control and remote counter.

**Radio remote control** on request.

**Dimensions:** Height 92mm (3.16in), Length: 145mm (5.7in), Depth: 40mm (1.6in)

Code No.

<b>LEICAFLEX SL 2-MOT body</b> , black chromium*, split-image rangefinder, with motor connection . . . . .	10 023
<b>LEICAFLEX-motor</b> , with carrying strap . . . . .	14 077

**Accessories:**

<b>Battery housing</b> for the LEICAFLEX motor, separate, (replacement) . . . . .	14 147
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<b>Tripod holder</b> for mounting the motor equipment on a tripod . . . . .	14 148
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<b>Hand grip</b> for hand-held exposures . . . . .	14 181
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<b>Cable</b> for remote supply (with safety switch) . . . . .	14 175
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<b>Extension cable</b> for remote release, 5m (17ft) . . . . .	14 179
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<b>Extension cable</b> for remote release, 25m (85ft) . . . . .	14 178
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<b>Remote release</b> , length 2.5m (8ft), with push-button . . . . .	14 176
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<b>Remote release</b> with built-in counter (requires 14 178 or 14 179) . . . . .	14 177
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<b>Tandem device</b> for the connection of 2 LEICA-FLEX SL 2-MOT cameras for picture sequences of 6–7fps . . . . .	14 185
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<b>Twin cable</b> for coupling a radio remote release and the remote release with counter with the LEICAFLEX SL 2-MOT . . . . .	14 180
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Cable for connecting the LEICAFLEX SL 2-MOT with the ST 1 control unit of the LEICINA SUPER (for intervals between about 0.5 to about 360sec) . . . . .	14 187
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<b>Universal hand grip</b> for hand-held exposures with longer-focal-length lenses . . . . .	14 188
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<b>Release switch</b> for the use of the universal hand grip on the LEICAFLEX SL 2 MOT . . . . .	14 189
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**For further details of extension** see list 111–85 and list SL 2–MOT No. 111–105.

\* On request available with microprism screen or with full groundglass screen.



# LEICA-R-lenses for LEICA R 3 LEICAFLEX SL, SL 2 SL 2-MOT



28478-111

11 222

## FISHEYE-ELMARIT-R

**f/2.8 16mm**

(only for the LEICAFLEX SL 2)

Fisheye lens for special pictorial effects

Angle of view: 180°

Number of elements: 11

Built-in turret with 4 filters

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/16

Focusing range: ∞ – 0.3m (12")

Non-rotating focusing mount

Combined "feet-metre" scale

Smallest object field:

401 x 601mm (15.8 x 23.8in)

Maximum reproduction scale about

1 : 16 (0.06x) in the centre of the image

Black finish

Built-on lens hood

Weight: 0.490 kg

Code No.

## FISHEYE-ELMARIT-R f/2.8 16mm

with lens hood . . . . .

11 222



29071-111

## ELMARIT®-R f/2.8 19mm

Fast ultra-wide-angle lens

Angle of view: 95.7°

Number of elements: 9

Filter size: M 82 x 0.75

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/16

Focusing range: ∞ – 0.5m (20")

Smallest object field:

468 x 702mm (18.7 x 28")

Non-rotating focusing mount

Black finish

Lockable lens hood

Weight: 0.500 kg

Code No.

## ELMARIT-R f/2.8 19mm

with lens hood . . . . .

11 225





11 813

### **SUPER-ANGULON®-R f/4 21mm**

Wide-angle lens of extremely wide angle of view

Angle of view: 92°

Number of elements: 10

Filter size: 8.5

(Series 8.5 filters must be inserted in the lens hood)

Combined "feet-metre" scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/22

Focusing range: ∞ to 0.2m (8")

Smallest object field:

148 x 221mm (6 x 8 3/4" approx.)

Black finish

Lens hood

Internal thread: M 72 x 0.75

Weight: 0.410 kg

Code No.

### **SUPER-ANGULON f/4 21mm**

with lens hood . . . . . 11 813



28479-111

11 221

### **ELMARIT-R f/2.8 24mm (only for the LEICAFLEX SL 2)**

Lens of very wide angle of view

Angle of view: 84°

Number of elements: 9

Floating elements: front section of the lens can be moved independently of the rear section because it is coupled with the rangefinder, hence optimum correction in the close-up range.

Filter size: 8

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/22

Focusing range: ∞ - 0.3m

Non-rotating focusing mount

Combined "feet-metre" scale

Smallest object field:

250 x 374mm (10 x 15in)

Maximum reproduction scale:

1:10.4 (0.10 x)

Black finish

Lens hood

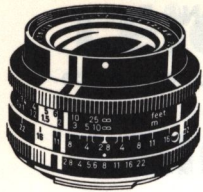
Internal thread: M 60 x 0.75

Weight: 0.420 kg

Code No.

### **ELMARIT-R f/2.8 24mm**

with lens hood . . . . . 11 221



26890 - 111

11 204

### ELMARIT®-R f/2.8 28mm

Wide-angle lens

Angle of view: 76°

Number of elements: 8

Filter size: 7

External lens mount diameter: A 51

Combined "feet-metre" scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/22

Focusing range: ∞ to 0.3m (12")

Smallest object field:

188 x 282mm (7 1/2 x 11 1/4")

Non-rotating focusing mount

Black finish

Locking lens hood for the use of Series

7 filters and "7" polarizing filters

Internal thread: M 48 x 0.75

Weight: 0.275 kg

### ELMARIT-R f/2.8 28mm

with lens hood . . . . .

Code No.

11 204



26967 - 111

11 227

### SUMMICRON®-R f/2 35mm

Fast wide-angle lens

Angle of view: 64°

Number of elements: 9

Filter size: 7

External lens mount diameter: A 51

Combined "feet-metre" scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/16

Focusing range: ∞ to 0.3m (12")

Smallest object field:

140 x 210mm (5 3/4 x 8 1/2")

Non-rotating focusing mount

Black finish

Locking lens hood for the use of Series

7 filters and "7" polarizing filters

Internal thread: M 48 x 0.75

Weight: 0.530 kg

### SUMMICRON-R f/2 35mm

with lens hood . . . . .

Code No.

11 227



25564-11

11 201

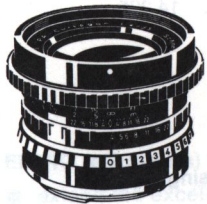
### ELMARIT-R f/2.8 35mm

Wide-angle lens  
 Angle of view: 64°  
 Number of elements: 7  
 Filter size: 7  
 External lens mount diameter: A 51  
 Combined "feet-metre" scale  
 Pre-set click-stops (including 1/2 values)  
 Fully automatic pre-set diaphragm  
 Smallest aperture: f/22  
 Focusing range: ∞ to 0.3m (12")  
 Smallest object field:  
 140 x 210mm (5 3/4 x 8 1/2")  
 Non-rotating focusing mount  
 Black finish  
 Locking lens hood for the use of Series  
 7 filters and "7" polarizing filters  
 Internal thread: M 48 x 0.75  
 Weight: 0.410 kg

Code No.

### ELMARIT-R f/2.8 35mm

with lens hood . . . . . 11 201



26968-111

11 202

### PA-CURTAGON®-R f/4 35mm

Wide-angle lens without pre-set diaphragm with perspective compensation  
 Angle of view: 63-78°  
 Displacement from the optical axis:  
 7mm in every direction  
 Radial adjustment: at 90° intervals  
 Number of elements: 7  
 Filter size: 8  
 External lens mount diameter: A 63.7  
 Combined "feet-metre" scale  
 Click-stops  
 Smallest aperture: f/22  
 Focusing range: ∞ to 0.3m (12")  
 Smallest object field:  
 140 x 210mm (5 3/4 x 8 1/2")  
 Non-rotating focusing mount  
 Black finish, with bright decorative ring  
 Locking lens hood for the use of Series  
 8 filters and "8" polarizing filters  
 Internal thread: M 60 x 0.75  
 Weight: 0.290 kg

Code No.

### PA-CURTAGON-R f/4 35mm

with lens hood . . . . . 11 202





29186-111

## SUMMICRON-R f/2 50mm

Fast universal lens

Angle of view: 45°

Number of elements: 6 (4 components)

Filter size: E 55 (M 55 x 0.75)

External lens mount diameter: A 63

Combined "feet-metre" scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/16

Focusing range: ∞ to 0.5m (20")

Smallest object field:

180 x 270mm (7.5 x 10.75")

Non-rotating focusing mount

Black finish

Built-on extending lens hood

Lens cap A 63

Bayonet lens cover-R

For use on the SUMMICRON-R f/25mm

ELPRO near-focusing attachment

1 and 2

Weight: 0.250 kg

Code No.

**SUMMICRON-R f/2 50mm** (for LEICA R 3) . . . . . 11 215

Accessories: Adapter for series 7 filters . . . . . 14 225

### ELPRO (achromats) near-focusing attachments

- extend the excellent lens performance to the near-focusing range
- are easy to handle
- extend the possibilities of pictorial composition
- do not demand any exposure factor

ELPRO 1\* . . . . . 16 541

ELPRO 2\* . . . . . 16 542

Leather case for 1 near-focusing attachment . . . . . 14 553

SUMMICRON-R f/2 50mm	ELPRO	Distance scale at	Distance in cm		Object field size in mm	Repro- duction scale
			object to film	object to front lens		
	1	∞	50	41	184 x 276	1 : 7.7
		0.5	31	21	91 x 137	1 : 3.8
	2	∞	30	21	94 x 141	1 : 3.9
		0.5	24	14	62 x 93	1 : 2.6

\* Can also be used on the SUMMICRON f/2 50mm Code No. 11 228.  
Lens hood cannot be attached.



25565-11

11 228

## SUMMICRON-R f/2 50mm

Fast universal lens

Angle of view: 45°

Number of elements: 6

Filter size: 6

Retaining ring for Series 6 filters

External lens mount diameter: A 47

Combined „feet-metre“ scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/16

Focusing range: ∞ to 0.5m (20")

Smallest object field:

180 x 270mm (7 1/4 x 10 3/4")

Non-rotating focusing mount

Black finish

Lens hood

Internal thread: M 44 x 0.75

Weight: 0.340 kg

Code No

### SUMMICRON-R f/2 50mm

with lens hood . . . . . 11 228

### ELPRO (achromats) near-focusing attachments

- extend the excellent lens performance to the near-focusing range
- are easy to handle
- extend the possibilities of pictorial composition
- do not demand any exposure factor

ELPRO VI a \* . . . . . 16 531

ELPRO VI b \* . . . . . 16 532

Leather case for 1 near-focusing attachment . . . . . 14 553

SUMMICRON-R f/2 50mm	ELPRO	Distance scale at	Distance in cm		Object field size in mm	Repro- duction scale
			object to film	object to front lens		
	VI a	∞	50	41	184 x 276	1 : 7.7
		0.5	31	21	91 x 137	1 : 3.8
	VI b	∞	30	21	94 x 141	1 : 3.9
		0.5	24	14	62 x 93	1 : 2.6

\* Cannot be mounted on the new SUMMICRON f/2 50mm Code No. 11 215.



26891-111

11 875

## SUMMILUX®-R f/1.4 50mm

Ultra-fast lens

Angle of view: 45°

Number of elements: 7

Filter size: 7

External lens mount diameter: A 51

Combined „feet-metre“ scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/16

Focusing range: ∞ to 0.5m (20")

Smallest object field:

180 x 270mm (7 1/4 x 10 3/4")

Non-rotating focusing mount

Black finish

Locking lens hood for the use of Series 7 filters and "7" polarizing filters

Internal thread: M 48 x 0.75

Weight: 0.460 kg

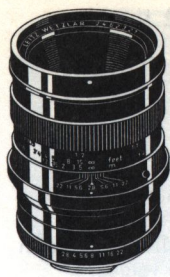
### SUMMILUX-R f/1.4 50mm

with lens hood . . . . .

Code No.

11 875





27665-111

11 203

## MACRO-ELMARIT®-R f/2.8 60mm

Universal lens for photography in the range from infinity to reproduction scale 1:1

- Angle of view: 39°
- Number of elements: 6
- Filter size: 8
- Adaptation of the filters with the aid of the lens hood 12514
- External lens mount diameter: A 63.7
- click-stops (including 1/2 values)
- Smallest aperture: f/22
- Combined "feet-metre" scale, reproduction scales are also engraved
- Focusing range:
  - without 1:1 adapter: from ∞ to 27cm (10.8in) (reproduction scale 1:2)
  - with 1:1 adapter: from reproduction scale 1:2 to 1:1 (from 27 to 24cm) (10.8 to 9.6in)
- Fully automatic pre-set diaphragm, also with 1:1 adapter\*
- Smallest object field:
  - without adapter: 48 x 72mm (1.9 x 2.9in)
  - with adapter: 24 x 36mm (0.9 x 1.4in)
- Non-rotating focusing mount
- Black finish
- Built-on lens hood
- Internal thread: M 60 x 0.75
- Weight: 0.540 kg

	Code No.
<b>MACRO-ELMARIT-R f/2.8 60mm (without 1:1 adapter)</b> . . . . .	11 205
<b>1:1 adapter*</b> . . . . .	14 198
<b>MACRO-ELMARIT-R f/2.8 60mm complete</b> . . . . .	11 203
Lens hood for same (necessary for filter adaptation) . . . . .	12 514
Leather case for the 1:1 adapter . . . . .	14 621
Covers for the 1:1 adapter:	
Front cover . . . . .	14 144
Rear cover . . . . .	14 162

\* The 1:1 adapter can be attached and locked only with the lens diaphragm closed. This setting is indicated by additional symbols. Wrong attachment is prevented by a locking device.



26928 - 111

11 219

## SUMMICRON-R f/2 90mm

Fast reportage lens

Angle of view: 27°

Number of elements: 5

Filter size: 7

Retaining ring for Series 7 filters

External lens mount diameter: A 70

Combined „feet-metre“ scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/16

Focusing range: ∞ to 0.7m (28")

Smallest object field:

144 x 210mm (5 3/4 x 8 1/2")

Non-rotating focusing mount

Black finish

Built-on, extensible lens hood

Internal thread: M 54 x 0.75

Weight: 0.560 kg

Code No.

SUMMICRON-R f/2 90mm

11 219

### ELPRO (achromat) near-focusing attachment

- extends the excellent lens performance to the near-focusing range
- is easy to handle
- extends the possibilities of pictorial composition
- does not demand any exposure factor

ELPRO VII a . . . . . 16 533

Leather case for 1 near-focusing attachment . . . . . 14 553

SUMMICRON-R f/2 90mm	ELPRO	Distance scale at	Distance in cm		Object field size in mm	Repro- duction scale
			object to film	object to front lens		
	VII a	∞	74	61	161 x 241	1 : 6.7
		0.7	44	30	72 x 108	1 : 3.0



25566-11

11 239

## ELMARIT-R f/2.8 90mm

- Universal lens of long focal length
- Angle of view: 27°
- Number of elements: 5
- Filter size: 7
- Retaining ring for Series 7 filters
- External lens mount diameter: A 65
- Combined „feet-metre“ scale
- Fully automatic pre-set diaphragm with click-stops (including 1/2 values)
- Smallest aperture: f/22
- Focusing range: ∞ to 0.7m (28")
- Smallest object field: 140 x 210mm (7<sup>3</sup>/<sub>4</sub> x 8<sup>1</sup>/<sub>2</sub>" )
- Non-rotating focusing mount
- Black finish
- Built-on, extensible lens hood
- Internal thread: M 54 x 0.75
- Weight: 0.515 kg

Code No.

ELMARIT-R f/2.8 90mm . . . . .

11 239

### ELPRO (achromat) near-focusing attachment

- extends the excellent lens performance to the near-focusing range
- is easy to handle
- extends the possibilities of pictorial composition
- does not demand any exposure factor

ELPRO VII a . . . . . 16 533

Leather case for 1 near-focusing attachment . . . . . 14 553

ELMARIT-R f/2.8 90mm	ELPRO	Distance scale at	Distance in cm		Object field size in mm	Repro- duction scale
			object to film	object to front lens		
	VII a	∞	74	61	161 x 241	1 : 6.7
		0.7	44	30	72 x 108	1 : 3.0





25567-11

11 211

## ELMARIT-R f/2.8 135mm

- Telephoto lens
- Angle of view: 18°
- Number of elements: 5
- Filter size: 7
- Retaining ring for Series 7 filters
- External lens mount diameter: A 65
- Combined "feet-metre" scale
- Fully automatic pre-set diaphragm with click-stops (including 1/2 values)
- Smallest aperture: f/22
- Focusing range: ∞ to 1.5m (5ft)
- Smallest object field: 220 x 330mm (8 3/4 x 13 1/4")
- Non-rotating focusing mount
- Black finish
- Built-on, extensible lens hood
- Internal thread: M 54 x 0.75
- Weight: 0.655 kg

Code No.

**ELMARIT-R f/2.8 135mm** . . . . . 11 211

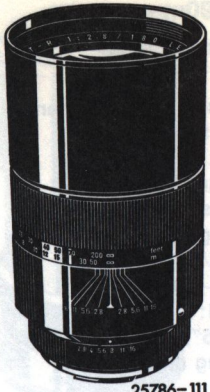
### ELPRO (achromats) near-focusing attachments

- extend the excellent lens performance to the near-focusing range
- are easy to handle
- extend the possibilities of pictorial composition
- do not demand any exposure factor

ELPRO VII a . . . . . 16 533  
 ELPRO VII b . . . . . 16 534  
 Leather case for 1 near-focusing attachment . . . . . 14 553

ELMARIT-R f/2.8 135mm	ELPRO	Distance scale at	Distance in cm		Object field size in mm	Repro- duction scale
			object to film	object to front lens		
	VII b	∞	150	135	237 x 355	1 : 9.9
		1.5	84	68	106 x 159	1 : 4.4
	VII a	∞	76	61	107 x 160	1 : 4.5
		1.5	58	42	66 x 99	1 : 2.8

# ELMARIT-R 1/2.8 180mm



.25786-111

11 919

- Telephoto lens
- Angle of view: 14°
- Number of elements: 5
- Filter size: 8
- Retaining ring for Series 8 filters
- External lens mount diameter: A 78
- Combined "feet-metre" scale
- Fully automatic pre-set diaphragm with click-stops (including 1/2 values)
- Smallest aperture: f/16
- Focusing range: ∞ to 2m (6ft 8in)
- Smallest object field: 213 x 320mm (8 1/2 x 12 3/4")
- Non-rotating focusing mount
- 1/4" tripod thread
- Black finish
- Built-on, extensible lens hood
- Internal thread: M 72 x 0.75
- Weight: 1.325 kg

Code No.

ELMARIT-R 1/2.8 180mm

11 919

Object field size in mm	Distance in m	Distance in ft	Aperture	Depth of field in mm
178 x 287	132	187	f/2.8	17
80 x 100	15	53	f/8	17
60 x 120	31	102	f/11	17
48 x 75	48	83	f/16	17

## ELMAR-R f/4 180mm

Handy tele-photo lens

Angle of view: 14°

Number of elements: 5 (4 components)

Filter size: E 55 (M 55 x 0.75)

External lens mount diameter: A 65

Combined "feet-metre" scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/22

Focusing range: ∞ - 1.8m (6ft)

Smallest object field:

175 x 262mm (7 x 10.5")

Non-rotating focusing mount

Black finish

Built-on, extensible lens hood

Lens cap A 65

Bayonet rear cover-R

Suitable for use with the

ELMAR-R f/4 180mm:

ELPRO near-focusing attachments

3 and 4

Weight: 0.570 kg



29185-111

11 922

Code No.

ELMAR f/4 180mm . . . . . 11 922

Accessories: Adapter for series 7 filters . . . . . 14 225

### ELPRO (achromats) near-focusing attachments

- extend the excellent lens performance to the near-focusing range
- are easy to handle
- extend the possibilities of pictorial composition
- do not demand any exposure factor

ELPRO 3 . . . . . 16 543

ELPRO 4 . . . . . 16 544

ELMAR-R f/4 180mm	ELPRO	Distance scale at	Distance in cm		Object field size in mm	Repro- duction scale
			object to film	object to front lens		
	4	∞	151	135	178 x 267	1 : 7.4
		1.8	93	75	80 x 120	1 : 3.3
	3	∞	77	61	80 x 120	1 : 3.3
		1.8	63	45	48 x 72	1 : 2.0



29070-111

**11 240**

**APO-®TELYT-R f/3.4 180mm**

- Special lens of extended spectral range
- Angle of view: 14°
- Number of elements: 7
- Filter size: 7.5
- Fully automatic pre-set diaphragm with click-stops (including 1/2 values)
- Smallest aperture: f/22
- Focusing range: ∞-2.5m (8ft 4")
- Smallest object field: 276 x 414mm (11 x 16.6")
- Non-rotating focusing mount
- Black finish
- Built-on, extensible lens hood
- Internal thread: M 59 x 0.75
- Weight: 0.750 kg

Code No.

<b>APO-TELYT-R f/3.4 180mm</b>	. . . . .	<b>11 240</b>
<b>Replacement lens cover</b>	. . . . .	<b>14 089</b>





28480-111

11 224

## VARIO-ELMAR-R

**f/4.5 80-200mm**

(only for the LEICAFLEX SL 2)

Lens of variable focal length

Angle of view: 30° - 12°

Number of elements: 14

Filter size: 55mm screw-in filters  
(M 55 x 0.75)

Fully automatic pre-set diaphragm with  
click-stops (including 1/2 values)

Smallest aperture: f/22

Focusing range: ∞ - 1.8m (6ft)

Smallest object field:

80mm focal length: 415 x 615mm  
(about 16.5 x 24.5in)

200mm focal length: 173 x 252mm  
(7 x 10in)

Maximum reproduction scale:

80mm focal length: 1 : 17.5 (0.057 x)

200mm focal length: 1 : 7.3 (0.13 x)

Focusing tube adjusts both focal length  
and distance

Combined "feet-metre" scale

Black finish

Built-on extensible lens hood

Internal thread: M 55 x 0.75

Weight: 0.780 kg

### VARIO-ELMAR-R f/4.5 80-200mm

Code No.

with lens hood . . . . . 11 224

Attachment	Scale approx.	Free working distance
	f 80mm . . . f 200mm ∞ . . . 1.8m	f 80mm . . . f 200mm ∞ . . . 1.8m
ELPRO 3	1:7 . . . 1:2	575mm . . . 433mm
ELPRO 4	1:15.3 . . . 1:3.35	1300mm . . . 700mm
ELPRO 3 + 4	1:4.92 . . . 1:1.56	405mm . . . 315mm

## TELYT®-R f/4 250mm



26969-111

11 920

Telephoto lens

Angle of view: 10°

Number of elements: 6

Filter size: 6

Retaining ring for Series 8 filters

External lens mount diameter: A 78

Combined "feet-metre" scale

Fully automatic pre-set diaphragm with click-stops (including 1/2 values)

Smallest aperture: f/22

Focusing range: ∞ to 4m (13ft)

Smallest object field:

318 x 477mm (12.7 x 19")

Non-rotating focusing mount

1/4" tripod thread

Black finish

Built-on, extensible lens hood

Internal thread: M 72 x 0.75

Weight: 1.410 kg

Code No.

TELYT-R f/4 250mm

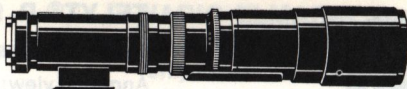
11 920

All lenses from 21 to 250mm focal length (except ELMARIT-R f/2.8 24mm and VARIO-ELMAR-R f/4.5 80-200mm) can be used on the LEICAFLEX with external exposure measurement.

ZOOM ANGENIEUX f/2.8 45-90mm: details on request.



29246-111



26621a-111

## TELYT-R f/6.8 400mm

Follow-focus lens of long focal length

Angle of view: 6°

Number of elements: 2

Filter size: Series 7 (in filter slot)

or Series 8 with filter adapter 14 165

External lens mount diameter: A 78

Click-stops (between f/8 and f/16  
also 1/2 values)

Smallest aperture: f/32

Focusing range: ∞ to 3.6m (12ft)

Smallest object field:

158 x 236mm (6 1/4 x 11 1/2")

Black finish

Built-on, extensible lens hood

Detachable shoulder stock

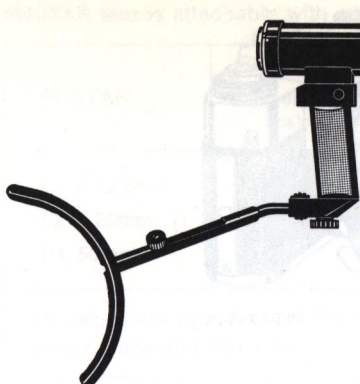
Internal thread: M 72 x 0.75

Weight: 1.830 kg

11 960

### TELYT-R f/6.8 400mm consisting of:

	Code No.
Lens unit . . . . .	11 903
Lens tube . . . . .	11 906
Hand grip . . . . .	14 188
TELYT-R f/6.8 400mm complete . . . . .	11 960



27589-110

11 865

**TELYT®-R f/6.8 560mm**

Long-focal-length follow-focus lens  
 Angle of view: 4.3°  
 Number of elements: 2  
 Filter size: Series 7 (in filter slot)  
 External lens mount diameter: A 98  
 Click-stops (between f/8 and f/16 also 1/2 values)  
 Smallest aperture: f/32  
 Focusing range: ∞ to 6.4m (21ft 4in)  
 Smallest object field:  
 224 x 336mm (9 x 13 1/2 in)  
 1/4" and 3/8" tripod threads  
 Black finish  
 Built-on, extending lens hood  
 Detachable shoulder stock  
 Weight: 2.330 kg

	Code No.
<b>TELYT-R f/6.8 560mm</b> consisting of:	
Lens unit . . . . .	11 907
Lens tube . . . . .	11 906
Hand grip . . . . .	14 188
<b>TELYT-R f/6.8 560mm, complete</b> . . . . .	11 865



14 182

27094 -120

**Extension tube (60mm) for the TELYT-R f/6.8 400mm and f/6.8 560mm lenses, for extending the focusing range (close-up)** . . . . . 14 182

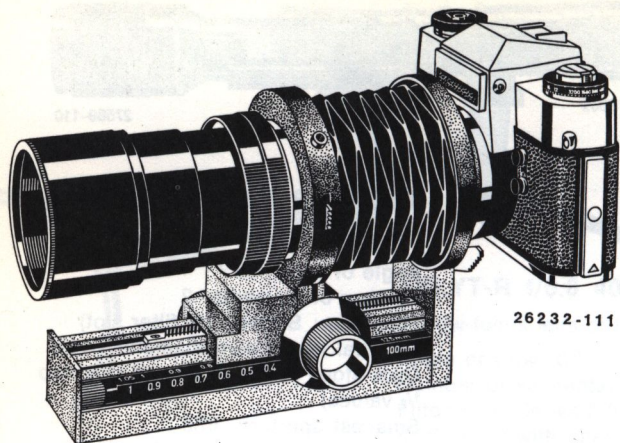
Adjoining focusing ranges (1 tube)	Smallest object fields (1 tube)
a) with TELYT f/6.8 400mm: 353-226cm (11ft 7in x 7ft 5in)	8 x 12cm (3.1 x 4.7in)
b) with TELYT f/6.8 560mm: 641-386cm (21ft x 12ft 7in)	11.2 x 16.8cm (4.4 x 6.6in)

**Accessory:**  
 Heavy-duty carrying strap . . . . . 14 130

**LEITZ TELYT-S f/6.3 800mm lens** . . . . . 11 921

**MINOLTA RF ROKKOR f/8 800mm mirror lens**  
 with LEICAFLEX fitting:  
 available through the MINOLTA sales organization.





26232-111

### Focusing bellows-R

**Very robust variable extension for continuous focusing** in association with the LEICAFLEX and the LEICA R 3. Maximum extension 100mm.

**Rotating scale carrier** with engraved reproduction scales for 90, 100, and 135mm LEICAFLEX lenses. Additional mm scale, length 100mm.

**Additional clamping adjustment** for the maintenance of a given reproduction scale.

**The lens diaphragm is closed** to the pre-selected value through a twin cable release or pressure on the sliding button (**spring-back diaphragm**).

**Alternative horizontal and vertical camera position**

**Tripod threads**  $\frac{1}{4}$ " and  $\frac{3}{8}$ ".

Weight: 0.78 kg

Code No.

**Focusing bellows-R** (without lens) . . . . . 16 860

Twin cable release . . . . . 16 494

With the **MACRO-ELMAR f/4 100mm** special lens: subjects within the range from  $\infty$  to 1:1.

In addition the following reproduction scales can be obtained with the **ordinary LEICAFLEX lenses**:

- with **SUMMICRON-R f/2 50mm** from 1 : 1.25 – 3 : 1  
(object sizes from 30 x 45mm – 8 x 12mm)
- with **ELMARIT-R f/2.8 90mm** from 1 : 2.1 – 1.8 : 1  
and **SUMMICRON-R f/2 90mm** (object sizes from 50 x 75mm – 13.4 x 20mm)
- with **ELMARIT-R f/2.8 135mm** from 1 : 3.2 – 1.2 : 1  
(object sizes 77 x 115mm – 20 x 30mm)
- with **ELMARIT-R f/2.8 180mm** from 1 : 4.4 – 1 : 1.1  
(object sizes 105 x 158mm – 26.5 x 39.6mm)
- with **TELYT-R f/4 250mm** from 1 : 6 – 1 : 1.6  
(object sizes 142.8 x 214.2mm – 37.9 x 56.8mm)

**LEICA lenses** can be used in conjunction with ring 14 127 or 14 167.

PHOTAR	Short bellows extension		Long bellows extension	
	Reproduction scale	Working distance	Reproduction scale	Working distance
f/1.9 12.5mm	8 : 1	10mm	16 : 1	9mm
f/2.5 25mm	3 : 1	21mm	7 : 1	17mm
f/4 50mm	1 : 1	91mm	3 : 1	56mm

All values are rounded up. The working distance is the distance between object plane and lens mount.



26917 - 111

11 230

**MACRO-ELMAR® f/4 100mm**

Lens for use on the Focusing Bellows-R

Angle of view: 24.5°

Number of elements: 4

Filter size: Series 7

Retaining ring for Series 7 filters

External lens mount diameter: A 65

Click stops (including 1/2 values)

Smallest aperture: f/22

Focusing range with the focusing bellows-R: ∞ to 1 : 1

Smallest object field:

24 x 36mm (1 x 1 1/2")

Black finish

Built-on, extensible lens hood

Internal thread: M 54 x 0.75

Weight: 0.365 kg

Code No.

**MACRO-ELMAR f/4 100mm** . . . . . 11 230

**Adapter ring for the focusing bellows-R**



16 863

27008-111

suitable for use with

**ELMAR f/3.5 65mm lens** (∞ to 1.5 : 1)

**Lens unit of the ELMARIT f/2.8 90mm** (∞ to 1.1 : 1)

**Lens unit of the TELE-ELMAR f/4 135mm** (∞ to 1 : 1.3)

**Adapter ring** . . . . . 16 863

**For the other accessories please pp. 38-45.**

Item No.	Description	Quantity	Unit	Value
1	Alcoholic Dress	1	Doz.	25.00
2	Alcoholic Dress	1	Doz.	25.00
3	Alcoholic Dress	1	Doz.	25.00

**MARCO ELEMENTS**

The following items are listed below in the order they appear on the invoice. Each item is identified by a code number and a description. The quantity and unit of measure are also shown. The value of each item is listed in the right-hand column. The total value of the invoice is \$75.00.



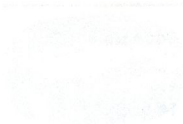
ORDER CLEAR BY 1000

Applied only for the District following



DATE

# LEICA R 3, LEICAFLEX BL SL 2, SL 2 MOT Accessories



12 302

Ever-ready case for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The case is made of leather and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Convertible front lens cap for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The lens cap is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Two-Bank camera strap for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The strap is made of leather and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Carrying ring with double stick-weld for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The ring is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Carrying ring with double stick-weld for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The ring is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Carrying ring with double stick-weld for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The ring is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Carrying ring with double stick-weld for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The ring is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Carrying ring with double stick-weld for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The ring is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Carrying ring with double stick-weld for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The ring is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.

Carrying ring with double stick-weld for Leica R 3, SL 2, SL 2 MOT, SL 2, SL 2 MOT with 50mm f/1.7 lens. The ring is made of metal and has a carrying strap. It is suitable for carrying the camera, lens, and accessories.



# LEICA R 3, LEICAFLEX SL, SL 2, SL 2 MOT accessories

- Ever-ready case** for the LEICAFLEX with external exposure measurement, Code No.  
with f/2.8 35mm or f/2 50mm lens with lens hood  
with f/2.8 28mm or f/1.4 50mm lens without lens hood . . . 14 556
- Leather case for lens hood** . . . . . 14 621
- Correction lens**, spherical for LEICAFLEX (with external exposure measurement), LEICAFLEX SL and VISOFLEX III 14 118  
Available only in the + or - values (please state on order)  
0.5 - 1 - 1.5 - 2 - 3 dioptries.  
(Correction lens mount Code No. 42-655.815-6)
- Correction lens**, spherical, for LEICAFLEX SL 2 **only**,  
otherwise as Code No. 14 118 . . . . . 14 199



14 183

27979-120

- Twin flash socket cover** (replacement) . . . . . 14 183

**Cable releases**

14 067



5543-12

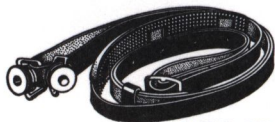
- Cable release, length 25cm (10") with arresting screw . . . 14 067

- Cable release, length 50cm (20") with arresting screw . . . 14 076



14 092

26936-120



14 130

25785-120

- Carrying strap** with non-slip pad, adjustable (replacement) 14 092

- Universal handgrip** with shoulder stock, weight 0.61 kg . . . 14 188

- Carrying strap** with anti-slip pad, for heavy equipment, with two tripod screws, 1/4" thread . . . . . 14 130



14 159

26916-111



26284-120

**Ring combination for the near-focusing range with semiautomatic pre-set diaphragm**

- Two-part ring (25mm height) . . . . . 14 158

- Middle ring (25mm height) for the extension of the reproduction range, 1 off . . . . . 14 135

**Combination** complete, weight 0.175 kg . . . . . 14 159  
 on the 50mm SUMMICRON-R reproduction scale 1.1:1  
 on the 90mm ELMARIT-R reproduction scale 1:1.3  
 on the 135mm ELMARIT-R reproduction scale 1:2.1

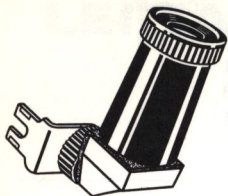
## Near-focusing attachments



25570-12'

16 531

- ELPRO VI a for the R f/2 50mm lens (Code No. 11 228) 16 531  
 50–31cm (object to film plane)  
 41–21cm (object to front lens)  
 184 x 276mm – 91 x 137mm  
 (object fields)
- ELPRO VI b for the R f/2 50mm lens (Code No. 11 228) 16 532  
 30–24cm (object to film plane)  
 21–14cm (object to front lens)  
 94 x 141mm – 62 x 93mm  
 (object fields)
- ELPRO 1 for the f/2 50mm lens (Code No. 11 215) . 16 541  
 50–31cm (object to film plane)  
 41–21cm (object to front lens)  
 184 x 276mm – 91 x 137mm  
 (object fields)
- ELPRO 2 for the f/2 50mm lens (Code No. 11 215) . 16 542  
 30–24cm (object to film plane)  
 21–14cm (object to front lens)  
 94 x 141mm – 62 x 93mm  
 (object fields)
- ELPRO VII a for the 90mm lenses . . . . . 16 533  
 74–44cm (object to film plane)  
 61–30cm (object to front lens)  
 161 x 241mm – 73 x 109 mm  
 (object fields)
- ELPRO VII b for the 135mm lens . . . . . 16 534  
 150–85cm (object to film plane)  
 135–68cm (object to front lens)  
 237 x 355mm – 107 x 160mm  
 (object fields)
- ELPRO VII a for the 135mm lens . . . . . 16 533  
 76–59cm (object to film plane)  
 61–42cm (object to front lens)  
 107 x 160mm – 66 x 99mm  
 (object fields)
- ELPRO 4 for the f/4 180mm lens . . . . . 16 544  
 151–93cm (object to film plane)  
 135–75cm (object to front lens)  
 178 x 267mm – 80 x 120mm  
 (object fields)
- ELPRO 3 for the f/4 180mm lens . . . . . 16 543  
 77–63cm (object to film plane)  
 61–45cm (object to front lens)  
 80 x 120mm – 48 x 72mm  
 (object fields)
- Leather case** for one ELPRO attachment . . . . . 14 553  
**Copying stand** see p. 99.



27206-111

14 287

	Code No.
<b>90° angle viewfinder</b> for the LEICA R3 . . . . .	14 287
<b>Correction lenses</b> for the LEICA R3	
+ 0.5 . . . . .	14 240
+ 1.0 . . . . .	14 241
+ 1.5 . . . . .	14 242
+ 2.0 . . . . .	14 243
+ 3.0 . . . . .	14 244
- 0.5 . . . . .	14 245
- 1.0 . . . . .	14 246
- 1.5 . . . . .	14 247
- 2.0 . . . . .	14 248
- 3.0 . . . . .	14 249
<b>Carrying strap</b> for the LEICA R3 (replacement) . . . . .	14 226
<b>Flash contact twin plug</b> for the LEICA R3 . . . . .	14 183
<b>Camera cover</b> for the LEICA R3 . . . . .	14 103



27206-111

14 186



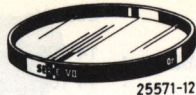
27581-111

14 167

	Code No.
<b>90° Angle viewfinder, right-way-round, upright image</b> for LEICAFLEX SL, SL 2, SL 2 MOT . . . . .	14 186
<b>Adapter for LEICA lenses of the VISOFLEX II/III</b> on the LEICAFLEX SL or SL 2 . . . . .	14 167
<b>Adapter for LEICA lenses of the VISOFLEX II/III</b> (aperture simulation for the LEICAFLEX with external exposure measurement) . . . . .	14 127
<b>Ball-and-socket heads and table tripod</b> see page 88.	



# Filters



	Series 6	Series 7	Series 8	Series 8.5
<b>Yellow</b>	13 013	13 006	13 019	13 022
<b>Yellow-green</b>	13 014	13 007	13 021	
<b>Orange</b>	13 011	13 008	13 017	13 023
<b>UV absorbing (Colourless)</b>	13 012	13 009	13 018	13 024
<b>Circular Pol</b>		13 370 <sup>1)</sup>	13 372 <sup>2)</sup>	
<b>Retaining Ring (replacement)</b>	14 160	14 161 <sup>5)</sup> 14 225 <sup>6)</sup>	14 165	

Code No.

- Circular pol filter for f/2.8 35mm<sup>3)</sup> and f/2 50mm lenses<sup>4)</sup> 13 353
- Polarizing filter for f/2.8 35mm<sup>3)</sup> and f/2 50mm lenses<sup>4)</sup> 13 358
- Circular pol filter for 90, 100, and 135mm lenses . . . . . 13 354
- Polarizing filter for 90, 100, and 135mm lenses . . . . . 13 359

**Lens caps (replacement)**

- for ELMARIT-R 19mm (A 88) . . . . . 14 221
- for SUPER-ANGULON-R f/4 21mm (A 75) . . . . . 14 145
- for ELMARIT-R f/2.8 28mm, SUMMICRON-R f/2 35mm  
SUMMILUX-R f/1.4 50mm (A 51) . . . . . 14 172
- for SUMMICRON-R 50mm (Code No. 11 215) (A 63) . . . . . 14 133
- for PA-CURTAGON-R f/4 35mm (A 63.7), MACRO-  
ELMARIT-R f/2.8 60mm, ELMARIT-R f/2.8 24mm . . . . . 14 184
- for SUMMICRON-R 90mm (A 70) . . . . . 14 144
- for ELMARIT-R 90, 135, ELMAR-R f/4 180mm, APO-  
TELYT-R 180mm lenses (A 65) . . . . . 14 089
- for ELMARIT-R 180mm and TELYT-R 250mm lenses (A 78) 14 166
- for TELYT-R f/6.8 400mm (A 78) . . . . . 14 152
- for TELYT-R f/6.8 560mm and f/5.6 400mm (A 98) . . . . . 14 140
- for TELYT-R f/5.6 560mm (A 120) . . . . . 14 141

<sup>1)</sup> Suitable for: ELMARIT-R 28mm  
ELMARIT-R 35mm from No. 2517 851  
SUMMICRON-R 35mm  
SUMMILUX-R 50mm  
TELYT-R f/6.8/400mm and 560mm  
LEICINA-SUPER and RT 1 } cannot be rotated  
on the lens

<sup>2)</sup> Suitable for: ELMARIT-R f/2.8 24mm  
PA-CURTAGON-R 35mm  
MACRO-ELMARIT-R 60mm  
ELMARIT-R 180mm  
TELYT-R 250mm  
TELYT-R 400mm (with adapter 14 165) } cannot be rotated  
on the lens

<sup>3)</sup> Use Series 7 filters (Code No. 13 370) from No. 2517 851

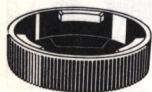
<sup>4)</sup> Only for Code No. 11 228

<sup>5)</sup> Not for Code No. 11 215 and 11 922

<sup>6)</sup> Only for Code No. 11 215 and 11 922



<b>Rear cover R-bayonet for f/3.4 21mm lens</b> . . . . .	14 106
<b>Rear cover R-bayonet for all other lenses</b> . . . . .	14 162
<b>Rear cover for TELYT f/5.6 400mm and f/5.6 560mm lens units (replacement)</b> . . . . .	14 150



26930 - 111

14 162



26925 - 111

14 103

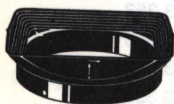
<b>Body cover R-bayonet</b> . . . . .	14 103
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**Lens hood covers**

for f/2.8 35mm and f/2 50mm lenses (A 54) (replacement)	14 163
for the f/3.4 21mm lens (replacement)	14 107
for the f/1.4 50mm lens (A 51) (replacement)	14 171

<b>Lens hood for f/2.8 19mm (replacement)</b> . . . . .	12 529
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<b>Lens hood for f/3.4 21mm lens (replacement)</b> . . . . .	12 511
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26929 - 111

12 506

<b>Lens hood for the f/4 21mm lens (replacement)</b> . . . . .	12 506
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29198 - 111

12 523

<b>Lens hood for the f/2.8 24mm lens (replacement)</b> . . . . .	12 523
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27004 - 111

12 509

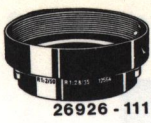
<b>Lens hood for the f/2.8 28mm and f/2 35mm lenses (replacement) (f/2.8 35mm from No. 2517 851)</b> . . . . .	12 509
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27006 - 111

12 514

<b>Lens hood for the PA-CURTAGON f/4 35mm lens (replacement) and for the MACRO-ELMARIT f/2.8 60mm</b>	12 514
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12 564

26926 - 111

Lens hood for the f/2.8 35mm and f/2 50mm R lenses (replacement) (f/2.8 35mm up to No.2517 850) . . . . 12 564



12 508

27005-111

Lens hood for the f/1.4 50mm lens (replacement) . . . . 12 508  
Leather case for lens hood 12 508 or 12 509 . . . . . 14 621

**Containers for**

Series 6 filters (replacement) . . . . . 14 612  
Series 7, 8 filters and polarizing filters (Code Nos.13 358 and 13 359) (replacement) . . . . . 14 614

## Holdall combination case



25648-12

External dimensions about 30 x 12.5 x 18.5cm (12 x 5 x 7.4in)

### with insert III fitted for:

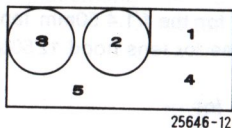
1 = 1 LEICAFLEX with 24mm, 28mm, 35mm, or 50mm lens in position

2 = 1 135mm lens coupled with 1 24mm, 28mm, 35mm or 50mm lens, or 1 180mm or 250mm or 80-200mm lens

3 = 1 60mm or 90mm lens coupled with 1 60mm, 28mm, 35mm, or 50mm lens

4 = 4 ELPRO near-focusing attachments in containers

5 = Space for films and filters in containers



14 819

Code No.

Outfit complete . . . . . 14 809

Insert III separate . . . . . 14 819

Universal holdall case, case separate . . . . . 14 815  
(Coupling ring: Code No. 028-855.002-000)

## Combination case



27977-111

External dimensions: about 21x11.5x19cm (8.2x4.6x7.6in)  
Weight: 0.66 kg

(Coupling ring: Code No. 028-855.002-000)

for 1 LEICAFLEX with lens of focal length up to 135mm  
in position, up to 2 additional lenses depending on their  
length, films and filters . . . . . 14 824

# Combination case for the LEICA R 3



29 202 - 111

For 1 LEICA R and lens of focal length up to 135mm in position, up to 2 additional lenses depending on their length, films and filters . . . . .

Code No.

14 828





# LEICA-M2



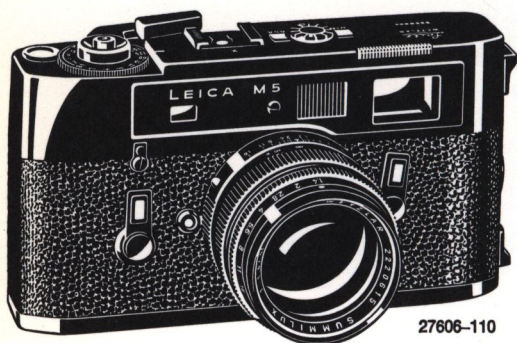
LEICA-M2  
The Leica-M2 is a compact, lightweight camera with a built-in rangefinder. It features a 35mm lens and a viewfinder that shows the scene through the lens. The camera is made of metal and is available in black and silver finishes. It is a popular choice for photographers who want a camera that is easy to carry and use.

## LEICA-M2

Compact and lightweight, the Leica-M2 is a true gem in the world of cameras. It is a camera that is easy to carry and use, and it is a camera that is built to last. The Leica-M2 is a camera that is perfect for anyone who wants a camera that is both beautiful and functional.

At the heart of the Leica-M2 is a 35mm lens that is both sharp and bright. The lens is made of high-quality glass and is coated with a multi-layer anti-reflective coating. This coating helps to reduce flare and ghosting, and it also helps to improve the contrast and color accuracy of the images. The lens is also very compact, which makes the camera a true pocket camera.

# LEICA-M 5



10 502  
11 114

## LEICA® M 5

Compact **all-metal body with hinged back** and carrying eyelets on one side, top and baseplate silver or black chromium plated.  $\frac{1}{4}$ " tripod thread.

**Built-in bright-line viewfinder.**

**Long-base rangefinder.**

Automatically reflected **image frames for 35, 50, 90, and 135mm focal lengths.**

**Automatic parallax compensation.**

**Finder frame selector.**

**Quick-change bayonet lens mount.**

**Selective light measurement through the lens.** Built-in CdS exposure meter. Measuring pointer and follow pointer visible in the viewfinder. Deflection of the measuring pointer can be influenced by adjustment of the lens diaphragm, follow pointer coupled with the film speed selector and the shutter-speed dial. Film speeds between 9 and 36 DIN (6 and 3200 ASA). PX 625 Mallory battery (replacement from Messrs. Mallory).

**Measuring range 21 steps:** Times from  $\frac{1}{1000}$  to 30sec can be read off the shutter speed dial and in the viewfinder.

Automatic **switch-off of the exposure meter after shutter action** (switch-on by shutter winding).

**Battery test** (by means of the finder frame selector).

**Focal plane shutter\*** for speeds of  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ,  $\frac{1}{15}$ ,  $\frac{1}{30}$ , ( $\frac{1}{50}$ ),  $\frac{1}{60}$ ,  $\frac{1}{125}$ ,  $\frac{1}{250}$ ,  $\frac{1}{500}$ ,  $\frac{1}{1000}$  sec (intermediate values can be continuously set) and time exposures of any duration.

**Automatic flash synchronization** for flashbulbs up to  $\frac{1}{500}$ sec, for electronic flash units up to  $\frac{1}{50}$ sec.

**Separate standard coaxial sockets** for bulb flash and electronic flash units.

**Accessory-shoe contact** (X flash contact).

Adjustable **delayed-action mechanism** (self-timer).

\* Cold-proofing to  $-30^{\circ}\text{C}$  on request.

**Rapid-winding lever with double-exposure lock** for the shutter winding mechanism coupled with film transport.

**Quick re-loading system;** removable quick-loading spool, for all commercially available 35mm films (**with or without trimmed leader**).

**Crank handle in the baseplate** for rewinding the exposed film (with **transport lock** when the handle is turned out).

**Film counter,** automatically zeroing when the baseplate is opened.

**Film indicator** in connection with a **calculating disc** for converting the associated shutter-speed/lens stop values during exposure measurement.

**Film plane index.**

**Carrying strap with non-slip pad,** adjustable.

**Dimensions:** Height 84mm (3.3in), length 155mm (6.2in), depth 36mm (1.4in).

**Weight:** 0.7 kg.

Code No.

**LEICA M 5 body, silver chromium** . . . . . 10 501

**LEICA M 5 body, black chromium** . . . . . 10 502



**14 541**

27587-120

Soft-leader **ever-ready case** for the LEICA M 5 with all lenses of up to 50mm, with lens hood each (except 28mm and the 50mm NOCTILUX lenses) and 90mm TELE-ELMARIT f/2.8 without lens hood; Weight: 0.5 kg . . 14 541



**14 544**

27980-110

**Ever-ready case (leather)** for LEICA M 5 with all lenses of up to 50mm, with lens hood each (except 21mm, 28mm, NOCTILUX 50mm and TELE-ELMARIT f/2.8 90mm) . . 14 544

**Carrying strap with non-slip pad, adjustable (replacement)** 14 196

**Film spool for LEICA M 5 (replacement)** . . . . . 14 192

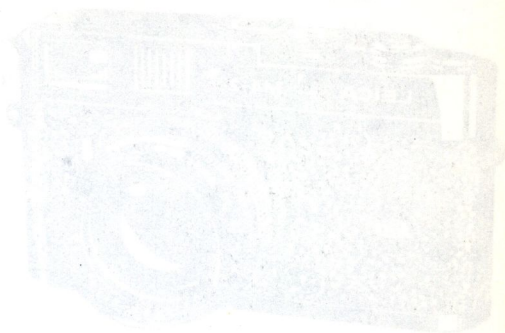
**Twin flash socket cover (replacement)** . . . . . 14 183

Please note special information on page 164.





# LEICA M4-S



10 430  
71 114

## LEICA M4-S

Compact all metal body with hinge back and top and bottom covers for extra protection. Built-in bright viewfinder for extra light. Automatic 1/1000 to 1/30 shutter speeds. Automatic 1/1000 to 1/30 shutter speeds. Finder frame window. Quick-change behind lens mount. Click-stop shutter speed dial for 1/1000 to 1/30. MF exposure lock. Focal-plane shutter for 1/1000 to 1/30 and 1/125 to 1/1500 and 1/1000 to 1/30. Automatic flash synchronization for 1/1000 to 1/30 and 1/1000 to 1/30. Repeats standard controls for depth-of-field and shutter speed. Accessory shoe for flash. Rapid winding for 1/1000 to 1/30. Quick film advance system for all range-finder cameras. LEICA M4-S. Index mark for use in focusing. Automatic frame counter. Film indicator with 1/1000 to 1/30. Shoe for special accessories and other accessories. Metering function for use of the Leica window.

000 03  
10 430

LEICA M4-S body

# LEICA M4-2



10 410

11 114

29 189 - 110

## LEICA M4-2

**Compact all-metal body with hinged back** and carrying eyelets on one side, top and baseplate black chromium plated.  $\frac{1}{4}$ " tripod thread.

**Built-in bright-line measuring viewfinder** for critical focusing.

Automatically reflected **image frames for 35, 50, 90 and 135mm focal length.**

**Automatic parallax compensation.**

**Finder frame selector.**

**Quick-change bayonet lens mount.**

Click-stop **shutter speed dial**, can be coupled with attachable LEICAMETER MR exposure meter.

**Focal-plane shutter** for 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 and 1/1000 sec and time exposures of any duration.

**Automatic flash synchronization** for flashbulbs up to 1/500 sec, for electronic flash units up to 1/50 sec.

**Separate standard contacts** for flashbulbs and electronic flash units.

Accessory shoe contact (X contact).

**Rapid winding lever with double-exposure lock** for shutter wind and film transport.

**Quick film reloading system** for all commercially available 35mm films and LEICA cassettes.

**Inclined crank handle for rewinding** the exposed film.

**Automatic frame counter** read through a magnifying glass.

**Film indicator** with DIN-ASA conversion scale.

Shoe for special viewfinders and other accessories.

Mechanical junctions for the use of the LEICA winder.

Code No.

LEICA M4-2 body . . . . . 10 410

**Ever-ready case (leather) for the LEICA M4-2 with all lenses of up to 50mm focal length, each with lens hood (except 21mm, 28mm, and 50mm NOCTILUX)**

**Weight: 0.38 kg** . . . . . **14 546**

**Carrying strap with non-slip pad (replacement)** . . . . **14 226**

**Flash contact safety plug (replacement)** . . . . . **15 526**



**LEICA-winder M 4-2**

Can be used on the LEICA M 4-2 only.

**Automatic shutter wind and film transport for single exposures up to 3 pictures per second.**

**For all shutter speeds from 1 to 1/1000 sec, including B.**

**Remote release** via cable release bush.

**Manual film transport and shutter wind possible** when the winder is disengaged or the batteries are exhausted.

**Battery housing** for 4 1.5v midget cells or 4 NC batteries.

**Dimensions:**

Height including battery housing 56mm, length 138mm, depth 35mm.

**Weight:** 0.37 kg.

Code No.

**LEICA-winder M 4-2** . . . . . 14 214

**Accessories:**

Hand loop . . . . . 14 228

Connecting cable for remote supply (replacement) . . . 14 229

Battery housing for the winder (replacement) . . . . . 14 227

LEICA MD-2

Control knob: Press and hold down the control knob to take a picture. The control knob is located on the front of the camera.

Outstanding: The outstanding feature of the camera is its compact size and light weight.

Optical: The optical system of the camera is of high quality and provides excellent image reproduction.

Viewfinder: The viewfinder is located on the top of the camera and provides a clear and bright view of the subject.

Automatic: The camera features an automatic exposure control system which adjusts the shutter speed and aperture for optimal exposure.

Separation: The camera is designed for easy separation of the lens and viewfinder for portability.

Range: The camera has a wide range of focusing distances, from close-up to infinity.

Output: The camera produces high quality output images with excellent contrast and detail.

Indication: The camera has a built-in exposure counter to indicate the number of exposures remaining.

Autofocus: The camera features an autofocus system which automatically focuses the lens on the subject.

Film: The camera uses standard 35mm film and is compatible with a wide range of film speeds.

Show: The camera is available in a variety of colors and finishes to suit your preferences.

Features: The camera has many features and accessories available to enhance your photography.

LEICA  
MD-2  
100

LEICA  
MD-2  
100

# LEICA MD-2

---

## LEICA MD-2 \*

Compact **all-metal body with hinged back** and eyelets on both sides, top and baseplate black chromium plated.  $\frac{1}{4}$ " tripod thread.

**Quick-change bayonet lens mount.**

**Click-stop shutter speed dial.**

**Focal-plane shutter** for 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 and 1/1000 sec and time exposures of any duration.

**Automatic flash synchronization** for flashbulb up to 1/500 sec, for electronic flash units up to 1/50 sec.

**Separate standard contacts** for flashbulb and electronic flash units.

**Rapid winding lever** with double exposure lock for shutter wind and film transport.

**Quick film reloading system** for all commercially available 35mm films and LEICA cassettes.

**Inclined crank handle** for rewinding the exposed film.

**Automatic frame counter** read through a magnifying glass.

**Film indicator** with DIN-ASA conversion scale.

Shoe for special viewfinders and other accessories.

Prepared for the use on the REPROVIT II a.

	Code No.
LEICA MD-2 body . . . . .	10 105 **
recording device . . . . .	14 142 **
100 marking strips . . . . .	14 170 **

\* In preparation

\*\* distribution via Special Programme





# LEICA MD-22

Format 18x24cm for REPROVIT II a

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## LEICA MD-22 \*

produces **72 half-frame pictures (18 x 24mm)**; double and multiple exposures possible.

Compact **all-metal body with hinged back** and carrying eyelets on both sides, top and baseplate black chromium plated, 1/4" tripod thread.

**Quick-change bayonet lens mount.**

**Click-stop shutter speed dial.**

**Focal-plane shutter** for 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 and 1/1000 sec and time exposures of any duration.

**Automatic flash synchronization** for flashbulbs up to 1/500 sec, for electronic flash units up to 1/50 sec.

**Separate standard contacts** for flashbulb and electronic flash units.

**Rapid winding lever** with double exposure lock for shutter wind and film transport.

**Quick film reloading system** for all commercially available 35mm films and LEICA cassettes.

**Inclined crank handle** for rewinding the exposed film.

**Automatic frame counter** to be read through a magnifying glass.

Film indicator with DIN-ASA conversion scale.

Shoe for special viewfinders and other accessories.

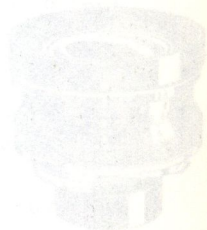
Prepared for use on the REPROVIT II a.

Code No.

LEICA MD-22 body . . . . . 10 106

\* In preparation

# LEICA-M-Lenses and the VISOFLUX-System



Code No. 11 103

11 103

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Code No. 11 104

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## SUPER-ANGULON

1:2.8 35mm

Aperture extremely bright and fast

Aperture 2.8, 35mm

Number of elements 8

Filter size 39mm

Group 1, first class 1.5

1.5 x 1.5

1.5 x 1.5

1.5 x 1.5

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## SUPER-ANGULON 1:2.8 35mm with lens hood

Shilian (Leather)

Leather case for lens hood

11 104

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Code No. 11 104

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For use in the LEICA M 2.8 35mm lens hood (see page 10)

# LEICA-M-Lenses and the VISOFLEX-System



26281-110

11 103

## **SUPER-ANGULON®** **f/3.4 21mm\***

Lens of extremely wide angle of view

Angle of view: 92°

Number of elements: 8

Filter size: 7 or E 48

Series 7 filters must be inserted in the lens hood

External lens mount diameter: A 52.2

Combined "feet-metre" scale

Click stops (including 1/2 values)

Smallest aperture: f/22

Rangefinder coupling:

for LEICA M 2, M 4, M 4-2 and M 5:  
∞ to 0.7m (28")

for LEICA M 3: ∞ to 1m (40")  
Manual focusing on M 3 down  
to 0.4m (16")

Smallest object field:

380 x 570mm (15 x 23" approx.)

Brilliant finder required

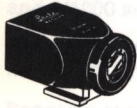
Non-rotating focusing mount

Black finish

Lens hood

Internal thread: M 48 x 0.75

Weight: 0.300 kg



26428 - 120

12 002

Code No.

**SUPER-ANGULON f/3.4 21mm with lens hood** . . . . . 11 103

**Brilliant viewfinder** . . . . . 12 002

**Leather case for brilliant viewfinder** . . . . . 14 617

\* For use in the LEICA M 5 please note directions on page 164.



27687-110

11 801

**ELMARIT f/2.8 28mm\***

Wide angle lens  
 Angle of view: 76°  
 Number of elements: 8  
 Filter size: 7 or E 48  
 Series 7 filters must be inserted in the lens hood  
 External lens mount diameter: A 52.5  
 Combined "feet-metre" scale  
 Click-stops (including 1/2 values)  
 Smallest aperture: f/22  
 Rangefinder coupling:  
 for LEICA M 2, M 4, M 4-2 and M 5:  
 ∞ to 0.7m (28")  
 for LEICA M 3: ∞ to 1m (40")  
 Manual focusing on M 3 down to 0.7m (28")  
 Smallest object field:  
 533 x 800mm (21 x 32")  
 Brilliant finder required  
 Non-rotating focusing mount  
 Black finish  
 Lens hood  
 Internal thread: M 48 x 0.75  
 Weight: 0.225 kg



12 007

-26922 - 120

**ELMARIT f/2.8 28mm with lens hood**

**Brilliant viewfinder**

**Leather case for brilliant viewfinder**

Code No.

11 801

12 007

14 617



27989-110

11 309

**SUMMICRON f/2 35mm**

Fast wide-angle lens  
 Angle of view: 64°  
 Number of elements: 6  
 Filter size: 7 or E 39  
 External lens mount diameter: A 42  
 Combined "feet-metre" scale  
 Click-stops (including 1/2 values)  
 Smallest aperture: f/16  
 Rangefinder coupling:  
 for LEICA M 2, M 4, M 4-2 and M 5:  
 ∞ to 0.7m (28")  
 for LEICA M 3: ∞ to 1m (40")  
 Smallest object field:  
 for LEICA M 2, M 4 and M 5:  
 430 x 640mm (17 x 26" approx.)  
 for LEICA M 3:  
 630 x 950mm (24 x 38")  
 Built-in camera finder  
 Non-rotating focusing mount  
 Black finish  
 Lens hood takes filters series 7  
 (unscrew front part of lens hood to insert it)  
 Internal thread: M 39 x 0.5  
 Weight: 0.170 kg

Code No.

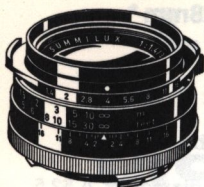
**SUMMICRON f/2 35mm**

**with lens hood**

11 309

\* For use in the LEICA M 5 please note directions on page 164.





26003-110

11 870

## SUMMILUX® f/1.4 35mm

Ultra-fast wide-angle lens

Angle of view: 64°

Number of elements: 7

Filter size:

E 41 (up to Serial No. 2 166 700)

7 (from Serial No. 2 166 701)

External lens mount diameter:

A 46.5 (up to Serial No. 2 166 700)

A 42 (from Serial No. 2 166 701)

Combined "feet-metre" scale

Click-stops (including 1/2 values)

Smallest aperture: f/16

Rangefinder coupling:

∞ to 1m (40")

Smallest object field:

630 x 950mm (24 x 38")

Built-in camera finder

Non-rotating focusing mount

Black finish

Lens hood also accommodates filters

from Serial No. 2 166 701

Can be unscrewed to take the Series 7 filter

Internal thread up to No. 2 166 700:

M 41 x 0.75

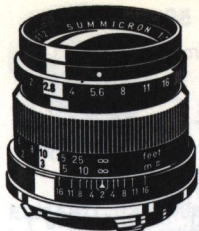
Weight: 0.245 kg

**SUMMILUX f/1.4 35mm**

Code No.

with lens hood . . . . .

11 870



26211-110

11 817

**SUMMICRON f/2 50mm**

Fast universal lens  
 Angle of view: 45°  
 Number of elements: 6  
 Filter size: E 39  
 External lens mount diameter: A 42  
 Combined "feet-metre" scale  
 Click-stops (including 1/2 values)  
 Smallest aperture: f/16  
 Rangefinder coupling: ∞ to 0.7m (28")  
 On LEICA M 3: ∞ to 1m (40")  
 Smallest object field:  
 277 x 416mm (11 x 16 1/2" approx.)  
 (on M 5, M 4, M 4-2, and M 2)  
 410 x 620mm (16 x 25" approx.) (on M 3)  
 Built-in camera finder  
 Non-rotating focusing mount  
 Lens unit can be unscrewed from mount  
 Lens hood  
 Black finish  
 Internal thread: M 39 x 0.5  
 Weight: 0.260 kg

Code No.

**SUMMICRON f/2 50mm**

with lens hood . . . . . 11 817



26430 - 110

11 114

**SUMMILUX f/1.4 50mm**

Ultra-fast lens  
 Angle of view: 45°  
 Number of elements: 7  
 Filter size: E 43  
 External lens mount diameter: A 45  
 Click-stops (from Serial No. 2048701 including 1/2 values)  
 Smallest aperture: f/16  
 Rangefinder coupling: ∞ to 1m (40")  
 Smallest object field:  
 410 x 620mm (16 x 25" approx.)  
 Combined "feet-metre" scale  
 Built-in camera finder  
 Non-rotating focusing mount  
 Black finish  
 Lens hood  
 Internal thread: M 43 x 0.5  
 Weight: 0.360 kg

Code No.

**SUMMILUX f/1.4 50mm**

with lens hood . . . . . 11 114



## NOCTILUX® f/1 50mm

Special lens of extreme speed  
 Angle of view: 45°  
 Number of elements: 7  
 Filter size: E 58  
 External lens mount diameter: A 61  
 Click-stops (including 1/2 values)  
 Smallest aperture: f/16  
 Rangefinder coupling: ∞ to 1m (40")  
 Smallest object field:  
 410 x 620mm (16 x 25" approx.)  
 Combined "feet-metre" scale  
 Built-in camera finder  
 Non-rotating focusing mount  
 Black finish  
 Lens hood  
 Internal thread: M 58 x 0.75  
 Weight: 0.580 kg

11 821

## NOCTILUX f/1 50mm

Code No.

with lens hood . . . . . 11 821



## TELE-ELMARIT f/2.8 90mm (short design)

Handy press and snapshot lens  
 Angle of view: 27°  
 Number of elements: 4  
 Filter size: E 39  
 External lens mount diameter: A 42  
 Smallest aperture: f/16  
 Click stops (including 1/2 values)  
 Rangefinder coupling: ∞ to 1m (40")  
 Smallest object field:  
 220 x 330mm (9 x 13" approx.)  
 Combined "feet-metre" scale  
 Non-rotating focusing mount  
 Built-in camera finder  
 Lens unit cannot be unscrewed  
 Black finish  
 Internal thread: M 39 x 0.5  
 Weight: 0.225 kg

28482-111

11 800

## TELE-ELMARIT f/2.8 90mm

Code No.

with lens hood . . . . . 11 800



11 026

26966 - 110

**ELMARIT f/2.8 90mm**  
**Lens unit separate**

for use on the VISOFLEX 3 or universal focusing bellows (with lens hood) . . . . . 11 026



25866-110

11 123

**SUMMICRON f/2 90mm**

Fast lens for press work  
 Angle of view: 27°  
 Number of elements: 6  
 Filter size: E 48  
 External lens mount diameter: A 63.7  
 click-stops (including 1/2 values)  
 Smallest aperture: f/22  
 Combined "feet-metre" scale  
 Rangefinder coupling: ∞ to 1m (40")  
 Smallest object field:  
 220 x 330mm (9 x 13" approx.)  
 Non-rotating focusing mount  
 Lens unit can be unscrewed from  
 the mount  
 Built-in camera finder  
 Built-on, extensible lens hood  
 Black finish  
 Internal thread: M 48 x 0.75  
 Weight: 0.660 kg

Code No.

**SUMMICRON f/2 90mm** . . . . . 11 123

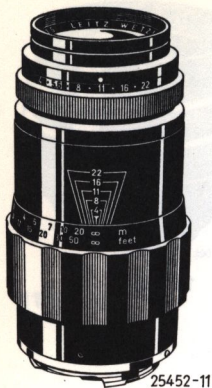
Accessories for use on the VISOFLEX 3:

**Short focusing mount** for conversion of a rangefinder-coupled lens for use on the VISOFLEX 3 (also suitable for ELMARIT 135mm, p. 67) . . . . . 16 462

**SUMMICRON f/2 90mm lens unit separate**  
 for use on the universal focusing bellows . . . . . 11 133

**SUMMICRON f/2 90mm for VISOFLEX 3 see p. 71.**





25452-11

**11 851**

## TELE-ELMAR 1/4 135mm

Telephoto lens

Angle of view: 18°

Number of elements: 5

Filter size: E 39

External lens mount diameter: A 42

Click-stops (including 1/2 values)

Smallest aperture: f/22

Rangefinder coupling: ∞ to 1.5m (60")

Smallest object field:

220 x 330mm (9 x 13" approx.)

Combined "feet-metre" scale

Lens unit can be unscrewed from

the mount

Viewfinder:

LEICA M 5, M 4, M 4-2, and M 3

built into the camera

LEICA M 2 brilliant finder required

Non-rotating focusing mount

Black finish

Internal thread: M 39 x 0.5

Weight: 0.550 kg

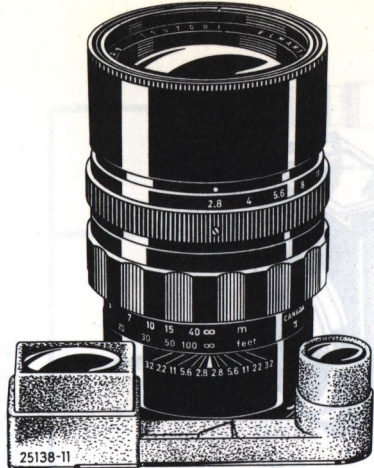
## TELE-ELMAR 1/4 135mm

Code No.

with lens hood . . . . . 11 851

## TELE-ELMAR 1/4 135mm lens unit separate

for use on the universal focusing bellows and on the  
VISOFLEX 3 with lens hood . . . . . 11 852



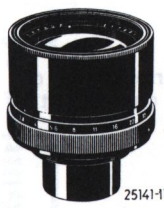
**ELMARIT f/2.8 135mm with viewfinder front attachment**

- Fast telephoto lens
- Angle of view: 18°
- Number of elements: 5
- Filter size: 7
- Retaining ring for Series 7 filters
- External lens mount diameter: A 63.7
- Click-stops (including 1/2 values)
- Smallest aperture: f/32
- Rangefinder coupling: ∞ to 1.5m (60")
- Smallest object field: 220 x 330mm (9 x 13" approx.)
- Combined "feet-metre" scale
- Lens unit can be unscrewed from the mount
- Built-in camera finder
- Non-rotating focusing mount
- Black finish
- Built-on, extensible lens hood
- Internal thread: M 54 x 0.75
- Weight: 0.730 kg

11 829

Code No.

**ELMARIT f/2.8 135mm . . . . . 11 829**



11 828

25141-11

**ELMARIT f/2.8 135mm lens unit separate for use on the universal focusing bellows . . . . . 11 828**



16 462

25685-11

Accessories for use on the VISOFLEX 3:

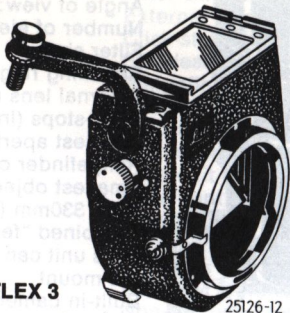
**Short focusing mount** for conversion of a rangefinder-couple lens for use on the VISOFLEX 3 (also suitable for SUMMICRON 90mm, p. 65) . . . . . 16 462

**ELMARIT f/2.8 135mm for VISOFLEX 3 see p. 72.**



25127-12

16 499



25126-12

16 497

**VISOFLEX 3**

**VISOFLEX® 3 \***

**Mirror reflex device** for lenses from 65 to 560mm and universal focusing bellows 2. Three possibilities of varying the mirror operation:

1. Instant return shortly before shutter release (adjustable)
2. Coupled with the lever operation.
3. Arrest of raised mirror (for long exposure times).

In the settings 1 and 2 the mirror returns to its rest position after the exposure.

**Cable release bush.**

**Right-angle right-way-round 4 x viewing magnifier.**

**Vertical 5 x magnifier (reversed image)**, adjustable for the correction of deficient eyesight from + 1.75 to - 2.5 dioptries. The magnifiers can be left in position when the camera body is interchanged.

1/4" tripod thread.

Weight: 0.48 kg

**VISOFLEX 3**

Code No.

without magnifier . . . . . 16 497

4 x magnifier (90°), also for VISOFLEX II . . . . . 16 499

VISOFLEX 3 with 4 x magnifier, complete . . . . . 16 498



16 461

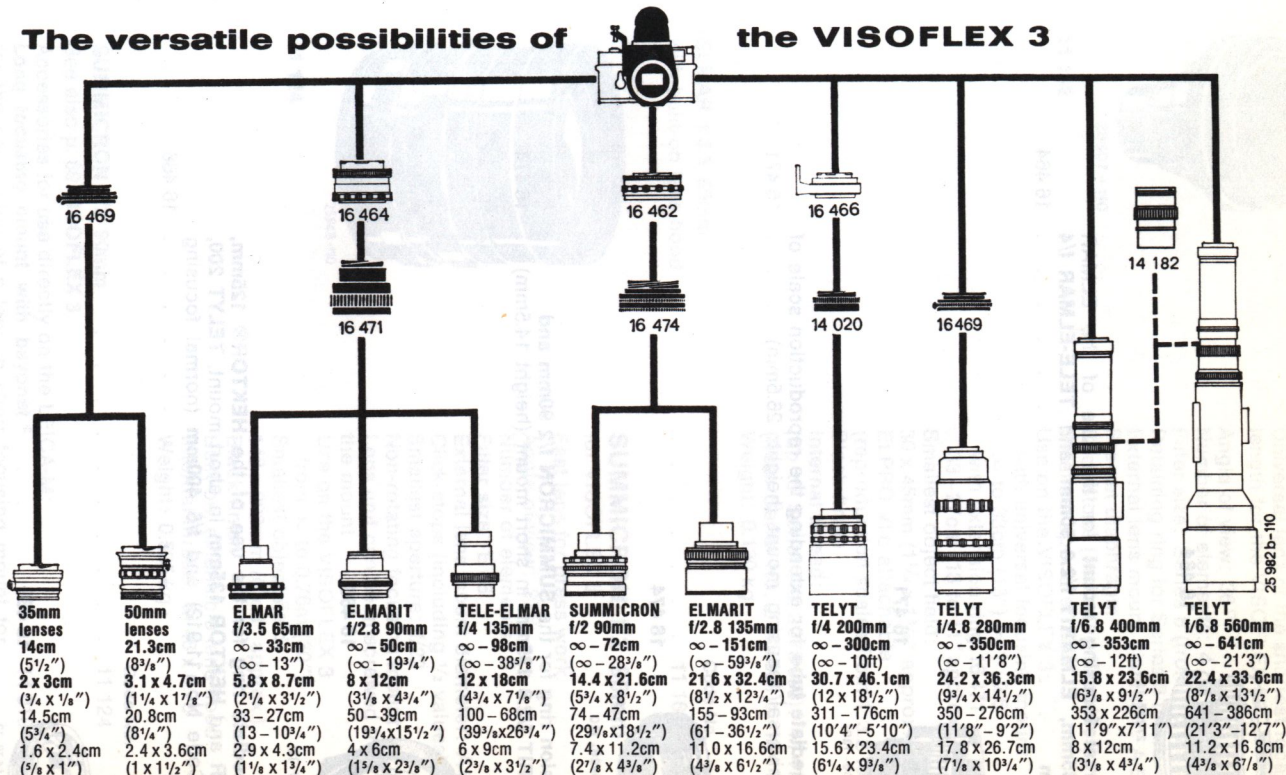
5 x magnifier (vertical), also for VISOFLEX II . . . . . 16 461

\* Cannot be used on the LEICA CL.



# The versatile possibilities of

# the VISOFLEX 3



Subject to film plane  
Dimensions of the smallest object field

**Bold type** = normal working range  
**Lean type** = black intermediate rings necessary for the macro or close-up range  
**Format** = dimensions of the field at minimum focusing distance

25 982 b - 110





27207-120

16 464

**Universal focusing mount** for the use of the **ELMAR f/3.5 65mm**, **ELMARIT f/2.8 90mm** and **TELE-ELMAR f/4 135mm** . . . . . 16 464



27208-120

16 471

**Intermediate tube** for extending the reproduction scale of the universal focusing mount (height: 26.5mm) . . . . . 16 471



26426-120

16 474

**Extension ring** for the **SUMMICRON f/2 90mm** and **ELMARIT f/2.8 135mm** in short mount (height 14.5mm) . . . . . 16 474



5553-12

16 466

**Intermediate ring** for the use of the **HEKTOR® 125mm**, **ELMAR** and **HEKTOR 135mm** in short mount, **TELYT 200, 280** (Code No. 11 912) and **f/5 400mm** (normal focusing range) . . . . . 16 466



5679-12

16 469

**Intermediate ring** for the use of the **50mm** and **35mm\*** lenses on the VISOFLEX 3 . . . . . 16 469

\* For lenses with screw thread a bayonet adapter 14 097 is required (see p. 89)



26507-110

11 162

### ELMAR 1/3.5 65mm

Universal lens of the shortest focal length for the VISOFLEX 3

Angle of view: 36°

Number of elements: 4

Filter size: Series 6 (from No. 2378 901)

Retaining ring for Series 6 filters

External lens mount diameter: A 56

Pre-set diaphragm

Click-stops (including 1/2 values)

Smallest aperture: f/22

Use on the VISOFLEX 3:

with universal focusing mount

∞ to 33cm (13") = 1 : 2.5

with extension ring 16 471

33-27cm (13 to 11" approx.) = 1 : 1.25

Smallest object field:

30 x 45mm (1 1/4 x 1 3/4" approx.)

ELPRO VI b attachable

(reproduction scales from 1:3.2 to 1:1.4)

Black finish

Internal thread:

(up to Serial No. 2378 900): M 41 x 0.5

(from Serial No. 2378 901): M 44 x 0.75

Weight: 0.130 kg

### ELMAR 1/3.5 65mm

with built-on lens hood . . . . .

Code No.

11 162



25948-110

11 124

### SUMMICRON 1/2 90mm

for VISOFLEX 3

Fast lens for press work

Angle of view: 27°

Number of elements: 6

Filter size: E 48

External lens mount diameter: A 63.7

Click-stops (including 1/2 values)

Smallest aperture: f/22

Non-rotating focusing mount

Lens unit can be unscrewed from

the mount

Use on the VISOFLEX 3

from ∞ to 0.76m (30")

Smallest object field:

148 x 222mm (6 x 9" approx.)

Black finish

Built-on, extensible lens hood

Internal thread: M 48 x 0.75

Weight: 0.525 kg

Code No.

11 124

### SUMMICRON 1/2 90mm . . . . .

See also p. 69 VISOFLEX 3

Accessories for use directly on the LEICA-M:

**Long focusing mount with bayonet\*** . . . . . 14 019

for the conversion of a lens in short focusing mount for the rangefinder-coupled use on the LEICA

**Lens unit separate for use on the universal focusing bellows** . . . . . 11 133

\* please return lens to the factory.

# ELMARIT f/2.8 135mm

for VISOFLEX 3

Fast telephoto lens

Angle of view: 18°

Number of elements: 5

Filter size: 7

Retaining ring for Series 7 filters

External lens mount diameter: A 63.7

Click-stops (including 1/2 values)

Smallest aperture: f/32

Non-rotating focusing mount

Lens unit can be unscrewed from the mount

Use on the VISOFLEX 3

from ∞ to 1.55m (62")

Smallest object field:

220 x 330mm (9 x 13" approx.)

ELPRO VII a and VII b attachable, ranges see page 39

Black finish

Built-on, extensible lens hood

Internal thread: M 54 x 0.75

Weight: 0.760 kg



25683-11

11 827

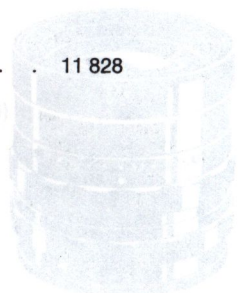
Code No.

ELMARIT f/2.8 135mm . . . . .

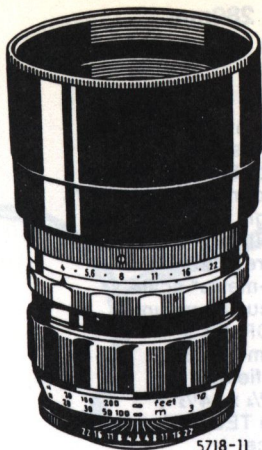
11 827

Lens unit separate . . . . .

11 828







5718-11

11 063

**TELYT f/4 200mm**  
 for VISOFLEX I, II, and 3  
 Telephoto lens  
 Angle of view: 12°  
 Number of elements: 4  
 Filter size: E 58  
 External lens mount diameter: A 72  
 Pre-set diaphragm  
 Click-stops (including 1/2 values)  
 Smallest aperture: f/22  
 Combined "feet-metre" scale  
 Non-rotating focusing mount  
 Scale rings chromium finished  
 Use on the VISOFLEX I, II, and 3  
 from ∞ to 3m (10ft)  
 Smallest object field:  
 310 x 460mm (12 1/4 x 18 1/4")  
 Black finish  
 Built-on, extensible lens hood  
 Internal thread: M 58 x 0.75  
 Weight: 0.640 kg

Code No.

**TELYT f/4 200mm** . . . . .

11 063



14 020

26427-120

**Adapter ring 15mm for photography in the near-focusing range** . . . . . 14 020

- 1 ring - 3m to 1.7m (10' to 5' 8" approx.),  
 smallest object field 156 x 234mm (6 1/4 x 9 1/2" approx.);
- 2 rings - 1.7m to 1.3m (5' 8" to 4' 4" approx.),  
 smallest object field 106 x 159mm (4 1/4 x 6 1/2" approx.);
- 3 rings - 1.3m to 1.13m (4' 4" to 3' 9"),  
 smallest object field 80 x 120mm (3 1/4 x 4 3/4" approx.).

(Data refer to the distance between object and film plane.)

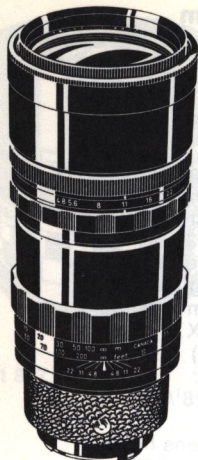


11 069

25140-11

**Lens unit separate for use on the universal focusing bellows** . . . . . 11 069





27002-110

11 914

**TELYT f/4.8 280mm**

for VISOFLEX 3

Telephoto lens

Angle of view: 8.5°

Number of elements: 4

Filter sizes: Series 8

Retaining ring for Series 8 filters

External lens mount diameter: A 76

Pre-set diaphragm

Click-stops (including 1/2 values)

Smallest aperture: f/22

Combined "feet-metre" scale

Non-rotating focusing mount

Use on the VISOFLEX 3

from ∞ to 3.5m (11' 8")

Smallest object field:

242 x 363mm (9 3/4 x 14 1/2")

Lens unit on the TELEVIT rapid

focusing device

from ∞ to about 2m (6' 8")

Smallest object field:

approx. 100 x 150mm (4 x 6")

Black finish

Built-on, extensible lens hood

Internal thread: M 66 x 0.75

Weight: 1.200 kg

Code No.

**TELYT f/4.8 280mm**

11 914



5679-12

16 469

**Adapter ring 10mm for photography in the near-focusing range**

16 469

1 ring - 3.5 to 2.76m (11' 8" to 9' 2" approx.);

smallest object field 178 x 267mm (7 1/4 x 10 3/4" approx.);

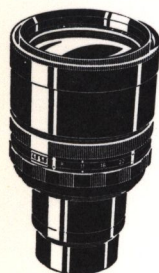
2 rings - 2.76m to 2.33m (9' 2" to 7' 5");

smallest object field 141 x 212mm (5 3/4 x 8 1/2");

3 rings - 2.33m to 2.06m (7' 5" to 6' 10");

smallest object field 117 x 176mm (4 3/4 x 7").

(Data refer to the distance between object and film plane.)



27003-110

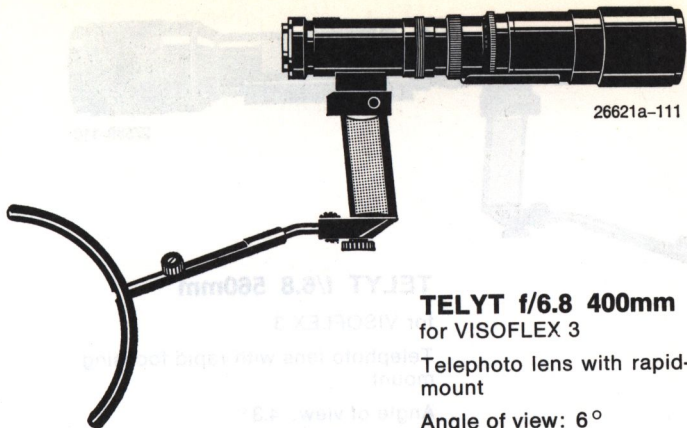
11 904

**Lens unit separate for use on the universal focusing bellows or on the TELEVIT rapid-focusing device**

11 904

**Retaining ring for Series 8 filters (replacement)**

14 169



26621a-111

11 966

**TELYT f/6.8 400mm**  
for VISOFLEX 3

Telephoto lens with rapid-focusing mount

Angle of view: 6°

Number of elements: 2

Filter size: Series 7 (in filter slot) or 8 with filter retainer 14 165

External lens mount diameter: A 78

Click-stops (between f/8 and f/16 also 1/2 values)

Smallest aperture: f/32

Use on the VISOFLEX 3

from ∞ to 3.6m (12ft)

Smallest object field:

158 x 236mm (6 1/2 x 9 1/2" approx.)

Black finish

Built-on, extensible lens hood

Detachable shoulder stock

Internal thread: M 72 x 0.75

Weight: 1.830 kg

	Code No.
<b>TELYT f/6.8 400mm</b> consisting of:	
Lens unit . . . . .	11 903
Tube . . . . .	11 905
Hand grip . . . . .	14 188
<b>TELYT f/6.8 400mm complete</b> . . . . .	<u>11 966</u>

**Recommended accessory:**

Heavy-duty carrying strap . . . . .	14 130
-------------------------------------	--------



**TELYT f/6.8 560mm**

for VISOFLEX 3

Telephoto lens with rapid focusing mount

Angle of view: 4.3°

Number of elements: 2

Filter size: Series 7 (in filter slot)

External lens mount diameter: A 98

Click-stops

(between f/8 and f/16 also 1/2 values)

Smallest aperture: f/32

Use on the VISOFLEX 3:

from ∞ to 6.4m (21ft 4in)

Smallest object field:

224 x 336mm (9 x 13 1/2 in)

1/4 and 3/8" tripod threads

Black finish

Built-on, extensible lens hood

Detachable shoulder stock

Weight: 2.300 kg

Code No.

**560mm TELYT f/6.8 consisting of:**

Lens unit . . . . .	11 907
Tube . . . . .	11 905
Hand grip . . . . .	14 188
TELYT f/6.8 560mm, complete . . . . .	11 864



**14 182**

27094 - 120

**Extension tube (60mm) for the 400mm and 560mm TELYT f/6.8 lenses, for extending the focusing range (close-up)**

(see page 33) . . . . . 14 182

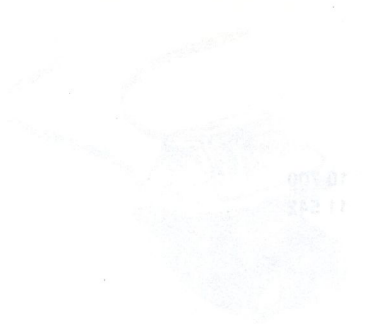
**Recommended accessory:**

Heavy-duty carrying strap . . . . . 14 130

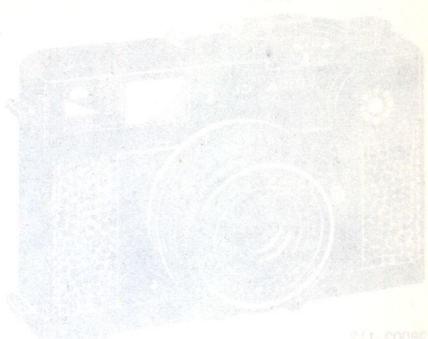
...and when you're ready to shoot, the camera is ready to go.

LEICA CL

10701



10700  
11242



28002-112

## LEICA CL

Compact all-metal body with textured synthetic leather covering. Body and back hinged one unit to slip off after release of rotating base for Eyeflex for carrying ease on one side; strap will hold base closed during the loading. Top and base plates have black anodized finish. A tripod socket.

Built-in bright-line viewfinder coated with low-charge material. Built-in coupled rangefinder for split-image and coincidence methods.

Viewfinder frames for 40, 50, and 50mm lenses come with viewfinder. Automatic parallax compensation.

Well-tried quick-change bayonet for PENTAX lenses. Selective light measurement through the lens thru a CdS photoelectric shutter speed and measuring pointer clearly visible in finder. Power-assisted adjustment of the magnification of shutter speed coated with low-charge indicator for apertures between f/2 and f/16. (ASA 100-ASA 1000).

PX 825 for VARTA 825; battery cell easily available from manufacturer. Measuring range 1/2000 sec. to 1/2 sec. and 1/2 stop steps, shutter speed indicator from 1/1000 sec. to 1/2 sec. and 1/2 stop steps in finder and on speed dial.

Automatic winding of exposure meter after winding of camera and lever slightly out. Meter turns off automatically after shutter release.

Battery-actuated built-in 2000-shot counter. Focus plane shutter travels vertically at speeds of 1/2000, 1/1000, 1/500, 1/250, 1/125, 1/60, and 1/30 sec. Intermediate speeds speed selected by 1/2 stop and 1/30 sec.

Automatic flash synchronization and necessary plug up to 1/500 sec. (X-sync). Film counter zeroed automatically when camera back is opened.

Rapid-winding single-shock lever with double exposure lock for quick wind and film transport.

Rewind crank folded into camera base. Film type indicator in camera base.

Quick film loading system for 35mm cartridges on the rear of the camera without trimmed leader.

Carrying strap with two-point adjustable. Measurements: 78 x 124 x 40 mm (3 1/8 x 4 7/8 x 1 1/2"). Weight: 0.382 kg.



# LEICA CL



28002-112

10 700

11 542

## LEICA CL

Compact **all-metal body** with textured synthetic leather covering, base plate and back forming one unit to slip off after release of rotating base lock. Eyelets for carrying strap on one side; strap will hold base plate/back unit during film loading. Top and base plates have black anodized finish.  $\frac{1}{4}$ " tripod thread.

**Built-in bright-line viewfinder**, coupled with lens-changing mount.

**Built-in coupled rangefinder** for split-image and coincidence methods.

**Viewfinder frames for 40, 50, and 90mm lenses** come into view automatically.

**Automatic parallax compensation.**

**Well-tryed quick-change bayonet** for LEICA-M lenses.

**Selective light measurement through the lens.** Built-in CdS exposure meter. Shutter speeds and measuring pointer clearly visible in finder. Pointer zeroed by adjustment of iris diaphragm or shutter speed, coupled with film speed indicator for speeds between 15 and 33 DIN (25 to 1600 ASA). MALLORY PX 625 (or VARTA 7002) mercury cell readily available from manufacturers.

**Measuring range:** 10 time steps and up to 7 f-stop steps, shutter speed settings from 1/1000 sec to 1/2 sec and B shown clearly in finder and on speed dial.

**Automatic switch-on of exposure meter** after winding of camera, with lever slightly out.

Meter **turns off automatically** after shutter release.

**Battery test button** on front panel of camera.

**Focal plane shutter** travels vertically at speeds 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500, and 1/1000 sec, intermediate values except between 1/30 and 1/60 sec.

**Automatic flash synchronization** via accessory shoe up to 1/60 sec (X-contact).

**Film counter** zeroing automatically when camera back is opened.

**Rapid-winding single-stroke lever** with double exposure lock, for shutter wind and film transport.

**Rewind crank** folded flush into camera base.

**Film type indicator** in camera base.

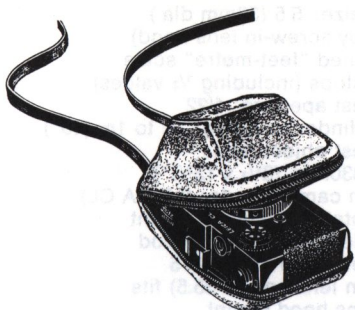
**Quick film loading system** for all 35mm cartridges on the market, with or without trimmed leader.

**Carrying strap** with non-slip pad, adjustable.

**Measurements:** 76 x 121 x 32mm (3" x 4 $\frac{3}{4}$ " x 1 $\frac{1}{4}$ ").

**Weight:** 0.365 kg.

LEICA CL body . . . . . 10 700  
 Ever-ready case, zip-round soft black leather case with  
 openings for shoulder strap, for LEICA CL with 40mm  
 SUMMICRON-C . . . . . 14 542



11 542

28184-120



28178-112

11 542

**SUMMICRON-C 1/2 40mm with lens hood . . . . . 11 542**  
 (not for use on LEICA M models)

**SUMMICRON-C 1/2 40mm**

compact standard lens for the LEICA CL

- Angle of view: 57°
- Number of elements: 6
- Filter size: 5.5 (36mm dia.)  
(held by screw-in lens hood)
- Combined "feet-metre" scale
- Click-stops (including 1/2 values)
- Smallest aperture: f/16
- Rangefinder coupling: ∞ to 0.8m (32")
- Smallest object field:  
434 x 651mm (17 x 25 1/2")
- Built-in camera finder (LEICA CL)
- Non-rotating focusing mount
- Flexible fold-over lens hood  
in screw base M39x0.75
- Push-in lens cap (A 35.5) fits  
into lens hood mount
- Black finish
- Weight: 0.150 kg



28179-112

11 540

### ELMAR-C f/4 90mm

compact medium-focal-length lens  
Length: 61mm (2<sup>3</sup>/<sub>8</sub>" )

Maximum diameter: 51mm (2")

Angle of view: 27°

Number of elements: 4

Filter size: 5.5 (36mm dia.)

(held by screw-in lens hood)

Combined "feet-metre" scale  
Click-stops (including 1/2 values)

Smallest aperture: f/22

Rangefinder coupling: ∞ to 1m (40")

Smallest object field:

220 x 330mm (8 1/2 x 12 3/4")

Built-in camera finder (LEICA CL)

Non-rotating focusing mount

Flexible fold-over lens hood

in screw base M39 x 0.75

Push-in lens cap (A 35.5) fits

into lens hood mount

Black finish

Weight: 0.270 kg

Code No

**ELMAR-C f/4 90mm with lens hood** . . . . . 11 540  
(not for use on LEICA M models)



14 825

28183-120

#### Combination case for LEICA CL accepting:

1 LEICA CL body

1 SUMMICRON-C 40mm

1 ELMAR-C 90mm

films and filters (one lens attached to body)

size approx. 17 x 16 x 9cm (6 3/4" x 6 3/8" x 3 1/2") . . . . . 14 825

**Short wrist strap, for use instead of neck strap** . . . . . 14 197

**Correction lens** fitting onto finder eyepiece

(please specify one of the following types:

-1; -2; -3; +0.5; +1; +1.5; +2; or +3 dptrs.) . . . . . 14 081

Correction lens mount, Order No. 044-044.12

(available through LEITZ After-Sales Service Dept.)

#### Accessories:

Neck strap with non-slip pad . . . . . 14 194

Lens hood for SUMMICRON-C 40mm . . . . . 12 518

Lens hood for ELMAR-C 90mm . . . . . 12 517

Lens cap A 35.5 to fit into lens hoods . . . . . 14 191

Bayonet rear cover for C and M lenses . . . . . 14 051

Bayonet camera dust cover . . . . . 14 195

Soft leather bag for ELMAR-C 90mm . . . . . 14 543

# LEICA

## Viewfinders

## Lens hoods

## Filters

## Other Accessories



11521

Brilliant finder  
right-way found 7" view range  
Reflected light free



12002

20022 - 100

Brilliant finder for 5mm lenses  
reproduction scale 0.1 black finish  
Leather case for same

12002  
14011



12007

20022 - 100

Brilliant finder for 5mm lenses  
reproduction scale 0.2 with eye marking for parallel con-  
position below 5mm (8.8") black finish  
Leather case for same

12007  
14011



# LEICA

## Viewfinders

## Lens hoods

## Filters

## Other Accessories

---

Code No.

### Brilliant finder

right-way-round, brilliant image.  
Reflected bright frame.



12 002

26428 - 120

### Brilliant finder for 21mm lenses

reproduction scale 0.3, black finish . . . . .	12 002
Leather case for same . . . . .	14 617



12 007

.26922 - 120

### Brilliant finder for 28mm lenses

reproduction scale 0.5 with line marking for parallax compensation below about 2m (6' 8"), black finish . . . . .	12 007
Leather case for same . . . . .	14 617

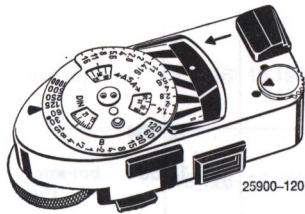


12 025

**Brilliant finder for 90mm lenses**

object field at natural size, parallax compensation and marking for reduction of image field below about 2m (6' 8") 12 025

Leather case for same . . . . . 14 630



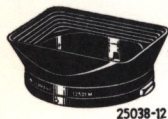
14 217

**LEICAMETER MR** chromium finish . . . . . 14 217

**LEICAMETER MR** black finish . . . . . 14 218

Leather case for the LEICAMETER . . . . . 14 213

## Lens hoods for:



12 501

**SUPER-ANGULON f/3.4 21mm**  
and **ELMARIT f/2.8 28mm** (replacement) . . . . . 12 501



12 504

**SUMMILUX f/1.4 35mm**  
(replacement; from Serial No. 2 166 701 onwards) . . . . . 12 504

**SUMMICRON f/2 35mm 11 309** (replacement) . . . . . 12 504



12 585

**All 50mm lenses**

of 42mm external lens mount diameter . . . . . 12 585

Cap for same (replacement) . . . . . 14 033

**SUMMILUX f/1.4 50mm** (replacement) . . . . . 12 586

Cap for same (replacement) . . . . . 14 037

**NOCTILUX f/1.2 50mm** (replacement) . . . . . 12 503

**NOCTILUX f/1 50mm** (replacement) . . . . . 12 519



12 575

**ELMARIT f/2.8 90mm** and **TELE-ELMAR f/4 135mm**  
of 42mm external lens mount diameter (replacement) . . . . . 12 575

Cap for same (replacement) . . . . . 14 033

**TELE-ELMARIT f/2.8 90mm**, internal thread 39mm (rubber)  
(replacement) . . . . . 11 250

Cap for same (replacement) . . . . . 11 252

	E 39	E 41	E 43	E 48	E 58	Series 6	Series 7	Series 8
Screw-in filters (sizes p. 86)								
Yellow	13 086	13 160	13 161	13 295	13 235	13 013	13 006	13 019
Yellow-green	13 096		13 171	13 305	13 245	13 014	13 007	13 021
Orange	13 101		13 176	13 310	13 250	13 011	13 008	13 017
Red (R)	13 116	13 190	13 191	13 315	13 255			
Infra-red (IR)	13 126	13 200	13 196	13 325				
U.Va. (colourless)	13 131	13 205	13 206	13 330	13 270	13 012	13 009	13 018
Blue	13 098		13 173	13 307				
Polarizing	(A 42) 13 352		(A 45) 13 351				*	**
							13 370	13 372
							Retaining ring (replacement)	
						14 160	14 161	14 169

Code No.

Polarizing filter for ELMAR f/3.5 65mm (11 162) . . . 13 358

Polarizing filter for ELMARIT f/2.8 135mm (11 827) . . . 13 359

Retaining ring for Series 8 filters on the TELYT f/6.8 400mm 14 165

\* For use with: TELYT f/6.8 400mm } cannot be rotated  
 TELYT f/6.8 560mm } on the lens

\*\* For use only with: ELMARIT-R f/2.8 24mm  
 PA-CURTAGON-R f/4 35mm  
 MACRO-ELMARIT-R f/2.8 60mm  
 ELMARIT-R f/2.8 180mm } cannot be rotated  
 TELYT-R f/4 250mm } on the lens  
 TELYT-R f/6.8 400mm }  
 (with filter adapter 14 165)



### Filter sizes:

Examples: A 36 = Slip-on filter, external lens mount diam. 36mm

E 39 = Screw-in filter, thread diameter 39mm

7 = series filter size 7

Lens	Filter size		
	f	mm	Series
SUPER-ANGULON	f/3.4	21mm	E 48 or 7
SUPER-ANGULON	f/4	21mm	E 39
SUMMARON	f/5.6	28mm	A 36
ELMARIT	f/2.8	28mm	E 48 or 7
HEKTOR	f/6.3	28mm	A 36
SUMMILUX (up to Serial No. 2 166 700)	f/1.4	35mm	E 41
SUMMILUX (from Serial No. 2 166 701)	f/1.4	35mm	7
SUMMICRON (up to Serial No. 2 307 450)	f/2	35mm	E 39
SUMMICRON (from Serial No. 2 307 451)	f/2	35mm	7
SUMMARON	f/2.8	35mm	E 39
ELMAR	f/3.5	35mm	A 36
SUMMARON (screw mount up to No. 1 423 140)	f/3.5	35mm	A 36
SUMMARON (screw mount from No. 1 423 141)	f/3.5	35mm	E 39
SUMMARON (bayonet mount)	f/3.5	35mm	E 39
NOCTILUX	f/1	50mm	E 58
NOCTILUX	f/1.2	50mm	8
SUMMILUX	f/1.4	50mm	E 43
SUMMARIT®	f/1.5	50mm	E 41
SUMMITAR	f/2	50mm	E 36.5
SUMMICRON	f/2	50mm	E 39
SUMMAR®	f/2	50mm	A 36
HEKTOR	f/2.5	50mm	A 36
ELMAR	f/2.8	50mm	E 39
ELMAR (screw mount)	f/3.5	50mm	A 36
ELMAR (bayonet mount)	f/3.5	50mm	E 39
ELMAR	f/3.5	65mm	E 41
ELMAR (Code No. 11 162)	f/3.5	65mm	6
SUMMAREX®	f/1.5	85mm	E 58
SUMMICRON	f/2	90mm	E 48
ELMARIT	f/2.8	90mm	E 39
TELE-ELMARIT	f/2.8	90mm	E 39
ELMAR	f/4	90mm	A 36
(screw mount, up to No. 1 573 001)			
ELMAR	f/4	90mm	E 39
(screw mount, from No. 1 573 000)			
ELMAR (bayonet mount)	f/4	90mm	E 39
HEKTOR	f/2.5	125mm	E 58
ELMAR	f/4.5	135mm	A 36
HEKTOR	f/4.5	135mm	A 36
(screw mount, up to No. 1 416 001)			
HEKTOR	f/4.5	135mm	E 39
(screw mount, from No. 1 416 000)			
HEKTOR (bayonet mount)	f/4.5	135mm	E 39
ELMAR	f/4	135mm	E 39
TELE-ELMAR	f/4	135mm	E 39
ELMARIT	f/2.8	135mm	7
TELYT	f/4	200mm	E 58
TELYT	f/4.5	200mm	E 48
TELYT	f/4.8	280mm	E 58
TELYT (Code No. 11 914)	f/4.8	280mm	8
TELYT	f/5	400mm	E 85
TELYT	f/6.8	400mm	7
			or 8
TELYT	f/5.6	400mm	7
TELYT	f/5.6	560mm	7
TELYT	f/6.8	560mm	7

### Dimensions of the LEITZ filter threads:

E 39	M 39 x 0.5	E 48	M 48 x 0.75
E 41	M 41 x 0.5	E 58	M 58 x 0.75
E 43	M 43 x 0.5	E 85	M 85 x 0.75



5510-12

14 031

**Lens caps**

for SUPER-ANGULON f/3.4 21mm, ELMARIT f/2.8 28mm, and NOCTILUX f/1.2 50mm (plastic) . . . . .	14 102
for NOCTILUX f/1 50mm (E 58) . . . . .	14 205
for 42mm external lens mount diameter (A 42) (chromium)	14 031
for 42mm external lens mount diameter (A 42) (black) . . . . .	14 122
for SUMMILUX 35mm (A 42) (plastic) (from Serial No. 2 166 701) . . . . .	14 143
for SUMMILUX 50mm (A 45) (chromium) . . . . .	14 036
for SUMMILUX 50mm* (A 45) (black) . . . . .	14 123
for ELMAR 65mm (A 56) (chromium) . . . . .	14 034
for ELMAR 65mm (A 56) (black) . . . . .	14 153
for SUMMICRON 90mm (A 63.7) (chromium) . . . . .	14 028
for ELMARIT 135mm and SUMMICRON 90mm (A 63.7) (black) . . . . .	14 124
for TELYT f/4 200mm (A 72) (black) . . . . .	14 044
for TELYT f/4.8 280mm (A 76) (black) . . . . .	14 079
for TELYT f/6.8 400mm (A 78) (black) . . . . .	14 152
for TELYT f/5.6 400mm and f/6.8 560mm (A 98) (black) . . . . .	14 140
for TELYT f/5.6 560mm (A 120) (black) . . . . .	14 141

**Rear covers for lenses**

4030

14 050



5529-12

14 051

for SUPER-ANGULON and ELMARIT 28mm with M-bayonet (plastic) . . . . .	14 042
for all other lenses, with M-bayonet (plastic) . . . . .	14 051
with screw mount . . . . .	14 050
for ELMAR 65mm (A 35) (plastic) . . . . .	14 074
for lens unit TELYT f/5.6 400mm and f/5.6 560mm (replacement) . . . . .	14 150



5514-12

14 195

**Camera body cover**

M-bayonet (plastic) . . . . .	14 195
ditto, for cameras with screw mount . . . . .	14 055

\* not included with the lens



**14 121**

26036 - 120

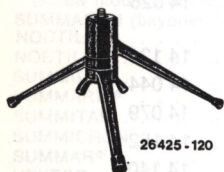


**14 119**

26008 - 120

**Large ball-and-socket head with 3/8" and 1/4" tripod threads combined . . . . . 14 121**

**Small ball-and-socket head with 1/4" tripod thread . . . . . 14 119**



**14 100**

26425 - 120

**Small table tripod with three folding legs, 1/4" tripod thread . . . . . 14 100**



26936

**14 092**



25785-120

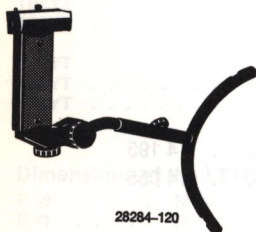
**14 130**

**Neck strap adjustable with split rings and non-slip pad for LEICA models up to M 4 . . . . . 14 092**

**Neck strap, with non-slip pad, adjustable, for LEICA M 5 (replacement) . . . . . 14 196**

**Neck strap for heavy equipment, with two tripod screws 1/4" thread . . . . . 14 130**

**Universal handgrip with shoulder stock, weight 0.61 kg . . . . . 14 188**



**14 188**

28284-120



**Bayonet adapter rings**

for the use of LEICA lenses with screw mount

**14 098**

5673-11

**on the LEICA M 3**

21 - 50mm focal length . . . . .	14 097
90mm focal length . . . . .	14 098
135mm focal length and VISOFLEX attachment I . . . . .	14 099

**on the LEICA M 5, M 4, M 2, MD, MDa and CL**

21mm, 28mm and 50mm focal length . . . . .	14 097
90mm focal length . . . . .	14 098
35mm, 135mm focal length and VISOFLEX attachment I . . . . .	14 099

**14 054**

5530 - 12

**15 526**

26434 - 120

**14 183**

27979-120

**Flash socket cover for M 3, M 2, M 1, MD**

(replacement) . . . . . 14 054

**Flash socket cover for M 4, MDa, M 4-2, MD-2 and MD-22**

(replacement) . . . . . 15 526

**Twin flash socket cover for M 5 and LEICAFLEX**

(replacement) . . . . . 14 183

**Cable releases****14 067**

5543 - 12

**Cable release, length 25cm, with arresting screw**

for LEICA-M . . . . . 14 067

**Cable release, length 50cm, with arresting screw**

for LEICA-M . . . . . 14 076

**14 088**

5508-12

**Adapter for the use of cable releases with captive thread**

on the LEICA with bayonet mount . . . . . 14 088



## Cassettes and spools

Code No.



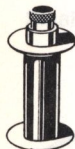
14 006



14 015

5538 - 12

All-metal cassette model N for all LEICA models (except M 5 and CL), with container . . . . .	14 006
Container (replacement) . . . . .	14 010
Replacement cassette spool . . . . .	14 015



14 022

5542 - 12

Spare take-up spool (with spring-loaded top) for M 3, M 2, M 1, MD, III g, I g . . . . .	14 022
ditto, for all other LEICA models (except M 4, M 4-2, M 5 and MDa) . . . . .	14 021
ditto, for LEICA M 5 . . . . .	14 192



14 260

26250a - 110

### Rapid film loading system for all LEICA M models

(except M 5, M 4 and MDa) can be installed by means of:

Rapid loading spool for all standard 35mm films on the market and for LEICA cassettes . . . . .	14 260
---	--------

### Eyesight correction lenses for LEICA-M models

Available only in the + and - values (please state when ordering) 0.5 - 1 - 1.5 - 2 - 3 - dioptries . . . . .	14 061
---	--------

We supply the suitable correction lens mounts for astigmatism through our Aftersales Service Department (Code No. 042-253.008). The lens should be made and mounted by an ophthalmic optician.

Correction lenses for the 4x magnifier of the VISOFLEX 3 spherical . . . . .	14 118
--	--------

**Holdall combination case**

External measurements: about 30 x 12.5 x 18.5cm

**14 815****25648-12****with insert I fitted for:**

1 = 1 LEICA M body

2 = 1 LEICA M body with LEICAMETER® and 35mm or 50mm lens or TELE-ELMARIT f/2.8 90mm in position with lens hood and covers.

3 = 3 filters E 39, E 41, E 43 or Series 6 in containers.

4 = 1 f/4 135mm lens with lens hood and covers.

5 = 1 21mm or 28mm lens with lens hood and covers.

6 = 1 f/2 90mm or f/2.8 135mm lens coupled with 1 35mm or 1 f/4 or f/2.8 90mm lens, each coupled with 1 lens of 35mm or 50mm focal length.

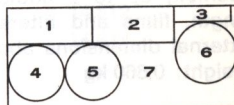
All lenses (except 35mm with finder attachment) with lens hood and covers.

7 = space for films or for additional filters in containers

Outfit I complete, Weight 1.455 kg . . . . . 14 807

Holdall combination case separate . . . . . 14 815

Universal case separate . . . . . 14 815

Coupling ring, Order No. 028-855.001-000 (replacement)  
(available from LEITZ After-Sales Service Dept.)

25644-120



14 823

27976-120

accepting:

1 LEICA M 5 and lens of up to 135mm focal length in position, up to 2 additional lenses depending on their length, films and filters

14 823

External dimensions about 21 x 11.5 x 19cm (8.4 x 4.6 x 7.6")

Weight: 0.660 kg

**Combination case for LEICA M 4-2**

External dimensions about 17 x 16 x 9cm

14 826

Weight: 0.500 kg



14 541

27587-120



29245-110



14 826

**Soft leather ever-ready case for the LEICA M 5 with all lenses of up to 50mm, with lens hood (except the 28mm and the NOCTILUX 50mm lens hood) and TELE-ELMARIT f/2.8 90mm without lens hood**

14 541

**Soft leather ever-ready case for LEICA M models (up to M 4) with all lenses of up to 50mm or collapsible ELMAR 90mm, each with lens hood (except 28mm and NOCTILUX 50mm lens hood) and exposure meter in position**

14 538

**Non-slip pad for carrying strap**  
(please state width and colour of strap)

14 094



**14 625**

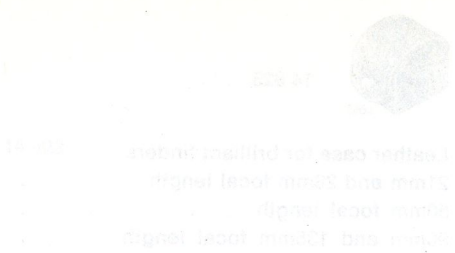
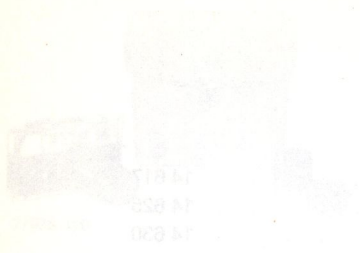
**Leather case for brilliant finders**

21mm and 28mm focal length . . . . .	<b>14 617</b>
50mm focal length . . . . .	<b>14 625</b>
90mm and 135mm focal length . . . . .	<b>14 630</b>

**Transparent plastic container (replacement) for filters**

Series 6 and E 39, E 41, and E 43 filters . . . . .	<b>14 612</b>
ditto, for E 48, E 58, Series 7 and 8 filters . . . . .	<b>14 614</b>





accepting.

Y.L.H.C.A. M. 3  
Position: 100  
Length: 100  
External: 100  
Weight: 100

Exchangeable plastic lens for Elmar  
Series I and II, F 1.8 and F 2.8 lens  
also for Elmar Series I and II lens

Combined - 100  
External - 100  
Weight - 100



Soft leather case for Elmar lens  
and its soft lens cap  
ELMAR Series I and II lens

Soft leather case for Elmar lens  
M 4 with soft lens cap  
20mm, 28mm, 35mm, 50mm, 75mm  
50mm lens cap  
Non slip  
Internal

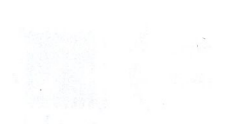
# LEICA near-focusing and copying devices



183x

183x

Copying gauge for A 4, A 5 and A 6. It consists of 2 extension coils and 4 extending legs for LEICA Elmar and Elmar-R lenses. It is used with ELMAR for 35mm rangefinder mount, ELMAR for 35mm SLR mount, ELMAR for 35mm SLR mount, ELMAR for 35mm SLR mount. Beyond mount it will be the last part of the SUMMORON lens. It is screwed into its mount (part 1830).



LEICA Elmar and Elmar-R lenses. It is used with ELMAR for 35mm rangefinder mount, ELMAR for 35mm SLR mount, ELMAR for 35mm SLR mount, ELMAR for 35mm SLR mount.

\* can be used on the LEICA Elmar only with SUMMORON for 35mm of ELMAR for 35mm lens only.

# LEICA

## near-focusing and copying devices

---



16 526

4059

Code No.

### Copying gauge for A 4, A 5 and A 6\*

consisting of 3 extension collars and 4 extending legs  
for LEICA M models

with ELMAR f/3.5 50mm bayonet mount,

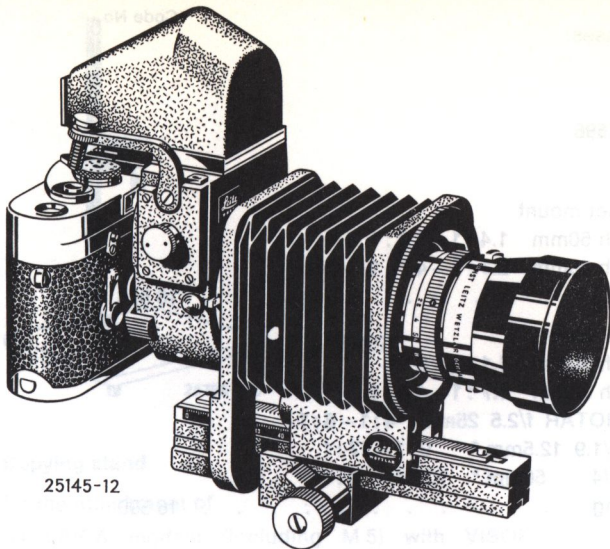
ELMAR f/2.8 50mm, SUMMICRON f/2 50mm . . . 16 526

Bayonet mount for use with the lens unit of the

SUMMICRON f/2 50mm unscrewed from its mount . . . 16 508

---

\* can be used on the LEICA CL but only with SUMMICRON f/2 50mm or ELMAR f/2.8 50mm lens units.



25145-12

## Focusing bellows 2

**Variable extension for continuous focusing** in conjunction with the VISOFLEX 3 mirror-reflex attachment.

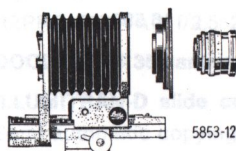
**Permits photographs within the range of  $\infty$  to 1:1** with the lens units of the ELMAR and ELMARIT 90mm and with the ELMAR 65mm.

**Additional adjustment** for reproduction at a given scale.

**Interchangeable upright and horizontal format.**

$\frac{3}{8}$ " and  $\frac{1}{4}$ " tripod threads.

Weight: 0.56 kg



5853-12

Code No.

**Focusing bellows 2 outfit for 65mm ELMAR ( $\infty$  to 1.4:1)**  
**and lens units of the 90mm ELMAR or ELMARIT ( $\infty$  to**  
**1:1) and for the 135mm TELE-ELMAR ( $\infty$  to 1:1.3) . . . 16 556**



**Accessories for lenses:**

5526-12

**16 596****Lenses with bayonet mount**

focal length 50mm 1.4 : 1 - 3.2 : 1

focal length 35mm 2.1 : 1 - 4.7 : 1

adapter ring . . . . . 16 596

**Lenses with screw mount**

focal length 50mm 1.1 : 1 - 3 : 1

focal length 35mm 1.7 : 1 - 4.3 : 1

REPRO-PHOTAR f/2.5 25mm 4 : 1 - 8 : 1

PHOTAR f/1.9 12.5mm \* 9 : 1 - 17 : 1

PHOTAR f/4 50mm \* 1.3 : 1 - 3 : 1

adapter ring . . . . . 16 590



5566-13

**17 672****Lens unit of the 50mm SUMMICRON (1.4 : 1 - 3.2 : 1)**

adapter ring . . . . . 16 590

+ adapter ring . . . . . 17 672



5850-11

**16 589****Lens unit of the 90mm SUMMICRON (1 : 9 - 1 : 1.2)****Lens unit of the 135mm ELMARIT (1 : 18.5 - 1 : 1.32)****Lens unit of the TELYT f/4 200mm ( $\infty$  to 1 : 3)****Lens unit of the TELYT f/4.8 280mm ( $\infty$  to 1 : 6)**

adapter ring . . . . . 16 598



26937-120

**16 558****Lens unit of the 135mm TELE-ELMAR ( $\infty$  to 1 : 1.3),****90mm ELMAR and ELMARIT ( $\infty$  to 1 : 1) and ELMAR****65mm ( $\infty$  to 1.4 : 1) (replacement)**

adapter ring . . . . . 16 558

\* Additional adapter ring (Order No. 042-716.041)

This adapter ring forms part of the REPRO-PHOTAR f/2.5 25mm and can be obtained as a replacement part from the After-Sales Service Department of LEITZ or the National Leitz Agency.



16 707

Code No.

**Copying stand**

for the attachment of

all LEICA models (including M 5) with VISOFLEX 3 with or without focusing bellows 2. LEICAFLEX with or without focusing bellows-R.

Consisting of:

46 x 50cm (18.4 x 20") baseboard, 80cm (32") column with guide rail and flange, carrying arm with coarse and fine adjustment . . . . . 16 707  
 Weight: 6.26 kg

**REPROVIT II a**

**Universal copying outfit** for the reproduction of flat originals or 3-dimensional objects.

Continuous setting of the reproduction scale from about 1 : 18 (about 420 x 594mm, [17 x 24in]), to same-size reproduction.

Framing box for book pages.

Light box.

REPRO-PHOTAR f/2.5 25mm.

**DOCUFLEX® 35 camera system or LEICA MDa** attachable.

**ILLUMITRAN-D slide copier\*.**

Semi-automatic copying device for slide formats of up to 9 x 12cm.

Reductions, enlargements, same-size copies.

Detailed description see Appendix:

Special Programme for Recording, Communication, Photography in Science and Technology.

\* Manufactured by Bowens, London.

Accessories for the...



18 702

Lenses with...

...with...

Lenses with...

...with...



Lenses with...

...with...



Lenses with...

...with...

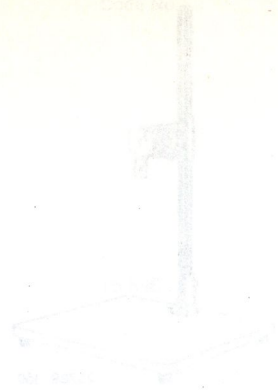
Lenses with...

...with...



Lenses with...

...with...



18 703

Accessories for the...

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Accessories for the...

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Accessories for the...

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... of the enlarger ...

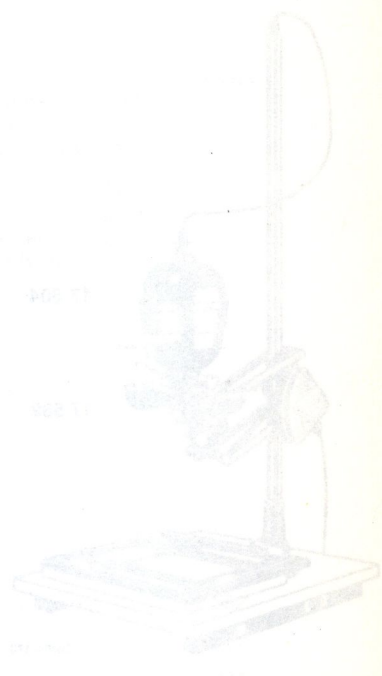
... of the enlarger ...

... of the enlarger ...

... of the enlarger ...

... of the enlarger ...

... of the enlarger ...



FOCOMATE 10  
Automatic focusing enlarger.

Automatic focusing range from 7 to 10 diameters with manual focusing up to approx 24 diameters with the enlarger column rotated through 180° up to 30 diameters, and with the use of the HPRD extension ring down to 3mm.

also copying.

50mm (2") column diameter.

Effortless adjustment of the image size with positive spring-loaded focus.

The enlarging ratio can be read off a scale at the side.

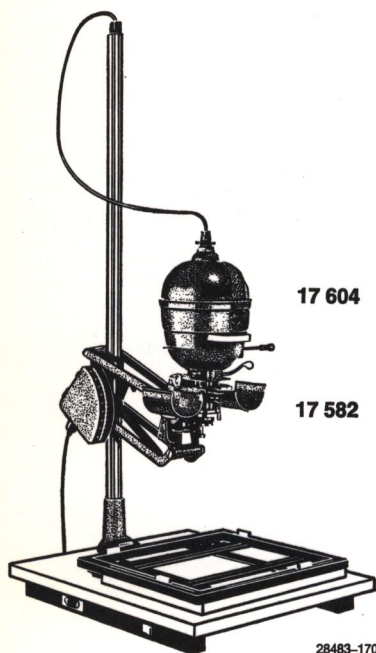
Hand grip for the vertical adjustment of the lamp house (when the spring-loaded hand grip is released the lamp house is retained in the vertical position).

Electrical safety certified.

Well ventilated lamp house with detachable top and carrying lamp holder for 150 W or 250 W enlarger lamp. Lever for the adjustment of the condenser.



# Enlargers



17 604

17 582

28483-170

## **FOCOMAT® 1c**

**Automatic focusing enlarger.**

**Automatic focusing range from 2 to 10 diameters;** with manual focusing up to approx. 24 diameters (with the enlarger column rotated through 180° up to 30 diameters), and with the aid of one REPRO extension ring down to same-size-copying.

**Solid 53.5x61.5cm (21.4x24.7") baseboard.**

**120cm (47") column, diameter 4cm.**

**Effortless adjustment of the image size with positive spring-tensioned lock.**

**The enlarging ratio can be read off a scale at the side.**

**Hand grip for the vertical adjustment of the lamp house** (when the spring-loaded hand grip is released the lamp house is arrested in the desired position).

**Electrical safety certified.**

**Well ventilated lamp house** with detachable top and centring lamp holder for 150W or 250W enlarger lamp. Lever for the adjustment of the condenser.

**Pressure plate with specially treated surface** available for the elimination of Newton's rings.

**Film trays on both sides.**

**Interchangeable film guides** from 8x11mm to 4x4cm (see p. 104).

**Screw lens mount takes 50mm LEICA lenses in screw mount or the 50mm FOCOTAR. Adapter rings for LEICA lenses in bayonet mount (except 50mm SUMMILUX and 50mm NOCTILUX).**

**The enlarger takes single-film carriers.**

**Swing-out red filter** for inspection of the image with the enlarging paper in position included in the basic outfit.

Weight: 17.65 kg

Code No.

**FOCOMAT Ic** with 53.5x61.5cm (21.4x24.7") plastic-covered baseboard. Rocker switch and mains cable with plug; 120cm (47") column, 4cm diameter; lamp house with 150 W lamp and hinged negative stage; vertically adjustable condenser; red filter in swivelling mount, negative stage with film trays on both sides and film guide for the 35mm format; screw thread for a 50mm LEICA lens\* or the special 50mm FOCOTAR enlarging lens. Ready for use, but without masking frame . . . . . 17 604



17 582

29184-170

- FOCOTAR®-2 f/4.5 50mm enlarging lens**  
with click stops . . . . . 17 582
- Filter drawer . . . . . 17 772
- Enlargement indicator . . . . . 17 773
- FOCOMAT Ic-COLOR, complete** . . . . . 17 609
- Dust cover for FOCOMAT Ic or Ic-COLOR** . . . . . 17 607

**Masking frames** see p. 106.

For colour enlarging we recommend the use of an automatic voltage stabilizer, made by and available from Zaehlerwerkstaetten K. Biesinger, D-6935 Hirschhorn/Neckar\*\*.

**Exposure timer**

can be used only in conjunction with this voltage stabilizer 17 804

**Mains cable (replacement)** . . . . . 37 656

\* The SUMMILUX and NOCTILUX 50mm lenses cannot be used.

\*\* Please state mains voltage on order.

# Accessories



Code No.

## Film guides

suitable also for VALOY® II, FOCOMAT I a

8 x 11mm . . . . .	17 514
13 x 17mm . . . . .	17 517
18 x 24mm . . . . .	17 516
24 x 24mm . . . . .	17 521
28 x 28mm . . . . .	17 642
24 x 36mm (replacement) . . . . .	17 526
3 x 4cm . . . . .	17 531
4 x 4cm (corners are cut by approx. 3mm) . . . . .	17 536

## Single-negative holders

also for the FOCOMAT I a and I and VALOY I and II

Double glass plate 3.5 x 12cm . . . . .	17 545
5 x 16cm . . . . .	17 565
Masks 24 x 24mm . . . . .	17 541
24 x 36mm . . . . .	17 540
3 x 4cm . . . . .	17 555
4 x 4cm . . . . .	17 560

## Adapter ring

also for VALOY II

for the use of the SUMMICRON 50mm lens unit . . . . . 17 672

Adapter ring for the use of the ELMAR and SUMMICRON  
50mm lenses, collapsible with bayonet mount . . . . . 17 671



17 652

## Anti-Newton-disc

with 3mm spacing ring for type N condenser . . . . . 17 652

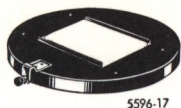
Type N condenser (replacement) also for FOCOMAT I a . . . . . 17 639

## Accessory for increasing the enlarging range

also for FOCOMAT I a, VALOY I, II

REPRO extension ring, for 1 : 1 . . . . . 16 615 \*

\* Available through "Special Programme" Sales Organization (see Appendix).



5596-17

17 775



5610-17

17 780

**Accessories for the AGFA colour head  
for the FOCOMAT I c-color and I a-color**

Adapter . . . . .	17 775 *
Additional condenser . . . . .	17 780

**For the use of the AGFA-VARIOMAT®**

40mm-diameter spacing ring . . . . .	17 631
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In addition the following colorheads can be adapted:

Chromega B Dichroic

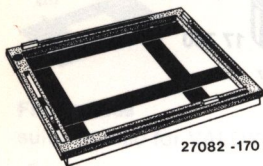
Wallner Colorhead

For more detailed information please contact the  
National LEITZ Agency.



**Masking frames**  
for all FOCOMAT models

Code No.



27082 -170

17 584

**24 x 30cm (10 x 12") universal masking frame with**  
4 adjustable masking strips, combined "feet-metre" scale 17 584 \*

**30 x 40cm masking frame, with adjustable masking strips**  
and adapter ring for the column for compensating the  
increased thickness of this frame . . . . . 17 586

**English system (inch):**

12 x 16" masking frame . . . . . 17 630

\* Available through "Special Programme" Sales Organization (see Appendix).

# Slide projectors



## PRODIGY-COA (100-2535)

Automatic slide projector projection without inserting data indicator, a single control system, 100-watt lamp and projection stage for 100-watt lamp without a base.

Projection of a slide up to 100-watt lamp.

Excellent optical system, the optical image up to 100-watt lamp. COA ORL/AN 12/20 mm and COA 12/20 mm and COA 12/20 mm.

Modern, rugged, convenient system.

Optimum cooling system, the lamp is cooled by a fan. The lamp is cooled by a fan. The lamp is cooled by a fan.

Minimum lens size up to 100-watt lamp.

For 20 and 30 mm slide, only for 100-watt lamp.

Perfect slide transport through optical fiber slide element of the slide. Automatic transport of the slide when an empty slide is in the optical path.

Ready access to the magazine.

Control of the slide stage on the projector, 100-watt lamp.

Remote control of the slide stage for 100-watt lamp.

Remote-controlled lamp, including lamp and magazine.

Automatic return of the projector lens to the slide of the magazine when on removal of the magazine.

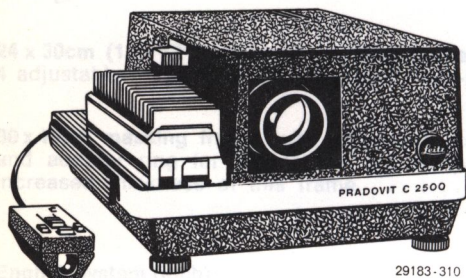
In the AUTODUC models a switch to manual focusing is possible via the remote control (indicated by symbol CA).

Light pointer (integral to the remote-control unit).

New automatic focusing device with silicon photo-elements, ensuring precise reaction, light intensity, light electric reading.

The AUTODUC mechanism has its own light source, this makes the automatic focusing mechanism independent of the lamp and control of the projector.

# Slide projectors



30 245

29183-310

## **PRADOVIT-C/CA 1500/2500**

Automatic 35mm projector for **projection without irritating dark interval, with a single optical system**. Transition from one projected image to the next **without a break**.

Certification as a teaching aid applied for.

**Excellent optical performance**, optimum image quality through LEITZ COLORPLAN f/2.5 90 mm and other LEITZ lenses from 35 to 300mm.

**Modern, aspherical condenser system.**

**Optimum cooling system** based on **two-channel blower**. Cooling action for the lamp separate from that for the slide gate.

Nominal formats of up to 40 x 40mm.

For 35 and 50mm lenses only up to 24 x 36mm.

**Perfect slide transport** through chromium-plated guide elements of the slide track. Automatic blackout of the slide gate when an empty slide claw is in the optical path.

Ready access to the magazine space.

**Control of the slide change on the projector** forward and reverse.

**Remote control of the slide change** forward and reverse.

**Remote-controlled power focusing** forward and reverse.

**Automatic return of the projector lens** to the middle of the focusing range on removal of the magazine.

**In the AUTOFOCUS models a switch-over to manual focusing is possible via the remote control (indicated by symbol CA).**

**Light pointer** integrated in the remote-control unit.

**New automatic focusing device with silicon photo-elements**, ensuring quicker reaction, high sensitivity, high electrical stability.

**The AUTOFOCUS mechanism** has its **own light source**. This makes the auto-focusing mechanism independent of the lamp adjustment of the projector.

## 6 basic variants of the projector.

**Mains connection** for 220 v or, with voltage selector, adjustable to 110/240 v 50-60 cycle.

## Automatic thermostatic cut-out.

Safety standard and interference suppression symbols.

**The projector includes:** 24 v/150 or 24 v/250 W tungsten halogen lamp, and one magazine for 36 slides.

**Lamp economy switch.** This **doubles** the life of the lamp.

## 8-pin socket for remote control.

**6-pin socket wired to DIN standards.** Possibility of connecting magnetic tape or slide control units.

**Attachable wireless remote control** on request.

Advertising projector version in preparation.

**Possibility of connecting control units.**

**Dimensions and weight:** length 334mm, width 268mm, height 166mm, weight according to model from 7.0 to 10.0 kg.



**PRADOVIT-C 1500, 220 v version / 50 cycle**

Code No.

complete with 24 v / 150 W tungsten halogen lamp,  
one magazine for 36 slides, without hood, with mains  
cable and remote control, with lens:

ELMARON®	f/2.8	35mm	. . . . .	30 210
ELMARON	f/2.8	50mm	. . . . .	30 211
ELMARON	f/2.8	85mm	. . . . .	30 212
<b>COLORPLAN®</b>	<b>f/2.5</b>	<b>90mm</b>	. . . . .	<b>30 213</b>
ELMARON	f/2.8	120mm	. . . . .	30 214
ELMARON	f/2.8	150mm	. . . . .	30 215
ELMARON	f/3.6	200mm	. . . . .	30 216
ELMARON	f/4	250mm	. . . . .	30 217

Body without: lens, focusing sleeve, interchangeable  
condenser, remote-control cable, mains cable . . . . . 30 200

Hood for lenses up to 120mm . . . . . 37 956

**PRADOVIT-C 1500, adjustable to 110-240 v / 50-60 cycle**

complete with 24 v / 150 W tungsten halogen lamp,  
one magazine for 36 slides, without hood, with mains  
cable and remote control, with lens:

ELMARON	f/2.8	35mm	. . . . .	30 218
ELMARON	f/2.8	50mm	. . . . .	30 219
ELMARON	f/2.8	85mm	. . . . .	30 220
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	. . . . .	<b>30 221</b>
ELMARON	f/2.8	120mm	. . . . .	30 222
ELMARON	f/2.8	150mm	. . . . .	30 223
ELMARON	f/3.6	200mm	. . . . .	30 224
ELMARON	f/4	250mm	. . . . .	30 225

Body without: lens, focusing sleeve, interchangeable  
condenser, remote-control cable, mains cable . . . . . 30 201

Hood for lenses up to 120mm . . . . . 37 956

**PRADOVIT-CA 1500, 220 v version / 50 cycle  
with automatic focusing**

complete with 24 v / 150 W tungsten halogen lamp,  
one magazine for 36 slides, without hood, with mains  
cable and remote control, with lens:

ELMARON	f/2.8	35mm	. . . . .	30 226
ELMARON	f/2.8	50mm	. . . . .	30 227
ELMARON	f/2.8	85mm	. . . . .	30 228
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	. . . . .	<b>30 229</b>
ELMARON	f/2.8	120mm	. . . . .	30 230
ELMARON	f/2.8	150mm	. . . . .	30 231
ELMARON	f/3.6	200mm	. . . . .	30 232
ELMARON	f/4	250mm	. . . . .	30 233

Body without: lens, focusing sleeve, interchangeable  
condenser, remote-control cable, mains cable . . . . . 30 202

Hood for lenses up to 120mm . . . . . 37 956

**PRADOVIT-CA 1500, adjustable to 110-240 v / 50-60 cycle  
with automatic focusing**

complete with 24v/150W tungsten halogen lamp,  
one magazine for 36 slides, without hood, with mains  
cable and remote control, with lens:

					Code No.
ELMARON	f/2.8	35mm	.	.	30 234
ELMARON	f/2.8	50mm	.	.	30 235
ELMARON	f/2.8	85mm	.	.	30 236
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	.	.	<b>30 237</b>
ELMARON	f/2.8	120mm	.	.	30 238
ELMARON	f/2.8	150mm	.	.	30 239
ELMARON	f/3.6	200mm	.	.	30 240
ELMARON	f/4	250mm	.	.	30 241

Body without: lens, focusing sleeve, interchangeable  
condenser, remote-control cable, mains cable . . . 30 203

Hood for lenses up to 120mm . . . . . 37 956

**PRADOVIT-C 2500, adjustable to 110-240 v / 50-60 cycle**

complete with 24v/250W tungsten halogen lamp,  
one magazine for 36 slides, without hood, with mains  
cable and remote control, with lens:

ELMARON	f/2.8	35mm	.	.	30 242
ELMARON	f/2.8	50mm	.	.	30 243
ELMARON	f/2.8	85mm	.	.	30 244
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	.	.	<b>30 245</b>
ELMARON	f/2.8	120mm	.	.	30 246
ELMARON	f/2.8	150mm	.	.	30 247
ELMARON	f/3.6	200mm	.	.	30 248
ELMARON	f/4	250mm	.	.	30 249

Body without: lens, focusing sleeve, interchangeable  
condenser, remote-control cable, mains cable . . . 30 204

Hood for lenses up to 120mm . . . . . 37 956

**PRADOVIT-CA 2500, adjustable to 110-240 v / 50-60 cycle  
with automatic focusing**

complete with 24v/250W tungsten halogen lamp,  
one magazine for 36 slides, without hood, with mains  
cable and remote control, with lens:

ELMARON	f/2.8	35mm	.	.	30 250
ELMARON	f/2.8	50mm	.	.	30 251
ELMARON	f/2.8	85mm	.	.	30 252
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	.	.	<b>30 253</b>
ELMARON	f/2.8	120mm	.	.	30 254
ELMARON	f/2.8	150mm	.	.	30 255
ELMARON	f/3.6	200mm	.	.	30 256
ELMARON	f/4	250mm	.	.	30 257

Body without: lens, focusing sleeve, interchangeable  
condenser, remote-control cable, mains cable . . . 30 205

Hood for lenses up to 120mm . . . . . 37 956

**Projector lenses and optical accessories**

ELMARON	f/2.8	35mm	<sup>1)</sup>	. . . . .	37 041
ELMARON	f/2.8	50mm	<sup>2)</sup>	. . . . .	37 008
ELMARON	f/2.8	60mm	<sup>3)</sup>	. . . . .	37 004
ELMARON	f/2.8	85mm		. . . . .	37 003
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	(dia. 42.5mm)	. . . . .	<b>37 005</b>
ELMARON	f/2.8	120mm		. . . . .	37 019
ELMARON	f/2.8	150mm		. . . . .	37 030
ELMARON	f/3.6	200mm		. . . . .	37 062
ELMARON	f/4	250mm		. . . . .	37 082
EPNOR	f/4.3	300mm		. . . . .	on request

**Focusing sleeves for focal lengths:**

35mm – 120mm (dia. 42.5mm)	. . . . .	37 119
150mm	. . . . .	37 121
200mm	. . . . .	37 129
250mm	. . . . .	37 130

**Interchangeable condensers (24 x 36):**

For 35mm to 50mm	. . . . .	37 223
For 60mm to 150mm	. . . . .	37 224
For 175mm to 300mm	. . . . .	37 225

**Interchangeable condensers (40 x 40):**

For 60mm to 120mm	. . . . .	37 227
For 150mm to 300mm	. . . . .	37 228

**Aspherical lens for 40 x 40** . . . . . 37 226

**Remote-control cable** (replacement), length 2m . . . . . 37 955

**Extension cable:** 8-pin for remote-control (10m) . . . . . 37 957

**Hood** for lenses of up to 120mm focal length . . . . . 37 956

<sup>1)</sup> Only up to 35mm format and 30-slide magazine.

<sup>2)</sup> Only up to 35mm format, not for 50-slide magazine.

<sup>3)</sup> Up to 40 x 40mm nominal format, not for 50-slide magazine.



**Mains cable** (replacement) . . . . . 37 644

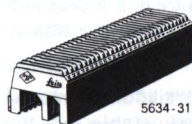
**Case** for PRADOVIT-C 1500/2500 and  
CA 1500/2500  
with lenses up to 250mm . . . . . 37 961

**Holder** for micro-attachments . . . . . 37 937

**Lamp** for the light pointer (replacement) . . . . . 37 740

**Daylight projection box**  
(in preparation) . . . . . 37 963

## Magazines



5634-31

**Transparent box** with two 36-slide magazines . . . . . 37 863

**Transparent box** with two 50slide magazines . . . . . 37 835

**Stacking box** with two 36-slide magazines . . . . . **37 844**

**Stacking box** with two 50-slide magazines . . . . . **37 855**

Replacement order of tungsten halogen lamps from your  
LEITZ agency.



# Important Sales Points for the PRADOVIT C

- 1. Instant image change** (about 0.4 secs.).
- 2. Elimination of the irritating dark interval.** Much reduced eyestrain during projection. Adaptation of the eye is no longer necessary. More slides can therefore be shown.
- 3. Prices comparable to the previous PRADOVIT COLOR range.**
- 4. Use of only one illuminating system and only one lens.**
- 5. Available for 24v/150w and 24v/250w lamp,** as well as adjustable to 110-240v AC.
- 6. The PRADOVIT C introduces a new era in projection** (psychological effect, as during viewing of a picture book).
- 7. Optimum projection with the 90mm LEITZ COLORPLAN f/2.8,** a top-quality projector lens. Lenses from 35 to 300mm, as well as projection attachments, are available.
- 8. New autofocus system** with separate light source and silicon elements. Quick, accurate, and electrically stable. Focusing adjustable on the remote-control unit for automatic and manual operation.
- 9. Remote control of all functions in the remote control unit;** built-in light pointer.
- 10. Safety precautions**

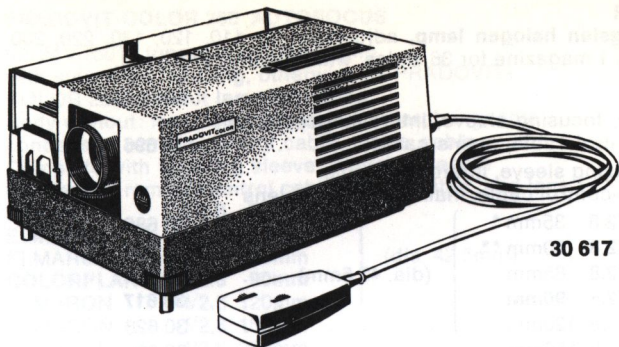
Thermostatic cut-out on overheating, for instance through accidental obstruction of the louvres.

Damage to slides is prevented by mechanical and electrical safety devices (safety switch) for slide claw and ejector.

High functional reliability through careful alignment of the slides during introduction into slide gate.

A positive stop determines the starting position on insertion of the magazine.

Reliable positioning of the magazine by a double catch. Even before the first slide is introduced and after the last slide has left the slide stage the magazine is held in position (important when the projector is inclined).



30 617

## **PRADOVIT®-COLOR**

(officially recognized school projector, with VDE test symbol)

**Fully automatic projector** for 5x5cm (2x2") slides (effective format up to 38x38mm with 35mm and 50mm lenses up to 24x36mm, AUTOFOCUS version: when the automatic mechanism is used 24 x 36mm to 38 x 38mm effective format) for 24 v 150 W or 24 v 250 W tungsten halogen lamp.

**Voltage selector** 110–240 v 50–60 Hz.

**Lamp economy switch.**

**Illuminated** on-off switch, lamp economy switch, magazine compartment number.

**Vertical adjustment.**

**Aspherical condenser system** with reflector.

**Most effective 2-path cooling system;** slide pre-warming.

**Remote-controlled forward and reverse slide change.**

**Automatic return of the projector lens** to the middle of the focusing range on removal of the magazine.

**Focusing remote-controlled** by separate motor, forward and reverse as well as continuous travel.

1 magazine accepting 36 slides, can also be inserted from the front.

Rapid slide change with automatic dark interval even when the transport arm moves from an empty magazine compartment.

Rapid single-slide projection or rearrangement of slides through easy access to the magazine chamber and raising of the slide transport arm.

**Built-in interval timer** for projection times adjustable between about 3 and 30 seconds per slide.

**A light pointer** can be connected to the remote-control cable as an accessory. Facility for connecting tape recorders (international contact system).

Accessory projector hood, suitable also as a miniature projection screen.

Accessory drive for adapting the instrument for continuous projection.

**Interchangeable lenses** from 35 to 250mm focal length.

**Projection device for slide change without dark interval** with 2 PRADOVIT-COLOR projectors.

**Attachable radio remote control** on request.

**Standing area** of all models 310 x 210mm. **Height:** PRADOVIT-COLOR and PRADOVIT-COLOR AUTOFOCUS 146mm; PRADOVIT-COLOR 250 and PRADOVIT-COLOR 250 AUTOFOCUS 170mm.

**Weight:** according to model from 7.0 to 10.5 kg.

**PRADOVIT-COLOR**

for 24 v 150 W tungsten halogen lamp, adjustable for 110, 120, 130, 220, 230, 240 v / 50-60 cycle, 1 magazine for 36 slides, **without** lamp and hood.

Code No.

Body without: lens, focusing sleeve, interchangeable condenser, remote-control cable, mains cable . . . . . 30 696

Complete with focusing sleeve, interchangeable condenser, remote-control cable, mains cable, and lens

ELMARON®	f/2.8	35mm *	} (dia. 42.5mm)	. . . . .	30 686
ELMARON	f/2.8	50mm **		. . . . .	30 656
ELMARON	f/2.8	85mm		. . . . .	30 646
<b>COLORPLAN®</b>	<b>f/2.5</b>	<b>90mm</b>		. . . . .	<b>30 617</b>
ELMARON	f/2.8	120mm		. . . . .	30 623
ELMARON	f/2.8	150mm		. . . . .	30 636
ELMARON	f/3.6	200mm	. . . . .	30 663	
ELMARON	f/4	250mm	. . . . .	30 673	

PRADOVIT-COLOR as advertising projector (continuous projection) see p. 117.

**PRADOVIT-COLOR-AUTOFOCUS**

for 24 v 150 W tungsten halogen lamp with automatic focusing, otherwise as PRADOVIT-COLOR, without lamp and hood.

Body without: lens, focusing sleeve, interchangeable condenser, remote-control cable, mains cable . . . . . 30 798

Complete with focusing sleeve, interchangeable condenser, remote-control cable, mains cable, and lens

ELMARON	f/2.8	35mm *	} (dia. 42.5mm)	. . . . .	30 788
ELMARON	f/2.8	50mm **		. . . . .	30 758
ELMARON	f/2.8	85mm		. . . . .	30 748
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>		. . . . .	<b>30 719</b>
ELMARON	f/2.8	120mm		. . . . .	30 720
ELMARON	f/2.8	150mm		. . . . .	30 738
ELMARON	f/3.6	200mm	. . . . .	30 769	
ELMARON	f/4	250mm	. . . . .	30 779	

PRADOVIT-COLOR-AUTOFOCUS as advertising projector (continuous projection) see p. 117.

**PRADOVIT-COLOR 250**

for 24 v 250 W tungsten halogen lamp otherwise as PRADOVIT-COLOR, without lamp and hood.

Body without: lens, focusing sleeve, interchangeable condenser, remote-control cable, mains cable . . . . . 30 695

Complete with focusing sleeve, interchangeable condenser, remote-control cable, mains cable, and lens

ELMARON	f/2.8	35mm *	} (dia. 42.5mm)	. . . . .	30 685
ELMARON	f/2.8	50mm **		. . . . .	30 655
ELMARON	f/2.8	85mm		. . . . .	30 645
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>		. . . . .	<b>30 618</b>
ELMARON	f/2.8	120mm		. . . . .	30 622
ELMARON	f/2.8	150mm		. . . . .	30 635
ELMARON	f/3.6	200mm	. . . . .	30 662	
ELMARON	f/4	250mm	. . . . .	30 672	

PRADOVIT-COLOR 250 as advertising projector (continuous projection) see p. 117.

\* Only up to 24 x 36mm format and 30-slide magazine.

\*\* Only up to 24 x 36mm format, not for 50-slide magazine.



**PRADOVIT-COLOR 250 AUTOFOCUS**

Code No.

for 24 v 250 W tungsten halogen lamp, with automatic focusing, otherwise as PRADOVIT-COLOR 250, without lamp and hood.

Body without: lens, focusing sleeve, interchangeable condenser, remote-control cable, mains cable . . . . . 30 694

Complete with focusing sleeve, interchangeable condenser, remote-control cable, mains cable, and lens

ELMARON	f/2.8	35mm *	} (dia. 42.5mm)	30 684
ELMARON	f/2.8	50mm **		30 654
ELMARON	f/2.8	85mm		30 644
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>		<b>30 613</b>
ELMARON	f/2.8	120mm		30 621
ELMARON	f/2.8	150mm		30 634
ELMARON	f/3.6	200mm		30 661
ELMARON	f/4	250mm		30 671

PRADOVIT-COLOR 250 AUTOFOCUS as advertising projector (continuous projection) see description below.

**LEITZ advertising projectors:**

**PRADOVIT-COLOR models equipped for continuous projection (advertising projectors)**

Additional price for built-in drive with 2 repeater plates in the PRADOVIT-COLOR and PRADOVIT-COLOR-AUTOFOCUS . . . . . 37 929

in the PRADOVIT-COLOR 250 and PRADOVIT-COLOR 250 AUTOFOCUS . . . . . 37 940

Installation in the factory possible at any time.

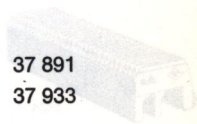
PRADOVIT COLOR with additional plug-in connection for lamp control (necessary for multi-projection setups and fading-in device; installation in newly ordered projectors only)

Additional cost . . . . . 37 944

PRADOVIT COLOR with mirror deflection for the 35mm ELMARON lens for the projection of 48 horizontal slides

Additional cost . . . . . 37 891

Repeater plate for continuous projection (replacement) . . . . . 37 933



**Accessories**

for all versions of the PRADOVIT-COLOR

**Hood** (for lenses of up to 120mm focal length) . . . . . 37 930



26927 - 310

**Light pointer for projection in the home** . . . . . 37 936

\* Only up to 24 x 36mm format and 30-slide magazine.  
 \*\* Only up to 24 x 36mm format, not for 50-slide magazine.



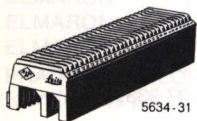
Carrying case for PRADOVIT-COLOR or PRADOVIT-COLOR-AUTOFOCUS and lens of up to 250mm focal length (including earlier models) . . . . .	37 952
Carrying case for PRADOVIT-COLOR 250 or PRADOVIT-COLOR 250 AUTOFOCUS and lens of up to 250mm focal length . . . . .	37 962
Extension cable for remote-control 5m (17ft) . . . . .	37 931
Extension cable for remote-control 15m (50ft) . . . . .	37 932
Holder for micro-attachments (see also p. 132 - 134) . . . . .	37 937
Accessory for showing filmstrips on request.	

<b>Multiple plug</b> for the simultaneous connection of tape recorder and remote-control cable to the PRADOVIT (above Serial No. 400 000), variants of the PRADOVIT COLOR, PRADOVIT RC, PRADOVIT R 150 and PRADOVIT COLOR 110 . . . . .	37 911
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#### Replacement accessories:

Lamp for the light pointer . . . . .	37 721
Remote-control cable 3m (10ft) for PRADOVIT-COLOR and PRADOVIT-COLOR 250 only . . . . .	37 934
Remote-control cable 3m (10ft) for PRADOVIT-COLOR AUTOFOCUS and PRADOVIT-COLOR 250 AUTOFOCUS only . . . . .	37 941
Mains cable . . . . .	37 656

#### Magazines



5634-31

Transparent box with two 36-slide magazines . . . . .	37 863
Transparent box with two 50-slide magazines . . . . .	37 835
<b>Stacking box</b> with two 36-slide magazines . . . . .	<b>37 844</b>
<b>Stacking box</b> with two 50-slide magazines . . . . .	<b>37 855</b>

Replacement order of tungsten halogen lamps from your LEITZ agency.

**Projector lenses and optical accessories**

ELMARON	f/2.8	35mm <sup>1)</sup>	} (dia. 42.5mm)	37 041
ELMARON	f/2.8	50mm <sup>2)</sup>		37 051
ELMARON	f/2.8	60mm <sup>3)</sup>		37 004
ELMARON	f/2.8	85mm		37 003
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>		<b>37 005</b>
ELMARON	f/2.8	120mm		37 019
ELMARON	f/2.8	150mm		37 030
ELMARON	f/3.6	200mm		37 062
ELMARON	f/4	250mm		37 082

**Focusing sleeves for focal lengths:**

35-120mm (dia. 42.5mm)	37 119
150mm	37 121
200mm	37 129
250mm	37 130

**Interchangeable condensers for focal lengths:**

35mm and 50mm	37 210
60-120mm	37 217
150mm-250mm	37 212

**Daylight projection box**

Suitable for use with all PRADOVIT-COLOR models for continuous projection of up to 48 slides (see Special Programme, Appendix).

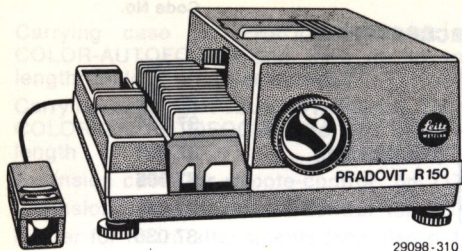
**Slide pre-selection (PRADOVIT SLIDE SELECTOR)**

Detailed specification see lists:

LEITZ Special Programme for Recording, Communication, Photography in Science and Technology.

**Fade-in devices by request.****Control equipment for multiple projection on request.****Accessories for PRADOVIT f, n 12, n 24 on request.**

<sup>1)</sup> Only up to 24 x 36mm format and 30-slide magazine.  
<sup>2)</sup> Only up to 24 x 36mm format, not for 50-slide magazine.  
<sup>3)</sup> Nominal format 40 x 40mm, not for 50-slide magazine.



30 563

29098-310

## **PRADOVIT® R 150**

### **Automatic standard-magazine projector.**

**Excellent optical performance**, exquisite definition and brilliance through **LEITZ-COLORPLAN f/2.5 90mm**, LEITZ lenses from 50 to 150mm.

**Light power and slide preservation**, modern condenser system for radiant slide illumination (aspherical system), highly effective heat filter, 24 v / 150 W tungsten halogen lamp, built-in transformer, economy switch, effective format up to 24x36mm, direct blower for optimum cooling of slide, lamp, and projector.

**Modern design-stylish projector**, easy to service owing to component group principle, impact-resistant high-quality plastics with textured surface (anthracite), pre-focusing of lamp, quiet running, on/off switch, safety standard and interference suppression symbols.

**Perfect slide transport**, chromium-plated slide track, rapid slide change, reliable claw (does not protrude beyond the projector body), automatic blackout both during slide change and when the instrument is switched on without simultaneous projection, projection also of glass-mounted slides.

### **Sophisticated operation:**

#### **Control panel inserted in the projector**

for magazine and slide transport forward and reverse and for focusing.

#### **The control panel can be detached as remote-control hand grip**

(with connecting cable, length 1.2m)

for magazine and slide transport forward and reverse and focusing, light pointer with built-in push-button.

**Removable slide stage** with continuous guide rail for single-slide projection or slide editing.

#### **Easy lamp change.**

Vertical adjustment up to about 6 %.

#### **3-point support with horizontal adjustment.**

Special bobbin in the bottom of the projector for winding the mains cable.

**Mains connection:** 2-core, standard mains cable (length 2.5m), 220-240 v mains voltage

or

second instrument version with voltage selector 110/240 v, 50-60 Hz (adjustable).

#### **6-pin socket wired to DIN standards.**

**Possibility of connecting** a separate remote-control cable (length 3m), with or without extension cable (see accessories), for magnetic-tape or slide control units, for radio remote-control (on request).

**The projector includes:** 24 v / 150 W tungsten halogen lamp, 36-slide magazine.

#### **Dimensions and weight:**

Length 280mm, width 262mm, height 133mm, weight 4.3 kg.



## 220 v version

**PRADOVIT R 150** with 24 v/150 W tungsten halogen lamp and lens

ELMARON®	f/2.8	50mm	. . . . .	30 561
ELMARON	f/2.8	85mm	. . . . .	30 562
<b>COLORPLAN®</b>	<b>f/2.5</b>	<b>90mm</b>	. . . . .	<b>30 563</b>
ELMARON	f/2.8	120mm	. . . . .	30 564
ELMARON	f/3.2	150mm	. . . . .	30 565

**Body** with condenser for 60mm to 150mm and 24 v/150 W tungsten halogen lamp . . . . . 30 560

**Body** with condenser for 50mm and 24 v/150 W tungsten halogen lamp . . . . . 30 569

**Adjustable 110–240 v version****PRADOVIT R 150** with 24 v/150 W tungsten halogen lamp and lens

ELMARON	f/2.8	50mm	. . . . .	30 571
ELMARON	f/2.8	85mm	. . . . .	30 572
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	. . . . .	<b>30 573</b>
ELMARON	f/2.8	120mm	. . . . .	30 574
ELMARON	f/3.2	150mm	. . . . .	30 575

**Body** with condenser for 60mm to 150mm and 24 v/150 W tungsten halogen lamp . . . . . 30 570

**Body** with condenser for 50mm and 24 v/150 W tungsten halogen lamp . . . . . 30 579

**Projector lenses separate**

ELMARON	f/2.8	50mm	. . . . .	37 008
ELMARON	f/2.8	85mm	. . . . .	37 003
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>	. . . . .	<b>37 005</b>
ELMARON	f/2.8	120mm	. . . . .	37 019
ELMARON	f/3.2	150mm	. . . . .	37 031

**Magazines** see under accessories PRADOVIT-C 1500/2500 (p. 118)

Lamp for the light pointer (replacement) . . . . . 37 737

Multiple plug for simultaneous connection of sound tape and separate remote-control cable . . . . . 37 911

Separate remote-control cable, length 3m, with light pointer . . . . . 37 953

Extension cable for remote-control, length 5m . . . . . 37 931

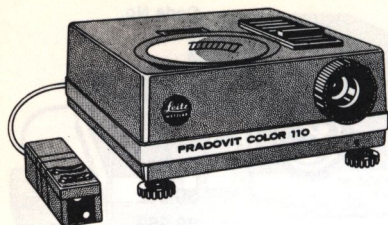
Condenser 85–150mm (replacement) . . . . . 37 222

Condenser 50mm (replacement) . . . . . 37 221

**Carrying case** for dust-free storage . . . . . 37 954

Replacement order of tungsten halogen lamps from your LEITZ agency.





30 900

## **PRADOVIT-COLOR 110**

### **Fully automatic slide projector for the pocket format**

External format of the slide frames 3x3cm (effective format 12x15.8mm).

#### **Body:**

Small dimensions, light weight; removable slide changer for single-slide projection and editing. Impact-resistant plastic top easily removable for lamp change. Vertical adjustment by means of 2 levelling screws. Automatic thermostatic cut-out. VDE and interference suppression-tested. Safety classification 2.

#### **Optical system:**

Lenses:

COLORPLAN 110 f/2.5 50mm (light flux 320Lm)

ELMARON 110 f/2.8 45mm (light flux 250Lm)

New 12v/75W halogen cold-light ellipsoid reflector lamp, about 50 hours' life.

Picture gate temperature below 70 °C. Automatic lamp centration.

No additional condenser system.

#### **Mains connection:**

2-wire appliance cable (length 2.5m); 220v or 110-240v voltage selector. On-off switch on the rear base of the projector.

#### **Remote control:**

Length 2m for forward and reverse slide transport as well as remote-controlled focusing; built-in light pointer. Standard socket for the connection of remote-control or tape recorder.

#### **Magazine:**

AGFA-LEITZ system compact magazine.

Novel, rotary magazine for 60 pocket slides. Integral construction for functional reliability and low price. Each slide is blocked by sprung lugs. Simple insertion, since the slide claw moves automatically into the starting position when the magazine chamber is opened, (hinged lid). The magazine can be inserted in and removed from the projector in any desired position. Return to the 0 position is not necessary. Slide change within 1.3 seconds. Safety coupling between drive and slide transport.

#### **Body dimensions:**

Standing area 223 x 243mm, height 102mm, weight 2.8 kg.

**PRADOVIT-COLOR 110 (220v)**

complete with mains cable, magazine, remote-control cable with light pointer, lens and lamp

COLORPLAN 110	f/2.5 50mm	. . . . .	30 900
ELMARON 110	f/2.8 45mm	. . . . .	30 901

**PRADOVIT-COLOR 110 (220v)**

Body with lamp but without remote-control cable and lens . . . . .

30 904

**PRADOVIT-COLOR 110 (adjustable 110-240v)**

complete with mains cable, magazine, remote-control cable with light pointer, lens and lamp

COLORPLAN 110	f/2.5 50mm	. . . . .	30 902
ELMARON 110	f/2.8 45mm	. . . . .	30 903

**PRADOVIT-COLOR 110 (adjustable 110-240v)**

Body with lamp but without remote-control cable and lens . . . . .

30 905

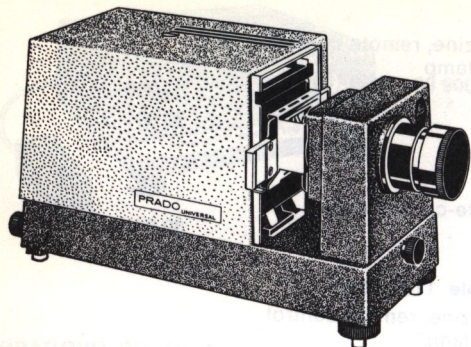
COLORPLAN 110	f/2.5 50mm, separate	. . . . .	37 006
ELMARON 110	f/2.8 45mm, separate	. . . . .	37 007

Remote-control cable with light pointer	. . . . .	37 949
12v/75W projector lamp	. . . . .	37 736
3v lamp for light pointer (replacement)	. . . . .	37 737
Compact magazine	. . . . .	37 948
Carrying case	. . . . .	37 950

Multiple plug for the simultaneous connection of tape recorder and remote-control cable	. . . . .	37 911
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Extension cable for remote-control 5m (17ft)	. . . . .	37 931
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Replacement order of tungsten halogen lamps from your Leitz agency.



## **PRADO-UNIVERSAL**

Officially recognized school projector, with VDE test symbol.

**Universally extensible slide projector** for 5x5cm (2x2") slides (nominal format up to 38 x 38mm, 35mm and 50mm lenses up to 24 x 36mm).

**Sturdy projector housing**, especially rigid 3-point support on 4-point base.

Simple vertical and horizontal adjustment.

**Glare-free reading light.**

**24v 250W tungsten halogen lamp**, long life and powerful light output; low slide gate temperature.

**Universal lamp centration.**

**Lamp economy switch.**

**Voltage selector** for 110–240v 50–60Hz.

**Automatic thermostatic cut-out.**

**Aspherical condenser system** with reflector.

**Highly efficient 2-path cooling system**, separately adjustable, additional direct action on the slide, highly effective **heat filter**.

**Interchangeable lenses of 35 to 300mm focal length** permit free choice of screen size and projection distance.

Attachment with 5 x 5cm (2 x 2") slide changer.

Mains cable.

**Possibilities of extension:** Rotating film strip guide, nominal format 24 x 36mm, with 18 x 24mm mask.

**6 x 6cm (2<sup>1</sup>/<sub>4</sub> x 2<sup>1</sup>/<sub>4</sub>" ) slide projection.**

**Micro-attachment A (horizontal).**

**Micro-attachment B (vertical).**

**Vertical attachment.**

**Standing area:** 320 x 150mm (11<sup>3</sup>/<sub>4</sub> x 6").

**Height:** 195mm (7<sup>3</sup>/<sub>4</sub>").

**Weight:** according to model from 7.7 to 10.8 kg.

Magazine changer on request.



**PRADO-UNIVERSAL (for 5 x 5cm (2 x 2") slides)**

Code No.

complete with 24v 250W lamp and lens

ELMARON	f/2.8	35mm	} (dia. 42.5mm)	31 618
ELMARON	f/2.8	50mm		31 643
<b>COLORPLAN</b>	<b>f/2.5</b>	<b>90mm</b>		<b>31 636</b>
ELMARON	f/2.8	120mm		31 637
ELMARON	f/2.8	150mm		31 622
ELMARON	f/3.6	200mm		31 638
HEKTOR	f/2.5	200mm		31 624
ELMARON	f/4	250mm		31 641
HEKTOR	f/2.8	250mm		31 626
HEKTOR	f/2.8	300mm		31 627

Longer focal lengths on request.

Projector body with lamp but **without**:

Lens, focusing sleeve, slide changer, interchangeable condenser, illuminating unit, filter, 35mm attachment, mains cable . . . . . 31 600

**Accessories for the PRADO-UNIVERSAL 5 x 5:**

Carrying case for the PRADO-UNIVERSAL and lenses except f/2.5 200, f/2.8 250 and 300mm . . . . . 37 942  
 24x36mm film strip holder and 18x24mm mask . . . . . 37 868  
 Heat filter 5x5, 5.5mm, replacement . . . . . 37 869  
 Mains cable (replacement) . . . . . 37 656

**PRADO-UNIVERSAL (for 6 x 6cm (2 1/4 x 2 1/4") and 7 x 7cm (2 3/4 x 2 3/4") slides, effective format 54 x 54mm)**

complete with 24v 250W lamp and lens

ELMARON	f/2.8	150mm	31 628
ELMARON	f/3.6	200mm	31 639
HEKTOR	f/2.5	200mm	31 630
ELMARON	f/4	250mm	31 642
HEKTOR	f/2.8	250mm	31 632
HEKTOR	f/2.8	300mm	31 633

Longer focal lengths on request.

Projector body with lamp but **without**:

Lens, focusing sleeve, slide changer, interchangeable condenser, illuminating unit with filter, attachment, mains cable, cover plate . . . . . 31 600

**Accessories for the PRADO-UNIVERSAL 6 x 6:**

Carrying case for PRADO-UNIVERSAL and 150mm lens 37 942  
 6 x 6 slide changer (external slide dimensions 6 x 6cm (2 1/4 x 2 1/4"), effective format 54 x 54mm) . . . . . 37 816  
 6 x 6 slide changer (external slide dimensions 5 x 5cm (2 x 2"), effective format up to 38 x 38mm) . . . . . 37 865  
 6 x 6 slide changer (external slide dimensions 7 x 7cm (2 3/4 x 2 3/4") (replacement), effective format 54 x 54mm) . . . . . 37 815  
 Mains cable (replacement) . . . . . 37 656

**Micro-attachments see p. 132 - 134.**

Replacement order of tungsten halogen lamps from your Leitz agency.



## 5 x 5 Attachment

1. For the adaptation of a PRADO-UNIVERSAL (6x6) for 5x5 (2x2") slides (additional 5x5 heat filter, Code No. 37 869 required; existing lenses of the PRADO-UNIVERSAL 6x6 can be used).
2. For the further extension of a PRADO-UNIVERSAL 5x5 (according to the breakdown below, lens, focusing sleeve, and interchangeable condenser are required depending on the nature of the outfit).

	5 x 5 attachment complete with lens (without heat filter)	consisting of:					Lens
		Attach- ment	Illumina- ting system	Inter- change- able condenser	Slide changer	Focusing sleeve	
Code No.	ELMARON f/2.8 35mm 37 873 (dia. 42.5mm)	32 402	37 872	37 216	37 849	37 119	37 041
Code No.	ELMARON f/2.8 50mm 37 964 (dia. 42.5mm)	32 402	37 872	37 216	37 849	37 119	37 008
Code No.	COLORPLAN f/2.5 90mm 37 892 (dia. 42.5mm)	32 402	37 872	37 218	37 849	37 119	37 005
Code No.	ELMARON f/2.8 120mm 37 894 (dia. 42.5mm)	32 402	37 872	37 218	37 849	37 119	37 019
Code No.	ELMARON f/2.8 150mm 37 877	32 402	37 872	37 214	37 849	37 121	37 030
Code No.	ELMARON f/3.6 200mm 37 896	32 402	37 872	37 214	37 849	37 129	37 062
Code No.	HEKTOR f/2.5 200mm 37 879	32 402	37 872	37 214	37 849	37 125	37 079
Code No.	ELMARON f/4 250mm 37 895	32 402	37 872	37 214	37 849	37 130	37 082
Code No.	HEKTOR f/2.8 250mm 37 881	32 402	37 872	37 214	37 849	37 126	37 098
Code No.	HEKTOR f/2.8 300mm 37 882	32 402	37 872	37 214	37 849	37 127	37 093

## 6 x 6 Attachment

1. For the adaptation of a PRADO-UNIVERSAL 5 x 5 for 6 x 6 (2 1/4 x 2 1/4") slides (existing lenses of the PRADO-UNIVERSAL 5 x 5 from 150mm focal length onwards can be used).
2. For the further extension of a PRADO-UNIVERSAL 6 x 6 (according to the breakdown below, lens, focusing sleeve, and attachment with condenser are required depending on the nature of the outfit).

6 x 6 attachment complete with lens		consisting of:					
		Attach- ment with condenser	Cover- plate	Illumina- ting system with filter	Slide- changer	Focusing sleeve	Lens
Code No.	ELMARON f/2.8 150mm 37 883	32 311	37 867	37 871	37 815	37 186	37 030
Code No.	ELMARON f/3.6 200mm 37 897	32 310	37 867	37 871	37 815	37 132	37 062
Code No.	HEKTOR f/2.5 200mm 37 885	32 310	37 867	37 871	37 815	37 189	37 079
Code No.	ELMARON f/4 250mm 37 898	32 310	37 867	37 871	37 815	37 131	37 082
Code No.	HEKTOR f/2.8 250mm 37 887	32 310	37 867	37 871	37 815	37 191	37 098
Code No.	HEKTOR f/2.8 300mm 37 888	32 310	37 867	37 871	37 815	37 192	37 093

**Accessories for PRADO 250/500 and PRADO 66/500 on request.**

1. The location of the proposed project is shown on the map attached to this application. The project is located on the east side of the city of [City Name], within the [City Name] Planning Area. The project is located on the east side of the city of [City Name], within the [City Name] Planning Area. The project is located on the east side of the city of [City Name], within the [City Name] Planning Area.

Parcel ID	Area (Acres)	Owner	Address	City	County	State	Zip
100-100-001	1.00	John Doe	100 Main St	Springfield	Illinois	USA	62701
100-100-002	1.00	Jane Smith	200 Main St	Springfield	Illinois	USA	62701
100-100-003	1.00	Bob Johnson	300 Main St	Springfield	Illinois	USA	62701
100-100-004	1.00	Alice Brown	400 Main St	Springfield	Illinois	USA	62701
100-100-005	1.00	Charlie White	500 Main St	Springfield	Illinois	USA	62701
100-100-006	1.00	Diana Black	600 Main St	Springfield	Illinois	USA	62701
100-100-007	1.00	Frank Green	700 Main St	Springfield	Illinois	USA	62701
100-100-008	1.00	Grace King	800 Main St	Springfield	Illinois	USA	62701
100-100-009	1.00	Henry Lee	900 Main St	Springfield	Illinois	USA	62701
100-100-010	1.00	Ivy Miller	1000 Main St	Springfield	Illinois	USA	62701

City of [City Name], Planning Department, 100 Main St, Springfield, IL 62701

Code No. [Code]

Code No. [Code]

Code No. [Code]

# Episcopes

## Micro-attachments



LE 19 / LE 19 B Episcopes

Body:

Smooth design, sturdy for mounting heavy-duty

Coating:

Powerful lamps:

LE 19 episcopes with 100W/110W metal halide lamps

LE 19 B episcopes with 100W/110W metal halide lamps

Spotless image brightness:

LE 19 episcopes with 100W/110W metal halide lamps

LE 19 B episcopes with 100W/110W metal halide lamps

Object field:

18 x 18cm in projection

Movable slide for originals

As accessory for the unit projection episcopes, it provides the need for refocusing

Minimum projection distance:

2.5m or 80cm extra stage width

Optical equipment:

EP 19 1/4 400mm high performance lens

Sharp image margins:

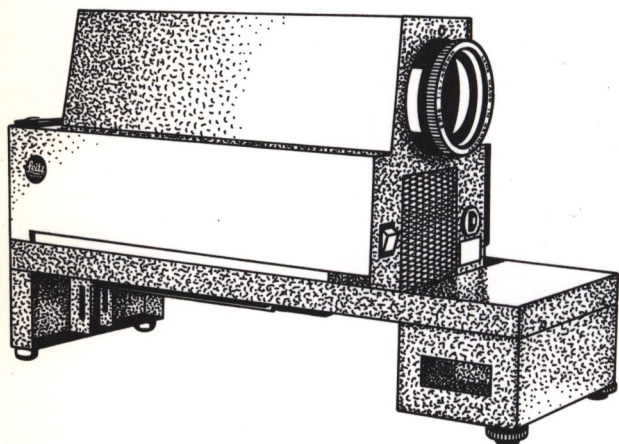
The projected image is undistorted by marginal flare



# Episcopes

## Micro-attachments

---



33 331

29047-330

### **LE 19 / LE 19 S Episcopes**

#### **Body:**

Smooth design, sturdy, for prolonged heavy-duty use.

#### **Cooling:**

Powerful transverse blower.

#### **Powerful lamps:**

LE 19 episcopes with 800W tungsten halogen lamp.

LE 19 S episcopes with 1000 W HPI/TD metal-vapour halogen lamp.

#### **Screen image brightness:**

LE 19 episcopes with f/4 400mm lens and 800W tungsten halogen lamp:  
about 30 effective Lm.

LE 19 S episcopes with f/4 400mm lens and 1000 W metal-vapour halogen lamp:  
about 120 effective Lm.

#### **Object field:**

16 x 19cm in horizontal format.

#### **Movable slide for originals:**

As accessory for the part-projection of originals of up to A4 effective format;  
it obviates the need for refocusing.

#### **Minimum projection distance:**

2.5m at 80cm screen image width.

#### **Optical equipment:**

EPIS f/4 400mm high-performance lens.

#### **Sharp image margins:**

The projected image is undisturbed by marginal flare.

**Raised projection:**

Up to 10° raised projection possible. Provision on the instrument for the vertical alignment of the projected image with the projection screen; lateral inclination can also be compensated.

**Easy to carry:**

The episcope has two carrying handles. For transport the mains cable can be stored in a special space provided.

**Easy maintenance:**

After the hood has been opened all parts are readily accessible.

**Dimensions:**

LE 19:	Length 710mm, width 265mm, height 435mm	} overall
LE 19 S:	Length 790mm, width 265mm, height 435mm	

**LE 19 episcope**

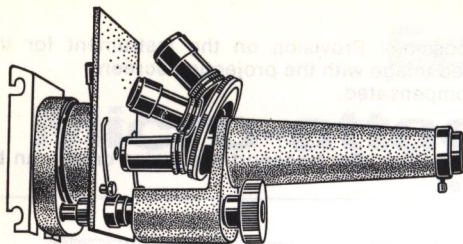
Code No.

With EPIS f/4 400mm (for 220v only), weight: 19.0 kg	33 330
800W/220v halogen lamp	37 724
Slide for originals	37 490
Transparent dust cover	37 492
Sturdy carrying case	37 415

**LE 19 S episcope**

with EPIS f/4 400mm (for 220v only), weight: 25.0 kg	33 331
1000W/220v metal-vapour discharge lamp	37 735
Slide for originals	37 490
Transparent dust cover	37 492
Switch element (must be changed together with the lamp)	37 951

27578-310



### Micro-attachment A

For the projection of microscopic specimens at magnifications of up to 1400 x on the screen.

Simple rotation of the revolving nosepiece ensures the reproduction of the microscopic image at 3\* graduated magnifications, starting with low power.

Consisting of: Code No.

Microscope carrier complete with:

4 x projection eyepiece (37 301), quadruple revolving nosepiece with 4/0.12, 10/0.25, and 25/0.50 objectives, each with anti-glare protection, 1 screw cover, large object stage with 2 stage clips, diaphragm slide, adjustable condenser . . . . . 32 823

Attachment (rotating holder) . . . . . 32 850

**Micro-attachment A complete . . . . . 32 820**

#### Required

for PRADO UNIVERSAL: cover plate . . . . . 37 867

for PRADOVIT COLOR: holder for micro-attachments . 37 937

Additional items available:

4 x projection eyepiece . . . . . 37 301

2 x projection eyepiece . . . . . 37 300

Projection prism for the tracing of the microscopic image on the bench, adjustable . . . . . 37 889

Micro cell for liquids, depth of chamber 1mm . . . . . 37 850

ditto depth of chamber 2mm . . . . . 37 857

ditto depth of chamber 3mm . . . . . 37 858

ditto depth of chamber 4mm . . . . . 37 859

#### Required for conversion to Micro-attachment B:

Mirror housing with fixtures . . . . . 32 824

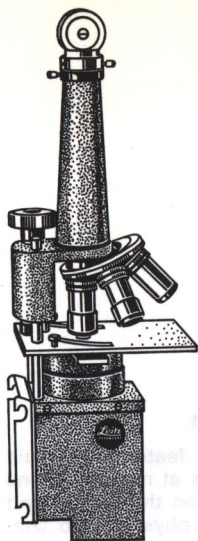
Projection prism . . . . . 37 889

PRADO UNIVERSAL outfit (5 x 5) for micro-attachments A + B or projection attachment (consisting of: 31 600, 37 656, 37 872, 37 869) . . . . . 31 635

For the use of the micro-attachments and the projection attachment on the PRADO UNIVERSAL (6 x 6) the 5 x 5 illuminating system, Code No. 37 872 and the heat filter, Code No. 37 869 are required.

\* A fourth objective can be attached if desired.





27579-310

**Micro-attachment B**

for the projection of liquid or melting objects at magnifications of up to 1400x on the screen.

Simple rotation of the revolving nose-piece ensures the reproduction of the microscopic image at 3\* graduated magnifications, starting with low power.

Consisting of: Code No.

Microscope carrier complete with:	
4x projection eyepiece (37 301), quadruple revolving nosepiece with 4/0.12, 10/0.25, 25/0.50 objectives each with anti-glare projection, 1 screw cover, large object stage with 2 stage clips, diaphragm slide, adjustable condenser	32 823
Mirror housing with fixtures	32 824
Projection prism	37 889

**Micro-attachment B complete** **32 821**

**Required**

For PRADO UNIVERSAL: cover plate	37 867
For PRADOVIT COLOR: holder for micro-attachments	37 937

Additional items available:

4x projection eyepiece	37 301
2x projection eyepiece	37 300

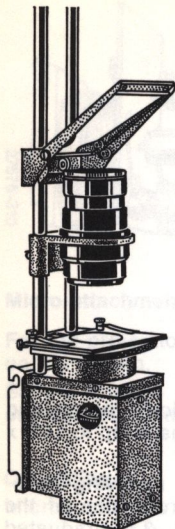
**Required for conversion to Micro-attachment A:**

Attachment (rotating holder) with fixtures	32 850
PRADO UNIVERSAL outfit (5 x 5) for micro-attachments A + B or projection attachment (consisting of: 31 600, 37 656, 37 872, 37 869)	31 635

For the use of the micro-attachments and the projection attachment on the PRADO UNIVERSAL (6 x 6) the 5 x 5 illuminating system, Code No. 37 872 and the heat filter, Code No. 37 869 are required.

\* A fourth objective can be attached if desired.





27580-310

### Projection attachment

For showing general features of liquid or melting specimens at magnifications of up to about 120x on the screen and for the projection of physical and chemical experiments.

Consisting of:

Code No.

Front attachment C with:

Mirror housing with long rails and deflecting mirror, object stage with 2 stage clips, lens carrier (without lens, focusing sleeve, interchangeable condenser) . 32 825

### Required:

For PRADO-UNIVERSAL: cover plate . . . . . 37 867

For PRADOVIT COLOR: holder for micro-attachments . 37 937

Choice of lenses:

ELMARON f/2.8 50mm (object field diameter 34mm) . 37 008

Focusing sleeve for same . . . . . 37 119

Interchangeable condenser for same . . . . . 37 206

COLORPLAN f/2.5 90mm (object field diameter 40mm) . 37 005

Focusing sleeve for same . . . . . 37 119

Interchangeable condenser for same . . . . . 37 200

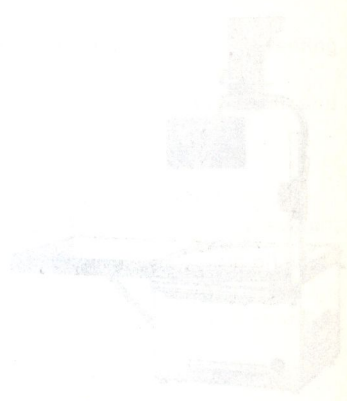
PRADO-UNIVERSAL outfit (5x5) for the projection attachment or for the micro-attachments A + B (consisting of 31 600, 37 656, 37 872, 37 869) . . . . . 31 635

For the use of the projection attachment and the micro-attachments on the PRADO-UNIVERSAL (6x6) the 5x5 illuminating system, Code No. 37 872, and the heat filter Code No. 37 869 are required.

### Polarizing attachment for 35mm projectors

In the version as polarized-light projector birefringence and polarizing phenomena can be demonstrated in the orthoscopic and conoscopic beam (see list 310-8).

# Overhead projector



## DESCRIPTION OF THE

Universal daylight overhead and dimen-

stion projector is a

Rigid 4-post stand

Projector is mounted on a base and

Control panel is located on the front

Projector lens is located at the top

35mm SCHOTT projector lens

for projection of 35mm slides

Raised projector lens for 35mm

30mm SCHOTT projector lens

for projection of 30mm slides

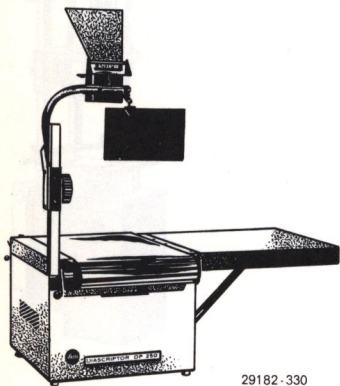
Raised projector lens for 30mm

25mm SCHOTT projector lens

for projection of 25mm slides

Raised projector lens for 25mm

# Overhead projector



33 808

29182-330

## DIASCRIPTOR OP 250

**Universal daylight overhead and demonstration projector** (conforms to official safety standards and regulations on technical aids, interference suppression).

Sturdy metal body.

**Rigid 4-point support** with one levelling foot.

Hinged top with retractable locating pins for foils and transparencies.

Object field 252x252mm; impact-resistant hard-glass plate free from colour cast.

**Fresnel lens** in two versions (clear Fresnel lens, glare-free Fresnel lens).

### 355mm SCRIPTAR projector lens

for projection distances from 1.3 to 15.0m.  
Raised-projection angle about 19.5°.

### 340mm SCRIPTAR projector lens

for projection distances from 1.1 to 10.0m.  
Raised-projection angle about 36°.

### 300mm SCRIPTAR projector lens

for projection distances from 0.8 to 4.5m.  
Raised-projection angle about 27°.

### 285mm SCRIPTAR projector lens

for projection distances from 0.8 to 10.0m.  
Raised-projection angle about 35°.

Image sizes from 0.8x0.8m to 4x4m can be obtained with the various lenses.

**Excellent optical performance.**

**24 v / 250 W tungsten halogen lamp**, mean life 50 operating hours.

Instrument fuse 2 amp (T-2A).

**Lamp economy switch**, trebling the life of the lamp (more than 150 operating hours).

**Entire condenser system vertically adjustable from outside for optimum illumination** and sharpness from corner to corner of the image.

**Condenser system consisting** of lamp, cold-light reflector, meniscus collecting lens and Fresnel lens.

**Quietly-running tangential blower** for the cooling of the condenser system and working top.

**Immediate start of the blower** when the lamp is switched on.

**Triple rocker switch** for on/off, lamp economy switch, and full power.

**Warning light** lights up when the instrument is switched on "full lamp power".

**Safety switch to VDE standards**, automatically switches the instrument off when the housing is raised.

**Automatic thermostatic cut-out** switches off the instrument in the event of over-heating.

Two carrying handles are built into the projector housing **for transport**.

**Mains connection 220 v / 50 cycle.**

The mains cable, **length 5m**, in signal colours is permanently connected to the instrument.

**Standing area 360 x 350mm.**

**Weight:** DIASCRIPTOR OP 250: 12.9 kg

Foil scroll device: 1.0 kg

**Possibilities of extension:**

Foil scroll device for transparent foils of 15, 30, or 50m length.

Can be rotated through 90° for horizontal and vertical scroll movement.

360x350mm shelf attachment, adaptable on either the left or the right hand side.

Grey screen as protection against glare.

Accessory case for foils, demonstration material and writing implements.

Dust cover for the instrument which is ready for operation.



**DIASRIPTOR OP 250**

Code No.

complete with SCRIPTAR 355mm, clear Fresnel lens, mains cable and lamp . . . . .	33 806
Ditto with SCRIPTAR 285mm . . . . .	33 807
Ditto with SCRIPTAR 340mm . . . . .	33 808
Ditto with SCRIPTAR 300mm . . . . .	33 809

**DIASRIPTOR OP 250**

Complete with SCRIPTAR 355mm, glare-free Fresnel lens, mains cable and lamp . . . . .	33 810
Ditto with SCRIPTAR 285mm . . . . .	33 814
Ditto with SCRIPTAR 340mm . . . . .	33 815
Ditto with SCRIPTAR 300mm . . . . .	33 816

**Accessories for the OP 250**

Anti-glare protection . . . . .	33 834
Transparent dust cover . . . . .	33 835
Accessory case . . . . .	33 836
Foil scroll device . . . . .	33 846
Reel for same . . . . .	33 821

## Transparent foils (for use with 33 846 and 33 821)

15m scroll on cardboard reel . . . . .	33 822
30m scroll on cardboard reel . . . . .	33 823
50m scroll on cardboard reel . . . . .	33 824

25 sheet foils (in sliding box) . . . . .	33 831
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Shelf attachment . . . . .	33 833
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Replacement order of tungsten halogen lamps from your  
Leitz agency.

# Binoculars

OPTIONAL 852

Also for the binoculars...  
...with 8x50 objective lenses...  
...with 8x50 objective lenses...



## TRINOVIS

Binoculars for the general top class.

Novel design based on the disposition of 3 convex lenses in the objective group.

Large field of view for 8x50 objective lenses, angle of view 72° at 1000 m, 81° at 500 m, 85° at 250 m, 88° at 100 m, 90° at 50 m, 92° at 25 m, 94° at 10 m, 96° at 5 m, 98° at 2.5 m, 100° at 1 m.

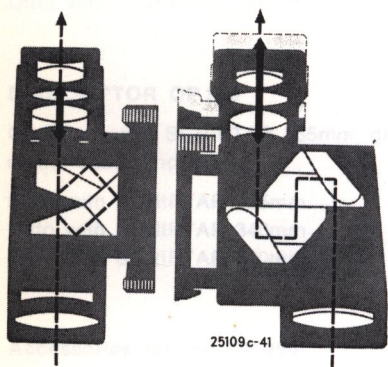
This internal focusing with individual objective adjustment.

Theoretical magnification 8x, actual magnification 7.5x, and 7x at 1000 m.

Stylized form, light weight, and long life.

Light weight for a binocular of this class.

# Binoculars



Comparison of optical paths

Left: LEITZ TRINOVID

Right: Conventional  
binoculars with  
Porro prisms

## TRINOVID®

Binoculars in the international top class.

**Novel design** based on the combination of 3 cemented prisms, 1 of them a penta prism.

**Large-field eyepieces** for  $60^\circ$  subjective angle of view in the 8 x 32 B,  $63^\circ$  in the 10 x 40 B, for  $60^\circ$  in the 7 x 35 B,  $56^\circ$  in the 7 x 42 B, and  $59^\circ$  in the 8 x 40 B model.

**True internal focusing** with individual eyepiece adjustment.

Therefore dust- and spray-waterproof, weather and shock resistant.

Stylish form, can be conveniently carried in the pocket.

Light weight for strain-free observation.



25301-41

### 7 x 35 B TRINOVID

High-power binoculars with roll-back eyecups for spectacle wearers, particularly suitable for hunters.

- Magnification: 7 x
- Objective diameter: 35mm
- Diameter of exit pupil: 5mm
- Twilight factor: 15.6
- Light transmitting power: 25
- Field of view:
  - 150m at 1000m distance, 8.6°
- Focusing range to about 5m (17ft)
- Dimensions:
  - height approx. 133mm (5¼")
  - width approx. 117mm (4½")
- Weight: 0.550 kg

### 7 x 35 B TRINOVID

	Code No.
with carrying strap . . . . .	40 215
Flat, hard-leather case with carrying strap . . . . .	42 175
Soft-leather ever-ready case . . . . .	42 185



### 7 x 42 B TRINOVID

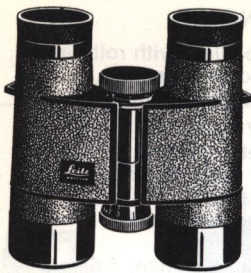
Night glass with large exit pupil, roll-back eyecups for spectacle wearers, particularly suitable for hunting and sailing

- Magnification: 7 x
- Objective diameter: 42mm
- Diameter of exit pupil: 6mm
- Twilight factor: 17.2
- Light transmitting power: 36
- Field of view:
  - 140m at 1000m distance, 8°
- Focusing range to about 8.5m (about 28ft)
- Dimensions:
  - height approx. 167mm (6¾")
  - width approx. 125mm (5")
- Weight: 0.650 kg

### 7 x 42 B TRINOVID

	Code No.
with carrying strap . . . . .	40 218
Flat, hard-leather case with carrying strap . . . . .	42 173
Soft-leather ever-ready case . . . . .	42 189





6360-410

### 8 x 32 B TRINOVID

Universal binoculars with roll-back eyecups for spectacle wearers.

Magnification: 8 x  
 Objective diameter: 32mm  
 Diameter of exit pupil: 4mm  
 Twilight factor: 16  
 Light transmitting power: 16  
 Field of view:  
     130m at 1000m distance, 7.4°  
 Focusing range to about 6m (20ft)  
 Dimensions:  
     height approx. 117mm (4<sup>5</sup>/<sub>8</sub>"")  
     width approx. 115mm (4<sup>1</sup>/<sub>2</sub>"")  
 Weight: 0.520 kg

### 8 x 32 TRINOVID

Code No.

with carrying strap . . . . .	40 208
Flat, hard-leather case with carrying strap . . . . .	42 176
Soft-leather ever-ready case . . . . .	42 181



26432-410

### 8 x 40 B TRINOVID

Powerful binoculars with roll-back eyecups for spectacle wearers, especially suitable for hunting and sailing

Magnification: 8 x  
 Objective diameter: 40mm  
 Diameter of exit pupil: 5mm  
 Twilight factor: 17.9  
 Light transmitting power: 25  
 Field of view:  
     128m at 1000m distance, 7.3°  
 Focusing range to about 7.2m (24ft)  
 Dimensions:  
     height approx. 150mm (6")  
     width approx. 124mm (5")  
 Weight: 0.590 kg

### 8 x 40 B TRINOVID

Code No.

with carrying strap . . . . .	40 221
Flat, hard-leather case, with carrying strap . . . . .	42 174
Soft-leather ever-ready case . . . . .	42 179



6375-410

### 10 x 40 B TRINOVID

High-power binoculars with roll-back eyecups for spectacle wearers.

- Magnification: 10 x
- Objective diameter: 40mm
- Diameter of exit pupil: 4mm
- Twilight factor: 20
- Light transmitting power: 16
- Field of view:
  - 110m at 1000m distance, 6.3°
- Focusing range to about 9m (30ft)
- Dimensions:
  - height approx. 143mm (5<sup>5</sup>/<sub>8</sub>" )
  - width approx. 122mm (4<sup>3</sup>/<sub>4</sub>" )
- Weight: 0.590 kg

### 10 x 40 B TRINOVID

Code No.

with carrying strap . . . . .	40 228
Flat, hard-leather case with carrying strap . . . . .	42 177
Soft-leather ever-ready case . . . . .	42 185

### Accessories for TRINOVID binoculars

Roll-back eyecup (replacement) for all TRINOVID B glasses . . . . .	42 133
Roll-back eyecup (replacement) for TRINOVID 8 x 32 and 10 x 40 . . . . .	42 134
Carrying strap (replacement), adjustable for TRINOVID binoculars with eyelets . . . . .	42 147
Non-slip pad for strap (please state width and colour of strap) . . . . .	14 094
Rubber rain guard . . . . .	42 101



29107-410

**8 x 20 C TRINOVID®**

Compact binoculars of high optical performance

- Magnification: 8x
- Objective diameter: 20mm
- Diameter of exit pupil: 2.5mm
- Twilight factor: 12.65
- Field of view:  
120m at 1000m distance, 6.9°
- Focusing range to about 2.5m
- Dimensions (folded):

height 89mm  
width 58mm  
depth 33mm

Weight: 0.185 kg

Code No.

<b>8 x 20 C TRINOVID</b> . . . . .	40 300
Soft case for same . . . . .	42 192



29108-410

**10 x 22 C TRINOVID®**

High-power compact binoculars

- Magnification: 10x
- Objective diameter: 22mm
- Diameter of exit pupil: 2.2mm
- Twilight factor: 14.83
- Field of view:  
95m at 1000m distance, 5.4°
- Focusing range to about 3.5m
- Dimensions (folded):

height 107mm  
width 58mm  
depth 33mm

Weight: 0.210 kg

Code No.

<b>10 x 20 C TRINOVID</b> . . . . .	40 301
Soft case for same . . . . .	42 193

# **Important Sales Points for TRINOVID**

- 1.** No repairs (quota far below 1 %).
- 2.** Impact – and blow-resistant (sturdy casing – solid internal mechanism).
- 3.** Protected against dust and moisture (first manufacturer of a genuine internal focusing drive).
- 4.** Lightweight and small volume (new structural design).
- 5.** Strict quality selection of the optical and mechanical massproduced components.
- 6.** No headache after prolonged use, caused, for instance, by convergence of optical axis, minor lack of adjustment and magnification differences.
- 7.** Great brightness and high contrast through highly-refracting glasses.
- 8.** Quick location of the object through largefield eyepieces.
- 9.** Full field of view also for spectacle wearers through high-quality eyepieces.



# Important Sales Points for

## TRINOVIS

1. No need for post-curing
2. Impact strength comparable to other

3. Excellent electrical and mechanical properties
4. Excellent resistance to chemicals and solvents

5. Excellent resistance to heat and light
6. Excellent resistance to aging and weathering

7. Excellent resistance to impact and abrasion
8. Excellent resistance to staining and discoloration

9. Excellent resistance to mold and mildew
10. Excellent resistance to fire and flame

11. Excellent resistance to UV radiation
12. Excellent resistance to ozone

13. Excellent resistance to acid and alkali
14. Excellent resistance to salt and salt crystals

15. Excellent resistance to water and moisture
16. Excellent resistance to humidity

17. Excellent resistance to dust and dirt
18. Excellent resistance to fingerprints

19. Excellent resistance to scratches and scuffs
20. Excellent resistance to abrasion

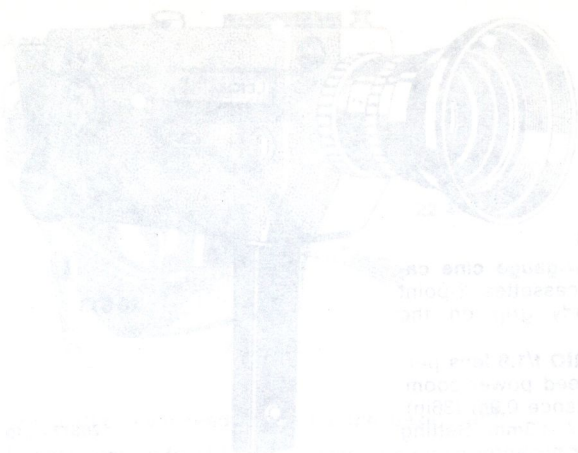
21. Excellent resistance to impact
22. Excellent resistance to shock

23. Excellent resistance to vibration
24. Excellent resistance to noise

# LEICINA SUPER 8

Leica Camera AG, Wetzlar, Germany

1965



## LEICINA SUPER 8

Fully electronic narrow-gauge cine camera for Super 8. Features 2.8mm support and built-in viewfinder and camera.

8-84mm LEICINA VARIO VARIO zoom lens. Minimum focusing distance 0.25m. Smallest object field 1.7mm. 1/1000 sec. shutter for focal length of 8mm. 1/1000 sec. shutter for focal length of 84mm.

Through-the-lens light metering. Fully automatic electronic control with built-in light electronic control by photo resistor. A special 2.8mm lens for film speeds between 16 and 320 ASA (ISO).

Control system: the electronic system by a 44-88 sec. shutter speed. Flicker-free light meter for accurate exposure. Light metering system consisting of a central, electronically positioned split-image sensor. Located by means of a central, electronically positioned split-image sensor. Located by means of a central, electronically positioned split-image sensor. Located by means of a central, electronically positioned split-image sensor.

Electric film transport, powered by 5 midsize batteries of 1.5 each. Running speeds 8, 18, 25 and 34 f.p.s. Single-frame operation with exposure control. Any duration. Glow mode for shutter control.

Release button in the hand grip. Additional release on the camera body with electronic facility.

Battery meter. Detachable battery housing. Built-in conversion filter.

Single-frame counter and 1/1000 sec. exposure. Automatic switch-off of the camera at the end of the film.

Magnetic release operated by 0.1 sec. switching on and off. 9-pin socket for remote release. External audio, syncro-pulses for standard sound system. 1/1000 sec. frame of 1/1000 sec. per frame. 1/1000 sec. per frame. 1/1000 sec. per frame.

Facility for automatic loading out and in. Automatic in-focus device with facility for multiple exposures. 1/1000 sec. per frame. 1/1000 sec. per frame. 1/1000 sec. per frame.

Accessory holder. Lens stop set on the camera. Control window for manual lens. Hinged hand-grip. Carrying loop. V<sub>2</sub> tripod thread.

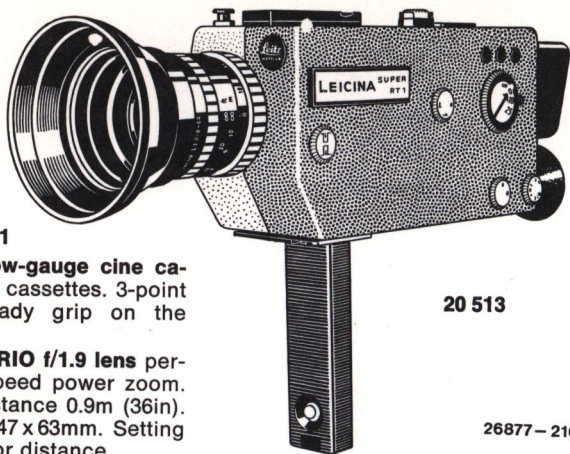
Gold-plated electrical contacts ensure freedom from corrosion, reliability of function, and long life.

Dimensions: Height 102 mm (4 in); Width 77 mm (3 in); Length 120 mm (4 3/4 in).

Weight: 1.44 kg.

\* Kodak 4X film cannot be used. \*\* Copy-printing to 35 mm on request.

# LEICINA® SUPER-8



20 513

26877 - 210

## LEICINA® SUPER RT 1

**Fully electronic narrow-gauge cine camera** for Super-8 film cassettes. 3-point support ensures steady grip on the camera.

**8-64mm LEICINA-VARIO f/1.9 lens** permanently built-in. 2-speed power zoom. Minimum focusing distance 0.9m (36in). Smallest object field 47 x 63mm. Setting lever for focal length or distance.

**Through-the-lens light metering.** Fully automatic diaphragm control with new integrated-circuit electronics, controlled by photo resistor. Automatic adjustment for film speeds between 15 and 27 DIN (25-400 ASA) \*.

Correction facility of the automatic adjustment by +2, +1, -0.5, and -1 lens stops.

**Flicker-free, bright reflex finder** for parallax-free, focal-length-adjusted observation. Focusing by means of a central, diagonally positioned **split-image rangefinder**.

Diaphragm indication with signal for "too little light" and "diaphragm completely closed" in the viewfinder. Colour-coded film reserve indicator. Warning signal for tripod use (from 22mm focal length upwards). Spectacle wearer's eyepiece, adjustment range  $\pm 2$  dioptres.

**Electric film transport\*\*** powered by 5 midget batteries of 1.5v each. Running speeds **9, 18, 25, and 54 f.p.s.** Single-frame operation with exposure times of any duration, glow diode for shutter control.

**Release button in the hand grip.** Additional release on the camera body, with clamping facility.

**Battery tester.**

**Detachable battery housing.**

**Built-in conversion filter.**

**Single-frame counter** for up to 80 frames.

**Automatic switch-off** of the camera **at the end of the film.**

**Magnetic release** eliminates rattling during switching on and off.

**9-pin socket for remote release, external supply, synchro-impulse** for standard sound system (1 impulse per 4 frames or 1 impulse per frame), **flash impulse and start of the sound tape.**

**Facility for automatic fading out and in.**

**Automatic lap-dissolve device** with facility for double exposure.

Accessory holder.

**Lens stop set on the camera can be immobilized.**

**Control window for inserted film.**

**Hinged hand-grip.**

**Carrying loop.**

**1/4" tripod thread.**

**Gold-plated electrical contacts** ensure freedom from corrosion, reliability of function, and long life.

**Dimensions:** Height 102mm (4.1in), Width 71.5mm (2.7in), Length 290mm (11.6in).

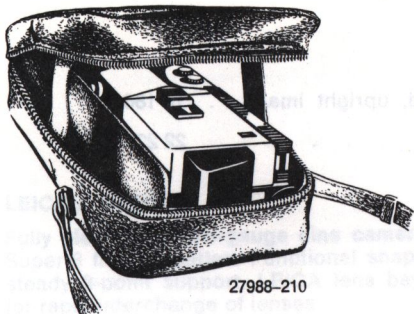
**Weight:** 1.44 kg.

\* Kodak 4 X film cannot be used.

\*\* Cold-proofing to  $-30^{\circ}\text{C}$  on request.

**LEICINA SUPER RT 1**

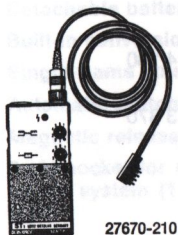
with LEICINA-VARIO f/1.9 8-64mm lens (Series 7 filters)  
 (without midjet batteries) . . . . . 20 513

**Accessories**

22 444

27988-210

- |  |        |
|--|--------|
| Soft-leather ever-ready case for the basic outfit . . . . .  | 22 444 |
| Supplementary front lens for close-ups down to 0.4m (16")<br>focusing distance (smallest object field 17 x 22mm) . . . . . | 22 003 |
| Leather case for same . . . . .  | 14 553 |
| Cable release, length 50cm, with arresting screw . . . . .   | 14 076 |
| Housing for 5 midjet batteries (replacement) . . . . .   | 22 224 |
| Two-part lens hood, accepting Series 7 filters<br>(replacement) . . . . .  | 22 222 |



22 227

27670-210

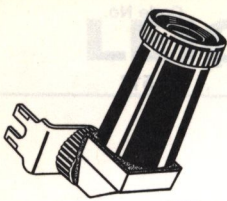
**ST 1 electronic control unit**

for continuous regulation of time-lapse shots (from 3 f.p.s. to 1 frame per 6 min, and scene durations from 0.2 to 10 sec), remote release, lip-sync. sound filming (socket for connecting a tape recorder for the transmission of the synchro-impulses - 1000 Hz generator built-in - and automatic tape start and stop), external power supply, and electronic-flash synchronization . . . . . 22 226

Cable connection between 9-pin socket on the camera and the control unit . . . . . 22 225

**ST 1 electronic control unit, complete** . . . . . 22 227

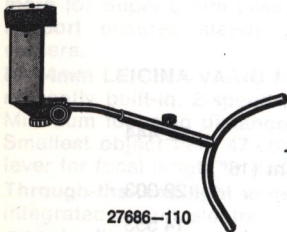




14 186

27206-111

- 90° angle viewfinder, right-way-round, upright image . . . . . 14 186**  
**Adapter for angle viewfinder . . . . . 22 221**

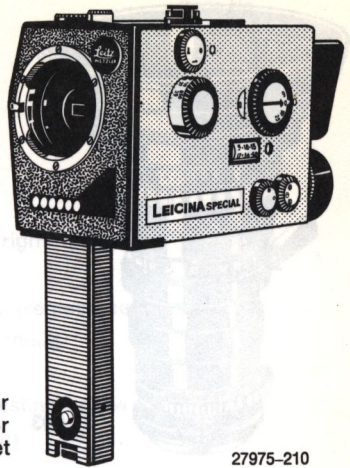


14 188

27686-110

- Universal handgrip with shoulder stock for filming without support in conjunction with longer focal lengths . . . . . 14 188**  
**Cable release for universal handgrip with shoulder stock . . . . . 22 219**  
**Special long carrying strap, for LEICINA only . . . . . 22 445**  
**Universal handgrip complete . . . . . 22 229**
- 
- Carrying strap with anti-slip pad, for heavy equipment, with two tripod screws, 1/4" thread . . . . . 14 130**  
**Circularly polarizing filter, series 7 . . . . . 13 370**

20 512



27975-210

## LEICINA SPECIAL

**Fully electric narrow-gauge cine camera** for Super-8 film cassettes. Functional shape for steady 3-point support. LEICA lens bayonet for rapid interchange of lenses.

**Semi-automatic light metering through the lens** (follow pointer). Adjustment for film speeds within the range between 10 and 1000 ASA (11 and 31 DIN). Manual correction facility over the entire film speed setting range.

**Flicker-free, bright reflex finder** for parallax-free, focal-length-adjusted observation. Focusing either by means of a central, diagonally positioned split-image rangefinder, microprism screen, or aerial image with crosslines. Film reserve indicator. Spectacle wearers' eyepiece, adjustable through  $\pm 3$  dioptres.

**Electric film transport** powered by 5 midget batteries of 1.5v each. Running speeds T, 1, 9, 18, 25, and 54 f.p.s. Single-frame operation with exposure times of any duration, glow diode for shutter control.

**Release button in the hand grip.** Additional release on the top of the camera body, with clamping facility, and connection for cable release.

**Battery tester.**

**Detachable battery housing.**

**Built-in conversion filter.**

**Single-frame counter** for up to 80 frames.

**Automatic switch-off of the camera at the end of the film.**

**Magnetic release** eliminates rattling during switching on and off.

**9-pin socket for remote release, external supply, synchro-impulse for standard sound system (1 impulse per 4 frames), flash impulse and start of the sound tape.**

**Facility for fading out and in.**

**Automatic lap-dissolve device with facility for double exposure** (only in connection with the diaphragm setting motor of the OPTIVARON lens).

**Control window for inserted film.**

**Hinged hand grip.**

**Carrying loop.**

$\frac{1}{4}$ " and  $\frac{3}{8}$ " tripod thread.

Freedom from corrosion.

**Reliability of function and long life ensured by gold-plated electrical contacts.**

**Dimensions:** Height 102mm (4.2in), Width 83.5mm (3.3in), Length 160mm (6.2in).

**Weight:** 0,96 kg.

**LEICINA SPECIAL**

Code No.

Camera body (without lens and without midget batteries) 20 512



21 003

27983-210

**OPTIVARON® f/1.8 6-66mm**

Zoom lens with 11 x zoom range

Angle of view: 58.4–6.3°

Number of elements: 15

Filter size: 8.5 L

Smallest aperture f/16, for lap dissolves the aperture can be completely closed.

Combined "feet-metre" scale

Focusing range: ∞–1.5m (5ft)

At "M" setting = macro zoom:

∞ up to the front lens

Smallest object field: 29 x 22mm

Lens hood

Black finish

Thread in the lens:

46.5 x 36 Gg.

Thread in the two-part lens hood:

54.5 x 36 Gg.

Weight: 0.645 kg

Code No.

**OPTIVARON f/1.8 6-66mm**

With lens hood . . . . . 21 003

**LEICINAMATIC**

Device for automatic exposure control and power zoom in conjunction with the OPTIVARON f/1.8 6-66mm for the LEICINA SPECIAL.

Automatic exposure control can be disconnected.

Push-button for the rapid opening of the diaphragm (important with focusing). After release of the push-button the correct exposure time for the scene to be filmed will be automatically set.

Power zoom continuously adjustable for zooming rates between 1.5 and 6sec across the entire zoom range

Weight: 0.11 kg . . . . . 22 200

OPTIVARON f/1.8 6-66mm including LEICINAMATIC automatic device, complete . . . . . 21 004



27688-210

21 002

**MACRO-CINEGON® f/1.8 10mm**

Standard lens of fixed focal length, with very long focusing range

Angle of view: 38.8°

Number of elements: 7

Filter size: 5.5

Smallest aperture: f/22, the aperture can be completely closed for lap dissolves

Combined "feet-metre" scale

Focusing range: ∞–0.12m (4.8in)

Smallest object field: 36 x 27mm

Non-rotating focusing mount

Lens hood

Black finish

Internal thread: M 39 x 0.75

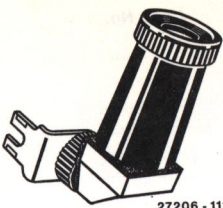
Weight: 0.260 kg

Code No.

**MACRO-CINEGON f/1.8 10mm**

in container with lens hood . . . . . 21 002





14 186

27206 - 111

<b>90° angle viewfinder</b> , right-way-round upright image . . . . .	14 186
Holder for angle viewfinder . . . . .	22 221
Lens hood for the OPTIVARON f/1.8 6-66mm (replacement)	22 215
Lens hood for the MACRO-CINEGON f/1.8 10mm (replacement) . . . . .	22 214
Cable release, length 50cm (20in) with arresting screw . . . . .	14 076
Housing for midget batteries (replacement) . . . . .	22 224
<b>Universal hand grip</b> with shoulder stock . . . . .	14 188
Special long carrying strap, for LEICINA only . . . . .	22 445
Cable release for the universal hand grip . . . . .	22 219
<b>Universal hand grip complete</b> . . . . .	<u>22 229</u>
Carrying strap with anti-slip pad, for heavy equipment, with two tripod screws, 1/4" thread . . . . .	14 130



22 227

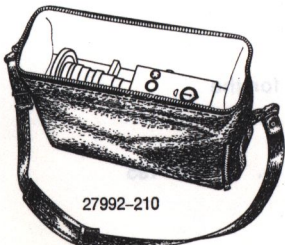
27670-210



14 188

27686-110

<b>ST 1 electronic control unit</b> (description p. 149) . . . . .	22 226
Connecting cable for same . . . . .	22 225
<b>ST 1 electronic control unit complete</b> . . . . .	<u>22 227</u>
Short carrying strap (replacement) . . . . .	22 234



22 443

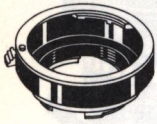
27992-210

Carrier bag, genuine leather, for LEICINA SPECIAL body,  
OPTIVARON lens, ST 1 control unit and further accessories 22 443



**Required for the adaptation of other lenses:**

For LEICA M lenses: no adapter required; they can be directly attached



**22 228**

27987-210

For LEICAFLEX lenses:

Adapter **22 228**

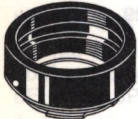


**22 230**

27985-210

For lenses with Arri-M-bayonet:

Adapter **22 230**

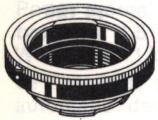


**22 232**

27986-210

For lenses with M 42 x 1 - M connection:

Adapter **22 232**



**22 233**

27984-210

For MINOLTA lenses:

Adapter **22 233**

Additionally required for the use of LEICA lenses with screw thread:

Bayonet adapters:

14 097, 14 098, or 14 099

Required for the use of VISOFLEX lenses (except for the universal focusing mount 16 462) (without VISOFLEX attachment):









Adapter . . . . . **543 195**



# Tables

## Miscellaneous

### Flash setting values

	LEICA up to No. 360 000		LEICA from No. 360 001		LEICA I f, II f, III f	
	time	contact number	time	black contact number	time	red contact number
 <b>XM 1</b> <b>PF 1</b>	1/20 1/30	14 13	1/15-1/20 1/30	9 16	1/15 1/25 1/50	2 5 10
 <b>PF 5</b>	1/20-1/30 1/40	14 11	1/15-1/30 1/40	16 11	1/15 1/25 1/50 1/75	2 14 11 5
 <b>AG 1</b> <b>AG 3</b> and flash cubes	1/20 1/30 1/40 1/60	10 12 8 5	1/15-1/20 1/30 1/40 1/60	8 11 8 5	1/15 1/25 1/50 1/75	2 9 8 3
 <b>GE 5</b> <b>25</b>	1/20-1/30 1/40 1/60 1/100	14 11 9 7	1/15-1/30 1/40 1/60 1/100 1/200	16 11 8 5.5 4	1/15 1/25 1/50 1/75 1/100 1/200 1/500	2 14 11 6 4 2 1
 <b>M 3</b>	1/20 1/30 1/40 1/60	14 13 12 10	1/15-1/20 1/30 1/40 1/60	9 15 11 8	1/15 1/25 1/50 1/75	2 7 10 6
 <b>All</b>	T, 1→1/8 B	6 9	B, T 1→1/10	6	B, T 1→1/10	2
 electronic flash	1/30 T, 1→1/20 B	0 4 6.5	1/30 T, 1→1/20 B	2 2 6	1/50 T, 1→1/25 B	20 0 2

LEICA		M 3 up to No. 854 000		I g, III g	
Electronic flash		⚡	B → 1/50	B	red ⚡ (= 1/30) ⚡ (= 1/50)
Flash Lamps	AG 1 AG 3 flash cubes M 2 OFC 4	⚡	B → 1/25	B	red ⚡ (= 1/30)
	XM 1 PF 1	💡	B → 1/50	B	B → 1/60*
	PF 5	💡	B → 1/100	B	B → 1/60*
	GE 5 25	💡	B → 1/500	B	B → 1/500*
	M 3	💡	B → 1/100	B	B → 1/125*

For T, 1-1/16 set the high-speed dial at ⚡ - (next to 30-1).

LEICA		MD, MDa, M 1, M 2, M 3, M 4 from No. 854 001	
Electronic flash		⚡	B → ⚡ (= 1/50)
Flash Lamps	AG 1 AG 3 flash cubes M 2 OFC 4	⚡	B → 1/30
	XM 1 PF 1	💡	B → 1/60
	PF 5	💡	B → 1/60
	M 3	💡	B → 1/125
	GE 5 25	💡	B → 1/500

\* Except the red or black arrow setting

⚡ = contact bush for electronic flash  
💡 = contact bush for flashbulbs

LEICA		M 5	
Electronic flash		X	B → ● (= 1/50)
Flash Lamps	AG 1 AG 3 flash cubes M 2	X	B → 1/30
	XM 1 PF 1 XM 5 PF 5	M	B → 1/60
	M 3	M	B → 1/125
	GE 5 25	M	B → 1/500

X = contact bush for electronic flash and accessory shoe contact

M = contact bush for flashbulbs

LEICA		CL	
Electronic flash		B → 1/60	
Flash Lamps	M 2 AG 1 AG 3 flash cubes	B → 1/30	



# LEICAFLEX, SL and SL 2

Electronic flash		B → $\frac{1}{100}$ (= $\frac{1}{100}$ )	<b>X</b> $\frac{1}{100}$
Flash Lamps	M 2 AG 1 AG 3 flash cubes	1 → $\frac{1}{30}$	
	AG 1 AG 3 flash cubes	1 → $\frac{1}{60}$	
	XM 1 PF 1 XM 5 PF 5	1 → $\frac{1}{125}$	<b>M</b> $\frac{1}{125}$
	GE 5 25 M 3	1 → $\frac{1}{250}$	

LEICA		R 3 ELECTRONIC *	
		X contact	M contact
Electronic flash		X ( $\frac{1}{90}$ ) 4 S → $\frac{1}{60}$ , B	—
Flash Lamps	AG 1 AG 3 flash cubes PF 1 XM 1	4 S → $\frac{1}{30}$ , B	—
	M 2	4 S → $\frac{1}{60}$ , B	—
	PF 5 XM 5 M 3 25 GE 5	4 S → $\frac{1}{30}$ , B	$\frac{1}{125}$ — $\frac{1}{1000}$
	FP 26 PF 6 XM 6	4 S → $\frac{1}{15}$ , B	$\frac{1}{30}$ — $\frac{1}{1000}$
	PF 60	4 S → $\frac{1}{30}$ , B	—
	PF 100	4 S → $\frac{1}{15}$ , B	$\frac{1}{30}$

\* when using flash it is advisable to set the camera on manual setting

## Tables of projection distances

Projection distances and screen image sizes for the 35mm format.

A square screen is necessary where both upright and horizontal slides are to be projected; the table below contains the lengths of the screen in m, ft and in.

For the projection of 40x40mm slides the given values must be increased by about 10%.

		Focal lengths in mm							
		35	50	90	120	150	200	250	300
Projection distances in feet	4'	3' 9"	2' 6"						
	6'	5' 9"	3' 10"						
	8'	7' 9"	5' 2"						
	10'	9' 9"	6' 6"	3' 8"					
	12'	11' 9"	7' 10"	4' 5"	3' 3"				
	15'		9' 11"	5' 7"	4' 2"	3' 3"			
	20'		13' 3"	7' 7"	5' 7"	4' 5"			
	25'			9' 6"	7' 1"	5' 7"	4' 2"		
	30'			11' 5"	8' 6"	6' 9"	5'	4'	
	35'			13' 5"	10'	7' 11"	5' 11"	4' 8"	3' 10"
	40'				11' 5"	9' 1"	6' 9"	5' 4"	4' 5"
	45'				12' 11"	10' 3"	7' 8"	6' 1"	5'
	50'					11' 5"	8' 6"	6' 9"	5' 7"
	55'					12' 7"	9' 5"	7' 6"	6' 2"
	60'						10' 3"	8' 2"	6' 9"
	65'						11' 2"	8' 10"	7' 4"
	70'						12'	9' 7"	7' 11"
	75'						12' 11"	10' 3"	8' 6"
	80'							13' 9"	11'
	85'								11' 8"
90'								12' 4"	
95'								13' 1"	
100'								13' 9"	
110'								12' 7"	
120'								13' 9"	

		Focal lengths in mm							
		35	50	90	120	150	200	250	300
Projection distances in m	1	0.95							
	2	1.95	1.30						
	3	2.95	1.95	1.10					
	4	3.95	2.65	1.50	1.10				
	5		3.30	1.85	1.40	1.10			
	6		4.00	2.25	1.70	1.35			
	7			2.65	1.95	1.55			
	8			3.05	2.25	1.80	1.35		
	9			3.45	2.55	2.05	1.50		
	10			3.80	2.85	2.25	1.70	1.35	
	11				3.15	2.50	1.85	1.45	
	12				3.45	2.75	2.05	1.60	
	13				3.70	2.95	2.20	1.75	1.45
	14				4.00	3.20	2.40	1.90	1.55
	15					3.45	2.55	2.05	1.70
	16					3.65	2.75	2.15	1.80
	17					3.90	2.90	2.30	1.90
	18					4.15	3.10	2.45	2.05
	19						3.25	2.60	2.15
	20						3.45	2.75	2.25
	21						3.60	2.85	2.40
22						3.80	3.00	2.50	
25						4.30	3.45	2.85	
30							4.15	3.45	
35								4.00	

Projection distances and screen image sizes for the **6 x 6cm** (2<sup>1</sup>/<sub>4</sub> x 2<sup>1</sup>/<sub>4</sub>" ) and 7 x 7cm (2<sup>3</sup>/<sub>4</sub> x 2<sup>3</sup>/<sub>4</sub>" ) format (transparency size 54 x 54mm).

		Focal lengths in mm			
		150	200	250	300
Projection distances in feet	10'	3' 3"			
	12'	4'	2' 11"		
	15'	5' 1"	3' 8"	2' 11"	
	20'	6' 10"	5' 1"	4'	3' 3"
	25'	8' 8"	6' 5"	5' 1"	4' 2"
	30'	10' 5"	7' 9"	6' 2"	5' 1"
	35'	12' 3"	9' 1"	7' 2"	5' 11"
	40'	14' 1"	10' 5"	8' 3"	6' 10"
	45'		11' 10"	9' 4"	7' 9"
	50'		13' 2"	10' 5"	8' 8"
	55'		14' 6"	11' 6"	9' 7"
	60'			12' 7"	10' 5"
	65'			13' 8"	11' 4"
	70'				12' 3"
	75'				13' 2"
	80'				14' 1"
	85'				14' 11"

		Focal lengths in mm			
		150	200	250	300
Projection distances in m	3	0.95			
	4	1.35	0.95		
	5	1.70	1.25	0.95	
	6	2.05	1.50	1.20	0.95
	7	2.40	1.80	1.40	1.15
	8	2.75	2.05	1.60	1.35
	9	3.15	2.30	1.85	1.50
	10	3.50	2.60	2.05	1.70
	11	3.85	2.85	2.25	1.85
	12	4.20	3.15	2.50	2.05
	13		3.40	2.70	2.25
	14		3.65	2.90	2.40
	15		3.95	3.15	2.60
	16		4.20	3.35	2.75
	17			3.55	2.95
	18			3.80	3.15
	19			4.00	3.30
	20			4.20	3.50
	22				3.65
	24				3.85
	25				4.40

Projection distances and screen image sizes for the **pocket format 110**  
= 12 x 15.8mm.

A square screen is necessary where both upright and horizontal slides are to be projected; the table below contains the side length of the screen in m, ft, and in.

		Focal lengths in mm		
		45	50	90
Projection distances in m	1	0.35	0.30	0.20
	2	0.70	0.60	0.35
	3	1.05	0.95	0.55
	4	1.40	1.25	0.70
	5	1.75	1.60	0.90
	6	2.10	1.90	1.10
	7	2.45	2.20	1.25
	8	2.80	2.50	1.40
	9	3.15	2.85	1.60
	10	3.50	3.15	1.75



### Micro-attachments A + B

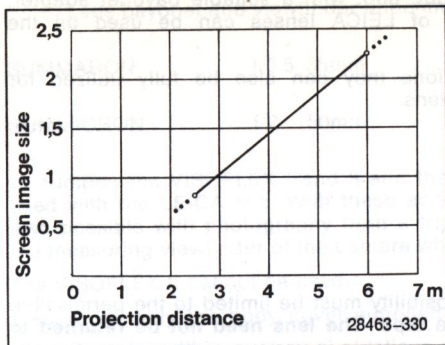
Screen image diam.	Magnification/aperture and reproduction scale			Eyepiece, and projection distances in feet, in, and m								
	4/0.12	10/0.25	25/0.50	5 x	4 x	3.2 x	2.5 x	2 x	1.6 x	1.25 x	1 x	
60cm 24"	110:1	275:1	680:1				2.7 8' 4"	3.4 11' 4"	4.2 14'	5.5 18' 4"	6.8 22' 8"	
85cm 34"	155:1	400:1	1000:1			3.0 10'	3.9 13'	4.8 16'	6.0 20'	7.8 26'		
125cm 50"	230:1	570:1	1400:1	2.8 8' 8"	3.6 12'	4.4 14' 8"	5.7 19'	7.1 23' 8"	8.8 29' 4"			

Example: With the 2.5x eyepiece at a projection distance of 2.7m (9') a screen image of 60cm (24") diameter is obtained. The reproduction scales obtainable with the objectives listed are 110 : 1, 275 : 1, and 680 : 1 respectively.

### Projection attachment

	Projection distance		Screen image size in m, ft, in		Reproduction ratio
ELMARON f/2.8 50mm	2.00m	6' 8"	1.90m	6' 4"	39 : 1
	3.00m	10'	2.85m	9' 6"	59 : 1
	4.00m	13' 4"	3.80m	12' 8"	79 : 1
	6.00m	20'	5.70m	19'	119 : 1
COLORPLAN f/2.5 90mm	2.00m	6' 8"	1.00m	3' 4"	21 : 1
	3.00m	10'	1.55m	5' 2"	32 : 1
	4.00m	13' 4"	2.10m	7'	43 : 1
	6.00m	20'	3.20m	10' 8"	66 : 1

## Projection distances and screen image sizes Episcopy LE 19 and LE 19 S



Projection distances between 2.5 and 6m at screen image sizes between 80cm and 2.5m can be obtained.

### Epidiascope III LH

Type of projection Focal length of lenses	Projection distances in feet, in, m (projection screen to front of projector base)					
	13, 4" 4m	16' 8" 5m	20' 6m	23' 4" 7m	26' 8" 8m	
<b>Episcopy</b>	Screen image size for epi-side 19cm					
400mm object field 16 x 19cm	1.85 6' 2"	2.30 7' 8"	2.80 9' 4"	3.25 10' 10"		
500mm object field 16 x 19cm	1.45 4' 10"	1.80 6'	2.20 7' 4"	2.55 8' 6"	2.95 9' 10"	
<b>Diascopy</b>						
<b>200mm</b>	side of transparency 8.5cm	1.40 4' 8"	1.80 6'	2.15 7' 2"	2.50 8' 4"	
	side of transparency 10.0cm	1.70 5' 8"	2.15 7' 2"	2.55 8' 6"	3.00 10'	
	side of transparency 12.0cm	2.05 6' 10"	2.60 8' 8"	3.15 10' 6"	3.70 12' 4"	
<b>250mm</b>	side of transparency 8.5cm	1.10 3' 8"	1.40 4' 8"	1.70 5' 8"	2.00 6' 8"	2.30 7' 8"
	side of transparency 10.0cm	1.30 4' 4"	1.65 5' 6"	2.00 6' 8"	2.35 7' 10"	2.75 9' 2"
	side of transparency 12.0cm	1.60 5' 4"	2.00 6' 8"	2.45 8' 2"	2.90 9' 8"	3.35 11' 2"

## Existing interchangeable lenses on the LEICA M 5

All lenses with LEICA bayonet mount, and, with a suitable bayonet adapter, the earlier, screw-thread versions of LEICA lenses can be used on the LEICA M 5.

With minor exceptions or restrictions they can also be fully utilized for selective light metering through the lens.

### Exceptions:

1. When a lens is **collapsible**, collapsibility must be limited to the permissible amount by means of a protective tape. **The lens need not be returned to the factory.** The protective tape is available in various widths internationally from Messrs DYMO.

The tape should surround the lens mount leaving a gap of 1mm. To obtain the right length, a paper pattern should first be cut (see p. 166).

### Collapsible lenses

### Required width of tape

ELMAR	f/3.5	50mm	}	9.5mm
ELMAR	f/2.8	50mm		
SUMMAR	f/2	50mm		
SUMMITAR	f/2	50mm		
SUMMICRON	f/2	50mm		
ELMAR	f/4	90mm	}	12.7mm
HEKTOR	f/2.5	50mm		

## 2. Lenses to be returned to the LEITZ After-Sales Service, National Agency, or authorized workshop for adaptation:

- a) 21mm and 28mm wide-angle lenses, parts of whose mounts enter too deeply into the camera body.

A recess in the lens bayonet prevents the swinging-in of the photo resistor. The lenses can be subsequently attached – but exposure measurement through the lens is not possible.

SUPER ANGULON	f/4	21mm	with screw thread. Only the <b>bayonet adapter</b> (Code No. 14 097) has to be modified. Please state for: 21mm
SUPER ANGULON	f/4	21mm	with bayonet mount
SUPER ANGULON	f/3.4	21mm	with bayonet mount (below Serial No. 2 473 251)
ELMARIT	f/2.8	28mm	with bayonet mount (below Serial No. 2 314 921)



b) lenses whose detachable viewfinder attachments foul the cover plate of the LEICA M 5.

Lens bayonet and viewfinder attachment must be re-machined.

SUMMARON	f/3.5 35mm	with detachable viewfinder attachment
SUMMICRON	f/2 50mm	with near-focusing range

In addition the VISOFLEX I and 3 and the universal focusing bellows can be used with the LEICA M 5. With these accessories, selective light metering is also possible with photography from a tripod. The measured value is read in the measuring viewfinder of the camera when the mirror is swung out.

The VISOFLEX II cannot be used.

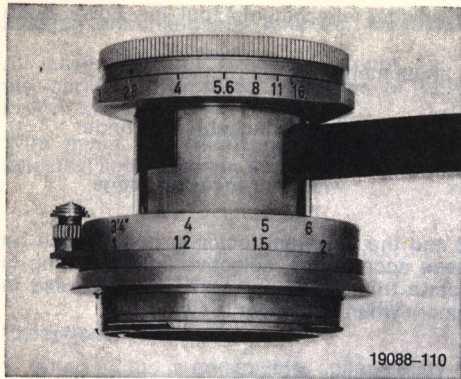
Please use only the body cover supplied with the M 5.

#### Attention:

In the LEICA M 5 only films in cassettes with standardized spools (to DIN 4535 or ISO/R 1007 standards) can be used. These spools have drive lugs on both ends. The rewind key of the LEICA M 5 (see illustration) engages in the drive lugs facing the camera baseplate.







### Interchangeable LEICA M lenses on the LEICA CL

The bayonet lens mount of the LEICA® CL is identical with that of the LEICA M models. Hence numerous LEICA M lenses are usable on the LEICA CL. In addition, earlier screw-thread lenses can be used with the appropriate bayonet/screw adapter rings (Code No. 14 097 for 50mm, Code No. 14 098 for 28mm and 90mm and Code No. 14 099 for 35mm).

The LEICA CL finder incorporates bright-line frames for the 40mm, 50mm, and 90mm fields of view. The entire visible field is approximately that for 35mm lenses. 28mm lenses require the brilliant finder Code No. 12 007.

### Exceptions:

1. The following lenses, when used on the LEICA CL, require removal of their lens hoods for focusing, particularly at close distances:

SUMMICRON	f/2	35mm
SUMMILUX	f/1.4	35mm
SUMMILUX	f/1.4	50mm
NOCTILUX	f/1.2	50mm
ELMARIT	f/2.8	90mm

When used on the LEICA CL, the high-speed SUMMILUX f/1.4 and NOCTILUX f/1.2 50mm lenses should be stopped down to at least f/2.

2. Lenses with extended focusing range:

The LEICA CL rangefinder covers a focusing range from infinity down to 0.8m (32"). Some LEICA M lenses focus on still nearer distances, but only with their distance scales, not the rangefinder:

ELMARIT	f/2.8	28mm
SUMMICRON	f/2	35mm
SUMMICRON	f/2	50mm (Code No. 11 817)
SUMMICRON	f/2	50mm with dual range

Here distances shorter than 0.8m (32") cannot be focused in the view-finder of the LEICA CL.

3. Collapsible lenses need safety strips to limit the retraction of the lens barrel. These can be fitted by the user, employing embossing tapes available everywhere for Dymo and similar embossing machines. Apply the tape round the lens barrel, leaving a gap of about 1mm. To cut the right length first make a paper template.

**Collapsible lenses:****Required tape width**

ELMAR	f/3.5	50mm	} 9.5mm ( <sup>3</sup> / <sub>8</sub> in)
ELMAR	f/2.8	50mm	
SUMMAR	f/2	50mm	
SUMMITAR	f/2	50mm	
ELMAR	f/4	90mm	
HEKTOR	f/2.5	50mm	12.7mm ( <sup>1</sup> / <sub>2</sub> in)

4. The following lenses of the LEICA M range cannot be used on the LEICA CL:

- a. Lenses whose rear mount enters too far into the camera body, such as the ELMARIT f/2.8 28mm (Serial No. below 2314921) and the SUPER-ANGULON 21mm.
- b. Lenses with a finder attachment such as the 35mm wide-angle lenses for the LEICA M3 and the ELMARIT f/2.8 135mm.
- c. The SUMMICRON f/2 90mm, TELE-ELMAR f/4 135mm and the NOCTILUX f/1 50mm.

**CL Lenses on LEICA M cameras**

Screw-thread LEICA lenses and lenses for the LEICA M models have a differential helical focusing movement, i.e. the rear focusing barrel bearing against the rangefinder coupling roller moves only in and out. For a more compact and lightweight design, the 40mm SUMMICRON-C f/2 and 90mm ELMAR-C f/4 for the LEICA CL have instead a direct rear focusing cam. These lenses can be mounted on the LEICA M, but do not provide precise coupling with the rangefinder. For this reason we do not recommend the use of the CL lenses on the LEICA M cameras.

## List of the LEICA models



3964z - 110

### LEICA I

(non-interchangeable lens)

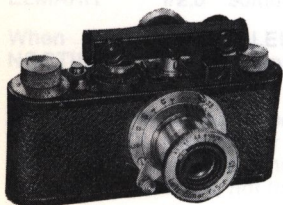
First basic LEICA model, black enamelled, **non-interchangeable ELMAR f/3.5 50mm lens**, with locking spring for the infinity position, slip-on rangefinder, focal plane shutter, 1/20 to 1/500 sec and time exposure. Available from 1925 onwards. Discontinued around 1932



3963z - 110

### Compur LEICA

Black enamelled, non-interchangeable ELMAR f/3.5 50mm lens, Compur shutter, speeds from 1-1/300 sec. Separate shutter wind and film transport. Available from 1926 onwards. Discontinued around 1931.



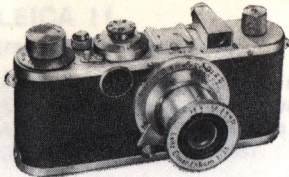
3965z - 110

### LEICA I

(with changing mount)

Camera with **screw mount for interchangeable lenses**. Lens flange and lens screw mount not yet standardized. Available from 1930 onwards. Lens flange and lens mount standardized in models from Serial No. 60 500 onwards. Available from 1931 onwards. Discontinued around 1932.





3966z - 110

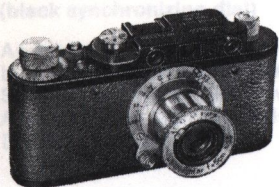
## Standard LEICA

Black enamelled or chromium finished, screw mount for interchangeable lenses, slip-on rangefinder, focal plane shutter 1/20 to 1/500 sec, pull-out rewind knob.

Serial Nos. from 100 000 onwards.

Available from 1932 onwards.

Discontinued around 1941.



3967z - 110

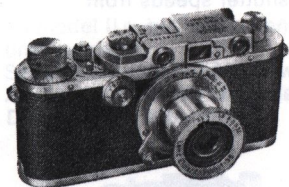
## LEICA II

Black enamelled or chromium finished, with built-in coupled rangefinder, focal plane shutter 1/20 to 1/500 sec and time exposure.

Serial Nos. from 71 500 onwards.

Available from 1932 onwards.

Discontinued around 1941.



3968z - 110

## LEICA III

As model II, but with extended range of shutter speeds from 1 to 1/500 sec, rangefinder with focusing telescope (1.5x), eyelets at sides for carrying strap.

Serial Nos. from 109 000 onwards.

Available from 1933 onwards.

Discontinued around 1932.

## LEICA III a

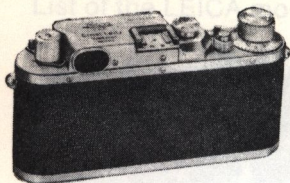
As model III, but with additional shutter speed 1/1000 sec.

Serial Nos. from 156 201 onwards.

Available from 1935 onwards.

Discontinued around 1939.





3969z - 110

### LEICA III b

As model III a, but with eyelenses for viewfinder and rangefinder close together. The lever for adjusting the rangefinder telescope is next to the rewind knob.

Serial Nos. from 240 017 onwards.

Available from 1938 onwards.

Discontinued around 1945.

### LEICA 250

With enlarged cassette spaces (cassettes for 10m (33ft) film) for reporters, otherwise as III a.

Available from 1934 onwards.

Discontinued around 1942.

### LEICA I c

Shutter speeds from 1/30 to 1/500 sec and time exposure, slip-on brilliant finder and rangefinder, screw mount for interchangeable lenses.

Serial Nos. from 455 000 onwards.

Available from 1949 onwards.

Discontinued around 1951.

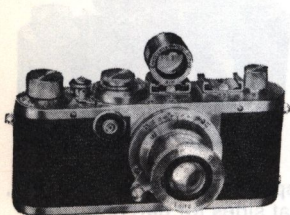
### LEICA II c

As model I c, but with built-in coupled rangefinder, shutter speeds from 1/30 to 1/500 sec and time exposure.

Serial Nos. from 440 000 onwards.

Available from 1948 onwards.

Discontinued around 1951.



3470z - 110

### LEICA I f

(black synchronizing dial)

As model I c, but fully synchronized, film indicator built into the film winding knob.

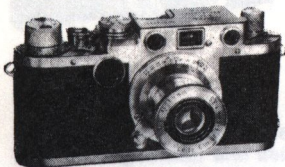
Serial Nos. from 562 000 onwards.

Available from 1952 onwards.

Discontinued around 1957.

## **LEICA I f** **(red synchronizing dial)**

As above, but international shutter speeds 1/25, 1/50 sec etc.  
Serial Nos. from 564 001 onwards.  
Available from 1952 onwards.  
Discontinued around 1957.



3471z-110

## **LEICA II f** **(black synchronizing dial)**

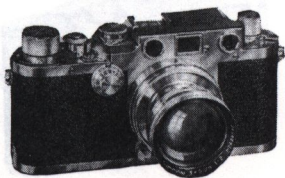
As model II c, but with built-in full flash synchronization, film indicator built into the film winding knob.  
Serial Nos. from 451 000 onwards.  
Available from 1951 onwards.  
Discontinued around 1957.

## **LEICA II f** **(red synchronizing dial)**

As above, but with international shutter speeds 1/25, 1/50 to 1/1000 sec and time exposure.  
Serial Nos. from 574 401 onwards.  
Available from 1952 onwards.  
Discontinued around 1957.

## **LEICA III c**

As model II c, but with extended shutter speed range from 1 to 1/1000 sec and time exposure.  
Serial Nos. from 360 000 onwards.  
Available from 1940 onwards.  
Discontinued around 1950.



2601z-110

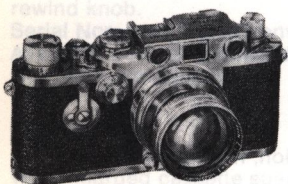
## **LEICA III f** **(black synchronizing dial without self-timer)**

As model III c, but with built-in full flash synchronization and film indicator built into film winding knob.  
Serial Nos. from 525 000 onwards.  
Available from 1950 onwards.  
Discontinued around 1957.

## LEICA III f

(red synchronizing dial, without self-timer)

As above, but international shutter speeds  
Serial Nos. from 615 000 onwards.  
Available from 1952 onwards.  
Discontinued around 1957.



2896z - 110

## LEICA III f

(with self-timer)

As model III f with red synchronizing dial, but with self-timer of approximately  
12 seconds' delay.  
Serial Nos. from 685 000 onwards.  
Available from 1954 onwards.  
Discontinued around 1957.



6838z - 110

## LEICA III g

differs from the LEICA III f in the following technical features:

1. Large bright-line viewfinder with automatic parallax compensation,
2. Shutter speeds graduated in geometrical progression.
3. Fully automatic synchronization (without contact numbers),
4. Film indicator in the back of the camera body.

Serial Nos. from 825 001 onwards.  
Available from 1957 onwards.  
Discontinued around 1961.

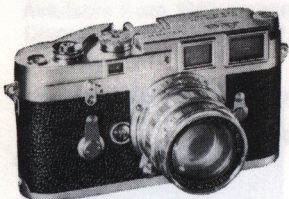




8065z - 110

## LEICA I g

basically the same design as that of the LEICA III g. Has no rangefinder and self-timer. Serial Nos. from 887 001 onwards. Available from 1957 onwards. Discontinued around 1961.



5093z - 110

## LEICA M 3

Bright-line measuring viewfinder with automatic parallax compensation, automatically faded-in image frames for 50, 90, and 135mm focal length (35mm frame obtained by use of 35mm lens with finder attachment). Bayonet mount for rapid lens change. Shutter speed knob engages at each setting from 1 to 1/1000 sec and B. Attachable exposure meter with direct shutter coupling. Automatic frame counter under magnifier. Hinged back. From 1956 onwards with field-of-view selector. Serial Nos. from 700 001 onwards. Available from 1954 onwards. Discontinued around 1968.



8743z - 110

## LEICA M 2

As LEICA M 3, with the following differences: Automatically faded-in image frames for 35, 50, and 90mm focal lengths. Film counter must be returned to 0 by hand. From 1959 onwards with self-timer. Serial Nos. from 926 001 onwards. Available from 1958 onwards. Discontinued around 1961.





9201z - 110

## LEICA M 1

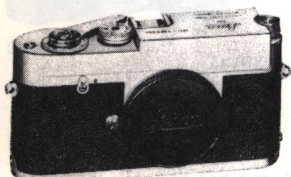
Without rangefinder. Fields of view for 35 and 50mm lenses are shown parallax-free and permanently faded into the bright-line finder.

Otherwise as M2.

Serial Nos. from 950 001 onwards.

Available from 1959 onwards.

Discontinued around 1965.



14225z - 110

## LEICA MD

As LEICA M 1, but without viewfinder, equipped for the use of the marking device.

Serial Nos. from 1 102 501 onwards.

Available from 1965 onwards.

Discontinued around 1968.



13833z - 111

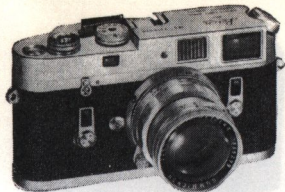
## LEICAFLEX

Single-lens-reflex camera, focusing screen with micro-prism measuring field, built-in CdS exposure meter, lens bayonet mount, focal plane shutter 1 to 1/2000 sec and B, electronic flash 1/100 sec, automatic frame counter under magnifier.

Serial Nos. from 1 080 114 onwards.

Available from 1965 onwards.

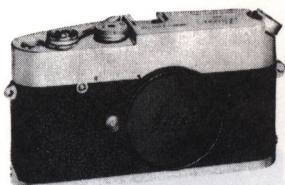
Discontinued around 1969.



15802z - 110

## LEICA M 4

Bright-line measuring viewfinder with automatic parallax compensation. Automatically faded-in image frames for 35, 50, 90, and 135mm focal length. Bayonet mount for rapid lens change. Shutter speed knob from 1 to 1/1000 sec and B. Attachable exposure meter coupled directly with the shutter knob. Rapid film loading system for all standard 35mm films and LEICA cassettes. Automatic film counter under magnifier. Hinged back. Serial Nos. from 1 175 001 onwards. Available from 1967 onwards. Discontinued around 1972.



16336z - 110

## LEICA MD a

as LEICA M 4, but without viewfinder. Designed for the use of the marking device.

Serial Nos. from 1 159 001 onwards.

Available from 1967 onwards.

Discontinued around 1977.



16473z - 111

## LEICAFLEX SL

Single-lens-reflex camera with selective through-the-lens light metering. Focusing screen with finest-ground micro-prisms for the assessment of sharpness throughout the entire viewfinder field. Central measuring field with 4-sided micro-prisms for positive focusing.

Bayonet mount for rapid lens change.

Focal-plane shutter 1 to 1/2000 sec and B. Electronic flash up to 1/100 sec.

Automatic frame counter. Rapid film change.

Serial Nos. from 1 173 005 onwards.

Available from 1968 onwards.

Discontinued around 1974.



## LEICA M 5

as LEICA M4, but with built-in CdS exposure meter for selective light metering through the lens. Focal-plane shutter 1/2 to 1/1000sec and B. Exposure measurement up to 30sec coupled with the shutter speed dial. Additional accessory-shoe contact for electronic-flash units. Novel onesided camera suspension. Removable rapid-loading spool. Rewind crank in detachable baseplate. Serial Nos. from 1 287 011. Available from 1971 onwards.



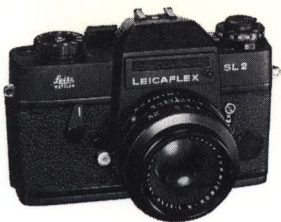
## LEICA CL

Compact measuring-viewfinder camera. Brightline measuring viewfinder with automatic parallax compensation. Automatically faded-in image frames for 40 and 50 as well as 90mm focal length. Quick-changing lens bayonet as in LEICA-M models. Built-in CdS exposure meter for selective light metering through the lens. Vertically travelling focal-plane shutter from 1 to 1/1000sec and B. Accessory-shoe contact for electronic flash units. One-sided camera suspension. Entire camera back can be pulled off for convenient film insertion. Rapid film change.

Serial Nos. from 1 300 001 onwards.

Available from 1973 onwards.





21737-111

## LEICAFLEX SL 2

As LEICAFLEX SL but with additional split-image rangefinder for positive focusing. Combined shutter speed and lens stop indication in the viewfinder. Sensitivity of exposure meter increased by 3 steps. Illuminated measuring read-out for poor lighting conditions. Additional accessory-shoe contact.

Serial Nos. from 1 385 001 onwards.

Available from 1974 onwards.



22832-111

## LEICA R 3

Single-lens reflex camera with electronically-controlled metalblade focal-plane shutter. Alternative integrated (effective) or selective light metering through the lens. Automatic shutter speed determination can be switched over to manual control. Shutter speeds from 4 to 1/1000 sec, B, X = 1/90 sec (electronic-flash synchronization). Focusing screen with finest-ground micro-prisms for sharpness assessment throughout the viewfinder field. Central micro-prism ring with additional split-image rangefinder for positive focusing. Quick-changing lens bayonet. Automatic frame counter and film wind control. Film cartridge window, rapid film change.

Serial Nos. from 1 449 001 onwards.

Available from 1976 onwards.





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# **ERNST LEITZ WETZLAR GMBH**

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Leitz-Portugal S.A.R.L., Vila Nova de Famalicao

List 

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