

Leica

HANDBOOK OF THE LEICA SYSTEM

PHOTOGRAPHY PROJECTION ENLARGING REPRODUCTION OBSERVATION



Leica

General Catalogue for Photographic Dealers

(Edition December 1989)

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Illustrations, descriptions, and technical data are not binding and may be changed without notice. All specifications are also valid for instruments manufactured under the Leitz trade mark.

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The following product designations included in this catalogue are registered trademarks:

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APO-TELYT
COLORPLAN
CURTAGON
ELMAR
ELMARIT
ELMARON
FOCOMAT

FOCOTAR
HEKTOR
LEITZ
LEICA
LEICAFLEX
LEICAMETER
NOCTILUX
PHOTAR

PRADO
PRADOLUX
PRADOVIT
REPROVIT
SUMMICRON
SUMMILUX
TRINOVID und
VISOFLEX

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LEICA R5



Multi-automation

Compact, electronically-controlled 35 mm SLR camera.

Alternative dual exposure measurement through the lens:

- selective measurement
- largefield averaging

Multi-mode automation

- aperture priority
- shutter priority
- automatic program mode

Manual setting of shutter speed and aperture.

TTL flash exposure measurement with system-compatible flash unit (SCA 351/ 551), automatic switchover to "X" with system-compatible flash units (SCA 350/ 550).

Available as accessories:

interchangeable focusing screens, databack, rapid motor wind.

Detailed description on page 1 - 20.

LEICA R5, black chromium finish

complete with camera cover, baseplate cover and carrying strap.

Code No.

10 061 _____

LEICA R5, silver chromium finish

complete with camera cover, baseplate cover and carrying strap.

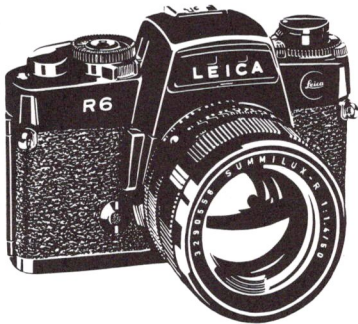
10 060 _____

Use of earlier LEICA R lenses

All lenses of the LEICA R3 / R4 range can be used on the LEICA R5 without modification, but earlier 180 mm ELMARIT-R f/2.8 (Code No. 11 919) to Serial No. 2 939 700 and 250 mm TELYT-R f/4 (Code No. 11 920) to Serial No. 3 050 600 can only be used for aperture priority with selective measurement, aperture priority with largefield averaging and manual mode.

Lenses of the LEICAFLEX models must not be inserted in the LEICA R5 as this may lead to damage. For use in the LEICA R cameras they must be fitted with a control cam, when they will be suitable for use in both the LEICAFLEX and the LEICA R models (restrictions as above).

LEICA R 6



Compact, single-lens reflex camera with mechanically controlled shutter for the format 24 x 36 mm.

Alternative dual exposure measurement through the lens:

- selective measurement
- largefield averaging

Manual setting of shutter speed and aperture

TTL flash exposure measurement with system-compatible flash units and the SCA 351 / 551 adapters.

Available as accessories:

interchangeable focusing screens, Data-Back, rapid motor wind.

Detailed description on page 1 - 24.

Code No.

LEICA R 6, black chromium finish

complete with camera cover, baseplate cover and carrying strap.

10 070 _____

LEICA R 6, silver chromium finish

complete with camera cover, baseplate cover and carrying strap.

10 071 _____

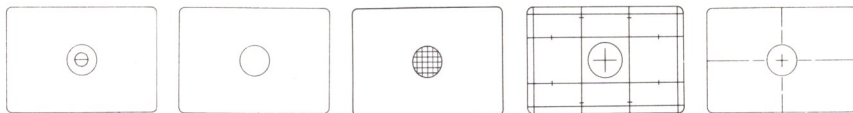
Use of earlier LEICA R lenses

All lenses of the LEICA R models range can be used on the LEICA R 6 without modification.

Lenses of the LEICAFLEX models must not be inserted in the LEICA R 6 as this may lead to damage. For use in the LEICA R cameras they must be fitted with a control cam, when they will be suitable for use in both the LEICAFLEX and the LEICA R models.

Accessories for LEICA R models

Interchangeable focusing screens



Code No.

| | |
|--|--------------|
| Universal screen (replacement) in container with dust brush and tweezers | 14 303 _____ |
| Uniform ground-glass screen in container with dust brush and tweezers | 14 304 _____ |
| Microprism screen in container with dust brush and tweezers | 14 305 _____ |
| Uniform ground-glass screen with grid divisions and TV marks in container with dust brush and tweezers | 14 306 _____ |
| Clearglass screen with crosslines in container with dust brush and tweezers | 14 307 _____ |

Eyecup R



| | |
|---|--------------|
| Eyecup, can be locked in place *) can also be used with correction lenses | 14 215 _____ |
|---|--------------|

Angle viewfinder R

with single and double magnification for viewing from above, also for candid photography "round the corner" or over the heads of a crowd.



| | |
|---|--------------|
| Angle viewfinder 90° , can be locked in place, vertically and laterally correct image, adjustable eyepiece, switch for single/double magnification | 14 300 _____ |
|---|--------------|

*) The Leica Service Centre can fit a locking catch on the eyepiece mount of any LEICA R 4 with a serial number below 1 662 952 and of LEICA R 4 s. R correction lenses and eyecups may be used without modification of the eyepiece mount.

Correction lenses

with adapter (spherical), can be locked in place *)



| | Code No. |
|-------------|--------------|
| + 0.5 | 14 330 _____ |
| + 1.0 | 14 331 _____ |
| + 1.5 | 14 332 _____ |
| + 2.0 | 14 333 _____ |
| + 3.0 | 14 334 _____ |
| - 0.5 | 14 335 _____ |
| - 1.0 | 14 336 _____ |
| - 1.5 | 14 337 _____ |
| - 2.0 | 14 338 _____ |
| - 3.0 | 14 339 _____ |

Attachment possible with eyecup 14 215.

Carrying strap

with antislip pad (replacement) 14 253 _____

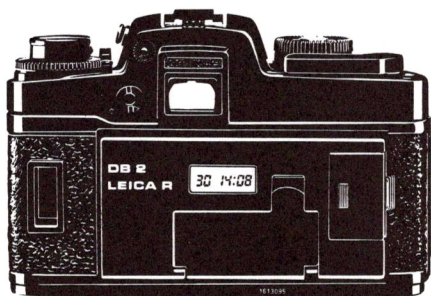
Camera body cover

R bayonet for all R cameras (replacement) 14 103 _____

Flash socket cover

for LEICA R 5 models (replacement) 14 315 _____

DB 2 LEICA R databack



The DB 2 LEICA R is a camera back for printing data onto the film. It can be used without a cable on LEICA R 5 / R 6 models (with cable connection for use on LEICA R 4 models, see page 11 - 3).

Replaces the back of the camera.

Detailed description page 1 - 28.

DB 2 LEICA R databack 14 216 _____

*) The Leica Service Centre can fit a locking catch on the eyepiece mount of any LEICA R 4 with a serial number below 1 662 952 and of LEICA R 4 s. R correction lenses and eyecups may be used without modification of the eyepiece mount.

Ever Ready Cases

für LEICA R4 / R5 / R6 models
(without Motor-Winder or Motor-Drive)

Ever Ready Case



black leather
with standard front part for the following lenses:
21 mm-f/4¹⁾, 24 mm-f/2.8¹⁾, 28 mm-f/2.8¹⁾
35 mm-f/2.8, 35 mm-f/4¹⁾, 50 mm-f/1.4, 50 mm-f/2

Ever Ready Case with standard front part for LEICA R4 / R5 models...

Code No. **14 569** _____

Ever Ready Case with standard front part for LEICA R6

14 510 _____

Ever Ready Case



black leather
with large front part for the following lenses:
16 mm-f/2.8, 19 mm-f/2.8¹⁾, 21 mm-f/4¹⁾, 24 mm-f/2.8¹⁾,
28 mm-f/2.8, 35 mm-f/1.4, 35 mm-f/2, 35 mm-f/2.8, 35 mm/4,
50 mm-f/1.4, 50 mm-f/2, 60 mm-f/2.8, 80 mm-f/1.4, 90 mm-f/2,
90 mm-f/2.8 and 35-70 mm-f/3.5

Ever Ready Case with large front part for LEICA R4 / R5 / R6 models..

14 515 _____

¹⁾ without lens hood / without screw-in filter

Small combination bag R (compact version) ¹⁾

for LEICA R ²⁾ models (without Motor-Winder / Motor-Drive)

holding:

- 1 LEICA R camera with lens inserted and up to
- 3 other lenses.



Bag (about 25 x 14 x 19 cm) with

- coupling ring to fasten 2 lenses together
- adjustable carrying strap with anti-slip pad
- front pocket for accessories

black leather

Code No. **14 805** _____

safari version made of green, hard-wearing canvas

14 841 _____

Coupling ring (replacement)

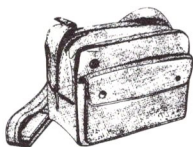
14 836 _____

Large combination bag R (standard version) ¹⁾

for LEICA R ²⁾ models with Motor-Winder / Motor-Drive,

holding:

- 1 LEICA R model with Motor-Winder / Motor-Drive,
handgrip and lens attached as well as up to
- 3 other lenses.



Bag (about 31 x 18 x 23 cm) with

- coupling ring to fasten 2 lenses together
- adjustable carrying strap with anti-slip pad
- front pocket for accessories

black leather

14 833 _____

safari version made of green, hard-wearing canvas

14 837 _____

Coupling ring (replacement)

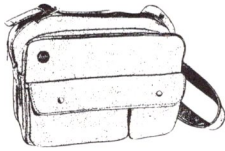
14 836 _____

¹⁾ See pages 11-12 to 11-17 for suggestions of accommodating equipment in camera bags.

²⁾ Not for LEICA R3.

Hold-all R¹⁾

für LEICA R²⁾ models with or without Motor-Winder / Motor-Drive holding:
2 cameras and up to
6 lenses



Hold-all R (external dimensions about 36 x 21 x 24 cm) with

- coupling ring to fasten 2 lenses together
- adjustable carrying strap with anti-slip pad
- front pocket for accessories

Hold-all R (black leather)

Code No. _____

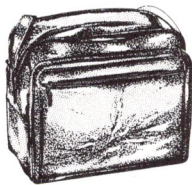
14834 _____

Coupling ring (replacement)

14836 _____

Reporter's bag

without compartments



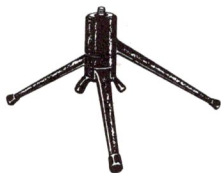
External measurements: about 38 x 21 x 30 cm
black leather
with two additional outer pockets

Reporter's bag

14830 _____

¹⁾ See pages 11 - 12 to 11 - 17 for suggestions of accommodating equipment in camera bags.
²⁾ Not for LEICA R3.

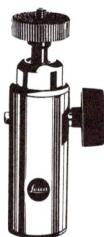
Tabletop tripod



Tabletop tripod with folding legs, tripod thread A 1/4, DIN 4503 (1/4 in) . .

Code No.
14 100 _____

Ball-and-socket Head



Large ball-and-socket head with tripod thread A 1/4, DIN 4503 (1/4 in) . . .

14 110 _____

Cable releases

for all camera models with conical thread

Cable release, length 25 cm, with clamping screw

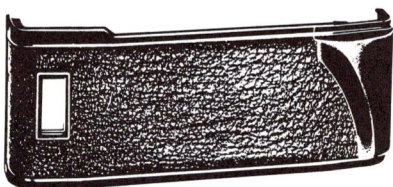
14 067 _____

Cable release, length 50 cm, with clamping screw

14 076 _____

Camera back with thumbhold

for LEICA R cameras (not for LEICA R3)



Camera back with thumbhold

14 411 _____

Universal handgrip



Code No.

Universal handgrip with shoulder stock, adjustable in all directions and therefore individually adaptable by the user. Can also be used as a small tripod. Thread A $\frac{1}{4}$, DIN 4503 ($\frac{1}{4}$ in), for attaching the carrying strap 14 130.

14 239 _____

Detailed description page 1 - 29

Carrying strap for heavy equipment



Carrying strap with antislip pad for heavy equipment, with two tripod screws for attachment to the universal handgrip, thread A $\frac{1}{4}$ ($\frac{1}{4}$ in)

14 130 _____

Adapter

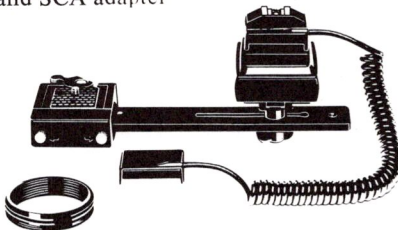


Adapter for the use of VISOFLEX 2/3 lenses from the LEICA M range on the LEICA R (at working aperture).

14 167 _____

LEICA RBA ring-flash adapter

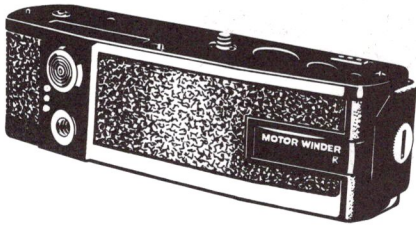
for use of LEICA R 5 / R 6 with Minolta Auto-Electroflash Macro 80 PX and SCA adapter



LEICA RBA ring-flash adapter
consisting of: special bracket, rapid coupler as well as adapter with connecting cable

14 410 _____

MOTOR-WINDER R



Compact, handy motor winder for film transport and shutter wind, exclusively for LEICA R 4 / R 5 / R 6 models.

Extremely quiet operation through patented, low-noise unwinding gear with load-controlled force locking.

Single-frame and series releases. Frame frequency at serial release up to 2 fps.

Functional handgrip with button for series releases as accessory.

Socket ¹⁾ for the RC LEICA R Electronic Control Unit and other electrical releases (see accessory range).

Very easily and quickly interchangeable housing for six ordinary or rechargeable NiCd batteries.

Detailed description page 1 - 30.

Code No.

MOTOR-WINDER R

with cover 14 208 _____

Handgrip R for hand-held exposures ²⁾



Sturdy, practical design with two conveniently located buttons for series releases (upright and oblong format, adjustable leather loop, screw with coin slot for attaching the handgrip to the MOTOR-WINDER R or MOTOR-DRIVE R.

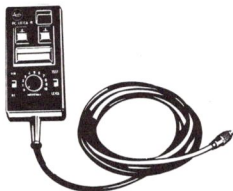
Handgrip R for hand-held exposures ²⁾ 14 308 _____

¹⁾ The 5-pin coupling plug 302-013.154-004 is suitable, available from Leica Service Centre.

²⁾ For MOTOR-WINDER R which on the face side have 3 contacts on the contact plate.

Accessories for MOTOR-WINDER R

RC LEICA R Electronic Control Unit



Electronic control unit for remote release
Timing pulse generator for automatic release built in
Seven integrated circuits (IC) in CMOS technology
Digital display of the exposure through feedback from the camera.
Connecting cable permanently attached to the instrument, length 2 m
Exclusively for the LEICA R with motorized film transport
Detailed description page 1 - 34.

Remote Control LEICA R (RC LEICA R).....

Code No.

14 277 _____

Adapter for external power supply MW-R



for connection to external power supply; with appliance cable, length 1 m, and screw-on coupling plug¹⁾.
(The adapter for external power supply MW-R is inserted in the winder instead of the battery housing).

Possibilities of connection

Battery housing (through holder 14 279), if at low temperatures ordinary or rechargeable batteries have to be kept at body heat and therefore accommodated externally.
Mains units of up to 8.5 V DC.

Adapter for external power supply MW-R

14 278 _____

5 m extension cable for external supply MW-R

14 293 _____

¹⁾ The following are suitable: Coupling socket 302-013.154-011, or 2-pin socket 042-813.155-008 for building-in, available from Leica Service Centre.

Holder for the MW-R battery housing



with connecting sockets marked "+" and "-" for the battery charger, 50 mA, for instance Uni 1 charger by Varta AG ¹⁾; for charging the six NiCd batteries, for instance 501 RS, by Varta AG ¹⁾ in the battery housing MW-R.

External power supply of the MOTOR-WINDER R through adapter for external supply MW-R, Code No. 14 278. Screw-on connecting socket installed for this purpose.

Holder for the battery housing MW-R Code No. **14 279** _____

MW-R battery housing

for the MOTOR-WINDER R, as replacement



For heavy-duty operation (prolonged use, low temperatures, expeditions) a second housing, loaded with new or recharged batteries, offers additional reliability. Single action change within seconds.

MW-R battery housing **14 280** _____

Tripod holder R



for the use of the LEICA R 4 / R 5 / R 6 combination with long-focal-length lenses on a photographic tripod or for the attachment of the universal camera holder for the REPROVIT IIa and the REPROVIT-R. The universal handgrip can also be attached for horizontal pictures. Sturdy design with two conveniently-located screws for the tripod threads of the MOTOR-WINDER R or MOTOR-DRIVE R.

Tripod holder
with thread A ¼, DIN 4503 (¼ in) for photographic tripods. **14 284** _____

¹⁾ Charging of rechargeable batteries via socket and connecting plug 302-013.154-001 and the use of any charger with 45 mA output.

Electric Release Switch R



with trigger switch for switching on the LEICA R 4 / R 5 / R 6 models ¹⁾ for the universal handgrip with cable, length 30 cm, and screw-on coupling plug:

Practical accessory for photography with long-focal-length lenses such as the 250 mm-f/4, 280 mm-f/2.8, 350 mm-f/4.8, 400 mm-f/6.8 and 560 mm-f/6.8.

When inserted in the universal handgrip (14 239), the trigger switch can be directly connected with the screw-on coupling plug to the MOTOR-WINDER R or MOTOR-DRIVE R through the 30 cm cable.

Code No.

Electric Release Switch R **14 237** _____

Electric cable release R

for remote release, with cable, length 5 m, and screw-on coupling plug.

In conjunction with 25 m extension cables (14 274) for electric remote release up to 100 m.

Electric cable release **14 238** _____

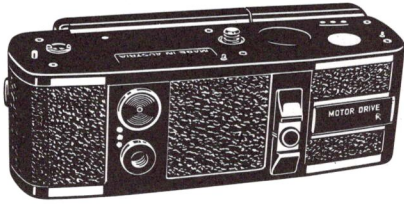
25 m extension cable

(for electric remote release)
with coupling screw plugs

25 m extension cable **14 274** _____

¹⁾ Storing of the measuring values with LEICA R 4 / R 5 (selective) only through camera release.

MOTOR-DRIVE R



Compact, handy motor drive for film transport and shutter wind, exclusively for LEICA R4/R5/R6 models.

Quiet running through special gear construction.

Series releases of 4 fps, 2 fps, and single-frame release, adjustable.

Anatomical handgrip with two release buttons as accessory.

Socket¹⁾ for RC LEICA R Electronic Control Unit and other electric releases (see accessory range).

Very easily and quickly interchangeable housing for 10 ordinary or rechargeable NiCd batteries.

Detailed description page 1 - 32.

Code No.

MOTOR-DRIVE R

with cover 14 310 _____

Handgrip R for hand-held exposures²⁾



Sturdy, practical design with 2 conveniently-located buttons for series releases (upright and oblong format) adjustable leather loop, screw with coin slot for attaching the handgrip to the MOTOR-WINDER R or MOTOR-DRIVE R.

Handgrip R for hand held exposures²⁾ 14 308 _____

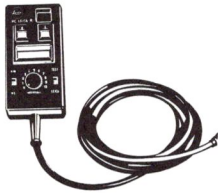
¹⁾ The 5-pin coupling plug 302-013.154-004 is suitable, available from Leica Service Centre.

²⁾ For MOTOR DRIVE R which on the face side have 3 contacts on the contact plate.

The Leica Service Centre can modify MOTOR DRIVE R 4 from serial number 63 000 for use with Handgrip R.

Accessories for MOTOR-DRIVE R

RC LEICA R Electronic Control Unit



Electronic control unit for remote release.
 Timing pulse generator for automatic release built in
 Seven integrated circuits (IC) in C-MOS technology
 Digital display of the exposure through feedback from the camera
 Connecting cable permanently attached to the instrument, length 2 m
 Exclusively for the LEICA R with motor film transport
 Detailed description page 1 - 34.

Code No. 14 277

Remote Control LEICA R (RC LEICA R)

Adapter for external power supply MD-R



for connection to external power supply; with cable permanently attached to the instrument, length 1 m, and screw-on coupling plug¹⁾.
 (The adapter for external power supply MD-R is inserted in the drive instead of the battery housing).

Possibilities of connection:

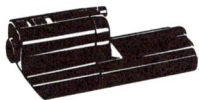
Battery housing for external accommodation of batteries when they have to be kept at body heat (during cold weather).
 Mains Unit up to 15 v dc.

Adapter for external power supply MD-R 14 323
 5 m extension cable for external power supply MD-R 14 325

¹⁾ The following are suitable: Coupling socket 302-013.154-011, or 2-pin socket 042-813. 155-008 for building-in, *available from Leica Service Centre.

Battery housing MD-R

for the MOTOR-DRIVE R as replacement



For heavy-duty operation (prolonged use, low temperatures, expeditions) a second housing, loaded with new or recharged batteries, offers additional reliability. Single-action change within seconds.

The battery housing MD-R has sockets for the connection of a battery charger, for instance uni 1 charger of Varta AG; for the recharging of the 10 NiCd batteries, for instance 501 RS of Varta AG.

The adapter for external power supply MD-R is connected with the aid of a screw-in plug.

Battery housing MD-R Code No. **14 322** _____

Tripod holder R



for the use of the LEICA R 4 / R 5 / R 6 combination with long-focal-length lenses on a photographic tripod or for the attachment to the universal camera holder for the REPROVIT IIa and on the REPROVIT-R. The universal handgrip can also be attached for horizontal pictures. Sturdy design with two conveniently-located screws for the tripod threads of MOTOR-WINDER R or MOTOR-DRIVE R.

Tripod holder with thread A ¼, DIN 4503 (¼ in) for photographic tripods **14 284** _____

Electric Release Switch R



with trigger switch for switching on the LEICA R 4 / R 5 / R 6 models¹⁾ for the universal handgrip with 30 cm cable and screw-on coupling plug:

Practical accessory for photography with long-focal-length lenses such as the 250 mm-f/4, 280 mm-f/2.8, 350 mm-f/4.8, 400 mm-f/6.8 and 560 mm-f/6.8.

When inserted in the universal handgrip (14 239), the trigger switch can be directly connected with the screw-on coupling plug to the MOTOR-WINDER or MOTOR-DRIVE through the 30 cm cable.

Electric Release Switch R **14 237** _____

¹⁾ Storing of the measuring values with LEICA R 4 / R 5 (selective) only through camera release.

Electric Cable Release R

for remote release, with 5 m cable and screw-on coupling plug. In conjunction with 25 m extension cables (14 274) for electric remote release up to 100 m.

Code No.

Electric cable release **14 238** _____

25 m extension cable

(for electric remote release)
with coupling plugs

25 m extension cable **14 274** _____

Specifications and technical data

LEICA R5

**Camera type:**

Electronically controlled single-lens reflex camera with multiple automation for the format 24 x 36 mm.

Lens connection:

LEICA R bayonet.

Lenses:

More than 30 LEICA R lenses with focal lengths from 15 – 800 mm.

Operating the camera:

The camera is switched on by pressing the release button, by actuation of the program selector or by pushing down the test button for battery control (LEDs in viewfinder light up – exposure meter is working). After releasing the displays will be lighted for some 12 s before they go out automatically, provided that the shutter is being cocked.

Methods of exposure measurement:

Selective and average metering through the lens, combined with modes to make practical programs. Exposure measurement at full aperture and at working aperture.

Measuring cell:

Silicon photodiode in the lower part of the camera, protected against stray light. For selective measurement, a collector lens is moved in front of the silicon photodiode, automatically by setting the program.

Selective metering:

Measuring field 7 mm diameter, visible in viewfinder. The selectively metered value can be stored by taking up the slack of the camera release button for up to 30 seconds.

Integral metering:

Center-weighted average of full-field measurement.

Measuring range:

Selective metering from 1 cd/m² up to 125 000 cd/m² at f/1.4, i. e. a working range from EV + 3 to EV + 20 at ISO 100/21° corresponding to aperture / shutter speed combinations from f/1.4/1/4 s to f/22/1/2000 s. Integral metering from 0.25 cd/m² to 125 000 cd/m² at f/1.4, i. e. a working range from EV + 1 to EV + 20 corresponding to aperture / shutter speed combinations from f/1.4/1 s to f/22/ 1/2000 s.

Programs:

Combination of the aperture-priority, shutter speed-priority automatic program modes as well as the manual setting of shutter speed and aperture with the selective and averaging exposure measurement methods. With the program selector can be set:

- Ⓐ Aperture priority mode with selective metering.
- Ⓐ Aperture priority mode with integral metering.
- Ⓙ Shutter speed priority with integral metering.
- Ⓔ Variable mode automation with integral metering.
- Ⓜ Manual setting of shutter speed and aperture with selective metering.

Exposure override:

Plus / minus 2 exposures values in 1/3 steps with clickstop. The override is indicated in the viewfinder.

Film speed range:

ISO 12/12° to ISO 3200/36°.

Power supply:

Two 11.6 mm OD x 5.4 mm high silver oxide button cells or 11.6 mm OD x 10.8 mm high lithium cell. Press test button to check battery voltage. For spare batteries, see Technical information.

Viewfinder system:

Built-in pentaprism. Five interchangeable focusing screens:

1. Universal screen (supplied with camera);
2. Uniform ground-glass screen;
3. Micro-prism screen;
4. Uniform ground-glass screen with grid divisions and TV marks; ;
5. Clear glass screen with cross-hairs.

Eyepiece:

Setting of correction values with dial from + 2 to - 2 dioptres. Integrated eyepiece diaphragm. Eyepiece mount with catch for correction lens holder, eyecup and angle viewfinder.

Viewfinder field:

34.6 mm x 23 = 92% of frame size.

Viewfinder magnification:

0.8 x at 0 diopter with 50 mm lens.

LED displays in viewfinder (depending on program selected):

Program symbol, exposure value determined by exposure measurement (shutter speed or aperture), flash readiness and flash exposure control in combination with dedicated flash units, memory hold i. e. the storage of the selectively measured shutter speed in the aperture priority mode with selective metering, indicated by the program symbol extinguishing (the shutter speed indication remains indicated).

Reflected data in the viewfinder (depending on program selected):

Preset aperture, preset shutter speed.

LED warning indications in viewfinder:

Override setting, over- and under exposure warnings when measuring range is exceeded, restricted control range of aperture in shutter speed priority mode and mode automation, setting X, B and 100 (in this case the exposure measurement does not work).

Flash synchronization:

Standard contact bush (X) for flashbulb and electronic flash units, at the side of the prism housing. Central contact (hot shoe, X) in the accessory shoe.

TTL flash-exposure control and automatic changeover to X setting:

An electronic flash unit designed for system camera fittings 300 or 500, i. e. dedicated flash units SCA 300 or SCA 500 using SCA 351 or SCA 551 adapters, measures flash exposure through the camera lens and automatically switches the camera's electronic system to X ($1/100$ s) as soon as the flash unit is ready. The LED display flashes and the shutter/aperture display switches off to indicate flash-exposure control and 'flash ready'.

Override for TTL flash exposure measurement:

Plus / minus 2 stops. In $1/3$ values with clickstops. The override setting is indicated in the viewfinder.

Automatic changeover to X:

When using dedicated flash units of the SCA systems 300 and 500 in combination with the SCA 350 and 550 adapters the changeover of the camera electronics to "X" ($1/100$ s) takes place automatically after the flash unit has been recharged. A flashing LED in the viewfinder indicates readiness to flash (LED display of shutter speed / aperture disappears).

Manual settings for flash synchronization using the time-setting button:

X = $1/100$ s is produced mechanically and released electromagnetically. 100 = $1/100$ s is produced mechanically and released mechanically. All shutter speeds from $1/2$ to $1/60$ s with manual setting and B = exposure of any duration.

Metering cell for flash exposure measurement:

Silicon photodiode in the lower part of the camera, next to the metering cell for exposure measurement.

Film speed range:

ISO 12/12° to ISO 3200/36°.

Shutter:

Electronically controlled metal-blade focal-plane shutter. Vertical action.

Shutter speeds computed by electronics:

For automatic programs from 15 s to $1/2000$ s, continuously variable. With manual setting and aperture-priority in full values from $1/2$ s to $1/2000$ s.

Shutter speeds produced mechanically:

X = $1/100$ s for electronic flash synchronization. B for exposures of any duration. 100 = $1/100$ s if the batteries are exhausted (electronic flash synchronisation).

Hinged mirror system:

Semi-transparent hinged mirror with 17 deposited layers (70% reflection, 30% transmission). Behind this, Fresnel reflector for selective metering and averaging (1345 microreflectors of the Fresnel reflector concentrate the light on the metering cell). Vibration-free mirror movement.

Film transport:

With single-stroke advance lever (angle of movement 130°) or optionally motor-driven with the MOTOR-WINDER R (2 fps) or the MOTOR-DRIVE R (switchable 4 fps, 2 fps and single frames).

Identification of the film plane:

By symbol on the top of the camera.

Exposure counter:

Forward counting. Automatic reset when camera back is opened.

Multiple exposures:

By pressing the rewind locking button. Automatic reset when the shutter is cocked. Exposure counter does not move on. Any number of exposures possible. Multiple exposures can also be taken by drive or winder.

Film rewind:

Hinged rewind crank on the top left of the camera.

Shutter release:

Shutter release button with standard thread for cable release. Circuit switched on (LEDs light up in the viewfinder - exposure meter in operation) by pressing after 0.3 mm. Storage of exposure value for $\text{\textcircled{A}}$ (light pressure) after 1 mm. Electromagnetic release for electronically computed shutter speeds and X (= $\frac{1}{100}$ s) after 1.3 mm. Mechanical release for mechanically produced shutter speeds B and 100 after 2.25 mm.

Self-timer:

Delay time approx. 9 s. Operation indicated by a flashing red LED on the front of the camera.

Camera body:

Die-cast aluminium, die-cast camera top of 1 mm thick zinc. 0.8 mm brass base plate. Camera back with film cartridge window (to check which film is inserted and the film type); can be replaced by the databack. Electric contacts for LEICA R DB 2 databack. Field depth lever on the right at the lens attachment permits visual assessment of the depth of field. Tripod thread = A $\frac{1}{4}$, ($\frac{1}{4}$ "). Eyelets on both sides for carrying strap. Mechanical connection and electric contacts for the MOTOR-WINDER-R / MOTOR-DRIVE-R. Optionally black or silver chromium finish.

Carrying strap:

Of black perlon with integrated anti-slip pad. If an ever-ready case is used, the carrying strap remains on the camera.

Dimensions (without lens):

Height 89.1 mm, length 138.5 mm, total depth 62.2 mm (depth of camera body 32.2 mm), weight = 625 g.

LEICA R 6

**Camera type:**

35 mm single-lens reflex camera with mechanical shutter release and through-the-lens exposure metering.

Lens attachment:

LEICA R bayonet.

Lenses:

Choice of more than thirty LEICA R lenses with focal lengths from 15 mm to 800 mm.

Shutter:

Manually controlled metal-blade focal-plane shutter, vertical action, compact design.

Shutter speeds:

Setting ring, click-stop settings for B and from 1 s to $1/1000$ s; X = $1/100$ s for electronic flash synchronization.

Shutter-speed setting ring:

Projects 6.5 mm for positive grip, central release button.

Shutter release:

Two-stage release button with standard socket thread for cable release. Switches on exposure meter at pressure point after 0.3 mm, releases shutter after 1.6 mm.

Swing-mirror system:

Semi-transparent swing mirror coated 17 layers by vacuum deposition, reflects 70 % and transmits 30 % light, backed by Fresnel reflector for selective and integral metering; Fresnel reflector consists of 1345 micro-reflectors that concentrate light on exposure meter's photocell. Vibration-free mirror action.

Independent mirror release:

Special cable-release socket for hinging up mirror without releasing shutter, also sets diaphragm of lens used to selected stop. Shutter controlled by main shutter-release button, with or without cable release.

Electromagnetic self-timer:

About 9 s delay; flashing red LED on front of camera indicates that self-timer is set.

Film transport:

Single-movement quick-wind lever (130° movement), optional MOTOR-WINDER R (2 fps) or MOTOR-DRIVE R (single frame, 2 fps, 4 fps).

Film plane:

Mark at top of camera.

Exposure counter:

At top of camera. Counts forward from start at S (frame - 2) to 36; film length for 20, 24, and 36 exposures marked in red. Automatic reset when camera back is opened.

Multiple exposures:

Press rewind locking button. Automatic reset when shutter is cocked; exposure counter does not move on. Any number of exposures possible. Multiple exposures also possible with motor winder / drive.

Rewind lever:

Hinged crank at top left of camera.

Exposure meter:

Selective and integral through-the-lens metering. Selector switch below shutter-setting ring. Metering at full aperture with LEICA R lenses with automatic diaphragm, at working aperture with lenses and accessories without automatic diaphragm.

Photocell:

Silicon photodiode, protected from stray light in lower part of camera. For selective metering, the selector switch automatically places a collector lens in front of photodiode.

Selective metering:

Measuring field 7 mm diameter, visible in viewfinder.

Integral metering:

Centre-weighted average of full-field measurement.

Measuring range of exposure meter:

Selective metering from 0.25 cd/m² to 63 000 cd/m² at f/1.4, i. e. from EV + 1 to + 19 at ISO 100/21°, or 1 s at f/1.4 to f/22 at 1/1000 s.

Integral metering from 0.063 cd/m² to 63 000 cd/m² at f/1.4, i. e. from EV - 1 to + 19 at ISO 100/21°, or 4 s at f/1.4 to f/22 at 1/1000 s.

Film-speed range:

ISO 12/12° to ISO 3 200/36°.

Power supply:

Two silver oxide button cells or lithium battery. Press test button to check battery voltage.

Battery life:

About 2 500 exposures at 12 s for each exposure-meter reading, i. e. about 70 films of 36 exposures each.

Switch on exposure meter:

After selection of metering method: by light touch on shutter release; by pressing stop button on selector switch; by light touch on release button of MOTOR-WINDER R or MOTOR-DRIVE R; or by pressing test button for battery check fully home.

With shutter cocked, viewfinder display remains lit for about 12 s after release of button switch used to activate.

Display of metering method selected:

By symbol in window next to shutter-setting ring, and in viewfinder.

Display of shutter / aperture balance

in viewfinder.

Balancing shutter and aperture:

Set manually by selecting aperture and turning shutter-setting ring or by selecting shutter and turning aperture-setting ring until central, circular LED of shutter/aperture balance in the viewfinder shows them balanced. The two triangular LEDs, either alone or together with the central LED, indicate over- or underexposure and the direction in which to turn the setting ring concerned.

Switching off exposure meter (selective mode):

Press locking button again and move selector switch to OFF.

Viewfinder system:

Built-in pentaprism. Five interchangeable focusing screens.

Viewfinder eyepiece:

Setting ring for adjustment from + 2 to - 2 diopters. Built-in eyepiece diaphragm. Eyepiece mount with retaining ring for holder of supplementary correction lenses, eyecup, and 90° viewfinder attachment.

Viewfinder field:

34.6 mm x 23 mm, i. e. 92% of frame size.

Viewfinder magnification:

0.8 x at 0 diopter with 50 mm lens.

Viewfinder display

in lower margin of viewfinder image.

Data projected into viewfinder:

Aperture setting, shutter-speed setting (1 s to $\frac{1}{1000}$ s, B, X).

LED displays when exposure meter is activated:

Symbols indicate metering mode selected, shutter / aperture balance; flashing flash symbol indicates 'flash ready' and exposure check.

LED warning indicators:

Low-light warning, over- and underexposure override.

Supplementary light

may be switched on in poor ambient light for projected data of shutter speed and stop; activated only when exposure meter is ON.

Electronic flash synchronization:

Standard X contact socket for bulb and electronic flash units adjacent to prism housing. Central X hot-shoe contact.

TTL flash-exposure metering:

Flash exposure measured through camera lens for electronic flash units designed for system camera fittings 300 or 500, i. e. dedicated flash units SCA 300 or SCA 500 using SCA 351 or SCA 551 adapters.

Shutter settings for flash:

X = $\frac{1}{100}$ s, B = 1 s to $\frac{1}{60}$ s.

Override for TTL flash-exposure metering:

± two stops in steps of one-third, simple one-hand control.

Photocell for TTL flash-exposure metering:

Silicon photodiode, next to photocell of exposure meter, protected from stray light in lower part of camera.

Film-speed range for TTL flash-exposure metering:

ISO 12/12° to ISO 3 200/36°.

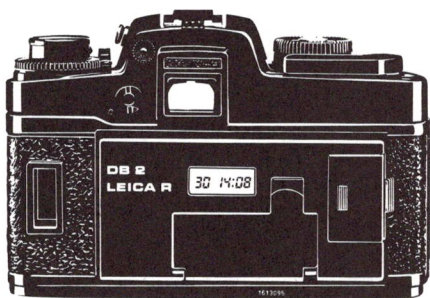
Camera body:

Die-cast aluminium, camera top 1 mm die-cast zinc, bottom panel 0.8 mm brass. Camera back with right-hand thumbhold and film-cartridge window (shows type and speed of film in use), interchangeable with databack. Electric contacts for LEICA R DB 2 databack. Lever at right of lens attachment for visual check of depth of field. Standard 1/4" A thread for tripod screw. Eyelets at sides for carrying strap. Mechanical contact for MOTOR-WINDER R or MOTOR-DRIVE R. Black chromium finish.

Dimensions and weight (excl. lens):

89.1 mm (3 1/2") high, 138.5 mm (5 1/2") long; overall depth 63.5 mm (2 1/2"); weight 625 g (1 lb 6 oz).

DB2 LEICA R databack



The DB2 LEICA R is a quartz- and microprocessor-controlled camera back for printing data on the film during exposure. The version for the LEICA R5/R6 is without a cable.

Useful for film numbering, marking of single or serial exposures and noting the date.

Input and indication:

The data can be input with the use of the three buttons (MODE, ADJ. and SET) and is indicated on a liquid crystal display.

Data printing:

1. Day, hour and minute (24 hour display): with an accuracy of ± 15 s/month at medium temperatures.
2. Date: day - month - year, or
year - month - day, or
month - day - year.
Automatic calendar from 1st Januar 1982 to 31st December 2099.
3. Any numbers up to 999999;
each pair can be replaced by dashes or empty spaces.
4. Picture numbering: in increasing or decreasing order.

When printing is completed, the word "PRINT" appears on the display.

The clock, the automatic calendar and the counter keep on working even without printing.

Data area size on the film:

The whole field is 0.65 x 4.6 mm and appears on the lower right corner of the exposure (for oblong format). The six numbers are arranged into three groups.

Printing method:

Snap switch for two illumination intensity modes according to film speed.

The data is printed onto the film from behind by means of a liquid crystal device (LCD). Depending on the antihalation layer of the film, the data are sometimes very faint or not visible at all with some low-speed films, such as the Kodachrome 25, Kodachrome 64, and Polaroid.

Current supply:

By two adjacent silver oxide button cells (as for LEICA R), sufficient for more than 100 films. Warning signal on the display when battery is too weak.

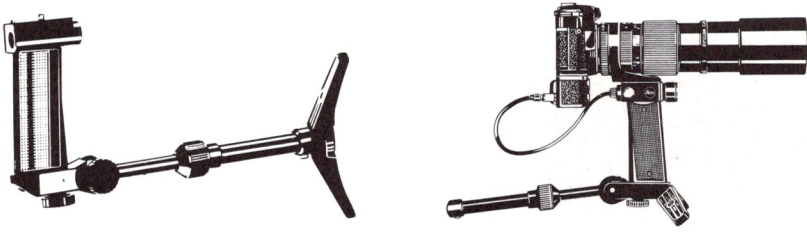
Miscellaneous:

Film cartridge viewing window.

Dimensions and weight:

approx. 138.5 x 54 x 29.5 mm; approx. 60 g without batteries.

Universal handgrip with shoulder stock



The universal handgrip with shoulder stock makes it easier to hold the camera steady and can be used as a small tripod. It is part of the standard equipment of the 400 mm TELYT-R f/6.8 and 560 mm TELYT-R f/6.8 follow-focus lenses.

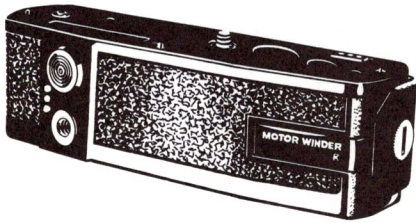
It is recommended also in conjunction with the 250 mm TELYT-R f/4, the 280 mm APO-TELYT-R f/2.8, the 350 mm TELYT-R f/4.8, and the Focusing Bellows R, both without and with the Motor-Winder or Motor-Drive rapid winders.

With motorized operation of the LEICA R4/R5/R6 the electric release switch (Code No. 14 237), available as an accessory, facilitates operation. The camera is then released on the handgrip. With a twin cable release (Code No. 16 494) the preset automatic diaphragm is also operated in the Focusing Bellows R.

A special carrying strap with antislip pad (Code No. 14 130), which can be attached to the universal handgrip with shoulder stock, is offered as an accessory for heavy equipment. For transport the universal handgrip with shoulder stock can be folded to form a compact, easily stored unit.

Universal handgrip and shoulder stock are adjustable to produce a comfortable fit. The shoulder stock can be detached and fixed to the handgrip to form a mini-tripod.

MOTOR-WINDER R



Type of instrument:

Compact motor winder for film transport and shutter wind. Extremely quiet operation through low-noise unwinding gear with load-controlled force locking.

Frame frequency:

Up to two frames per second.

For use on:

LEICA R 4 / R 5 / R 6 models. The motor winder automatically takes over the current supply of the camera.

The motor-winder can be used with all programs.

Current supply:

By six commercially available 1.5 v alkali manganese batteries or 6 NiCd rechargeable batteries, e. g. 501 RS of Varta AG in an easily interchangeable battery housing. Capacity: about 150 films of 36 exposures at 20°C.

During recharging, the batteries remain in the battery housing with the holder for the MW-R battery housing (see Page 1 - 14).

External power supply:

Via an adapter for MW-R external power supply 14 278 (see Page 1 - 13).

Operation:

The camera / motor-winder combination is switched on either when the slack is taken off the camera release button or by tapping the release switch on the motor winder. Operation is made easier by a practical handgrip with two release buttons, available as an accessory.

Important: When the winder is in operation, the rapid-wind lever of the camera must be in the parked position.

Release possibilities on the MOTOR-WINDER:

Series release with release switch on MOTOR-WINDER, with handgrip or via socket for remote release.

Series exposures are made as long as the above-mentioned release buttons are being pressed, or control pulses transmitted.

Release possibilities on the camera:

Single-frame release or single-frame exposures with measured value storage with selective measurement. When the finger is taken off the release button after the exposure, the film will automatically be transported and the shutter wound.

Intermediate camera release and manual winding are still possible when the motor-winder is attached.

Possible shutter speeds:

All automatically computed or manually set shutter speeds and the "X" and "100" settings.

Multiple exposures:

Possible with single-frame or series release.

Acoustic warning signal against inadvertent multiple exposures.

Automatic switch-off:

When the required battery performance is no longer reached or when the frame counter is at 36 (end of film). Film transport and shutter wind can be carried out with the rapid wind lever.

Winder body:

Die-cast magnesium. The coupling and connecting elements between the camera and the winder are covered or protected on the bottom of the camera and the top of the winder. Locating pins simplify attachment to the bottom of the camera. Winder connected via a screw with a hinged toggle with the tripod bush of the camera. Exact orientation for attachable handgrip. Contact strip for release via handgrip.

DC micro-motor drive with air-core motor. Electronic control: Hybrid integrated Circuit (HIC) in CMOS technology. Electric release switch with protective ring on the front of the winder.

Convenient rapid change with locking button for battery housing.

Two A ¼ tripod threads, chiefly for attaching the tripod holder 14 284 (accessory).

Button for multiple exposures and for releasing the rewind.

Socket ¹⁾ for RC LEICA R electronic control unit and other electric releases (see range of accessories).

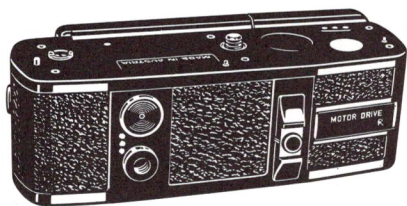
Weights and dimensions:

Height 40 mm, length 140 mm, depth 50 mm (depth of housing alone 46 mm).

Weight without batteries 0.225 kg, with batteries 0.400 kg.

¹⁾ The 5-pin coupling plug 302-013.154-004 is suitable, available from Leica Service Center.

MOTOR-DRIVE R



Type of instrument:

Compact motor-drive for film transport and shutter wind. Quiet operation through special gear construction.

Frame frequencies:

Series releases of 4 fps, 2 fps and single-frame release, switchable.

For use on:

LEICA R4/R5/R6 models. The MOTOR-DRIVE automatically takes over the current supply of the camera.

The MOTOR-DRIVE can be used with all programs.

Current supply:

By ten commercially available 1.5 v alkali manganese batteries or 10 NiCd rechargeable batteries, e.g. 501 RS of Varta AG in an easily interchangeable battery housing. Capacity: about 150 films with 36 exposures at 20 °C.

During recharging, the batteries remain in the battery housing, which has sockets for the connection of a charger (see page 1 - 18).

External power supply:

Via an adapter for MD-R external power supply 14 323 (see Page 1 - 17).

Operation:

The camera / MOTOR-DRIVE combination is switched on either when the slack is taken off the camera release button or by tapping the release switch on the MOTOR-DRIVE.

Operation is made easier by a practical handgrip with two release buttons, available as an accessory.

The MOTOR-DRIVE is switched to 4 fps and 2 fps series releases and single-frame release with a slider. This can also be done during exposure.

Important: When the Drive is in operation, the rapid-wind lever of the camera must be in the parked position.

Release possibilities on the MOTOR-DRIVE:

Series and single-frame release with release switch on MOTOR-DRIVE, with handgrip or via socket for remote release.

Series exposures are made as long as the above-mentioned release buttons are being pressed, or control pulses transmitted.

Release possibilities on the camera:

Single-frame release or single-frame exposures with measured value storage with selective measurement. When the finger is taken off the release button after the exposure, the film will automatically be transported and the shutter wound. Intermediate camera release and manual winding are still possible when the Motor-Drive is attached.

Possible shutter speeds:

All automatically computed or manually set shutter speeds and the "X" and "100" settings.

Multiple exposures:

Possible with single-frame or series release.
Acoustic warning signal against inadvertent multiple exposures.

Automatic switch-off:

When the required battery performance is no longer reached or when the frame counter is at 36 (end of film). Film transport and shutter wind can be carried out with the rapid wind lever.

Drive body:

Die-cast magnesium. The coupling and connecting elements between the camera and the Drive are covered or protected on the bottom of the camera and the top of the Drive.

Locating pins simplify attachment to the bottom of the camera. Drive connected via a screw with a hinged toggle with the tripod bush of the camera. Exact orientation for attachable handgrip. Contact strip for release via handgrip.

DC micro-motor drive with air-core rotor. Electronic control: Hybrid Integrated Circuit (HIC) in CMOS technology. Electric release switch with protective ring on the front of the Drive.

Convenient rapid change with locking button for battery housing.

Two A 1/4 tripod threads, (1/4") chiefly for attaching the tripod holder 14 284 (accessory).

Button for multiple exposures and for releasing the rewind.

Easy-operation slider on the front of the drive, switches to 4 fps, 2 fps or single-frame. Socket ¹⁾ for RC LEICA R electronic control unit and other electric releases (see range of accessories).

Weights and dimensions:

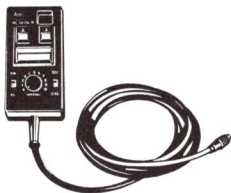
Height 45 mm, length 140 mm, depth 61 mm (depth of housing alone 55.5 mm).

Weight without batteries 0.320 kg, with batteries 0.620 kg.

¹⁾ The 5-pin coupling plug 302-013.154-004 is suitable, available from Leica Service Center.

RC LEICA R

Electronic Control Unit



Type of instrument:

Electronic control unit for remote release.
Built-in timing pulse generator for automatic releases.
Seven integrated circuits (IC) in C-MOS technology.
Digital display after the exposure through feedback from the camera.
Exclusively for the LEICA R with motorized film transport.

Housing:

Bolted plastic moulded parts.
All controls and function displays are easily accessible and lucidly arranged on the top.
Appliance cable, length 2 m, with screw-on coupling plug for the socket on the MOTOR-WINDER R / MOTOR-DRIVE R.
Brief instructions on the back of the instrument.

Functions:

Broad push-button (☐) for single-frame and series release.
Digital display of the exposures made through 9 mm high, 2-digit, 7-segment display in red. The segments light up for about 2 seconds after each exposure.
Reading key (⊥) for indicating the number of exposures made at any time.
After a touch, the digital display lights up for about two seconds.
Input key (⊥) for correction of the digital displays, if some exposures have already been made without the RC LEICA R (only when the slider switch is set at "TEST"). The digital display is zeroed by simultaneous operation of the reading and input keys (⊥ + ⊥).
Rotary Interval switch for automatic single-frame releases at variable time intervals.
Operation display through decimal point of the digital lighting up on the left.
Slider switch "x1/x10" for 2 interval ranges:
The switchover to "x1" and "x10" is digital and therefore highly accurate:
Position "x1" = 1 exposure/0.5 sec. - about 1 exposure/1 min.
Position "x10" = about 1 exposure/5 sec. - about 1 exposure/10 min.
Slider switch "LEICA/TEST" for various functions.
Position "LEICA" = camera is released with push-button or interval switch.
Position "TEST" = release functions blocked.

The interval can be programmed with the aid of a rotary switch.
The release pulse is signalled by the lighting up to the righthand decimal point of the digital display, but the camera is not being released. Time intervals can thereby be determined accurately.
After the switchover from "TEST" to "LEICA" the camera will be released at the preselected interval.

Range with extension cables (14 274): up to 100 m.

Dimensions and weight:

Height 120 mm, width 60 mm, depth 30 mm,
weight including cable 220 g.

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| Leather case | | |

The range of LEICA R lenses

| Description | Speed | Focal length in mm | Filter dia. | Code No. |
|---|-------|-----------------------|--------------------|----------|
| SUPER-ELMAR-R | f/3.5 | 15 | built-in | 11 213 |
| FISHEYE-ELMARIT-R | f/2.8 | 16 | built-in | 11 222 |
| ELMARIT-R | f/2.8 | 19 | - | 11 225 |
| SUPER-ANGULON-R | f/4 | 21 | S 8.5 | 11 813 |
| ELMARIT-R | f/2.8 | 24 | S 8 | 11 221 |
| ELMARIT-R | f/2.8 | 28 | S 7 | 11 247 |
| PC-SUPER-ANGULON-R | f/2.8 | 28 | 67 EW | 11 812 |
| SUMMILUX-R | f/1.4 | 35 | E 67 | 11 143 |
| SUMMICRON-R | f/2 | 35 | E 55 | 11 115 |
| ELMARIT-R | f/2.8 | 35 | E 55 | 11 251 |
| PA-CURTAGON-R | f/4 | 35 | S 8 | 11 202 |
| SUMMILUX-R | f/1.4 | 50 | E 55 | 11 777 |
| SUMMICRON-R | f/2 | 50 | E 55 | 11 216 |
| MACRO-ELMARIT-R | f/2.8 | 60 | E 55 | 11 253 |
| SUMMILUX-R | f/1.4 | 80 | E 67 | 11 881 |
| SUMMICRON-R | f/2 | 90 | E 55 | 11 254 |
| ELMARIT-R | f/2.8 | 90 | E 55 | 11 154 |
| APO-MACRO-ELMARIT-R | f/2.8 | 100 | E 60 | 11 210 |
| MACRO-ELMAR-R | f/4 | 100 | E 55 | 11 232 |
| MACRO-ELMAR ¹⁾ | f/4 | 100 | E 55 | 11 230 |
| ELMARIT-R | f/2.8 | 135 | E 55 | 11 211 |
| ELMARIT-R | f/2.8 | 180 | E 67 | 11 923 |
| APO-TELYT-R | f/3.4 | 180 | E 60 | 11 242 |
| ELMAR-R | f/4 | 180 | E 55 | 11 922 |
| TELYT-R | f/4 | 250 | E 67 | 11 925 |
| APO-TELYT-R | f/2.8 | 280 | E 112 | 11 245 |
| TELYT-R | f/4.8 | 350 | E 77 | 11 915 |
| TELYT-R | f/6.8 | 400 | S 7 | 11 953 |
| MR-TELYT-R | f/8 | 500 | E 77 ²⁾ | 11 243 |
| TELYT-R | f/6.8 | 560 | S 7 | 11 853 |
| TELYT-S | f/6.3 | 800 | S 7 | 11 921 |
| VARIO-ELMAR-R | f/3.5 | 35 - 70 | E 67 | 11 248 |
| VARIO-ELMAR-R | f/4 | 70 - 210 | E 60 | 11 246 |
| Extender R Accessories for LEICA R lenses Filters, lens hoods | | | | |

¹⁾ for Focusing Bellows R only

²⁾ 5 special filters from part of the outfit.

15 mm SUPER-ELMAR-R f/3.5

for the LEICA R models (all modes)
LEICAFLEX SL 2 models



Fast lens of extremely wide angle of view

Angle of view: 110°

Number of elements: 13 (12 components)

Floating elements correct optical aberrations

Built-in turret with four filters:

UVa, yellow, orange, blue (conversion filter)

Fully automatic preset diaphragm with clickstops

(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0.16 m (6 in)

Smallest object field: 70 x 106 mm (27 x 42 in) (about 1:3)

Focusing ring rubber-covered

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on lens hood

Lens cap dia.: 83.5 mm

Length from bayonet flange: 92.5 mm

Diameter: 83.5 mm

Weight: 0.815 kg

Code No.

15 mm SUPER-ELMAR-R f/3.5

with lens hood, lens cap and rear cover

11 213 _____

(Replacement lens cap, see page 2 - 37)

16 mm FISHEYE-ELMARIT-R f/2.8

for LEICA R models (preferably with aperture priority and manual mode)¹⁾
LEICAFLEX SL 2 models



Fisheye lens for special pictorial effects

Angle of view: 180°

Number of elements: 11 (8 components)

Built-in turret with 4 filters:

UVa, yellow, orange, blue 80 B (conversion)

Fully automatic preset diaphragm

with clickstops (including half values)

Smallest aperture: f/16

Combined meter/feet scale

Focusing range: ∞ to 0,30 m (12 in)

Smallest object field: 401 x 601 mm (15.8 x 23.8 in)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on lens hood

Lens cap dia.: 65 mm

Length from bayonet flange: 60 mm

Diameter: 71 mm

Weight: 0.470 kg

Code No.

16 mm FISHEYE-ELMARIT-R f/2.8

with built-on lens hood, lens cap and rear cover

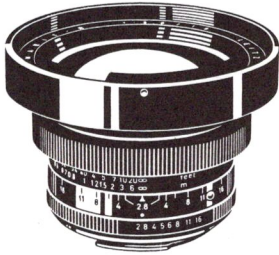
11 222 _____

(Replacement lens cap, see page 2 - 37)

¹⁾ In LEICA R cameras with shutter priority and automatic program, the viewfinder symbols for these two modes may continue to flash even when the 16 mm Fisheye-Elmarit-R f/2.8 is set to its smallest aperture of f/16. This does not affect the camera functions, but is due to the camera's design. We therefore recommend using aperture priority and setting the shutter speed manually.

19 mm ELMARIT-R f/2.8

for LEICA R models (preferably with aperture priority and manual mode)¹⁾
LEICAFLEX SL / SL 2 models



Fast ultra-wide-angle lens

Angle of view: 95.7°

Number of elements: 9 (7 components)

Internal thread: M 82 x 0.75²⁾

Fully automatic preset diaphragm
with clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.30 m (12 in)

Smallest object field: 261 x 392 mm (10.3 x 15.4 in) (about 1 : 10)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Lockable lens hood

Lens cap dia.: 88 mm

Length from bayonet flange: 60 mm

Diameter: 88 mm

Weight: 0.500 kg

Code No.

19 mm ELMARIT-R f/2.8

with lens hood, lens cap and rear cover.....

11 225 _____

(Replacement lens hood, lens cap and rear cover see page 2 - 37)

¹⁾ In LEICA R cameras with shutter priority and automatic program, the viewfinder symbols for these two modes may continue to flash even when the 19 mm Elmarit-R f/2.8 is set to its smallest aperture of f/16. This does not affect the camera functions, but is due to the camera's design. We therefore recommend using aperture priority and setting the shutter speed manually.

²⁾ We advise against the use of filters.

21 mm SUPER-ANGULON-R f/4

for LEICA R models (all modes)
LEICAFLEX SL / SL 2 models



Wide-angle lens of extremely wide angle of view

Angle of view: 92°

Number of elements: 10 (8 components)

Filter size: special 8.5 series, attachment with lens hood

Internal thread: M 72 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0.20 m (8 in)

Smallest object field: 148 x 221 mm (6 x 8 3/4" approx.) (about 1:6)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Lens hood lockable, also adapter for Series 8.5 filters

Lens cap dia.: 75 mm

Length from bayonet flange: 43.5 mm

Diameter: 78 mm

Weight: 0.410 kg

Code No.

21 mm SUPER-ANGULON-R f/4

with lens hood, lens cap and rear cover.....

11 813 _____

(Replacement lens hood, lens cap, rear cover and accessories
see page 2 - 37)

24 mm ELMARIT-R f/2.8

for LEICA R models (all modes)
LEICAFLEX SL 2 models



Lens of very wide angle of view

Angle of view: 84°

Number of elements: 9 (7 components)

Floating elements correct optical aberrations

Filter size: series 8 (attached with lens hood)

Internal thread: M 60 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0.30 m

Non-rotating focusing mount

Smallest object field: 250 x 374 mm (10 x 15 in) (about 1 : 10.5)

LEICA R rapid bayonet changer

Black finish

Lens hood lockable, also adapter for Series 8 filters

Lens cap dia.: 63.7 mm

Length from bayonet flange: 48.5 mm

Diameter: 67 mm

Weight: 0.420 kg

Code No.

24 mm ELMARIT-R f/2.8

with lens hood, lens cap and rear cover

11 221 _____

(Replacement lens hood, lens cap, rear cap, and accessories
see from page 2 - 37)

28 mm ELMARIT-R f/2.8

for LEICA R models (all modes)¹⁾



Wide-angle lens

Angle of view: 76°

Number of elements: 8 (8 components)

Filter size: 7 (attached with lens hood)

Internal thread: M 48 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0,30 m

Non-rotating focusing mount

Smallest object field: 188 x 282 mm (7.5 x 11.3 in) (about 1:8)

LEICA R rapid bayonet changer

Black finish

Lens hood lockable, also adapter for Series 7 filters

Lens cap dia.: 51 mm

Length from bayonet flange: 40 mm

Diameter: 63 mm

Weight: 0.275 kg

Code No.

28 mm ELMARIT-R f/2.8

with lens hood, lens cap and rear cover

11247 _____

(Replacement lens hood, lens cap, rear cover and accessories
see page 2 - 37)

¹⁾ The Leica Service Centre or the authorized workshop of any Leica agency can modify this lens for use also on all LEICAFLEX cameras.

28 mm PC-SUPER-ANGULON-R f/2,8

for LEICA R models (aperture priority and manual mode)

LEICAFLEX SL / SL 2 models



Wide-angle lens for perspective correction without automatic diaphragm

Offset of optical axis:

11 mm horizontally and vertically in any direction,

9,5 mm diagonally in any direction

Radial offset: Four click-stop settings,

one each for landscape and portrait formats (horizontal, vertical)

and two offset 45° to these (diagonal)

Image angle: 73° to 93°

Number of lenses: 12 elements (10 components)

Aberration correction: By floating elements

Filter size: 67 EW (filter glass for special angled filter holder and lens hood available from B + W Filterfabrik, Postfach 24 63, D-6550 Bad Kreuznach, and its distributors)

Internal thread: M 67 x 0.75

Aperture click stops: At half-stop intervals

Preselector iris diaphragm

Smallest stop: f/22

Focusing ring: Metre / feet readings

Focusing range: 0.30 m (1ft) to ∞

Smallest object field: 219 mm x 146 mm (about 1 : 6)

Straight-line track

LEICA R quick-change bayonet coupling

Lens barrel: Black anodized

Lens hood: Screw-in type,

also doubles as special 67 EW filter holder

Diameter of front lens: 70 mm

Length of bayonet coupling: 84 mm

Maximum diameter: 75 mm

Weight: 0.565 kg (11 b 4 oz)

Code No.

28 mm f/2.8 PC-SUPER-ANGULON-R

with lens hood, lens cap and rear cover.....

11 812 _____

35 mm SUMMILUX-R f/1.4

for LEICA R models (all modes)
LEICAFLEX SL 2 models



Ultra-high-speed wide-angle lens

Angle of view: 64°

Number of elements: 10 (9 components)

Floating elements correct optical aberrations

Filter size: E 67

Internal thread: M 67 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.50 m

Smallest object field: 266 x 399 mm (10.4 x 15.7 in) (about 1:11)

Rubber-coated focusing ring

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 75 mm

Length from bayonet flange: 76 mm

Diameter: 75 mm

Weight: 0.660 kg

Code No.

35 mm SUMMILUX-R f/1.4

with lens hood, lens cap and rear cover.....

11 143 _____

(Replacement lens hood, lens cap, rear cover and accessories
see page 2-37)

35 mm SUMMICRON-R f/2

for LEICA R models (all modes)
LEICAFLEX models



High-speed wide-angle lens

Angle of view: 64°

Number of elements: 6 (6 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0,30 m (12 in)

Smallest object field: 140 x 210 mm (5.5 x 8.3 in) (about 1 : 6)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 63 mm

Length from bayonet flange: 54 mm

Diameter: 66 mm

Weight: 0.422 kg

Code No.

35 mm SUMMICRON-R f/2

with lens hood, lens cap and rear cover.....

11 115 _____

(Replacement lens cap, rear cover, and accessories see page 2-37)

35 mm ELMARIT-R f/2.8

for LEICA R models (all modes) ¹⁾



Wide-angle lens

Angle of view: 64°

Number of elements: 7 (6 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Fully automatic preset diaphragm with clickstop
(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0,30 m (12 in)

Smallest object field: 140 x 210 mm (5 1/4 x 8 1/2 in) (ca. 1 : 6)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 63 mm

Length from bayonet flange: 41.5 mm

Diameter: 66 mm

Weight: 0.305 kg

Code No.

35 mm ELMARIT-R f/2.8

with lens hood, lens cap and rear cover

11 251 _____

(Replacement lens hood, lens cap and rear cover see page 2 - 37)

¹⁾ The Leica Service Centre or the authorized workshop of any Leica agency can modify this lens for use also on all LEICAFLEX cameras.

35 mm PA-CURTAGON-R f/4

for LEICA R models (preferably with aperture priority and manual mode)¹
LEICAFLEX SL / SL 2 models



Wide-angle lens without preset diaphragm without perspective compensation

Displacement from the optical axis: 7 mm in each direction

Radial adjustment: clickstops at 90° intervals

Angle of view: 64° - 78°

Number of elements: 7 (6 components)

Filter size: 8, attachment through lens hood

Internal thread: M 60 x 0.75

Clickstops

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0.30 m (12 in)

Smallest object field: 140 x 210 mm (5.5 x 8.3 in) (about 1 : 6)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish, with bright decorative ring

Locking lens hood, also adapter for Series 8 filters

Lens cap dia.: 63.7 mm

Length from bayonet flange: 51 mm

Diameter: 70 mm

Weight: 0.290 kg

Code No.

35 mm PA-CURTAGON-R f/4

with lens hood, lens cap and rear cover.

11 202 _____

(Replacement lens hood, lens cap rear cover, and accessories
see page 2 - 37)

50 mm SUMMILUX-R f/1.4

for LEICA R models (all modes)¹⁾



Ultra-high-speed lens

Angle of view: 45°

Number of elements: 7 (6 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.50 m (20 in)

Smallest object field: 180 x 270 mm (7.1 x 10.6 in) (about 1:7.5)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 63 mm

Length from bayonet flange: 50.6 mm

Diameter: 66.5 mm

Weight: 0.395 kg

Code No.

50 mm SUMMILUX-R f/1.4

with lens hood, lens cap and rear cover.....

11 777 _____

(Replacement lens cap, rear cover and accessories see page 2-37)

¹⁾ The Leica Service Centre or the authorized workshop of any Leica agency can modify this lens for use also on all LEICAFLEX cameras.

50 mm SUMMICRON-R f/2

for LEICA R models (all modes)



High-speed universal lens

Angle of view: 45°

Number of elements: 6 (4 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.50 m (20 in)

Smallest object field: 180 x 270 mm (7.5 x 10.75 in) (about 1 : 7.5)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 63 mm

Length from bayonet flange: 41 mm

Diameter: 66 mm

Weight: 0.300 kg

Code No.

50 mm SUMMICRON-R f/2

with lens hood, lens cap and rear cover. **11 216** _____

(Replacement lens cap, rear cover and accessories see page 2 - 37)

ELPRO achromats near-focusing attachment for same

ELPRO 1 16 541 _____

ELPRO 2 16 542 _____

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

| Lens | ELPRO | Distance scale at | Distance in cm | | Object field size in mm | Reproduction scale |
|-----------------------|-------|-------------------|----------------|----------------------|-------------------------|--------------------|
| | | | object to film | object to front lens | | |
| SUMMICRON-R f/2/50 mm | 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 |

All values rounded off.

60 mm MACRO-ELMARIT-R f/2.8

for LEICA R models (all modes) ¹⁾



Universal lens for photography in the range from ∞ to 1:1 reproduction scale
 Angle of view: 39°
 Number of elements: 6 (5 components)
 Filter size: E 55
 Internal thread: M 55 x 0.75
 Fully automatic preset diaphragm, also with MACRO-Adapter-R, with clickstops (also half values)

Smallest aperture: f/22
 Combined metre/feet scale, reproduction scale are also engraved
 Focusing range: ∞ to 27 cm (10.8 in)
 free working distance: 15 cm (6 in) with MACRO-ADAPTER-R:
 27 to 24 cm (10.8 to 9.5 in)
 free working distance:
 15 to 10 cm (6 to 4 in)
 Smallest object field:
 48 x 72 mm (1.9 x 2.9 in) (1:2)
 with MACRO-ADAPTER-R:
 24 x 36 mm (0.95 x 1.5 in) (1:1)
 Non-rotating focusing mount
 LEICA R rapid bayonet changer
 Black finish
 Built-on, lens hood
 Lens cap dia.: 63 mm
 Length from bayonet flange: 62.3 mm
 Diameter: 67.5 mm
 Weight: 0.390 kg
 MACRO-ADAPTER-R:
 length: 30 mm
 diameter: 62 mm
 weight: 0.130 kg

60 mm MACRO-ELMARIT-R f/2.8

with lens hood, lens cap and rear cover

Code No.

11 253 _____

MACRO-ADAPTER-R ²⁾

14 256 _____

for use with aperture priority and manual setting of shutter speed and aperture on LEICA R cameras

Covers for the MACRO-ADAPTER-R:

Front cover (camera body cover)

14 103 _____

Rear cover (same as for lenses)

14 162 _____

(Replacement lens cap, rear cover and accessories see page 2 - 37)

¹⁾ The Leica Service Centre or the authorized workshop of any Leica agency can modify this lens for use also on all LEICAFLEX cameras.

²⁾ MACRO-ADAPTER-R cannot be modified for use on LEICAFLEX / SL / SL 2 cameras.

80 mm SUMMILUX-R f/1.4

for LEICA R models (all modes)¹⁾



Ultra-high-speed lens of long focal length

Angle of view: 30°

Number of elements: 7 (5 components)

Filter size: E 67

Internal thread: M 67 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.80 m (31 in)

Smallest object field: 192 x 288 mm (175 x 113 in) (about 1:8)

Rubber-covered focusing mount

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 75 mm

Length from bayonet flange: 69 mm

Diameter: 75 mm

Weight: 0.670 kg

Code No.

80 mm SUMMILUX-R f/1.4

with lens hood, lens cap and rear cover.....

11881 _____

(Replacement lens hood, lens cap, rear cover and accessories
see page 2-37)

¹⁾ Cannot be modified.

90 mm SUMMICRON-R f/2

for LEICA R models (all modes) ¹⁾



High-speed reportage lens

Angle of view: 27°

Number of elements: 5 (4 components)

Filter size: E 55

Internal thread: M 55 x 0.75²⁾

Fully automatic preset diaphragm with clickstops

(including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.70 m (28 in)

Smallest object field: 140 x 210 mm (5.5 x 8.3 in) (about 1 : 6)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 67 mm

Length from bayonet flange: 61 mm

Diameter: 69 mm

Weight: 0.560 kg

Code No.

90 mm SUMMICRON-R f/2

with lens hood, lens cap, and rear cover

11 254 _____

(Replacement lens cap, rear cover and accessories see page 2 - 37)

ELPRO (achromat) near-focusing attachment

ELPRO 3

16 543 _____

Leather case for near-focusing attachment

14 553 _____

| Lens | ELPRO | Distance scale at | Distance in cm | | Object field size in mm | Reproduction scale |
|-----------------------|-------|-------------------|----------------|----------------------|-------------------------|--------------------|
| | | | object to film | object to front lens | | |
| SUMMICRON-R f/2/90 mm | 3 | ∞ | 74 | 61 | 161 x 241 | 1 : 6.7 |
| | | 0.7 | 44 | 30 | 72 x 108 | 1 : 3.0 |

All values rounded off.

¹⁾ The Leica Service Center or the authorized workshop of any Leica agency can modify this lens for use also on all LEICAFLEX cameras.

²⁾ Internal thread of lens M 54 x 0.75 mm up to serial number 2770950.

90 mm ELMARIT-R f/2.8

for LEICA R models (all modes)¹⁾



Universal lens of medium focal length

Angle of view: 27°

Number of elements: 4 (4 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Fully automatic preset diaphragm, with clickstops
(also half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0.70 m (28 in)

Smallest object field: 140 x 210 mm (5.5 x 8.3 in) (about 1 : 6)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 63 mm

Length from bayonet flange: 57 mm

Diameter: 67 mm

Weight: 0.475 kg

Code No.

90 mm ELMARIT-R f/2.8

with lens hood, lens cap and rear cover **11 154** _____

(Replacement lens cap, rear cover and accessories see page 2 - 37)

ELPRO (achromat) near-focusing attachment

ELPRO 3 16 543 _____

Leather case for near-focusing attachment 14 553 _____

| Lens | ELPRO | Distance scale at | Distance in cm | | Object field size in mm | Reproduction scale |
|-----------------------|-------|-------------------|----------------|----------------------|-------------------------|--------------------|
| | | | object to film | object to front lens | | |
| ELMARIT-R f/2.8/90 mm | 3 | ∞ | 74 | 61 | 161 x 241 | 1 : 6.7 |
| | | 0.7 | 44 | 30 | 72 x 108 | 1 : 3.0 |

All values rounded off.

¹⁾ The Leica Service Center or the authorized workshop of any Leica agency can modify this lens for use also on LEICAFLEX SL and SL 2 cameras.

100 mm APO-MACRO-ELMARIT-R f/2.8

for LEICA R models (all modes)
LEICAFLEX SL / SL 2 models



Universal lens of medium focal length for photography from ∞ to the near focusing range (1:2) and correction for extended spectral range

Angle of view: 25°

Number of elements: 8 (6 components)

Filter size: E 60

Internal thread: M 60 x 0.75

Fully automatic preset diaphragm with clickstops (including half values)

Smallest aperture: f/22

Combined metre/feet scale up to 0.7 m reproduction ratios engraved from 1:5 to 1:2

Focusing range: ∞ to 0.45 m

free working distance:
(repr. ratio 1:2) = 22 cm

with ELPRO 1:2-1:1 (as accessory):
free working distance:
(repr. ratio 1.1:1) = 7.2 cm

Smallest object field:
48 x 72 mm (about 1:2)

with ELPRO 1:2-1:1 (as accessory):
22 x 33 mm (1.1:1)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 68 mm

Length from bayonet flange: 104.5 mm

Diameter: 73 mm

Weight: 0.840 kg

Code No.

100 mm APO-MACRO-ELMARIT-R f/2.8

with lens hood, lens cap and rear cover **11 210** _____

(Replacement lens cap, rear cover and accessories see page 2-37)

ELPRO 1:2-1:1 near focusing attachment

for 100 mm APO-MACRO-ELMARIT-R f/2.8

ELPRO 1:2-1:1

with lens hood, lens cap and rear cover **16 545** _____

replacement lens hood 12 528 _____

replacement lens cap 14 290 _____

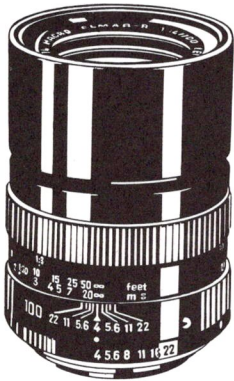
replacement rear cover 14 251 _____

STA 1 tripod adapter

for attaching the 100 mm APO-MACRO-ELMARIT-R f/2.8
to a tripod or to the universal handgrip **14 636** _____

100 mm MACRO-ELMAR-R f/4

for LEICA R models (all modes)
LEICAFLEX SL / SL 2 models



MACRO-ADAPTER-R:
length: 30 mm
diameter: 62 mm
weight: 0.130 kg

Universal lens of medium focal length for work from ∞ to the near-focusing range (reproduction scale 1:1.6)

Angle of view: 25°

Number of elements: 4 (3 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Fully automatic preset diaphragm, also with MACRO-ADAPTER-R, with clickstops (including half values)

Smallest aperture: f/22

Combined metre/feet scale, reproduction scales are also engraved

Focusing range: ∞ to 60 cm (24 in)

free working distance: 39 cm (15.3 in)

with MACRO-ADAPTER-R:

60 to 42 cm (24 to 16.5 in)

free working distance:

39 to 25 cm (15.5 to 10 in)

Smallest object field:

72 x 108 mm (2.8 x 4.3 in) (about 1:3)

with MACRO-ADAPTER-R:

38 x 57 mm (1.5 x 2.2 in) (about 1:1.6)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 63 mm

Length from bayonet flange: 90 mm

Diameter: 67.5 mm

Weight: 0.540 kg

Code No.

100 mm MACRO-ELMAR-R f/4

with lens hood, lens cap and rear cover.....

11 232 _____

MACRO-ADAPTER-R.....

14 256 _____

for use with aperture priority and manual setting of shutter speed and aperture on LEICA R cameras*)

Covers for the MACRO-ADAPTER-R:

Front cover (camera body cover)

14 103 _____

Rear cover (same as for lenses)

14 162 _____

(Replacement lens cap, rear cover and accessories see page 2-37)

ELPRO (achromats) near-focusing attachments

ELPRO 3

16 543 _____

ELPRO 4

16 544 _____

Leather case for one near-focusing attachment

14 553 _____

(Attainable reproduction ratios see page 3-4)

*) On the LEICAFLEX SL / SL 2 models the near focusing ring, Code No. 14 262 is necessary.

135 mm ELMARIT-R f/2.8

for LEICA R models (all modes)
LEICAFLEX models



Telephoto lens
 Angle of view: 18°
 Number of elements: 5 (4 components)
 Filter size: E 55
 Internal thread: M 55 x 0.75*
 Fully automatic preset diaphragm with clickstops (including half values)
 Smallest aperture: f/22
 Combined metre/feet scale
 Focusing range: ∞ to 1.50 m (5 ft)
 Smallest object field:
 220 x 330 mm (8.7 x 13.0 in) (about 1:9)
 Non-rotating focusing mount
 LEICA R rapid bayonet changer
 Black finish
 Built-on, telescopic lens hood
 Lens cap dia.: 65 mm
 Length from bayonet flange: 93 mm
 Diameter: 67 mm
 Weight: 0.730 kg

Code No.

135 mm ELMARIT-R f/2.8

with lens hood, lens cap and rear cover **11211** _____
 (Replacement lens cap, rear cover and accessories see page 2-37)

ELPRO (achromats) near-focusing attachments

ELPRO 3 16543 _____
 ELPRO 4 16544 _____
 Leather case for one near-focusing attachment 14553 _____

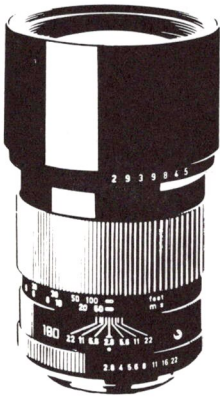
| Lens | ELPRO | Distance scale at | Distance in cm | | Object field size in mm | Reproduction scale |
|------------------------|-------|-------------------|----------------|----------------------|-------------------------|--------------------|
| | | | object to film | object to front lens | | |
| ELMARIT-R f/2.8/135 mm | 4 | ∞ | 150 | 135 | 237 x 355 | 1:9.9 |
| | | 1.5 | 84 | 68 | 106 x 159 | 1:4.4 |
| | 3 | ∞ | 76 | 61 | 107 x 160 | 1:4.5 |
| | | 1.5 | 58 | 42 | 66 x 99 | 1:2.8 |

All values rounded off.

*) up to No. 2.772 618 internal thread of lens M 54 x 0.75

180 mm ELMARIT-R f/2.8

for LEICA R models (all modes)
LEICAFLEX models



High-speed telephoto lens

Angle of view: 14°

Number of elements: 5 (4 components)

Filter size: E 67

Internal thread: M 67 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: 22

Combined metre/feet scale

Focusing range: ∞ to 1.80 m (6 ft)

Smallest object field: 193 x 290 mm (7.6 x 11.4 in) (about 1 : 8)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 75 mm

Length from bayonet flange: 121 mm

Diameter: 75 mm

Weight: 0.825 kg

Code No.

180 mm ELMARIT-R f/2.8

with lens hood, lens cap and rear cover

11 923 _____

(Replacement lens cap, rear cover and accessories see page 2-37)

180 mm APO-TELYT-R f/3.4

for LEICA R models (all modes)
LEICAFLEX models



Special lens of extended spectral range

Angle of view: 14°

Number of elements: 7 (4 components)

Filter size: E 60

Internal thread: M 60 x 0.75 *

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 2.50 m (8 ft 4 in)

Smallest object field: 276 x 414 mm (10.9 x 16.3 in) (about 1:11.5)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 66 mm

Length from bayonet flange: 135 mm

Diameter: 68 mm

Weight: 0.750 kg

Code No.

180 mm APO-TELYT-R f/3.4

with lens hood, lens cap and rear cover.....

11 242 _____

(Replacement lens cap, rear cover and accessories see page 2-37)

*) up to No. 2947023 internal thread M 59 x 0.75

180 mm ELMAR-R f/4

for LEICA R models (all modes)
LEICAFLEX models



Handy telephoto lens

Angle of view: 14°

Number of elements: 5 (4 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 1.80 m (6 ft)

Smallest object field: 175 x 262 mm (6.9 x 10.3 in) (about 1 : 7)

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 65 mm

Length from bayonet flange: 100 mm

Diameter: 65.5 mm

Weight: 0.540 kg

Code No.

180 mm ELMAR-R f/4

with lens hood, lens cap and rear cover

11 922 _____

(Replacement lens cap, rear cover and accessories see page 2-37)

250 mm TELYT-R f/4

for LEICA R models (all modes)
LEICAFLEX SL / SL 2 models



Telephoto lens

Angle of view: 10°

Number of elements: 7 (6 components)

Filter size: E 67

Internal thread: M 67 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 1.70 m (12 ft 6 in)

Can be focused beyond ∞

Smallest object field: 124 x 186 mm (4.9 x 7.3 in) (about 1:5.2)

Rubber-covered focusing ring

Non-rotating focusing mount

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Tripod thread: A ¼ (DIN 4503), (¼ in)

tilting for upright and horizontal pictures, clickstops

Leather pouch

Lens cap dia.: 75 mm

Length from bayonet flange: 195 mm

Diameter: 75 mm

Weight: 1.230 kg

Code No.

250 mm TELYT-R f/4

with lens hood, lens cap and rear cover, leather case

11 925 _____

(Replacement lens cap, rear cover, leather case and accessories
see page 2 - 37)

280 mm APO-TELYT-R f/2.8

for LEICA R models (all modes)
LEICAFLEX SL / SL 2 models



High-speed telephoto lens with internal focusing and correction for extended spectral range

Angle of view: 8.5°

Number of elements: 8 (7 components)

Filter size: E 112

Internal thread: M 112 x 1.5

Fully automatic preset diaphragm, with clickstops (including half values except between f/2.8 and f/4)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 2.5 m (6 ft 2 in)

Can be focused beyond ∞

Can be used for infra red exposures without focusing correction

Smallest object field:

195 x 293 mm (7.7 x 11.5 in) (about 1 : 8)

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood with edge protection

Eyelets for attachment of carrying strap

Tripod thread: A ¼, DIN 4503, (¼ in), tilting for upright and horizontal pictures, with clickstops

Pistol stock

Filter ND x E 112 with edge protection

Carrying strap

Case with attachable carrying strap

Lens cap dia.: 125 mm

Length from bayonet flange: 261 mm

Diameter: 125 mm

Weight: 2.750 kg

Code No.

280 mm APO-TELYT-R f/2.8

with lens hood, lens cap and rear cover, pistol stock, filter, carrying strap, and case.....

11 245 _____

(Replacement lens cap, rear cover, pistol stock, filter, carrying strap see page 2-37)

APO-EXTENDER-R 1.4 x

for LEICA R models (all modes)

Code No.

APO-EXTENDER-R 1.4 x

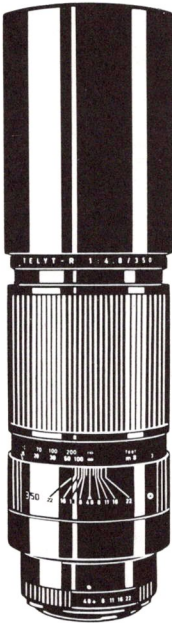
with protective covers.....

11 249 _____

(further details on page 2-36)

350 mm TELYT-R f/4.8

for LEICA R models (all modes)
LEICAFLEX SL / SL 2 models



Telephoto lens
Angle of view: 7°
Number of elements: 7 (5 components)
Filter size: E 77
Internal thread: M 77 x 0.75
Fully automatic preset diaphragm,
with clickstops (including half values)
Smallest aperture: f/22
Combined metre/feet scale
Focusing range: ∞ to 3 m (9 ft 10 in)
Can be focused beyond ∞
Smallest object field:
171 x 257 mm (6.7 x 10.1 in) (about 1 : 7.1)
Rubber-covered focusing ring
Non-rotating focusing mount
LEICA R rapid bayonet changer
Black finish
Built-on, telescopic lens hood
Tripod thread: A ¼, DIN 4503, (¼ in),
tiltable for upright and horizontal
pictures, with clickstops
Leather case
Lens cap dia.: 83.5 mm
Length from bayonet flange: 286 mm
Diameter: 83.5 mm
Weight: 1.820 kg

Code No.

350 mm TELYT-R f/4.8

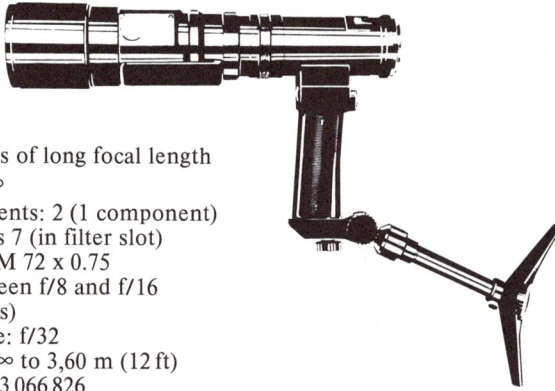
with lens hood, lens cap and rear cover, leather case

11 915 _____

(Replacement lens cap, rear cover, and leather case as well as
accessories see page 2 - 37)

400 mm TELYT-R f/6.8

for LEICA R models (preferably with aperture priority and manual mode)
LEICAFLEX SL / SL 2 models



Follow-focus lens of long focal length
 Angle of view: 6°
 Number of elements: 2 (1 component)
 Filter size: Series 7 (in filter slot)
 Internal thread: M 72 x 0.75
 Clickstops (between f/8 and f/16
 also half values)
 Smallest aperture: f/32
 Focusing range: ∞ to 3.60 m (12 ft)
 From Serial No. 3 066 826
 can be focused beyond ∞
 Follow-focus device (adjustable
 front part of lens with parallel
 guide, push-button to release
 the focusing mechanism)
 Smallest object field:
 158 x 236 mm (6.2 x 9.3 in)
 (about 1 : 6.5)
 Built-on, telescopic lens hood
 Rotatable swivelling device for upright
 and horizontal format with clickstops
 Lens can be dismantled for convenient
 transport

LEICA R rapid bayonet changer
 Slot with cover for Series 7 filters
 Black finish
 Tripod thread: A 1/4 and A 3/8,
 DIN 4503 (1/4 in and 3/8 in)
 Universal handgrip with shoulder stock,
 detachable, can be used as mini
 camera support
 Leather case
 Lens cap dia.: 78 mm
 Length from bayonet flange: 384 mm
 Diameter: 78 mm
 Weight: 1.830 kg

400 TELYT-R f/6.8, consisting of:

| | Code No. |
|--|--------------|
| 400 m TELYT-R f/6.8 lens unit. | 11 903 _____ |
| Lens tube. | 11 906 _____ |
| Universal handgrip with shoulder stock. | 14 239 _____ |
| Leather case. | 14 582 _____ |

400 mm TELYT-R f/6.8, complete

| | |
|--------------------------------------|---------------------|
| with lens hood and lens covers. | 11 953 _____ |
|--------------------------------------|---------------------|

(Replacement lens covers and accessories see page 2 - 37)

Recommended accessories for the 400 mm TELYT-R f/6.8

| | |
|--|--------------|
| Extension tube (60 mm for the 400 mm TELYT f/6.8 lens also suitable for the 560 mm TELYT-R f/6.8 to extend the operating range (near focusing) | 14 182 _____ |
|--|--------------|

| Focusing range | Smallest object field |
|---------------------------------------|-------------------------------|
| (with one extension tube): | (with one intermediate tube): |
| 353 - 226 cm (11 ft 7 in x 7 ft 5 in) | 8 x 12 cm (3.1 x 4.7 in) |

| | |
|---|--------------|
| Carrying strap for heavy equipment. | 14 130 _____ |
| Electric cable release for insertion in the universal handgrip for LEICA R models with MOTOR-WINDER R / MOTOR-DRIVE R. | 14 237 _____ |

500 mm MR-TELYT-R f/8

for LEICA R models (preferably with aperture priority and manual mode)
LEICAFLEX SL / SL 2 models



Catadioptric telephoto lens
(reflecting-lens construction)

Angle of view: 5°

Number of elements: 5, 2 of them back mirror coated,
with one special filter

Filter size on the front ring of the lens: E 77

Internal thread: M 77 x 0.75

Combined metre/feet scale

Focusing range: ∞ to 4 m (13 ft 4 in)

Can be focused beyond ∞

Smallest object field: 180 x 270 mm (7.1 x 10.6 in) (about 1 : 7.5)

Covered helical focusing mount for hand support

Rubber-covered focusing ring

LEICA R rapid bayonet changer

Black finish

Screw-in lens hood

Five special screw-in filters M 32 x 0.5:

UVa, neutral density 4 x, yellow, orange

(to be screwed into the rear mount of the lens)

Leather case

Lens cap dia.: 83.5 mm

Length from bayonet flange: 121 mm

Diameter: 87 mm

Weight: 0.750 kg

Code No.

500 mm MR-TELYT-R f/8

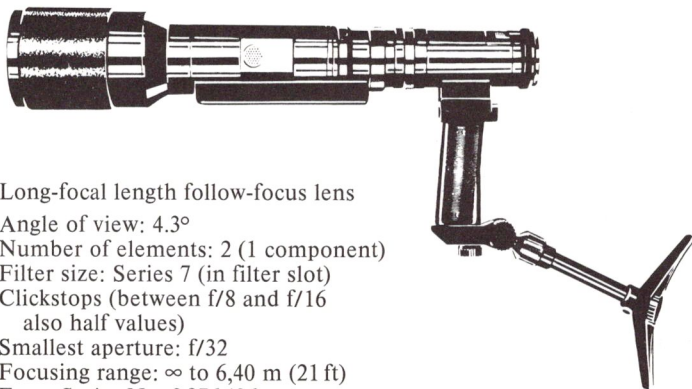
with lens hood, lens cap and rear cover, as well as five special filters and
leather case

11243 _____

(Replacement lens cap, rear cover, special filters, leather case
see page 2 - 37)

560 mm TELYT-R f/6.8

for LEICA R models (preferably with aperture priority and manual mode)
LEICAFLEX SL / SL 2 models



Long-focal length follow-focus lens
Angle of view: 4.3°
Number of elements: 2 (1 component)
Filter size: Series 7 (in filter slot)
Clickstops (between f/8 and f/16
also half values)
Smallest aperture: f/32
Focusing range: ∞ to 6,40 m (21 ft)
From Series No. 2976426
can be focused beyond ∞

Follow-focus device
(adjustable front part of lens with
parallel guide, push-button to
release the focusing mechanism)
Smallest object field:
224 x 336 mm (8.8 x 13.2 in)
(about 1 : 9)
Built-on, telescopic, easy-grip lens
hood covered with grained PVC
Rotatable swiveling device for upright
and horizontal format with clickstops
Lens can be dismantled for easy
transport

LEICA R rapid bayonet changer
Slot with cover for Series 7 filters
Black finish
Tripod thread A ¼ and A ⅜,
DIN 4503 (¼ in and ⅜ in)
Universal handgrip with shoulder stock,
detachable, can be used as a mini
camera support
Leather case
Lens cap dia.: 98 mm
Length from bayonet flange: 530 mm
Diameter: 98 mm
Weight: 2.330 kg

Code No.

| | |
|--|--------------|
| 560 mm TELYT-R f/6.8, consisting of: | |
| 560 mm TELYT-R f/6.8 lens unit | 11 907 _____ |
| Lens tube | 11 906 _____ |
| Universal handgrip with shoulder stock | 14 239 _____ |
| Leather case | 14 581 _____ |

| | |
|--|---------------------|
| 560 mm TELYT-R f/6.8, complete with lens hood, lens cap and rear cover | 11 853 _____ |
|--|---------------------|

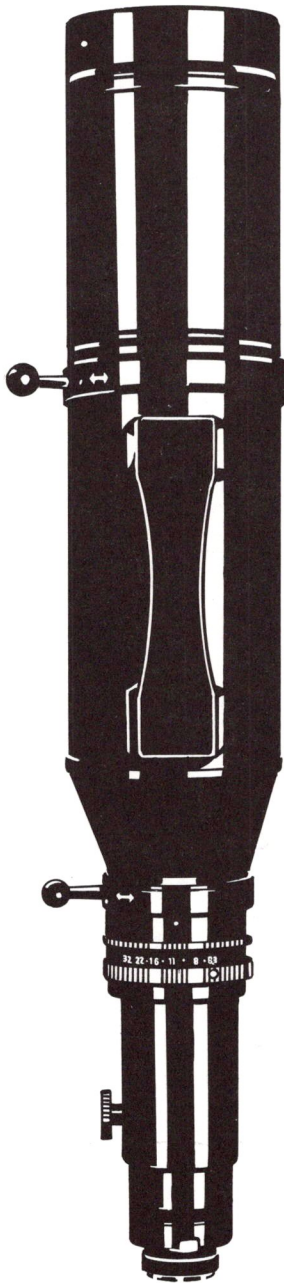
(Replacement lens cap, rear cover and accessories see page 2 - 37)

Recommended accessories for the 560 mm TELYT-R f/6.8

| | |
|--|---|
| Extension Tube (60 mm for the 560 mm TELYT-R f/6.8 lens to extend the operating range (near focusing) | 14 182 _____ |
| Focusing range (with one intermediate tube): 641 - 396 cm (21 - 13 ft) | Smallest object field (with one intermediate tube): 11.2 x 16.8 cm (4.4 x 6.6 in) |
| Carrying strap for heavy equipment | 14 130 _____ |
| Electric cable release for insertion in the universal handgrip for LEICA R models with MOTOR-WINDER R / MOTOR-DRIVE R | 14 237 _____ |

TELYT-S 1 : 6,3/800 mm

for LEICA R models (preferably with aperture priority and manual mode)
LEICAFLEX SL / SL 2 models



Extreme telephoto lens with LEITZ special glasses for maximum optical performance

Angle of view: 3°

Number of elements: 3 (1 component)

Filter size: Series 7 (in filter slot)

Clickstops (between f/6.3 and 22
also half values)

Preset diaphragm

Smallest aperture: f/32

Focusing range: ∞ to 12.50 m (41 ft)

Smallest object field:

320 x 480 mm (1 ft 0.6 in - 1 ft 7 in)
(about 1 : 13)

Rapid focusing by means of an easy-grip rotary knob and parallel guide

Lens can be dismantled into 5 parts
for transport in a special metal case

Assembly and dismantling by means of bayonet and marked locking rings with lever

Sturdy carrying handle for assembled lens

Lining-up device in the shape of a sports finder with rear and front sight and field-of-view orientating device for upright and horizontal format, protected against damage by integration with the carrying handle

Detachable and lockable lens hood

Slot with cover for Series 7 filters

Tripod thread A ¼ and A ⅜,
DIN 4503, (¼ and ⅜ in)
for sturdy tripods

Support ring, rotatable with tripod thread A ¼ DIN 4503 (¼ in) for additional monopod

Black finish

LEICA R rapid bayonet changer

Rotatable swivelling device for upright and horizontal format clickstops

Lens cap dia.: 152 mm

Length from bayonet flange: 790 mm

Diameter: 152 mm

Weight: 6.860 kg

Code No.

800 mm TELYT-S f/6.3, complete,
with special metal transport case.....

11921 _____

35 - 70 mm VARIO-ELMAR-R f/3.5

for LEICA R models (all programs)
LEICAFLEX SL / SL 2 models



Length of variable focal length

Angle of view: 64° - 35°

Number of elements: 8 (7 components)

Filter size: E 67

Internal thread: M 67 x 0.75

Fully automatic diaphragm

Diaphragm selection with clickstops (also half values)

Smallest diaphragm: 22

Combined meter / feet scale

Focusing range: ∞ - 1 m

Smallest object field:

35 mm focal length: 632 x 947 mm (about 1 : 26)

70 mm focal length: 338 x 507 mm (about 1 : 14)

Separate zooming ring

LEICA R rapid-interchange bayonet

Lens anodized in black

Lens hood: built-on, telescopic

Front lens diameter: 75 mm

Length to bayonet flange: 66.5 mm

Maximum diameter: 76.5 mm

Weight: 0.450 kg

Code No.

35 - 70 mm VARIO-ELMAR-R f/3.5

with lens hood as well as front and rear lens cap

11 248 _____

(Replacement lens cap, rear cover, and accessories: see page 2 - 37)

70 - 210 mm VARIO-ELMAR-R f/4

for LEICA R models (all modes)
LEICAFLEX SL / SL 2 models



Zoom lens

Angle of view: 35° - 12°

Number of elements: 12 (9 components)

Filter size: E 60

Internal thread: M 60 x 0.75

Fully automatic preset diaphragm with clickstops
(including half values except between f/4 and f/5.6)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 1.10 m

Smallest object field:

70 mm length: 264 x 396 mm (10.4 x 15.6 in) (about 1:11)

210 mm length: 96 x 144 mm (3.8 x 5.7 in) (about 1:4)

Rubber-covered setting tube:

zooms as well as focuses

LEICA R rapid bayonet changer

Black finish

Built-on, telescopic lens hood

Lens cap dia.: 73.5 mm

Length from bayonet flange: 157 mm

Diameter: 73.5 mm

Weight: 0.720 kg

Code No.

70 - 210 mm VARIO-ELMAR-R f/4

with lens hood, lens cap and rear cover.....

11 246 _____

(Replacement lens cap, rear cover and accessories see page 2 - 37)

EXTENDER-R 2 x

for LEICA R

for LEICA R models (preferably with aperture priority and manual mode)



Focal-length extending lens attachment
 Focal-length extension: 2 x
 Aperture reduction: 2 stops
 Number of elements: 5 (4 components)
 Aperture range: f/2 to f/22
 Fully automatic preset diaphragm transfer for aperture priority and manual setting of shutter speed and aperture
 Suitable for focal length 50 mm and longer¹⁾
 LEICA R rapid bayonet changer
 Black finish
 Length from bayonet flange: 30 mm
 Diameter: 62 mm
 Weight: 0.180 kg

EXTENDER-R 2 x for LEICA R¹⁾

| | |
|---------------------------------------|---------------------|
| with two covers..... | Code No. |
| | 11 236 _____ |
| Replacement cover: | |
| Rear cover (lens rear cover) | 14 162 _____ |
| Front cover (camera body cover) | 14 103 _____ |

APO-EXTENDER-R 1.4 x

for 280 mm R f/2.8

for LEICA R models (all modes)



Optical focal length extension system for 280 mm APO-TELYT-R f/2.8
 Focal length extension: 1.4x
 Aperture reduction: 1 stop
 Number of elements: 5 (4 components)
 Aperture range: f/2.8 - f/22
 Fully automatic preset diaphragm transfer
 LEICA R rapid bayonet changer
 Black finish
 Length from bayonet flange: 36 mm
 Diameter: 62 mm
 Weight: 0.220 kg

APO-EXTENDER-R 1.4 x for 280 mm R 1:2.8

| | |
|------------------------------------|---------------------|
| with two covers..... | Code No. |
| | 11 249 _____ |
| Replacement covers: | |
| Rear cover (lens rear cover) | 14 162 _____ |
| Front cover | 14 252 _____ |

¹⁾ Slight vignetting will occur from 400 mm focal length upwards (except with the 500 mm MR-TELYT-R f/8 reflecting lens). EXTENDER-R 2x not recommended for 70 - 210 mm VARIO-ELMAR-R f/4.

Accessories for LEICA R lenses

Filters

| | Screw-in filters | | | | |
|---------------------|--------------------|--------|--------|--------|--------|
| | E 32 ¹⁾ | E 55 | E 60 | E 67 | E 77 |
| UVa | 13 400 | 13 373 | 13 381 | 13 386 | 13 337 |
| Circular polarizing | — | 13 357 | 13 376 | 13 377 | 13 334 |
| Yellow | 13 403 | — | — | — | — |
| Yellow-green | — | 13 391 | 13 392 | 13 393 | 13 333 |
| Orange | 13 402 | 13 312 | 13 383 | 13 388 | — |
| Neutral density 4 x | 13 405 | — | — | — | — |

| | Series filters ²⁾ | | |
|---------------------|------------------------------|--------|--------|
| | 6 | 7 | 8 |
| UVa | 13 012 | 13 009 | 13 018 |
| Circular polarizing | — | 13 370 | 13 372 |
| Yellow | 13 013 | — | — |
| Yellow-green | 13 014 | 13 007 | 13 021 |
| Orange | 13 011 | 13 008 | 13 017 |

Code No.

E 112 ND x 1 (replacement) for 280 mm APO-TELYT-R f/2.8 13 003 _____

Leather case

for 250 mm TELYT-R f/4 (replacement) 14 578 _____
 for 500 mm MR-TELYT-R f/8 (replacement) 14 559 _____
 Carrying strap with anti-slip pad (replacement) 14 253 _____

Leather case

for 400 mm TELYT-R f/6.8 (replacement) 14 582 _____
 for 560 mm TELYT-R f/6.8 (replacement) 14 581 _____

Carrying case

for 280 mm APO-TELYT-R f/2.8 (replacement) 14 583 _____

Pistol stock

for 280 mm APO-TELYT-R f/2.8 (replacement) 14 632 _____

¹⁾ E 32 as replacement for the 500 mm MR-TELYT-R f/8

²⁾ Filter attachment see page 2-39

Tripod adapter



for an optimally rigid fit of a long focal-length lens on a tripod

STA 1 for 100 mm R f/2.8

Code No.

14 636 _____

| LEICA R lens: | Code-No. | Dia. mm | Lens hood (replacement) | Lens cap (replacement) | Rear cover (replacement) | Filter- ¹⁾ size | Adapter ²⁾ (for Series filter size) | ELPRO ³⁾ near focusing attachments |
|---|----------|---------|-------------------------|------------------------|--------------------------|----------------------------|--|---|
| f/3.5/15 | 11 213 | 83.5 | built-in | 14 294 | 14 162 | built-in | — | — |
| f/2.8/16 | 11 222 | 65 | built-in | 14 089 | 14 162 | built-in | — | — |
| f/2.8/19 | 11 225 | 88 | 12 529 | 14 221 | 14 162 | — | — | — |
| f/4/21 | 11 813 | 75 | 12 506 | 14 145 | 14 162 | Series S 8.5 | Lens hood | — |
| f/2.8/24 | 11 221 | 63.7 | 12 523 | 14 290 | 14 162 | Series 8 | Lens hood | — |
| f/2.8/28 | 11 247 | 51 | 12 509 | 14 172 | 14 162 | Series 7 | Lens hood | — |
| PC f/2.8/28 | 11 812 | 70 | 12 540 | 14 232 | 14 162 | 67 EW ⁶⁾ | — | — |
| f/1.4/35 | 11 143 | 75 | built-in | 14 291 | 14 162 | E 67 | 14 264 S 8 | — |
| f/2/35 from No. 2 791 417 | 11 115 | 63 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | — |
| f/2.8/35 from No. 2 928 901 | 11 251 | 63 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | — |
| f/4/35 | 11 202 | 63.7 | 12 514 | 14 290 | 14 162 | Series 8 | Lens hood | — |
| f/1.4/50 from No. 2 806 501 | 11 777 | 63 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | — |
| f/2/50 from No. 2 777 651 | 11 216 | 63 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | 16 541 16 542 |
| f/2.8/60 from No. 3 013 651 | 11 253 | 63 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | — |
| f/1.4/80 | 11 881 | 75 | built-in | 14 291 | 14 162 | E 67 | 14 264 S 8 | — |
| f/2/90 from No. 3 381 677 | 11 254 | 67 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | 16 543 |
| f/2.8/90 from No. 3 260 101 | 11 154 | 63 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | 16 543 |
| f/2.8/100 | 11 210 | 68 | built-in | 14 290 | 14 162 | E 60 | 14 263 S 7.5 | 16 545 |
| f/4/100 | 11 232 | 63 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | 16 543 16 544 |
| f/4/100 for Bellows-R from No. 2 933 351 | 11 230 | 65 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | — |
| f/2.8/135 from No. 2 772 619 | 11 211 | 65 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | 16 543 16 544 |
| f/2.8/180 from No. 2 939 701 | 11 923 | 75 | built-in | 14 291 | 14 162 | E 67 | 14 264 S 8 | — |
| f/3.4/180 from No. 2 947 024 | 11 242 | 66 | built-in | 14 290 | 14 162 | E 60 | 14 263 S 7.5 | — |
| f/4/180 | 11 922 | 65 | built-in | 14 289 | 14 162 | E 55 | 14 225 S 7 | — |
| f/4/250 from No. 3 050 601 | 11 925 | 75 | built-in | 14 291 | 14 162 | E 67 | 14 264 S 8 | — |
| f/2.8/280 | 11 245 | 125 | built-in | 14 012 | 14 162 | E 112 | — | — |
| f/4.8/350 | 11 915 | 83.5 | built-in | 14 294 | 14 162 | E 77 | 14 201 S 8.5 | — |
| f/6.8/400 | 11 953 | 78 | built-in | 14 152 ₄₎ | 14 162 | Series 7 ⁵⁾ | Filter-slot | — |
| f/8/500 | 11 243 | 83.5 | built-in | 14 294 | 14 162 | E 77 ⁶⁾ | Lens hood S 8.5 ⁶⁾ | — |
| f/6.8/560 | 11 853 | 98 | built-in | 14 295 ₄₎ | 14 162 | Series 7 | Filter-slot | — |
| f/6.3/800 | 11 291 | 152 | built-in | ?) | 14 162 | Series 7 | Filter-slot | — |
| f/3.5/35–70 from No. 3 393 301 | 11 248 | 75 | built-in | 14 291 | 14 162 | E 67 | 14 264 S 8 | — |
| f/4/70–210 | 11 246 | 73.5 | built-in | 14 290 | 14 162 | E 60 | 14 263 S 7.5 | — |

1) – Filters see Table 2–37

2) – In place of the recommended screw-in filters, Series filters can be used, which are attached to the lens with an adapter. Polarizing Series filters cannot be rotated in the adapter.

3) – See also page 3–4

4) – Rear cap for lens head with 028–861.017 and front cap for

lens tube with 028–861.049 obtainable from Leica Service Centre.

5) – Or Series 8 with adapter 14 165.

6) – Five special M 32 x 0.5 mm filters included, for screwing into the mount for the rear element of the lens.

7) – Obtainable from Leica Service Centre.

8) – Filter glass for special wide-angle holder with sunshade obtainable from B & W.

Contents

LEICA R close-focus and copying equipment

Product range, specifications, and technical data

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Close-focus equipment for the LEICA R system

ELPRO close-focus attachments for LEICA R lenses



ELPRO close-focus attachments (achromats)

Thread measurements

External thread for screwing the ELPRO on the lens:
in ELPRO 1 and 2: M 55 x 0.75 and M 44 x 0.75
in ELPRO 3 and 4: M 55 x 0.75

Internal thread for mounting filters and attachments
in ELPRO 1, 2, 3 and 4: M 55 x 0.75

ELPRO 1
ELPRO 2
ELPRO 3
ELPRO 4

Code No.
16 541 _____
16 542 _____
16 543 _____
16 544 _____
14 553 _____

Leather case for one close-focus attachment

ELPRO 1:2-1:1

for 100 mm APO-MACRO-ELMARIT-R f/2.8



for extending the focusing range from 1:2 to 1.1:1

Smallest object field: 22 x 33 mm

Free working distance:

front edge ELPRO to object: approx. 10 cm

front edge lens hood to object: approx. 7.5 cm

Filter size: E 60 (M 60 x 0.75)

Length for transport: 45 mm

Length during exposure: 56 mm

When screwed in, extends the lens by approx. 36 mm

Diameter: 68 mm

Weight: 0.190 kg

ELPRO 1:2-1:1

with lens hood, front and rear cover.

16 545 _____

Lens hood (spare)

12 528 _____

Front cover (spare)

14 290 _____

Rear cover (spare)

14 251 _____

| Lens | ELPRO Code No. | Distance scale at | Distance in cm | | Object field in mm | Repro- duction scale |
|--|---------------------------------|-------------------------|-------------------|----------------------------|--------------------------|----------------------------|
| | | | Object to film | Object to front lens | | |
| SUMMICRON-R f/2/50 mm from No. 2 777 651 ¹⁾ (E 55) | 1 16 541 | ∞ 0,5 | 50 31 | 41 21 | 184 x 276 91 x 137 | 1: 7.7 1: 3.8 |
| | 2 16 542 | ∞ 0,5 | 30 24 | 21 14 | 94 x 141 62 x 93 | 1: 3.9 1: 2.6 |
| SUMMICRON-R f/2/90 mm from No. 2 770 951 ¹⁾ (E 55) | 3 16 543 | ∞ 0.7 | 74 44 | 61 30 | 161 x 241 72 x 108 | 1: 6.7 1: 3.0 |
| ELMARIT-R f/2.8/90 mm from No. 2 809 001 ¹⁾ (E 55) | 3 16 543 | ∞ 0.7 | 74 44 | 61 30 | 161 x 241 72 x 108 | 1: 6.7 1: 3.0 |
| MACRO- ELMAR-R f/4/100 mm (E 55) | 3 16 543 | ∞ 0.6 | 75.5 41.6 | 61 24 | 145 x 218 48 x 72 | 1: 6 1: 2 |
| | + MACRO- ADAPTER-R 14 256 | ∞ 0.6 | 42 37.4 | 24 17 | 49 x 73 29 x 44 | 1: 2 1: 1.2 |
| | 4 16 544 | ∞ 0.6 | 150.5 48.6 | 136 31 | 323 x 484 61 x 92 | 1: 13 1: 2.5 |
| | + MACRO- ADAPTER-R 14 256 | ∞ 0.6 | 48.8 40.4 | 31 20 | 63 x 94 34 x 51 | 1: 2.6 1: 1.4 |
| APO-MACRO- ELMARIT-R f/2.8/100 mm | 16 545 | ∞ 1: 2 | 35.4 30.5 | 16 10 | 49 x 73 22 x 33 | 1: 2 1.1: 1 |
| ELMARIT-R f/2.8/135 mm from No. 2 772 619 ¹⁾ (E 55) | 3 16 543 | ∞ 1.5 | 76 58 | 61 42 | 107 x 160 66 x 99 | 1: 4.5 1: 2.8 |
| | 4 16 544 | ∞ 1.5 | 150 84 | 135 68 | 237 x 355 106 x 159 | 1: 9.9 1: 4.4 |

All values rounded off.

¹⁾ ELPRO near-focusing attachments for earlier LEICA R lenses see page 12 - 10.

MACRO-ADAPTER-R

for LEICA R models (preferably with aperture priority and manual mode)



MACRO-ADAPTER-R

for LEICA R lenses with fully automatic preset diaphragm transfer for aperture priority and manual setting of shutter speed and aperture.

Length from bayonet flange: 30 mm

Diameter: 62 mm

Weight: 0.130 kg

Code No.

MACRO-ADAPTER-R..... **14 256** _____

Covers for the Macro-Adapter-R:

Front cover (camera body cover) 14 103 _____

Rear cover (the same as for lenses)..... 14 162 _____

| Lens | Distance scale at (m or reproduction scale) | Distance Object to front lens in cm | Reproduction scale | Object field in mm |
|--|---|-------------------------------------|----------------------|-----------------------|
| SUMMICRON-R f/2.50 mm | ∞ 0,5 | 11.6 9.9 | 1 : 1.75 1 : 1.42 | 42 x 63 34 x 51 |
| MACRO-ELMARIT-R f/2.8/60 mm | ∞ 1 : 2 | 16 9.7 | 1 : 2 1 : 1 | 48 x 72 24 x 36 |
| SUMMICRON-R f/2/90 mm ELMARIT-R f/2.8/90 mm | ∞ 0.7 | 32 23 | 1 : 3 1 : 2 | 72 x 108 48 x 72 |
| MACRO-ELMAR-R f/4/100 mm | ∞ 0.6 | 42 25 | 1 : 3.3 1 : 1.6 | 80 x 120 39 x 59 |
| ELMARIT-R f/2.8/135 mm | ∞ 1.5 | 75 55 | 1 : 4.5 1 : 3 | 108 x 162 72 x 108 |
| ELMARIT-R f/2.8/180 mm | ∞ 1.8 | 124 78.4 | 1 : 6 1 : 3.4 | 144 x 216 82 x 123 |
| APO-TELYT-R f/3.4/180 mm | ∞ 2.5 | 133 95.6 | 1 : 6 1 : 3.9 | 144 x 216 95 x 142 |
| TELYT-R f/4/250 mm | ∞ 1.7 | 256 99.1 | 1 : 8.4 1 : 2.9 | 202 x 303 70 x 105 |
| TELYT-R f/4.8/350 mm | ∞ 3.0 | 477 178 | 1 : 11.6 1 : 4.1 | 278 x 417 97 x 146 |

All values rounded off.

Ring combination for the close-focus range

for LEICA R models (preferably with aperture priority and manual mode)

LEICAFLEX SL / SL 2 models



Ring combination for the close-focus range with semi-automatic preset diaphragm

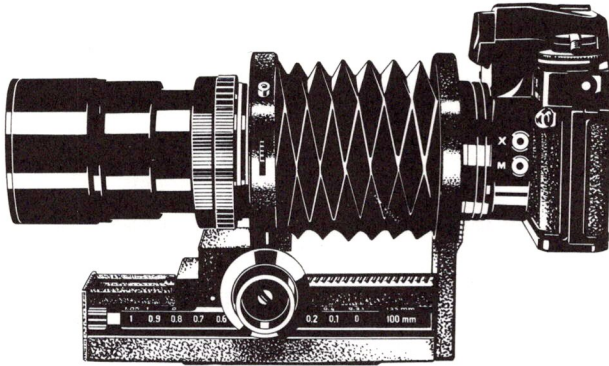
| | |
|--|---------------------|
| | Code No. |
| Two-part ring (height 25 mm) | 14 158 _____ |
| Centre ring (height 25 mm) to increase the reproduction scale..... | 14 135 _____ |
| Combination complete, weight: 0.175 kg. | 14 159 _____ |
| Twin cable release. | 16 494 _____ |

| Lens | Distance scale at | Ring combination | | | | | |
|--|-------------------|---------------------------------|--------------------|-----------------|----------------------------------|--------------------|-----------------|
| | | 2-part (height 25 mm) 14 158 | | | 3-part (height 50 mm) 14 159 | | |
| | | Distance Object - front lens cm | Reproduction scale | Object field mm | Distance Object to front lens cm | Reproduction scale | Object field mm |
| SUMMICRON-R f/2/50 mm | ∞ | 13.5 | 1: 2.1 | 50 x 75 | 8.1 | 1: 1.04 | 25 x 37 |
| | 0.5 | 11.2 | 1: 1.6 | 38 x 58 | 7.5 | 1.09: 1 | 22 x 33 |
| SUMMICRON-R f/2/90 mm ELMARIT-R f/2.8/90 mm | ∞ | 37.6 | 1: 3.6 | 86 x 130 | 21.4 | 1: 1.8 | 43 x 65 |
| | 0.7 | 25.2 | 1: 2.2 | 53 x 79 | 17.6 | 1: 1.4 | 34 x 50 |
| ELMARIT-R f/2.8/135 mm | ∞ | 87.2 | 1: 5.4 | 130 x 195 | 50.7 | 1: 2.7 | 65 x 97 |
| | 1.5 | 59.7 | 1: 3.4 | 81 x 121 | 42.3 | 1: 2.1 | 50 x 75 |
| ELMARIT-R f/2.8/180 mm | ∞ | 146 | 1: 7.2 | 172 x 258 | 81.2 | 1: 3.6 | 86 x 129 |
| | 1.8 | 84.9 | 1: 3.8 | 91 x 137 | 61.3 | 1: 2.5 | 60 x 90 |
| APO-TELYT-R f/3.4/180 mm | ∞ | 154 | 1: 7.2 | 172 x 258 | 89.4 | 1: 3.6 | 86 x 129 |
| | 2.5 | 104 | 1: 4.4 | 106 x 159 | 74.0 | 1: 2.7 | 66 x 99 |
| TELYT-R f/4/250 mm | ∞ | 299 | 1: 10.1 | 242 x 363 | 172 | 1: 5.0 | 121 x 181 |
| | 1.7 | 104 | 1: 3.2 | 76 x 114 | 85.8 | 1: 2.3 | 55 x 82 |
| TELYT-R f/4.8/350 mm | ∞ | 558 | 1: 13.9 | 334 x 501 | 316 | 1: 7.0 | 167 x 250 |
| | 3.0 | 187 | 1: 4.4 | 105 x 157 | 153 | 1: 3.2 | 76 x 114 |

All values rounded off.

Focusing Bellows-R

for LEICA R models (preferably with aperture priority and manual mode)
LEICAFLEX SL / SL 2 models



Focusing Bellows-R

Very robust, variable extension for continuous adjustment in conjunction with the LEICA and all LEICAFLEX models.

Maximum extension 100 mm.

Rotatable scale carrier: the reproduction scales for 90, 100, and 135 mm LEICA-R lenses are engraved.

Additional mm scale, length 100 mm.

Additional clamping adjustment facility for the preservation of a given reproduction scale.

Lens stop closed to the preselected value with twin-cable release of pressure on the sliding knob (preset diaphragm).

Alternative upright and horizontal format

Tripod thread A 1/4 and A 3/8 DIN 4503 (1/4 and 3/8 in)

Weight: 0.780 kg

Code No.

Focusing Bellows-R

(without lens) **16 860** _____

Twin cable release for same **16 494** _____

With 100 mm MACRO-ELMAR f/4 special lens for photography within the range of ∞ to 1:1.

Universal handgrip

with shoulder stock for hand-held exposures with the Focusing Bellows-R

Universal handgrip with shoulder stock **14 239** _____

Detailed description page 1 - 29

100 mm MACRO-ELMAR f/4



Lens for use on the
 Focusing Bellows-R
 Angle of view: 25°
 Number of elements: 4 (3 components)
 Filter size: E 55
 Internal thread: M 55 x 0.75
 Clickstops (including half values)
 Smallest aperture: f/22
 Focusing range with Focusing Bellows-R:
 ∞ to 1 : 1
 Smallest object field: 24 x 36 mm (1 x 1.5 in)
 LEICA R rapid bayonet changer
 Black finish
 Permanently attached telescopic lens hood
 Lens cap dia.: 65 mm
 Length from bayonet flange: 62.5 mm
 Diameter: 68 mm
 Weight: 0.365 kg

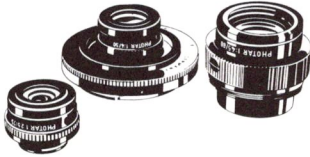
Code No.

100 mm MACRO-ELMAR f/4

with lens hood, lens cap and rear cover **11 230** _____

(Spare lens cap, rear cover, and accessories see page 2 - 37)

PHOTAR lenses for the Focusing Bellows-R



| Lens | Code No. | short bellows extension | | long bellows extension | |
|------------------------|----------|-------------------------|-----------------------|------------------------|-----------------------|
| | | repr. scale | free working distance | repr. scale | free working distance |
| PHOTAR 1 : 2.4/12.5 mm | 549 025 | 7.5 : 1 | 8 mm | 15.5 : 1 | 7 mm |
| PHOTAR 1 : 2 /25 mm | 549 026 | 3 : 1 | 22 mm | 7 : 1 | 17 mm |
| PHOTAR 1 : 4 /50 mm | 549 027 | 1.2 : 1 | 88 mm | 3.2 : 1 | 59 mm |

All values rounded off. The free working distance is the distance between the object and the lens mount.

PHOTAR lenses (thread: W 0.8" x 1/36") attachable through

PHOTAR Adapter-R **14 259** _____

Possibilities of combination with LEICA R lenses on the Focusing Bellows-R

| Lens | Reproduction scale | Distance Object to front lens cm | Object field mm |
|---|--------------------|----------------------------------|------------------------------|
| SUMMICRON-R f/2/50 mm | 1: 1.2 - 2.9 : 1 | 9.1 - 4.5 | 29.6 x 44.4 to 8.4 x 12.5 |
| MACRO-ELMARIT-R f/2.8/60 mm | 1: 1.5 - 2.8 : 1 | 12.5 - 5.7 | 35 x 53 to 8.5 x 12.8 |
| SUMMICRON-R f/2/90 mm ELMARIT-R f/2.8/90 mm | 1: 2.1 - 1.8 : 1 | 24.5 - 10.4 | 51.1 x 76.6 to 13.7 x 20.6 |
| MACRO-ELMAR® f/4/100 mm | $\infty - 1 : 1$ | $\infty - 18.7$ | ∞ to 24.0 x 36.0 |
| MACRO-ELMAR-R f/4/100 mm with helical focusing mount | 1: 2.4 - 1.7 : 1 | 32.6 - 14.7 | 57.1 x 85.7 to 14.2 x 21.3 |
| ELMARIT-R f/2.8/135 mm | 1: 3.2 - 1.2 : 1 | 57.7 - 25.9 | 77.2 x 115.8 to 20.6 x 30.9 |
| ELMARIT-R f/2.8/180 mm | 1: 4.3 - 1 : 1.09 | 93.5 - 36.3 | 102.7 x 154.0 to 26.2 x 39.4 |
| APO-TELYT-R f/3.4/180 mm | 1: 4.3 - 1 : 1.14 | 101.8 - 45.3 | 102.7 x 154.0 to 27.4 x 41.1 |
| TELYT-R f/4/250 mm | 1: 6 - 1 : 1.1 | 195.9 - 62.2 | 144.0 - 216.0 to 27.4 x 41.1 |
| TELYT-R f/4.8/350 mm | 1: 8.3 - 1 : 1.6 | 362.0 - 107.0 | 199.0 x 298.0 to 38.0 x 57.0 |

All values rounded off.

Intermediate ring for use

of the following M lenses on the Focusing Bellows-R

65 mm ELMAR-M f/3.5 ($\infty - 1.5 : 1$)

Lens unit of the 90 mm ELMARIT-M f/2.8 ($\infty - 1.1 : 1$)

Lens unit of the 135 mm TELE-ELMAR-M f/4 ($\infty - 1 : 1.3$)

Code No.

Intermediate ring

16 863

Other LEICA M lenses can be used with adapter 14 167.

REPROVIT-R



REPROVIT-R consisting of:
 50 x 46 x 2.8 cm baseplate
 90 cm column with parallel guide
 Carrying arm
 Illuminating unit
 Tungsten halogen lamps

Dimensions: maximum height 97 cm
 maximum length 135 cm
 maximum depth 46 cm
 Weight: 12.5 kg

The REPROVIT-R is a universal reproduction stand with illuminating unit. It offers the photographer versatile possibilities in the field of reproduction and close-up photography. Two tungsten halogen lamps ensure even illumination and constant colour temperature.

The REPROVIT-R is outstanding in its great stability and simple and convenient operation and is a reliable instrument, suitable for the photography both of plane and of 3-dimensional objects, in colour and in black-and-white. The column is long enough to permit photography of objectives up to about DIN A 3 sizes with a 50 mm or 60 mm lens without difficulty. The camera carrying arm with its non-wearing friction drive is a positive feature, permitting continuous vertical adjustment along the column. Easy operation prevents fatigue even during work for prolonged periods. As on the earlier reproduction stand the camera carrying arm has a fixing screw for all the 35 mm and medium-format cameras on the market. A guide groove and locating pins ensure precision alignment.

The illuminating unit with two tungsten halogen lamps is ideally matched for the use of artificial-light colour reversal film at a colour temperature of 3200 to 3400 °K. Both lamps are fitted with a detachable protective cage and a low-noise and low-vibration cooling fan. They can be individually switched, adjusted, and detached for special techniques of illumination.

The attachment of the lamp holders to the baseplate leaves room for protruding originals. Their alignment is optimised and guarantees full freedom of movement during work. The lamp holders have standard tripod bushes, to which, for instance, flash lamps can be attached.

Owing to the sturdy mechanical design and simple operation, performance of the optical accessories can be fully utilised. The picture quality of the lenses, on which, especially in the reproduction and the near-focusing range, particularly high demands are made, can thereby be fully taken advantage of.

Suitable for:

LEICA R and LEICAFLEX models with and without Winder/Drive, with and without Focusing Bellows.

LEICA M models with Visoflex with and without Winder, with and without Focusing Bellows.

LEICINA models

All 35 mm s.l.r. and medium-format cameras with A ¼ DIN 4503 (¼ in) tripod bush.

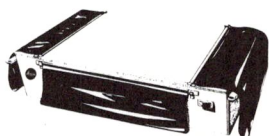
Code No.

REPROVIT-R

with 220 to 250 v/300 w tungsten halogen lamps 16 717 _____

with 115/120 v/650 w tungsten halogen lamps 16 718 _____

Light box



For the reproduction of slides, negatives, X-ray originals, stained-glass windows.
As background illumination for reproduction of three-dimensional objects.
For the easy sorting of negatives and slides.

Technical data

Grey metal body, space-saving trapezoidal design.

Large working top owing to the trapezoidal shape, illuminated area and surrounding area at the same level (no disturbing edges).

Low height creates favourable conditions for reproduction.

400 x 614 mm illuminated area (sufficient, for instance, for the photography of 96 50 x 50 mm slides).

Two fluorescent tubes: for instance Philips TL-D 18 W/83 or Osram L-18 W/31, brightness about 6000 and 8000 lux respectively, only slight heating of the working top. The light colour of these fluorescent tubes corresponds to a colour temperature of about 3200°K. Because fluorescent tubes do not emit a continuous spectrum, the light box cannot be recommended for colour reproduction if perfect colour fidelity is required. For colour reproductions in transmitted light (duplicating of colour transparencies) the ILLUMITRAN is particularly well suited.

420 x 437 mm glass sheet for flattening the originals.

Two built-in carrying handles.

Appliance cable.

On/off switch.

Four pieces of black screening cloth to eliminate stray light.

Dimensions: maximum height: 17 cm
maximum length: 70 cm
maximum depth: 47 cm

Code No.

Light box (220 v)

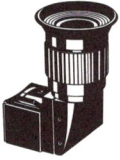
16 792

Accessories for shadowless photography with the light box

Four spacing rods, to be screwed into the M8 threads of the carrying handles to support a sheet of glass. Spacing rods can be obtained from our Technical Service, Item No. 042-721.020. The sheet of glass, size 500 x 750 mm, can be obtained by the customer from a glazier.

Angle viewfinder

for LEICA R models / LEICAFLEX SL 2 models
with 1 x and 2 x magnification



Code No.

for viewing from above, and also for work with the REPROVIT-R and for photography "round the corner" or above the heads of a crowd.

Angle viewfinder 90°, can be clamped in position, right way-round, up-right image, focusing eyepiece, switchable to 1 x or 2 x magnification.

14 300 _____

(see also page 1 - 5)

Contents

LEICA M models

1. Product range

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| LEICA M 6..... | 4 - 3 |
| Accessories for LEICA M models..... | 4 - 4 |
| LEICA WINDER M | |
| Correction lenses | |
| Cases | |
| Table-top tripod | |
| Ball-and-socket head | |
| Other accessories | |

2. Specifications and technical data

| | |
|----------------------|--------|
| LEICA M 6..... | 4 - 8 |
| LEICA WINDER M | 4 - 11 |

LEICA M 6



35 mm measuring viewfinder camera. Selective exposure measurement through the lens (TTL). Interchangeable lenses from 21 to 135 mm focal length. Measuring viewfinder with field-of-view frames for the focal lengths 28* and 90 mm, 35 and 135 mm, 50 and 75 mm, split-image and coincident-image rangefinder.

Available as an accessory:

The LEICA WINDER M motorised winding mechanism (LEICA WINDERS M 4-P and M 4-2 from No. 10350 can also be used on the LEICA M 6).

Detailed description on page 4-8.

Code No.

LEICA M 6, black chromium finish
complete with camera body cover and carrying strap **10 404** _____

LEICA M 6, silver chromium finish
complete with camera body cover and carrying strap **10 414** _____

Use of earlier LEICA M lenses

All LEICA M lenses can be used without restriction,
but the following are unsuitable for exposure measurement:

15 mm HOLOGON f/8, 21 mm SUPER-ANGULON-M f/4,
21 mm SUPER-ANGULON-M f/3.4 below Serial No. 2 473 251,
28 mm ELMARIT-M f/2.8 below Serial No. 2 314 921.

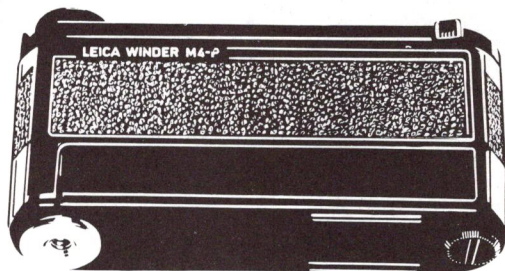
50 mm SUMMICRON f/2 with near focusing device must be set
to infinity when the lens is changed.

* 28 mm lenses from Serial No. 2 411 001.

Accessories for LEICA M models

LEICA WINDER M

for LEICA M 6
LEICA M 4-P
LEICA M 4-2
LEICA MD-2



Compact, handy winder. Release via the camera release button. Frame frequency up to 3 fps. Extremely quiet running.

Detailed description see page 4 - 11.

| | Code No. |
|---|--------------|
| LEICA WINDER M | 14 403 _____ |
| Housing for ordinary and rechargeable batteries (replacement) | 14 402 _____ |

Correction lenses M

for LEICA M models (spherical), with rubber reinforcement

| | |
|-------------|--------------|
| + 0.5 | 14 350 _____ |
| + 1.0 | 14 351 _____ |
| + 1.5 | 14 352 _____ |
| + 2.0 | 14 353 _____ |
| + 3.0 | 14 354 _____ |
| - 0.5 | 14 355 _____ |
| - 1.0 | 14 356 _____ |
| - 1.5 | 14 357 _____ |
| - 2.0 | 14 358 _____ |
| - 3.0 | 14 359 _____ |

For astigmatism we supply suitable correction lens mounts through our Service Department (Item No. 042-253.008). Production and mounting of the lens by an ophthalmic optician.

Carrying strap

| | |
|--|--------------|
| with anti-slip pad (replacement) | 14 253 _____ |
|--|--------------|

Camera body cover

| | |
|-------------------------------|--------------|
| M-bajonet (replacement) | 14 195 _____ |
|-------------------------------|--------------|

Flash socket cover

| | |
|---------------------------------------|--------------|
| for LEICA M models (replacement)..... | 15 526 _____ |
|---------------------------------------|--------------|

Ever Ready Case

for LEICA M6 (without LEICA WINDER)



Code No.

black leather

for 21, 28, 35, 50 f/2 or 50 f/1.4 lenses

14 505 _____

Small combination bag M (compact version) ¹⁾

for LEICA M6 without Winder (suitable for all M models apart from LEICA M5, without LEICAMETER)

to hold:

- 1 LEICA M6 with lens attached,
- 1 LEICA M6 camera body, and up to
- 2 other lenses.



Bag (external dimensions approx. 22 x 11 x 18 cm) with

- coupling ring to lock two lenses together
- adjustable carrying strap with anti-slip pad
- front compartment for accessories

beige leather

14 840 _____

Coupling ring (replacement)

14 838 _____

¹⁾ List of items accommodated see "Technical Information" page 11 - 18 to 11 - 23.

Large combination bag M (standard version) ¹⁾

for LEICA M6 with or without Winder (suitable for all M models apart from LEICA M5, without LEICAMETER)

to hold:

1 LEICA M6 with or without Winder, with lens attached and up to 4 other lenses.



Bag (external dimensions approx. 25 x 14 x 19 cm) with

- coupling ring to lock two lenses together
- adjustable carrying strap with anti-slip pad
- front compartment for accessories

in black leather

Code No.

14 842 _____

Coupling ring (replacement)

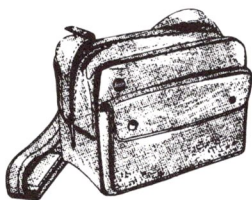
14 838 _____

Holdall M ¹⁾

for LEICA M with or without winder (suitable for all M models apart from LEICA M5, with LEICAMETER)

to hold:

1 LEICA M with or without winder or LEICAMETER attached,
with lens attached, as well as up to
4 other lenses.



Holdall (external dimensions approx. 31 x 18 x 23 cm) with

- coupling ring to lock two lenses together
- adjustable carrying strap with anti-slip pad
- front compartment for accessories

in black leather

14 827 _____

Coupling ring (replacement)

14 838 _____

¹⁾ List of items accommodated see "Technical Information" page 11 - 18 to 11 - 23.

Tabletop tripod

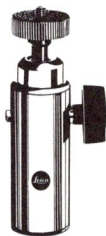


Code No.

Tabletop tripod with three foldings legs, tripod thread A ¼, DIN 4503 (¼ in)

14 100 _____

Ball-and-socket head



Ball-and-socket head with tripod thread A ¼, DIN 4503 (¼ in)

14 110 _____

Cable releases

for all camera models with conical thread

Cable release, length 25 cm, with arresting screw

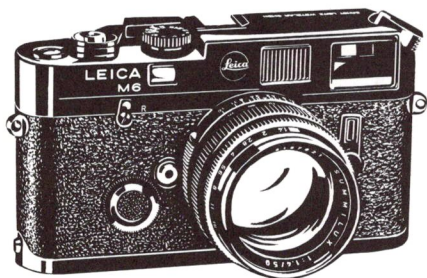
14 067 _____

Cable release, length 50 cm, with arresting screw

14 076 _____

Specifications and technical data

LEICA M 6



Type of camera:

35 mm rangefinder viewfinder camera. Selective exposure metering through the lens (TTL). Interchangeable lenses. Motorized rapid wind through attachable LEICA WINDER M or LEICA WINDER M 4-P or LEICA WINDER M 4-2 (from No. 10 350 onwards).

Camera body:

Compact all-metal body, with hinged back, covered with easy-grip textured PVC. 0.8 mm zinc diecast camera top and 0.8 mm brass baseplate. Chromium finish. Measuring viewfinder. Stainless-steel carrying eyelets on the both sides. Mechanical connection for motorized wind. Standard tripod thread A $\frac{1}{4}$ ($\frac{1}{4}$ in). Rapid bayonet changer for the LEICA M lenses and accessories. Accessory shoe with central contact. Field of view selector.

Lens system:

LEICA M lenses with rapid bayonet changer from 21 to 135 mm focal length. With VISOFLEX attachment (deleted from the product range) from 65 to 800 mm.

Rangefinder viewfinder:

● Bright high-contrast viewfinder image with bright-line frames for:

28 mm and 90 mm or
35 mm and 135 mm or
50 mm and 75 mm

with automatic parallax compensation. When a lens is being inserted the associated image frame is automatically faded in*). With the aid of the field-of-view selector any required pair of frames can be preselected. The image field corresponds to that of the lens at a short focusing distance. Even spectacle wearers are able to survey the field of view fully. Correction lenses, of which ten are available from + 3 to - 3 dioptres, can be attached.

● Split-image and coincident-image rangefinder standing out as a bright field in the centre of the viewfinder image. Long effective measuring base of 49.9 mm (measuring base 69.25 mm x 0.72 viewfinder magnification). This ensures quick reliable focusing even in poor lighting conditions with all lenses of up to 135 mm focal length.

● Exposure meter display by light balance (two LEDs) at the bottom edge of the viewfinder image when the exposure meter is switched on.

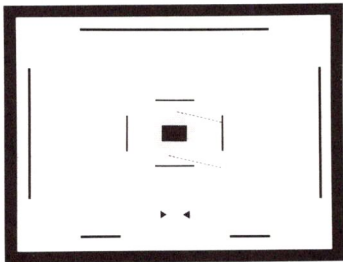
*) 28 mm lenses from Serial No. 2 411 001.

Exposure metering:

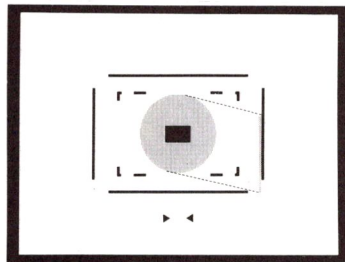
Selective metering. The measuring element is a silicon photodiode in the top part of the camera interior. For the better utilisation of the incident light the photodiode is fitted with a collecting lens.

The metering field consists of a 12 mm dia. white patch in the centre of the shutter curtain. The measurement takes place with the camera ready for action i. e. wound. The size of the metering field in the viewfinder is about 23 % of the viewfinder field of the lens in use.

The field measured corresponds to a circle of a diameter two thirds of the short side of the picture area of the lens in the camera: e.g.:



135 mm



50 mm

Measuring range of exposure meter:

0.12 cd/sq.m to 125.000 cd/sq.m at f/1. For the 50 mm NOCTILUX-M f/1 this produces a working range from 0 to +20 exposure values at ISO 100/21° (ASA 100/21 DIN), corresponding to aperture/shutter speed combinations from f/1 1 sec. to f/32/1/1000 sec.

Film speed range:

Film speed selector on the back of the camera. Range: ISO 6/9° to ISO 6,400/39° (ASA 6/9 DIN to ASA 6,400/39 DIN).

Clickstops at 1/3 aperture steps.

Batteries:

Two 1.55 v silver oxide button cells, size: dia.11.6 mm, height 5.4 mm, or 1 lithium battery, size dia. 11.6, height 10.8 mm (replacement batteries see under Technical Information).

Shutter:

Horizontally-acting rubber-cloth focal-plane shutter, extremely quiet action. Mechanically produced speeds: 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500, 1/1000 sec. and B = time exposure of any duration.

Release:

Silky smooth shutter release. International conical thread in the release button for cable release.

Flash synchronisation:

Synchronisation for electronic flash (X contact) from "B" to 1/50 sec. Standard X contact as well as separate centre contact (X) in the accessory shoe. Two flash units can be fired simultaneously through the two contacts.

Flash table see "Technical Information".

Film insertion:

Remove the baseplate and turn up the centre part of the camera back. Rapid film changing system for all commercially available 35 mm films and for LEICA cassettes.

Film transport:

Angled rapid winding lever with movable end-piece for film transport and shutter wind. Its stand-by position makes it convenient for the photographers using their left eye for the viewfinder. Winding angle of the rapid winding lever 120°. Interval winding possible. Double-exposure lock.

Forward counting automatic film counter under a magnifier. Automatic reset to start (-2 frames) when the camera is being opened. Lever for film rewinding release with automatic reset when the shutter wind is operated.

Angled, hinged crank handle for convenient and rapid rewinding of the film.

Carrying strap:

Black fabric tissue, length adjustable. At any temperature and in any weather it is always soft and pliable. Anti-slip pad. When the ever ready case is used, the carrying strap remains on the camera.

Dimensions:

Height: 77 mm, length: 138 mm, depth: 38 mm

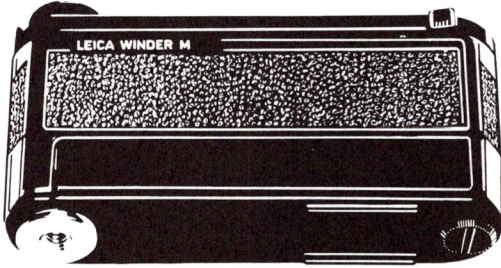
Weight:

Camera body without lens: 0.560 kg

Camera body with the 50 mm SUMMICRON-M f/2: 0.755 kg

LEICA Winder M

for LEICA M6
LEICA M4-P
LEICA M4-2
LEICA MD-2



Type of instrument: Winder

Compact, handy winder.

Single-frame release through the camera release button.

Series exposures are possible. One exposure after another will be made with normal continual pressure on the release button.

Frequency up to 3 fps.

Extremely quiet action of gears and motor.

Body:

Sturdy, fibreglass-reinforced plastic body, easy-grip covered with textured PVC.

Driven by a d.c. micromotor with air core rotor.

The winder is attached to the camera in place of the baseplate. It is mechanically controlled exclusively by the camera.

The battery housing is attached to the underside of the winder.

Tripod thread A $\frac{1}{4}$ ($\frac{1}{4}$ in).

Power supply through:

Four 1.5 v alkali-manganese batteries in the battery housing. Capacity under Leica test conditions: about 150 36-exposure films at 20 °C.

or

four NiCd rechargeable batteries, for instance DEAC 501 RS by Varta AG, in the battery housing.

Possible exposure times:

$\frac{1}{1000}$ sec. to 1 sec. and "B".

Release:

Through the camera release button.

Measurement:

Height to the underside of the camera 60 mm, length 138 mm, depth 35 mm.

Weight:

0.330 kg (without batteries)

Contents

LEICA M lenses

Product range, specifications, and technical data

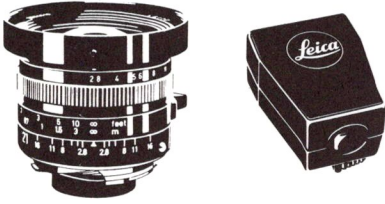
| | | |
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| 35 mm SUMMILUX-M ASPH. | f/1.4..... | 5- 6 |
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| 50 mm NOCTILUX-M | f/1..... | 5- 9 |
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| Brilliant finder | | |
| Lens hoods | | |
| Screw-in and series filters | | |

The range of LEICA M lenses

| Designation of lens | Speed | Focal length mm | Filter dia. | Code No. |
|---------------------|-------|--------------------|----------------|----------|
| ELMARIT-M | f/2.8 | 21 | E 60 | 11 134 |
| ELMARIT-M | f/2.8 | 28 | E 49 | 11 804 |
| SUMMILUX-M ASPH. | f/1.4 | 35 | E 46 | 11 873 |
| SUMMILUX-M | f/1.4 | 35 | S 7 | 11 870 |
| SUMMICRON-M | f/2 | 35 | E 39 | 11 310 |
| NOCTILUX-M | f/1 | 50 | E 60 | 11 821 |
| SUMMILUX-M | f/1.4 | 50 | E 43 | 11 114 |
| SUMMICRON-M | f/2 | 50 | E 39 | 11 819 |
| SUMMILUX-M | f/1.4 | 75 | E 60 | 11 815 |
| SUMMICRON-M | f/2 | 90 | E 55 | 11 136 |
| ELMARIT-M | f/2.8 | 90 | E 46 | 11 807 |
| ELMARIT-M | f/2.8 | 135 | E 55 | 11 829 |
| TELE-ELMAR-M | f/4 | 135 | E 39 | 11 851 |

21 mm ELMARIT-M f/2.8

for all LEICA M models



Lens of extremely wide angle

Angle of view: 92°

Number of elements: 8 (6 components)

Filter size: E 60

Internal thread: M 60 x 0.75

Clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.70 m (28 in)

Smallest object field: 705 x 1058 mm (28 x 42 in) (about 1:30)

Non-rotating focusing mount

Separate brilliant finder

LEICA M rapid bayonet changer

Black finish

Push-on lens hood

Lens cap dia.: 62 mm

Length from bayonet flange: 46.5 mm

Diameter: 62 mm

Weight: 0.290 kg

Code No.

21 mm ELMARIT-M f/2.8

with lens hood, lens cap, and rear cover

11 134 _____

Brilliant finder with case

12 008 _____

Replacement case

14 628 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5 - 17)

28 mm ELMARIT-M f/2.8

for all LEICA M models



Wide-angle lens

Angle of view: 76°

Number of elements: 8 (6 components)

Filter size: E 49

Internal thread: M 49 x 0.75

Clickstops (including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 0.70 m (28 in)

Smallest object field: 533 x 800 mm (21 x 31 in) (about 1 : 22)

Non-rotating focusing mount

Viewfinder: camera viewfinder with the LEICA M 6 and the LEICA M 4-P

LEICA M rapid bayonet changer

Black finish

Push-on lens hood

Lens cap dia.: 51 mm

Length from bayonet flange: 48 mm

Diameter: 53 mm

Weight: 0.250 kg

Code No.

28 mm ELMARIT-M f/2.8

with lens hood, lens cap and rear cover

11 804 _____

Brilliant finder with case ¹⁾

12 009 _____

Replacement case

14 628 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5 - 17)

¹⁾ Brilliant finder not required with LEICA M 6 and LEICA M 4-P.

35 mm SUMMILUX-M f/1.4 ASPHERICAL

for all LEICA M models



- Ultra-high-speed wide-angle lens with aspherical lens surfaces for excellent optical performance
- Angle of view: 64°
- Number of elements: 9 (5 components, 2 aspherical lens surfaces)
- Filter size: E 46
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined metre/feet scale
- Focusing range: ∞ to 0.7 m (28 in)
- Smallest object field: 420 x 630 mm (252 x 375 in) (about 1:17,5)
- Non-rotating focusing mount
- Built-in camera finder¹⁾)
- LEICA M rapid bayonet changer
- Black finish
- Push-on lens hood
- Lens cap dia.: 49 mm
- Length from bayonet flange: 44,5 mm
- Diameter: 53 mm
- Weight: 0.275 kg

Code No.

35 mm SUMMILUX-M f/1.4 ASPHERICAL

with lens hood, lens cap and rear cover.....

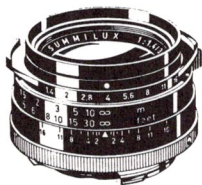
11873 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5-17)

¹⁾ In the LEICA M3, the 135 mm bright-line frame is reflected into the viewfinder.

35 mm SUMMILUX-M f/1.4

for all LEICA M models



Ultra-high-speed wide-angle lens

Angle of view: 64°

Number of elements: 7 (5 components)

Filter size: Series 7, for insertion into the lens hood,
which can be dismantled

Clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 1 m

Smallest object field: 630 x 950 mm (25 x 375 in) (about 1:26)

Non-rotating focusing mount

Built-in camera finder¹⁾

LEICA M rapid bayonet changer

Black finish

Lens hood designed as a filter holder,
can be dismantled for accepting the Series 7 filters

Lens cap dia.: 42 mm

Length from bayonet flange: 28 mm

Diameter: 53 mm

Weight: 0.200 kg

Code No.

35 mm SUMMILUX-M f/1.4

with lens hood, lens cap and rear cover.....

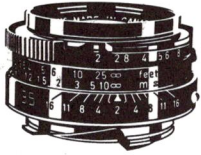
11 870 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5-17)

¹⁾ In the LEICA M3, the 135 mm bright-line frame is reflected into the viewfinder.

35 mm SUMMICRON-M f/2

for all LEICA M models



High-speed wide-angle lens

Angle of view: 64°

Number of elements: 7 (5 components)

Filter size: E 39

Internal thread: M 39 x 0.5

Clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.70 m (28 in)

Smallest object field: 430 x 640 mm (17 x 25 in) (about 1 : 18)

Non-rotating focusing mount

Camera finder¹⁾

LEICA M rapid bayonet changer

Black finish

Push-on lens hood

Lens cap dia.: 42 mm

Length from bayonet flange: 26 mm

Diameter: 52 mm

Weight: 0.150 kg

Code No.

35 mm SUMMICRON-M f/2

with lens hood, lens cap and rear cover.....

11 310 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5-17)

¹⁾ In the LEICA M3, the 135 mm bright-line frame is reflected into the viewfinder.

50 mm NOCTILUX-M f/1

for all LEICA M models



High-performance lens of extreme speed

Angle of view: 45°

Number of elements: 7 (6 components)

Filter size: E 60

Internal thread: M 60 x 0.75

Clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 1 m (40 in)

Smallest object field: 410 x 620 mm (16 x 24 in) (about 1 : 17)

Non-rotating focusing mount

Camera finder

LEICA M rapid bayonet changer

Black finish

Push-on lens hood

Lens cap dia.: 62 mm

Length from bayonet flange: 62 mm

Diameter: 69 mm

Weight: 0.580 kg

Code No.

50 mm NOCTILUX-M f/1

with lens hood, lens cap and rear cover.....

11821 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5-17)

50 mm SUMMILUX-M f/1.4

for all LEICA M models



Ultra-high-speed lens

Angle of view: 45°

Number of elements: 7 (5 components)

Filter size: E 43

Internal thread: M 43 x 0.5

Clickstops (from Serial No. 2 048 701 onwards
including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 1 m (40 in)

Smallest object field: 410 x 620 mm (16 x 24 in) (about 1 : 17)

Non-rotating focusing mount

Camera finder

LEICA M rapid bayonet changer

Black finish

Push-on lens hood

Lens cap dia.: 45 mm

Length from bayonet flange: 46 mm

Diameter: 53 mm

Weight: 0.255 kg

Code No.

50 mm SUMMILUX-M f/1.4

with lens hood, lens cap and rear cover.....

11 114 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5 - 17)

50 mm SUMMICRON-M f/2

for all LEICA M models



High-speed universal lens

Angle of view: 45°

Number of elements: 6 (4 components)

Filter size: E 39

Internal thread: M 39 x 0.5

Clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.70 m (28 in)

Smallest object field: 277 x 416 mm (11 x 16.4 in) (about 1 : 11.5)

Non-rotating focusing mount

Camera finder

LEICA M rapid bayonet changer

Black finish

Push-on lens hood

Lens cap dia.: 42 mm

Length from bayonet flange: 42 mm

Diameter: 52 mm

Weight: 0.195 kg

Code No.

50 mm SUMMICRON-M f/2

with lens hood, lens cap and rear cover.....

11819 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5-17)

75 mm SUMMILUX-M f/1.4

for all LEICA M models



Ultra-high-speed, medium focal-length lens

Angle of view: 31°

Number of elements: 7 (5 components)

Filter size: E 60

Internal thread: M 60 x 0.75

Clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 0.75 m

Smallest object field: 192 x 288 mm (8 x 11 in) (about 1:8)

Non-rotating focusing mount

Camera finder

LEICA M rapid bayonet changer

Black finish

Permanently fitted telescopic lens hood

Lens cap dia.: 62 mm

Length from bayonet flange: 80 mm

Diameter: 68 mm

Weight: 0.625 kg

Code No.

75 mm SUMMILUX-M f/1.4

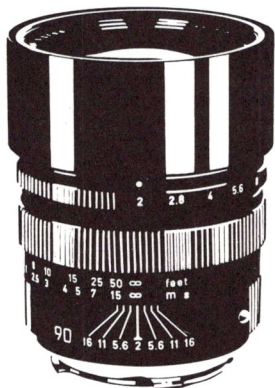
with lens hood, lens cap and rear cover.....

11815 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5 - 17)

90 mm SUMMICRON-M f/2

for all LEICA M models



High-speed press lens

Angle of view: 27°

Number of elements: 5 (4 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Clickstops (including half values)

Smallest aperture: f/16

Combined metre/feet scale

Focusing range: ∞ to 1 m (40 in)

Smallest object field: 220 x 330 mm (8.7 x 13 in) (about 1:9)

Non-rotating focusing mount

LEICA M rapid bayonet changer

Black finish

Permanently fitted telescopic lens hood

Lens cap dia.: 62.5 mm

Length from bayonet flange: 77 mm

Diameter: 62.5 mm

Weight: 0.460 kg

Code No.

90 mm SUMMICRON-M f/2

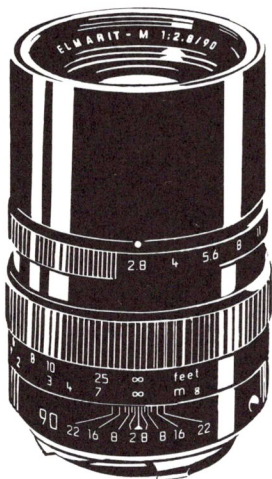
with lens hood, lens cap and rear cover.....

11 136 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5 - 17)

90 mm ELMARIT-M f/2.8

for all LEICA M models



Universal lens of medium focal length

Angle of view: 27°

Number of elements: 4 (4 components)

Filter size: E 46

Internal thread: M 46 x 0.75

Clickstops (including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 1 m (40 in)

Smallest object field: 220 x 330 mm (8.7 x 13 in) (about 1:9)

Non-rotating focusing mount

Camera finder

LEICA M rapid bayonet changer

Black finish

Built-in telescopic lens hood

Lens cap dia.: 54 mm

Length from bayonet flange: 72 mm

Diameter: 56.5 mm

Weight: 0.380 kg

Code No.

90 mm ELMARIT-M f/2.8

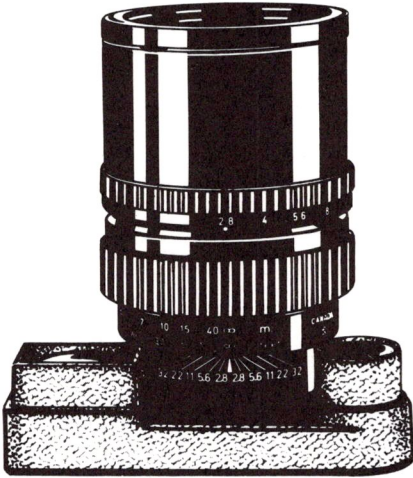
with lens hood, lens cap and rear cover.....

11 807 _____

(Spare lens cap, rear cover, and accessories see page 5 - 17)

135 mm ELMARIT-M f/2.8

with viewfinder front attachment
for all LEICA M models



High-speed telephoto lens

Angle of view: 18°

Number of elements: 5 (4 components)

Filter size: E 55

Internal thread: M 55 x 0.75

Clickstops (including half values)

Smallest aperture: f/32

Combined metre/feet scale

Focusing range: ∞ to 1.50 m (5 ft)

Smallest object field: 220 x 330 mm (8.7 x 13 in) (about 1:9)

Non-rotating focusing mount

Camera finder

LEICA M rapid bayonet changer

Black finish

Lens unit can be unscrewed

Built-in telescopic lens hood

Lens cap dia.: 63.7 mm

Length from bayonet flange: 114 mm

Diameter: 66 mm

Weight: 0.735 kg

Code No.

135 mm ELMARIT-M f/2.8

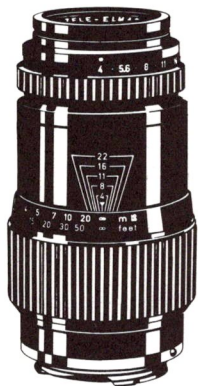
with lens hood, lens cap and rear cover.....

11 829 _____

(Spare lens cap, rear cover, and accessories see page 5 - 17)

135 mm TELE-ELMAR-M f/4

for all LEICA M models



Telephoto lens

Angle of view: 18°

Number of elements: 5 (3 components)

Filter size: E 39

Internal thread: M 39 x 0.5

Clickstops (including half values)

Smallest aperture: f/22

Combined metre/feet scale

Focusing range: ∞ to 1.50 m

Smallest object field: 220 x 330 mm (8.7 x 13 in) (about 1:9)

Non-rotating focusing mount

Camera finder

LEICA M rapid bayonet changer

Black finish

Lens unit can be unscrewed

Push-on lens hood

Lens cap dia.: 42 mm

Length from bayonet flange: 105 mm

Diameter: 59 mm

Weight: 0.550 kg

Code No.

135 mm TELE-ELMAR-M f/4

with lens hood, lens cap and rear cover

11 851 _____

(Spare lens cap, rear cover, lens hood, and accessories see page 5-17)

Accessories for LEICA M lenses

| LEICA M lens | Code No. | Dia- meter | Lens hood (re- place- ment) | Lens hood cover (replace- ment) | Lens cap (re- place- ment) | Rear cover (re- place- ment) | Filter | |
|---------------------------------|----------|---------------|---|---|--|--|--------------------------|--------|
| | | | | | | | or screw in | Series |
| f/2.8/21 from No. 3 363 300 | 11 134 | 62 | 12 543 | — | 14 290 | 14 269 | E 60 | |
| f/2.8/28 from No. 2 977 551 | 11 804 | 51 | 12 536 | — | 14 001 | 14 269 | E 49 | |
| f/1.4/35 | 11 873 | 49 | 12 587 | 14 013 | 14 231 | 14 269 | E 46 | |
| f/1.4/35 from No. 2 166 701 | 11 870 | 42 | 12 504 | — | 14 268 | 14 269 | Series 7 in lens hood | |
| f/2/35 from No. 2 974 251 | 11 310 | 42 | 12 524 | — | 14 268 | 14 269 | E 39 | |
| f/1/50 from No. 3 220 709 | 11 821 | 62 | 12 544 | — | 14 290 | 14 269 | E 60 | |
| f/1.4/50 | 11 114 | 45 | 12 586 | 14 037 | 14 007 | 14 269 | E 43 | |
| f/2/50 from No. 2 915 801 | 11 819 | 42 | 12 538 | 14 033 | 14 268* | 14 269 | E 39 | |
| f/1.4/75 from No. 3 223 301 | 11 815 | 62 | built-in | — | 14 290 | 14 269 | E 60 | |
| f/2/90 from No. 3 177 201 | 11 136 | 62,5 | built-in | — | 14 289 | 14 269 | E 55 | |
| f/2.8/90 from No. 3 462 071 | 11 807 | 54 | built-in | — | 14 231 | 14 269 | E 46 | |
| f/2.8/135 from No. 2 788 927 | 11 829 | 63,7 | built-in | — | 14 289 | 14 269 | E 55 | |
| f/4/135 | 11 851 | 42 | 12 575 | — | 14 268* | 14 269 | E 39 | |

*) offered as an accessory

Brilliant finders and cases

Right-way-round, brilliant image
Superimposed bright picture frame.

Brilliant finder for 21 mm lenses



Code No.

Reproduction scale 0.3, with parallax compensation markings below 2 m,
with case
Case (replacement)

12 008 _____
14 628 _____

Brilliant finder for 28 mm lenses



Reproduction scale 0.5 with line marking for parallax compensation
below about 2 m (6 ft 8 in), with case
Case (replacement)

12 009 _____
14 628 _____

Filters

| Filter | Screw-in filters | | | | | | Series filter |
|-------------------|------------------|--------|--------|--------|--------|--------|---------------|
| | E 39 | E 43 | E 46 | E 49 | E 55 | E 60 | 7 |
| UVa | 13 131 | 13 206 | 13 004 | 13 328 | 13 373 | 13 381 | 13 009 |
| Yellow-green | — | — | — | — | 13 391 | 13 392 | 13 007 |
| Orange | — | — | — | — | 13 312 | 13 383 | 13 008 |
| Polarizing filter | 13 352 A 42 | — | — | — | — | — | — |

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LEICA AF-C1

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LEICA AF-C1



Compact 35 mm viewfinder autofocus camera with motorized changeover for two focal lengths, 40 mm f/2.8 and 80 mm f/5.6. Centre-weighted integral exposure-meter system, automatic correction for excessive contrast. Active multi-beam infra-red autofocus with focus memory. Automatic exposure meter with exposure memory. Built-in fast-sequence flash unit; flash angle automatically adjusts to camera angle of focal length in use; automatic flash release in poor light and extreme contrast. Automatic film threading and motorized film transport.

See page 6-4 for detailed description.

| | Code No. |
|--|---------------------|
| LEICA AF-C1 | 18 001 _____ |
| Accessories: | |
| Ever-ready case | 18 501 _____ |
| Carrying strap with antislip pad (replacement) | 18 515 _____ |

Specifications and technical data

LEICA AF-C 1

Camera type:

Compact 35 mm viewfinder autofocus camera.

Viewfinder system:

Kepler-type telescope viewfinder, adapts automatically to 40 mm and 80 mm focal length.

Variable viewfinder magnification:

0.5x for 40 mm focal length, 1x for 80 mm focal length.

Viewfinder field:

At a range of 3 m, the viewfinder field shows 85% of the field covered by the exposure.

Visible in viewfinder:

Autofocus frame; the camera determines the range for the subject inside this frame. Close-up marks. Green ready light. Green flash ready light. Red flash warning.

Lenses:

Two built-in focal lengths with motorized changeover: 40 mm f/2.8 (4 lenses in 4 lens elements), 80 mm f/5.6 mm (basic lens with 2x converter behind, 3 lenses in 2 elements). Close-up range down to 0.70 m.

Smallest object field:

40 mm focal length: about 580 mm x 380 mm, image scale about 1:16.

80 mm focal length: about 290 mm x 190 mm, image about 1:8.

Autofocus system:

Five separate infra-red beams scan the subject fanwise.

Focusing range of automatic focusing system:

From 0.70 m to infinity.

Focusing memory:

Light pressure on shutter-release button stores measurement and setting.

Exposure-meter system:

Centre-weighted integral exposure-meter mode, with automatic correction in conditions of extreme contrast.

Photo-electric cell:

Above lens.

Measuring range of exposure meter:

8 cd / sq.m to 125 000 cd / sq.m

Working range of exposure meter:

With basic lens: for ISO 100/21° from EV 6 to EV 17, i. e. from 1/8 s at f/2.8 to 1/400 s at f/18.

With telephoto lens: from EV 8 to EV 19, i. e. from 1/8 s at f/5.6 to 1/400 s at f/36.

Exposure memory:

Light pressure on shutter-release button stores measurement and setting.

Automatic program:

Initially, increasing brightness reduces only the shutter speed, while full aperture is maintained. From $1/60$ s onward, both shutter speed and aperture are reduced.

Automatic flash system:

Automatic flash release in poor light and when the available light is inadequate for an exposure free from camera shake. Automatic flash release in extreme contrast. Motorized adjustment of reflector to the focal length in use.

Manual flash override:

Button for optional flash illumination, button to inhibit automatic flash.

Power supply:

6 V 2CR5 lithium battery.

Battery life adequate for about 25 36-exposure films, about 50% with flash.

Low-battery warning.

Film speed:

Camera sets automatically to speed of DX-coded film from ISO 50/18° to 3200/36°.

Shutter:

Software-controlled between-lens-shutter, stepless adjustment of shutter speed from $1/8$ s to $1/400$ s.

Film transport:

The motor automatically winds the film one frame after each exposure.

Automatic threading, automatic rewind at end of film. Manual rewind control possible.

Frame counter; counter reading is stored in memory when the battery is changed.

Switching the camera on and off:

When the lens cover is opened, the camera is ready for exposure with the 40 mm lens.

When the lens cover is closed, all camera functions are switched off.

Camera body:

Closed camera body, reinforced with ribbed rubber finish. Hinged camera back. Eyelets at sides for 11 mm wide adjustable shoulder strap. Standard $1/4$ " type A tripod thread to DIN 4503.

Overall dimensions and weight:

40 mm focal length: 140 mm long x 60 mm wide x 76 mm high.

80 mm focal length: 140 mm long x 83 mm wide x 92 mm high.

Weight without battery 345 g, with battery 385 g.

Contents

LEICA enlargers

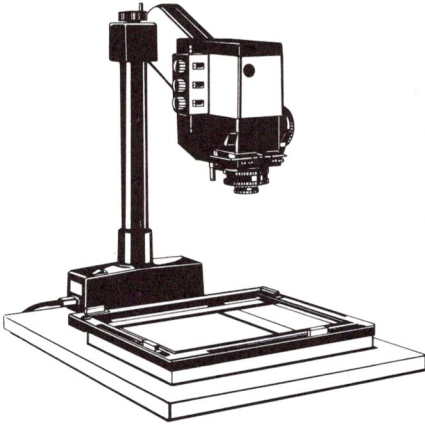
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2. Specifications and technical data

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LEICA V 35



Compact enlarger for colour and black and white with automatic focusing and 40 mm WA-FOCOTAR f/2.8 wide-angle lens,
for: Negative formats 24 x 36 mm,
28 x 28 mm,
13 x 17 mm,
35 mm slides (external format 50 x 50 mm)
with 12 v/75 W tungsten halogen lamp with cold-light mirror,
Extremely long, automatic enlarging range 3 to 16x
with the 40 mm WA-FOCOTAR f/2.8.
30% more enlargement and 70% more picture area (compared with a 50 mm lens).

LEICA V 35

complete with
built-in transformer, mains cable, 12 v/75 W tungsten halogen lamp, cold-light mirror, 24 x 36 mm negative holder, adjusted lens, interchangeable module.

Detailed description see page 7-7.

With 40 mm WA-FOCOTAR f/2.8

Colour version

110 - 250 v (with module)

Code No.

17 411 _____

Black-and-white version

110 - 250 v (with black and white module)

17 407 _____

VARIOCONTRAST version

110 - 250 v (with VARIOCONTRAST module)

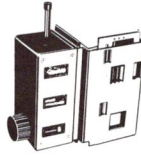
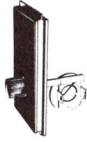
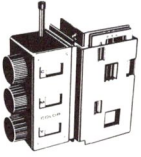
17 412 _____

Mains cable (replacement)

37 644 _____

Accessories for the LEICA V 35

Conversion modules:



Colour module Black-and-white module VARIOCONTRAST module

| | Code No. |
|------------------------------|--------------|
| Colour module | 17 428 _____ |
| Black-and-white module | 17 427 _____ |
| VARIOCONTRAST module | 17 441 _____ |

Negative holders / Slide holder:



| | |
|--|--------------|
| 24 x 36 mm negative holder (replacement, one-sided glass pressure) | 17 003 _____ |
| 28 x 28 mm negative holder | 17 007 _____ |
| 13 x 17 mm negative holder | 17 424 _____ |
| 24 x 36 mm glassless negative holder | 17 009 _____ |
| 24 x 36 mm negative holder with glass-pressure on both sides | 17 002 _____ |
| 25 x 37 mm negative holder for enlargements with black margin | 17 012 _____ |



| | |
|---|--------------|
| Holder for 35 mm slide (external format 50 x 50 mm) | 17 419 _____ |
| Two film trays for the enlargement of uncut films | 17 425 _____ |

LEICA Focometer 2



Microprocessor-controlled automatic exposure meter with exposure control for black-and-white and color processing.

All operation and display elements are illuminated and clearly identifiable in the dark. Arrangement of these elements is optimally adapted to laboratory requirements and thus guarantees reliability and ease of operation.

The different time and metering ranges are coordinated with professional measuring techniques.

Detailed description on page 7 - 11.

Code No.

| | |
|--|---------------------|
| LEICA Focometer 2 220 v version | 17 444 _____ |
| LEICA Focometer 2 110 v version | 17 445 _____ |
| Footswitch for FOCOMETER..... | 17 434 _____ |

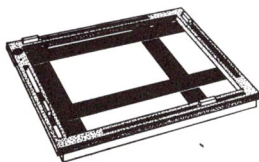
Diffusion disk



Diffusion disk for integral light metering, swivelled into position in front of lens before measurement.

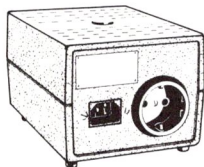
| | |
|-----------------------------|---------------------|
| Diffusion disk | 17 430 _____ |
|-----------------------------|---------------------|

Masking frames



- 24 x 30 cm (10 x 12 in) universal masking frame** (height 25 mm) with 4 adjustable masking strips, combined foot/metre scale **Code-No.**
17 584 _____
- 30 x 40 cm masking frame** (height 30 mm) with 4 adjustable masking strips and adapter ring for the column (only for FOCOMAT Ic) for compensating the greater thickness of this frame **17 586** _____
- Masking frame english system (inch):**
12 x 16 in masking frame (height 1.18) **17 630** _____

Voltage stabilizer



Recommended for colour enlargements in the event of mains fluctuations.
Only for the LEICA V 35.

- Voltage stabilizer: 115 v version** **17 437** _____
- Voltage stabilizer: 230 v version** **17 438** _____

Other accessories:

- Red filter** (to be swivelled in front of the lens, can also be used together with the diffusion (disk) **Code No.**
17 440 _____
- Dust cover** for the enlarger **17 429** _____
- Intermediate ring** for 1:1.3 reproduction scale (8 mm) **17 439** _____
(up to three intermediate rings can be combined, reproduction scale up to 1.15:1)

Replacement lamps:

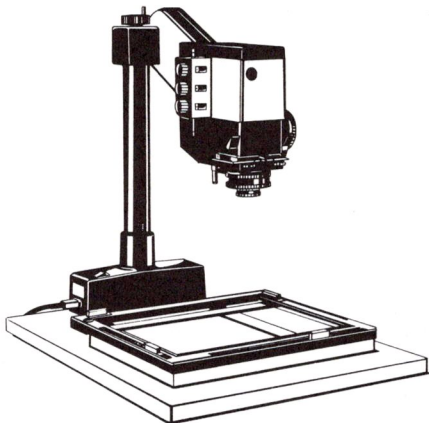
Supply from:

Technical Service of the Leica GmbH or the National LEITZ Agency.
Ordering details: 75 W/12 v, base GZ 6,35 038-101.147-000

Conversion of an existing enlarger from 50 mm Ysaron f/3.5 to the high-performance 40 mm WA-FOCOTAR f/2.8 lens through Technical Service of the Leica GmbH, or authorised workshops of the Agencies.

Specifications and Technical data

LEICA V 35



Type of instrument:

Compact enlarger for colour and black-and-white with automatic focusing and 40 mm WA-FOCOTAR f/2.8 wide-angle lens

for: Negative formats 24 x 36 mm,

28 x 28 mm,

13 x 17 mm,

35 mm transparencies (external format 50 x 50 mm)

with 12 v/75 W tungsten halogen lamp with cold-light mirror.

Extremely large automatic enlarging range 3-16 x with the 40 mm WA-FOCOTAR f/2.8

30 % more enlargement and

70 % more picture area is offered by the 40 mm WA-FOCOTAR compared with a 50 mm lens at the same working distance from the baseboard.

Negative stage:

for negative holder with glassless support exerting one-sided glass pressure (with anti-Newton surface) interchangeable for the formats:

24 x 36 mm* (contained in the basic outfit)

28 x 28 mm

13 x 17 mm

25 x 37 mm

for the 24 x 36 mm glassless negative holder

for the 24 x 36 mm glass negative holder (glass pressure on both sides)

for holder for 35 mm slides (external format 50 x 50 mm) for convenient, rapid colour slide enlargement. After initial focusing automatic focusing within the enlargement range from 3-16 x.

Srew-on film trays.

* = with film number windows

Technical description of the film stage:

The cast part is screwed on to the chassis of the enlarger head.

Film stage aligned parallel to the baseboard at right angles to the optical axis.

Maximum transmission 28 x 36 mm.

Swinging pressure plate exerts spring pressure on the negative or slide holder.

Rapid and easy insertion of the negative or slide holders in the lamp housing when the pressure plate is raised.

The pressure plate is raised for effortless movement of the inserted film strips to the next frame.

Convenient arrangement of the controls on the left and right.

Integrated format masking, continuously adjustable with rotary knobs on the front.

Adjustment facility: from about 37 mm to 3 mm in the x-direction
and

from about 28 mm to 6 mm in the y-direction.

The negative strips of the various formats can be inserted and fixed in position without risk of damage. Single negatives, too, are effectively positioned in the holder. If the anti-Newton disc is damaged the upper pressure plate can be easily exchanged.

Precision autofocusing:

High-precision, durable Autofocus device.

Automatic mechanism prevents wrong/inaccurate focusing.

Rapid continuous focusing within the automatic enlargement range without manual refocusing.

Long Autofocus range with the 40 mm WA-FOCOTAR f/2.8 for enlargements from 72 x 108 mm to 384 x 576 mm, i. e. focusing range with 3 x to 16 x enlargement.

Fibre-optics-illuminated enlargement indication between the swivelling arm and lamp housing. Can be switched for separate indication of the enlarging ratios of 40 or 50 mm lenses. Convenient arrangement of this indication permits reading of the enlarging scale also from a sitting position.

Adjustment range of the focal plane from 0 to 60 mm, for the adaption of the automatic focusing mechanism to different heights of masking frames. Raising of the column to 60 mm = 17.5 x enlargement (manual on the baseboard).

Large baseboard area permits easy and convenient adjustment of the masking frame. "Giant enlargement" when the column is swivelled (floor projection).

The autofocus device saves time and material.

Ideal for croppings.

Adjustment of the lens in the enlarger through a factory-adjusted stainless steel precision cam.

40 mm WA-FOCOTAR f/2.8 enlarging lens:

High-performance wide-angle enlarging lens in the top class (WA = wide angle).

Enlarging lens of the world-famous FOCOTAR series specially computed for the LEICA V 35, with use of highly refractive LEITZ glasses.

Number of elements: 5, modified Gauss type.

Apertures f/2.8 - f/16, with clickstops for full aperture values, can be switched to continuous adjustment. Illuminated aperture scale can be read from the front.

High contrast, high resolving power, very good illumination and excellent colour differentiation ensure brilliant reproduction.

Optimum correction up to 11 x magnification.

Optimum reproduction already from f/5.6 means shorter exposure times and reduced risk of vibration when making giant enlargements. Helical focusing mount on the instrument ensures easy focusing outside the automatic range.

Lamp housing:

Illuminating system developed according to the latest illuminating techniques. Light deflection according to the principle of Ulbricht's sphere in the mixing chamber made of neutral-colour polyalkene foam guarantees:

- high light utilization,
- optimum illumination,
- unsurpassed homogeneity of colours.

The diffuse illuminating system gives soft light, which makes it eminently suitable for colour work.

Modules for colour and black-and-white:

In the black-and-white version of the LEICA V 35 the red filter is part of the module, which is inserted in the lamp housing between the lamp and the light chamber.

The red filter can be swivelled into and out of the optical path with a rotary knob. Rapid and simple exchange of the black-and-white module against the colour module. Colour module with cam-controlled dichroic filters.

The subtractive colour correction filters can be continuously adjusted.

All three filters (Y, M, C) can be swivelled from the optical path simultaneously with preservation of the programmed filter values, and, of course, be swivelled back into it in the programmed state.

The filter density range for Y, M and C extends from 0 to 200 densitometric filter values (this corresponds to 288 Kodak CC densities or 400 Agfa densities).

Control knobs with indicator scale for density values of the dichroic filters are also part of the colour module. The scales are colour-coded, illuminated and arranged in the sequence Y, M, C from bottom to top.

When the colour module is inserted the control knobs are on the left of the lamp housing. Convenient operation from a sitting position.

High linearity of the density curves permits accurate dosage of the filter values throughout the entire range.

Variocontrast module for working with multigrade contrast paper.

Gradation adjustment from extra soft to extra hard.

Easy-to-operate "single-button" for gradation change.

Excellent cooling system:

The cold-light mirror of the horizontally mounted tungsten halogen lamp deflects the heat rays to the rear.

In addition, optimum heat dissipation already at the lamp base through special dissipation principle (cooling ring).

This cooling ring prolongs the life of the lamp.

Additional infra-red suppression filter on the front of the mixing chamber - reflects heat rays.

The IR suppression filter is matched for the spectral sensitivity of the colour materials and suppresses only radiation in the infra-red region.

A deflecting baffle (DBGM design registered) on the outside of the mixing chamber additionally removes heat from the chamber.

Great stability:

Robust steel column, circular cross section, in reflection-reducing black chromium finish rotatably mounted in the large foot of the instrument. Diameter 60 mm. Total height baseboard to swivelling arm 600 mm.

Asymmetrically arranged vertical-adjustment arm, aluminium diecast, rotates on the column in a needle bearing.

Lamp housing rotates on the vertical-adjustment arm.

Vertical-adjustment arm fully screened, with rolling-band mechanism and diagonal spring. This ensures rigid parallel guidance of the lamp housing and weight compensation during vertical adjustment throughout the entire range.

A brake, also integrated in the arm, is operated by release or tightening of the lamp-housing. After release of the handgrip rapid and positive adjustment of the vertical-adjustment arm. After arrest of the clamping knob the lamp housing remains absolutely rigid in the chosen position without any vibration.

Diecast column foot:

The foot of the column contains the transformer, fuse, on/off switch, voltage selector, mains plug and the mechanism for the vertical adjustment. The column can be raised continuously up to 60 mm. Setting by means of a scale.

Large, rigid baseboard:

Professional baseboard with effective white area of 540 x 590 mm.

Shock-absorbing 4-point support.

Additional stabilization of the baseboard through profile steel on the underside.

Space for a large package of enlarging paper under the baseboard.

Electrical data / safety:

All electrical cables are wired inside the instrument and fully protected.

The only cable outside the instrument is the mains cable. Low-voltage transformer built into the foot of the enlarger, hence no separate part to be set up.

Transformer input maximum: 100 W

Input voltage / frequency: 110/220 v / 50 - 60 Hz

Fuses: T 630 mA

Tungsten halogen lamp: 12 v / 75 W with cold-light mirror.

Test symbols: VDE-GS, CSA, DEMKO, NEMKO, SEMKO and SEV safety symbol.

Dimensions and weights:

Height: 600 mm Width: 540 mm Depth: 750 mm

LEICA V35 Autofocus = 21.8 kg

Colour module = 0.475 kg

LEICA Focometer 2



Type: Microprocessor-controlled automatic exposure meter and control system for black-and-white and colour processing.

Modes:

Selector switch on instrument for the following operating modes:

Manual exposure control from 0.1 second to 999 seconds and from 0.1 minute to 99.9 minutes.

Spot measurement from 0.1 second to 999 seconds, measuring range 0.1 lux to 40 lux.

Multispot mode with automatic computation of mean value, from 0.1 second to 999 seconds; range 0.1 to 40 lux.

Gradation, range 0 to 5.

Contrast measurement, range 0.00 to 3.60 log D.

Densitometry, range 0.00 to 3.60 log D.

Illuminance, range 0.01 to 10 lux.

Sensitivity of photographic material: index, measurement, input, and storage of values; range 0.1 to 655 lux/second.

Exposure-meter modes:

Selective mode (spot measurement), field 3 mm x 3 mm; integral, with diffusion screen in front of enlarger lens; semi-integral, by partial integrator fitted to measuring probe, field 25 mm OD.

Measuring probe:

Cable 0.95 mm, plug-and-socket connection; with adapter for partial integrator; press-button control to start measurement.

Photocell:

Silicon photodiode, colour-corrected, field area 3 mm x 3 mm.

Memories:

10 addressable memories for the sensitivity of photographic material, including 3 memories for compensation of different types of reciprocity failure.

Memory back-up:

By built-in battery, for about six months' data security.

Manual override:

In positive and negative directions, in steps of 1/8th stop.

Countdown timer:

Digital display to 0, can be stopped at any time.

Repeatability:

Unlimited.

Electrical connections:

Mains; maximum 880 VA (220 V) or 440 VA (110 V) for enlarger; maximum 880 VA (220 V) or 440 VA (110 VA) for darkroom light; footswitch; measuring probe.

Standard delivery includes:

Black-and-white test negative, test colour slide, diffusing film for integral metering, spare diffusion film for partial integrator.

Mains voltage:

220 V 50/60 Hz, 110 V 50/60 Hz.

Mains fuse:

4 A delayed-action fuse to DIN 41 662.

Test certificates:

VDE, GS.

Contents

LEICA P 2000

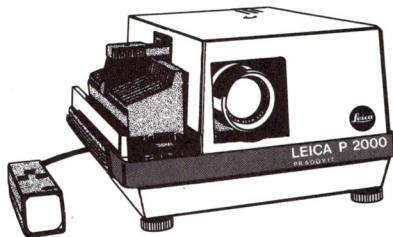
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| Timer-C | |
| PCM infra-red remote control | |
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| Fade-control unit DU-24 P | |
| Fade-control unit DU-24 M | |
| Console for fade projection | |

2. Specifications and technical data

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|---|------|
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LEICA P 2000



Automatic 35 mm slide projector, modern design, for two types of magazines:

LKM magazines (compact, spill-proof) for 60 or 80 slides.

Standard magazines for 36 or 50 slides.

For the projection of the 40 x 40 mm format see page 8 - 5.

Autofocus override in remote control.

Fast slide change of 1 s.

Economy switch.

High optical performance

with the 90 mm COLORPLAN f/2.5 for glass-mounted slides

with the 90 mm COLORPLAN-CF f/2.5 for unglazed slides.

Projector lenses from 35 - 300 mm focal length.

Zoom projector lenses 60 - 110 mm, 110 - 200 mm.

Officially tested, with VDE and GS test symbol.

Detailed description page 8 - 9.

LEICA P 2000 with autofocus (adjustable 110 - 240 v/50 - 60 Hz)

with built-in Triac and 14-pin socket (10 pins in use) for dissolve projection: complete with 24 v/250 W lamp, connecting cable, cable remote control, 60-slide LKM magazine, interchangeable condenser, sleeve and lens:

| | | | Code No. |
|--------------|-----------------------|------------------------|---------------------|
| 35 mm * | ELMARON-P | f/2.8 | 30 706 _____ |
| 50 mm ** | ELMARIT-P | f/2.8 | 30 707 _____ |
| 60 mm *** | ELMARON-P | f/2.8 | 30 708 _____ |
| 85 mm | ELMARON-P | f/2.8 | 30 709 _____ |
| 90 mm | COLORPLAN-P | f/2.5 | 30 710 _____ |
| 90 mm | COLORPLAN-P CF | f/2.5 | 30 711 _____ |
| 120 mm | ELMARON-P | f/2.8 | 30 712 _____ |
| 150 mm | ELMARIT-P | f/2.8 | 30 713 _____ |
| 200 mm | ELMARON-P | f/3.4 | 30 714 _____ |
| 250 mm | ELMARON-P | f/4 | 30 715 _____ |
| 300 mm | EPNOR-P | f/4.3 | 30 716 _____ |

Body without lens, **but with** sleeve 35 - 200, cable remote control, connecting cable, 60-slide LKM magazine, 50 - 200 interchangeable condenser and 24 v/250 W lamp 30 697 _____

Extension cable, 8-pin for remote control (10 m) **37 957** _____

* Only up to 24 x 36 mm (35 mm) format and 45 slides in the LKM magazine or 30 slides in the standard magazine.

** Only up to 24 x 36 mm format not for 80-slide LKM magazine or 50-slide standard magazine.

*** Up to effective 40 x 40 mm format not for 80-slide LKM magazine or 50-slide standard magazine.

Accessories for the LEICA P 2000

Dissolve projection

See page 8 - 7

Hood



Code No.

for projector with lenses of up to 120 mm focal length (except for zoom lenses) protecting it against dust, and serving as a projector base with projection area.

Hood for LEICA P 2000 **37 985** _____

Case



Case for projector with lens of up to 250 mm focal length **37 961** _____

Projector lenses

| | | | | | |
|------------------------|-----------------------|------------------------------------|-------|---------------|-------|
| 35 mm ¹⁾ | ELMARON-P | f/2.8 | ..... | 37 041 | _____ |
| 50 mm ²⁾ 4) | ELMARIT-P | f/2.8 | ..... | 37 011 | _____ |
| 60 mm ³⁾ | ELMARON-P | f/2.8 | ..... | 37 004 | _____ |
| 85 mm | ELMARON-P | f/2.8 | ..... | 37 003 | _____ |
| 90 mm | COLORPLAN-P | f/2.5 | ..... | 37 005 | _____ |
| 90 mm | COLORPLAN-P CF | f/2.5 | ..... | 37 015 | _____ |
| 120 mm | ELMARON-P | f/2.8 | ..... | 37 022 | _____ |
| 120 mm | ELMARIT-P CF | f/2.8 | ..... | 37 012 | _____ |
| 150 mm | ELMARIT-P | f/2.8 | ..... | 37 017 | _____ |
| 150 mm | ELMARIT-P CF | f/2.8 (Ø 42.5 mm) | ..... | 37 013 | _____ |
| 200 mm | ELMARON-P | f/3.4 (Ø 42.5 mm) ⁴⁾ | | 37 009 | _____ |
| 250 mm | ELMARON-P | f/4 | ..... | 37 082 | _____ |
| 300 mm | EPNOR-P | f/4.3 | ..... | 34 837 | _____ |
| 60 - 110 mm | VARIO-ELMARON-P | f/3.5 (Ø 42.5 mm) ⁵⁾ | | 37 026 | _____ |
| 110 - 200 mm | VARIO-ELMARON-P | f/3.5 (Ø 42.5 mm) ⁴⁾ 5) | ..... | 37 027 | _____ |

¹⁾ Only up to 24 x 36 mm format and 45 slides in the LKM-magazine or 30 slides in the standard magazine.

²⁾ Up to 24 x 36 mm format only, not for 80-slide LKM magazine or 50-slide standard magazine.

³⁾ Up to effective 40 x 40 mm format, not for 80-slide LKM magazine or 50-slide standard magazine.

⁴⁾ Can be used with the standard condenser 50 - 150.

⁵⁾ Only up to 24 x 36 mm format.

Lens sleeves

| | Code No. |
|---|--------------|
| for 35 – 200 mm focal length and lenses of 42.5 mm diameter | 37 119 _____ |
| for 250 mm focal length | 37 130 _____ |
| for 300 mm focal length | 34 640 _____ |

Interchangeable condensers (24 x 36)

| | |
|--|--------------|
| for 35 mm | 37 223 _____ |
| for 50 – 200 mm (standard condenser) | 37 224 _____ |
| for 250 – 300 mm | 37 225 _____ |

Accessories for 40 x 40

| | |
|--------------------------------------|--------------|
| Interchangeable condensers (40 x 40) | |
| for 60 – 200 mm | 37 227 _____ |
| for 250 – 300 mm | 37 228 _____ |
| Aspherical lens for 40 x 40 | 37 226 _____ |

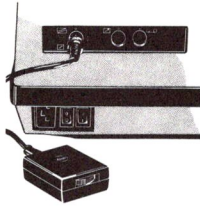
Spare parts

| | |
|---|--------------|
| Cable remote control (3 m) with light pointer | 37 939 _____ |
| Mains cable | 37 644 _____ |

Projector lamps, light pointer and AF lamps

Replacements obtainable from the Leica Service Centre or the local Leica agency. Please state technical details in full.

Timer-C



Sturdy plastic body.

Interval-setting wheel, adjustable from about 3 to about 30 seconds, figures engraved and inlaid in white. 0.60 m cable, 10-pin plug.

For use with any PRADOVIT fitted with 14-pin (10 pins in use) socket.

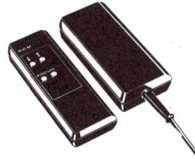
See page 8 - 12 for detailed description.

Timer-C complete

Code No.

37986 _____

PCM infra-red remote control



Range about 20 m.

0.60 m cable link, 10-pin plug for projector's 14-pin (10 pins in use) remote-control socket.

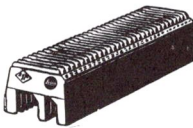
Power supplied by 9 V IEC 6 F 22 battery.

See page 8 - 12 for detailed description.

PCM infra-red remote control, complete, without 9 V battery (IEC 6 F 22)

37988 _____

Magazines



LKM stacking box with 2 60-slide magazines

37979 _____

LKM-stacking box with 2 80-slide magazines

37980 _____

Stacking box with 2 36-slide standard magazines

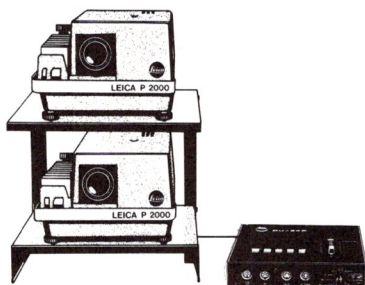
37844 _____

Stacking box with 2 50-slide standard magazines

37855 _____

Fade projection

Fade-control unit DU-24 P



For two projectors with recording facility for cassette and soundtrack.

Uses:

Projection in the home, lecturing, advertising, teaching and information.

Detailed description page 8 - 13.

Code No.

Fade-control unit DU-24 P

with coupling cable for "free head" and junction pieces 1 and 2

37 637 _____

Accessories:

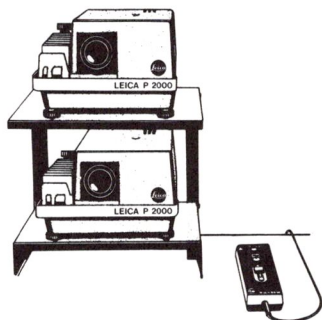
Handset P with 2 m connecting cable

37 638 _____

10 m extension cable (7-pin) for handset P

37 636 _____

Fade-control unit DU-24 M



For two projectors for manual fade-control.

Uses:

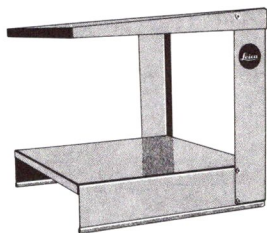
Projection in the home, lecturing, advertising, teaching and information.

Detailed description page 8 - 15.

Fade-control unit DU-24 M

37 987 _____

Console for fade projection



On this console two PRADOVIT projectors are installed above each other, free from vibration.

Detailed description page 8 - 16.

PRADOVIT console Code No. **37972** _____

Possibility of combining projectors

All automatic 35 mm PRADOVIT projectors with a built-in triac for lamp control can be used with the DU-24 P control unit:

PRADOVIT C 1500, CA 1500, C 2500, CA 2500, CA 2502, COLOR 2, LEICA P 2000, PRADOVIT S and S / AF,

PRADOVIT R 150, RA 150, R 152, RA 152,

PRADOVIT 253 DU and 153 DU, LEICA P 253 DU and 153 DU,

PRADOVIT COLOR – 150 or 250 W with or without autofocus.

Mixed coupling of these projectors is also possible, but it is recommended that they have the same lamp output.

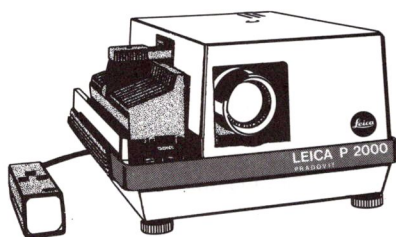
On account of their convenient operation PRADOVIT projectors with autofocus are preferable.

The Leica Service Centre or any authorized dealer's workshop can subsequently modify existing PRADOVIT C/CA, S, S/AF, R/RA, and PRADOVIT COLOR projectors for use with DU-24 P and DU-24 M dissolve-control units.

Any modified projector with 14-pin socket wired for 10-pin plug and built-in triac may be used as usual as a single projector without an additional dummy plug.

Specifications and technical data

LEICA P 2000



Type of projector:

Automatic 35 mm slide projector.

Slide formats:

Optimised for the 24 x 36 mm format.

For the superslide format (40 x 40 mm) a special condenser and aspherical 40 x 40 mm illuminating lens should be used.

Magazine systems:

Standard magazines for 36 or 50 slides.

LKM magazines for 60 or 80 slides.

Magazine guide and slide transport:

Free access to the slide space of the projector.

Convenient insertion of the magazines without previous switchover.

Easy switching between LKM and standard magazines with swivelling arm on the slide claw.

Simple guide of the slide magazine in the magazine trough.

Good sliding properties and excellent heat insulation.

Perfect slide transport with a positively guided claw and sliding elements made of stainless steel. Projects all types of mount (mount according to DIN 108).

Dark phase between slides approx. 1 sec.

Automatic closure of the slide when an empty claw is moved into the optical path.

Low-noise slide transport and change.

When the slide claw is pulled out, the slide magazine can be moved backward or forward as required.

Body:

High-quality aluminium diecast of stylish design and optimum stability.

Silver grey metallic finish and dark centre band result in an attractive appearance.

Quiet, high-precision function.

Very stable three-point support.

Vertical adjustment with knurled screws for precise horizontal alignment.

Socket for mains cable.

On / off switch.

Dimmer switch for the lamp.

Slide-changing button.

Carrying handle.

Lenses:

Excellent optical performance, optimum image quality through

90 mm COLORPLAN-P f/2.5 for glass-mounted slides

90 mm COLORPLAN-P CF (curved field) f/2.5 for other slides, and through lenses from 35 to 300 mm focal length.

Meeting all requirements from wide-angle projection to the bridging of long distances.

Illuminating system:

24 v/250 W tungsten halogen lamp:

Projectors supplied complete with lamp. Optimum lamp centration carried out in the factory.

Easy change of the projector lamp.

Modern, aspherical condenser system, optimised for the 24 x 36 mm format.

Condensers interchangeable – for the 24 x 36 mm format:

35 mm lens

50 – 200 mm lenses

250 – 300 mm lenses

On request, superslide format (40 x 40 mm) – through exchange of the aspherical condenser and of the interchangeable condenser for 60 – 200 mm and 250 – 300 mm projector lenses.

Illumination of the slides in conjunction with the aspherical condenser system radiantly bright from corner to corner.

Uniformity of illumination more than 80% (referred to the 90 mm COLORPLAN-P f/2.5 and 24 x 36 mm slide size).

Effective light flux: to DIN 19 021 standard, referred to 24 x 36 mm slide size and 90 mm COLORPLAN-P f/2.5: 950 lm.

Slide gauge temperature to DIN 19 021 standard: 65°C (rise in temperature 49 K).

Dimmer switch (separate switch) für roughly doubling the life of the lamp.

Autofocus device:

Automatic focusing with override.

Extremely high, extremely rapid response sensitivity through silicon photo elements.

High focusing accuracy.

Autofocus override allows any correction through remote control, without any change in the basic setting, which is fully restored after each slide change.

Autofocus device independent of the centration of the projector lamp owing to its own light source. Focusing already in the dark phase (dissolve projection).

Automatic middle position after magazine change.

Slide change through:

Forwards and reverse with

Slide change button on projector,

Cable remote release (with focusable light pointer),

Infra-red remote control PCM.

Forwards with

Timer,

Slide control units (soundtrack),

Dissolve control units.

Sockets:

Socket, 14-pin (10 pins in use) for connection of DU-24 P or DU-24 M dissolve control units and infra-red remote control PCM.

Socket, 8-pin for remote control.

Socket, 6-pin wired to DIN standards. Facility for connecting soundtrack or slide control units and Timer.

Simultaneous use of the remote-control cable and slide control unit (without any additional twin plugs) through these two sockets.

Built-in triac for lamp modulation.

Other possibilities:

Timer, which can be connected for automatic showing with adjustable time interval.

IR remote control, attachable, without wires.

Dissolve devices (with or without soundtrack control).

Cooling system:

2-channel blower for optimum cooling.

Separate cooling air streams for slide gate and lamp through ingenious 2-channel radial blower.

In addition: 2.7 mm - thick heat filter (KGI glass for the absorption of the infra-red rays).

Extremely quiet blower running.

Mains connection:

Voltage selector 110 - 240 v/50 - 60 Hz in all models.

Electrical safety:

VDE or GS and interference suppression symbol, Semko, Nemko, Demko and SEV.

Thermostat:

Built-in. Automatically switches current off during overheating (for instance with a broken fanbelt).

Dimensions and weight:

Length: 335 mm, width: 270 mm, height: 165 mm.

Weight: about 9 kg depending on the outfit.

Standard outfit:

Projector with carrying handle.

2.5 m mains cable, detachable.

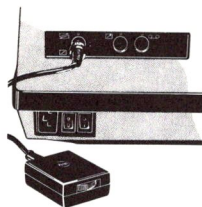
Tungsten halogen lamp centred in the factory.

Cable remote control, 3 m, detachable, with light pointer.

60-slide standard magazine.

Customer's choice of projector lens (35 mm - 300 mm).

Timer-C



For use with any projector fitted with a 14-pin socket wired for a 10-pin plug to DIN 45 322.

Robust plastic body, with black grained surface. Interval-setting wheel, adjustable from about 3 s to 30 s, figures engraved and inlaid in white. 0.60 m cable, 10-pin plug. The cable is long enough for any desired set-up next to the projector.

The Timer-C is suitable for the following projectors: LEICA P 2000, PRADOVIT COLOR 2, PRADOVIT CA 2502, and PRADOVIT 2500 equipped for fade control, LEICA P 153 / 253 and for PRADOVIT 153 / 253 models. Please contact the Leica Service Centre or your national Leica agency for information on connecting other PRADOVIT projectors.

Dimensions:

Length 65 mm, width 50 mm, height 23.5 mm.

PCM infra-red remote control



Range about 20 m.

Detector in robust plastic housing, modern design.

0.60m cable link, 10-pin plug.

Transmitter in handy, robust plastic housing.

Powered by 9 v IEC 6 F 22 battery.

Four transmitting channels with a push-button each for slide transport forward, slide transport reverse and focusing forward and focusing reverse.

Push-buttons conveniently and practically arranged.

Dimensions and weight:

IR detector:

Length 130 mm, width 63 mm, height 32 mm

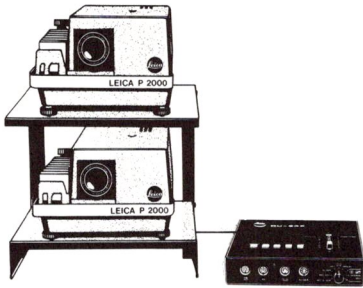
Weight 0.140 kg

IR transmitter:

Length 140 mm, width 52 mm, height 27 mm

Weight 0.080 kg

DU-24 P fade-control unit



for two projectors with recording facility for cassette and tape.

Uses:

Home projection, lecturing, advertising, teaching and communication.

Brief technical description and function:

Control unit for continuous gradual and cut fades.

No time limit for gradual fades.

24 v supply through the modified projectors with built-in triac for lamp control, hence no heating of the control unit.

Handpiece with slider with integrated switches for slide change in the end position. Light change of the projectors can be repeated as often as desired, because slide transport is not coupled.

"Fade" key for 1 to 10 second dissolve with subsequent slide change.

"Cut" key for hard fade with subsequent slide change.

"Flip" key for hard fade without subsequent slide change.

"Super" key for superimposition of the second slide as long as the key is pressed, then slide change.

"Record" key for recording the control signals on tape.

Multifunction slider.

The built-in signalling device controls the fade of the projectors through its frequency modulation. A signal of this frequency modulation can be recorded on a cassette or stereo tape recorder without difficulty (AV instruments).

Black metal housing with bright front plate. All contents are arranged on the front.

10-pin socket for the connection of the handset P, available as an accessory.

6-pin socket for the connection of cassette recorders with built-in AV head or reel tape units with AV head (the slide control unit cannot be used for this purpose).

5-pin socket (for stereo plug) for the connection of stereo tape recorders for multi-play methods.

Warning light to check the control signal.

Two 0.75 m connecting cables with 10-pin plugs for the projectors at the back of the control unit.

No additional mains cable required.

Handset with 2 m connecting cable, with the following controls:

Slider switch for dissolve control.

Operating mode switch with 3 positions:

"Record" – normal position for manual dissolve and tape recording.

"Play" – automatic signal processing from the tape.

"Erase" – erasure of the recorded signal.

"Flip-over button" – rapid dissolve without slide transport.

Coupling cable for "free head" and junction pieces 1 and 2 are part of the outfit.

Accessories:

Handset P with 2 m connecting cable.

7-pin extension cable (10 m) for handset P.

Possibility of combining the projectors:

All the automatic PRADOVIT 35 mm projectors which have the conversion kit with built-in triac for lamp control can be used with the DU-24 P control unit:

PRADOVIT C 1500, CA 1500, C 2500, CA 2500, CA 2502, COLOR 2, LEICA P 2000,

PRADOVIT S- and PRADOVIT S / AF,

PRADOVIT R 150, RA 150, R 152, RA 152, 153 DU, 253 DU,

LEICA P 153 DU / 253 DU,

PRADOVIT COLOR – 150 or 250 W with and without autofocus.

The projectors to be coupled need not be identical, but the combination of instruments of the same lamp power is recommended.

On account of operating convenience PRADOVIT projectors with Autofocus are preferable.

Dimensions and weights:

Control unit:

Length 230 mm, width 215 mm, height 55 mm

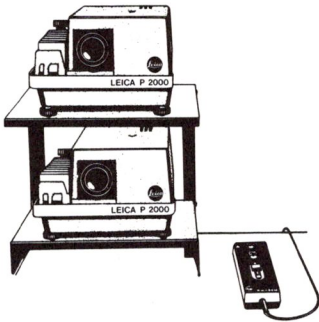
Weight 2.14 kg

Handset:

Length 150 mm, width 55 mm, height 43 mm

Weight 0.29 kg

DU-24 M fade-control unit



for 2 projectors for manual fade-control.

Uses:

Home projection, lecturing, advertising, teaching and communication.

Brief technical description and function:

Hand piece with all controls.

Push-button for triggering the dissolve and slide change of the "dark" projector.

Dial for the pre-selection of the desired time from cut to up to about 5 sec. dissolve.

Push-button for switching on the built-in light pointer.

Dial for switching on the built-in timer and presetting the required interval from about 6 to about 60 seconds permits "automated projection".

Connecting cable, length 3 m, dividing after 2.5 m for connection to the two projectors. 10-pin plugs for the projectors.

Possibility of combining the projectors:

All automatic 35 mm PRADOVIT projectors which have the conversion kit with built-in triac for lamp control can be used with the control unit DU-24 M:

PRADOVIT C 1500,, CA 1500, C 2500, CA 2500, CA 2502, COLOR 2, LEICA P 2000

PRADOVIT S, PRADOVIT S / AF,

PRADOVIT R 150, RA 150, R 152, RA 152, 153 DU, 253 DU,

LEICA P 153 DU / 253 DU

PRADOVIT COLOR 150 or 250 W with and without autofocus.

The projectors to be coupled need not be identical, but the combination of instruments of the same lamp power is recommended.

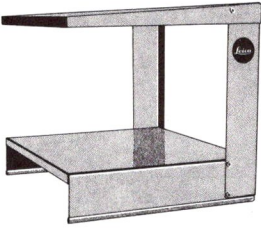
In the interest of operating convenience PRADOVIT projectors with autofocus are preferable.

Dimensions and weight:

Length 155 mm, width 65 mm, height 35 mm.

Weight: 0.390 kg

Console for fade projection



With this console two projectors are set up vibration-free above each other. This saves space and moves the optical axes of the dissolve projectors as closely together as possible (optimum coincidence of the projected images).

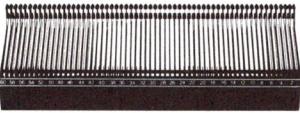
Two rubber strips ensure secure installation.

Dimensions and weight:

Length 325 mm, width 355 mm, height 300 mm

Weight 4.2 kg

LKM magazine system for 60 and 80 slides



The new LKM system has five distinct advantages:

1. It can be used for all sorts of slide frames up to 2 mm thickness.
2. It's spillproof.
3. It is compact and space-saving.
4. Its stacking containers easily fit the stacking containers of the standard magazine system, thus facilitating slide storage.
5. Slides can easily be removed from the magazine, even when it's in the projector.

Contents

LEICA P 253 models **LEICA P 153 models**

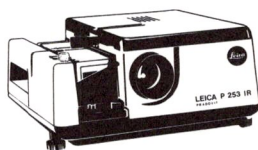
1. Product range

| | |
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2. Specifications and technical data

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LEICA P 253 models



Automatic 35 mm slide projector of modern design for three magazine systems:
LKM magazines (compact, non-spill) for 60 or 80 slides.
Standard magazines for 36 or 50 slides.
CS magazines.

Removable slide stage (editor).
Autofocus override in the remote control.
Appliance cable, length 2.0 m.
Rapid slide change, 1.2 sec.

High optical performance through
90 mm COLORPLAN-P f/2.5 for glass-mounted slides or
90 mm COLORPLAN-P CF f/2.5 for other slides.
Projection lenses from 50 - 150 mm focal length and
zoom projection lens 60 - 110 mm focal length.

Officially tested, GS and international test symbols.

LEICA P 253

Standard projector with autofocus, cable remote control, 24 v/250 W lamp.

LEICA P 253 IR

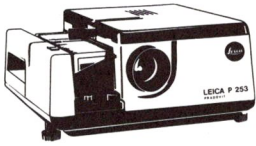
High-comfort projector with autofocus, infra-red remote control, rapid lamp changer with two 24 v/150 W lamps.

LEICA P 253 DU

Projector for use mainly in fade projection, with built-in triac, autofocus, cable-operated remote control, rapid lamp changer with two 24 V 250 W

Detailed description on page 9 - 15.

LEICA P 253



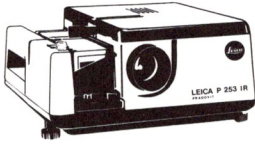
Standard projector with autofocus, cable remote control, 24 v / 250 W lamp.

LEICA P 253 with autofocus (220 v / 50 Hz)
complete with 24 v / 250 W lamp, cable remote control, 60-slide LKM
magazine and lens:

| | | Code No. |
|---|--------------------|---------------------|
| 50 mm * ELMARIT-P | f/2.8 | 30 730 _____ |
| 85 mm ELMARON-P | f/2.8 | 30 731 _____ |
| 90 mm COLORPLAN-P | f/2.5 | 30 732 _____ |
| 90 mm COLORPLAN-P CF | f/2.5 | 30 733 _____ |
| 120 mm ELMARON-P | f/2.8 | 30 734 _____ |
| 150 mm ELMARIT-P | f/2.8 | 30 735 _____ |
| Body without lens, but with 24 v / 250 W lamp, cable remote control and 60-slide magazine | | 30 729 _____ |
| Case for dust-free storage | | 37 416 _____ |
| Magazines see page 9 - 12. | | |
| Replacement part | | |
| Cable remote control 253 (3 m) with light pointer | | 37 639 _____ |

* Not for 80-slide LKM magazines, 50-slide standard magazines, or 100-slide CS magazines.

LEICA P 253 IR



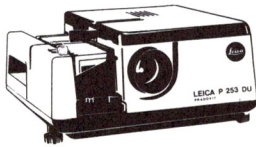
Luxury projector with autofocus, infra-red remote control (without battery 9 v, IEC 6 F 22), rapid lamp changer with two 24 v / 250 W lamps.

LEICA P 253 IR with autofocus (adjustable 110 – 240 v / 50 – 60 Hz) complete with two 24 v / 250 W lamps, IR remote control, 60-slide LKM magazine and lens:

| | Code No. |
|---|---------------------|
| 50 mm * ELMARIT-P f/2.8 | 30 736 _____ |
| 85 mm ELMARON-P f/2.8 | 30 746 _____ |
| 90 mm COLORPLAN-P f/2.5 | 30 756 _____ |
| 90 mm COLORPLAN-P CF f/2.5 | 30 766 _____ |
| 120 mm ELMARON-P f/2.8 | 30 776 _____ |
| 150 mm ELMARIT-P f/2.8 | 30 786 _____ |
| Body without lens, but with 24 v / 250 W lamp, IR remote control and 60-slide LKM magazine | 30 726 _____ |
| Case for dust-free storage | 37 416 _____ |
| Magazines see page 9 – 12. | |
| Spare part | |
| IR remote control (without battery 9 v, IEC 6 F 22) | 37 989 _____ |

* Not for 80-slide LKM magazines, 50-slide standard magazines, or 100-slide CS magazines.

LEICA P 253 DU



Mainly for dissolve projection, with built-in triac, autofocus, cable remote control, rapid lamp changer with two 24 v / 250 W lamps.

LEICA P 253 DU with autofocus (adjustable 110 – 240 v / 50 – 60 Hz) complete with two 24 v / 250 W lamps, cable remote control, 60-slide LKM magazine and lens:

| | | Code No. |
|-----------------------------|--------------------|---------------------|
| 50 mm * ELMARIT-P | f/2.8 | 30 790 _____ |
| 85 mm ELMARON-P | f/2.8 | 30 791 _____ |
| 90 mm COLORPLAN-P | f/2.5 | 30 792 _____ |
| 90 mm COLORPLAN-P CF | f/2.5 | 30 793 _____ |
| 120 mm ELMARON-P | f/2.8 | 30 794 _____ |
| 150 mm ELMARIT-P | f/2.8 | 30 795 _____ |

Body without lens, **but with** two 24 v/250 W lamps, cable remote control and 60-slide LKM magazine..... 30 789 _____

Case for dust-free storage 37 416 _____

Magazines see page 9 – 12.

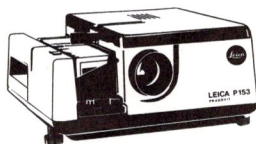
Dissolve projection see page 9 – 13.

Replacement part

Cable remote control 153 / 253 (3 m) with light pointer 37 639 _____

* Not for 80-slide LKM magazines, 50-slide standard magazines, or 100-slide CS magazines.

LEICA P 153 models



Automatic 35 mm slide projector of modern design for three magazine systems:
LKM magazines (compact, non-spill) for 60 or 80 slides.
Standard magazines for 36 or 50 slides.
CS magazines.

Removable slide stage (editor).
Autofocus override in the remote control.
Appliance cable, length 2.0 m.
Rapid slide change, 1.2 sec.
High optical performance through

90 mm COLORPLAN-P f/2.5 for glass-mounted slides or
90 mm COLORPLAN-P CF f/2.5 for other slides.
Projection lenses from 50 - 150 mm focal length an
zoom projection lens 60 - 110 mm focal length.

Quality tested, GS and international test symbols.

LEICA P 153

Standard projector with autofocus, cable remote control, 24 v / 150 W lamp.

LEICA P 153 IR

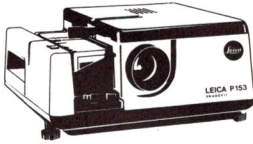
Luxury projector with autofocus, infra-red remote control, rapid lamp changer with two 24 v / 150 W lamps.

LEICA P 153 DU

Projector mainly for dissolve projection, with built-in triac, autofocus, cable remote control, rapid lamp changer with two 24 v / 150 W lamps.

Detailed descriptions see page 9 - 17.

LEICA P 153



Standard projector with autofocus, cable remote control, 24 v / 150 W lamp.

LEICA P 153 with autofocus (220 v / 50 Hz)

complete with 24 v / 150 W lamp, cable remote control, 60-slides LKM magazine and lens:

| | | Code No. |
|-----------------------------|--------------------|---------------------|
| 50 mm * ELMARIT-P | f/2.8 | 30 607 _____ |
| 85 mm ELMARON-P | f/2.8 | 30 608 _____ |
| 90 mm COLORPLAN-P | f/2.5 | 30 609 _____ |
| 90 mm COLORPLAN-P CF | f/2.5 | 30 610 _____ |
| 120 mm ELMARON-P | f/2.8 | 30 611 _____ |
| 150 mm ELMARIT-P | f/2.8 | 30 687 _____ |

Body without lens, **but with** 24 v / 150 W lamp, cable remote control and 60-slide LKM magazine 30 657 _____

LEICA P 153 with autofocus (adjustable 110 - 240 v / 50 - 60 Hz)

complete with 24 v / 150 W lamp, cable remote control, 60-slide LKM magazine and lens:

| | | |
|-----------------------------|--------------------|---------------------|
| 50 mm * ELMARIT-P | f/2.8 | 30 627 _____ |
| 85 mm ELMARON-P | f/2.8 | 30 628 _____ |
| 90 mm COLORPLAN-P | f/2.5 | 30 629 _____ |
| 90 mm COLORPLAN-P CF | f/2.5 | 30 630 _____ |
| 120 mm ELMARON-P | f/2.8 | 30 631 _____ |
| 150 mm ELMARIT-P | f/2.8 | 30 688 _____ |

Body without lens, **but with** 24 v / 150 W lamp, cable remote control and 60-slide magazine 30 658 _____

Case for dust-free storage 37 416 _____

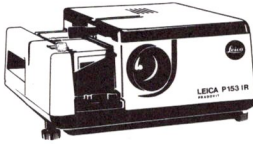
Magazines see page 9 - 12.

Replacement part

Cable remote control 153 (3 m) with light pointer 37 639 _____

* Not for 80-slide LKM magazines, 50-slide magazines, or 100-slide CS magazines.

LEICA P 153 IR



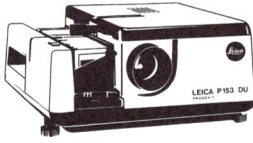
Luxury projector with autofocus, infra-red remote control (without battery 9 v, IEC 6 F 22), rapid lamp changer with two 24 v / 150 W lamps.

LEICA P 153 IR with autofocus (adjustable 110 – 240 v / 50 – 60 Hz) complete with two 24 v / 150 W lamps, IR remote control, 60-slide LKM magazines and lens:

| | Code No. |
|--|---------------------|
| 50 mm * ELMARIT-P f/2.8 | 30 633 _____ |
| 85 mm ELMARON-P f/2.8 | 30 643 _____ |
| 90 mm COLORPLAN-P f/2.5 | 30 667 _____ |
| 90 mm COLORPLAN-P CF f/2.5 | 30 668 _____ |
| 120 mm ELMARON-P f/2.8 | 30 669 _____ |
| 150 mm ELMARIT-P f/2.8 | 30 670 _____ |
| Body without lens, but with 24 v / 150 W lamp, IR remote control, and 60-slide LKM magazine | 30 600 _____ |
| Case for dust-free storage | 37 416 _____ |
| Magazines see page 9 – 12. | |
| Spare part | |
| IR remote control (without battery 9 V, IEC 6 F 22) | 37 989 _____ |

* Not for 80-slide LKM magazines, 50-slide standard magazines, or 100-slide CS magazines.

LEICA P 153 DU



Mainly for dissolve projection, with built-in triac, autofocus, cable remote control, rapid lamp changer with two 24 v / 150 W lamps.

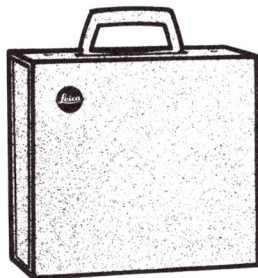
LEICA P 153 DU with autofocus (adjustable 110 - 240 v / 50 - 60 Hz) complete with two 24 v / 150 W lamps, cable remote control, 60-slide LKM magazine and lens:

| | | Code No. |
|--|--------------------|---------------------|
| 50 mm * ELMARIT-P | f/2.8 | 30 677 _____ |
| 85 mm ELMARON-P | f/2.8 | 30 678 _____ |
| 90 mm COLORPLAN-P | f/2.5 | 30 679 _____ |
| 90 mm COLORPLAN-P CF | f/2.5 | 30 680 _____ |
| 120 mm ELMARON-P | f/2.8 | 30 681 _____ |
| 150 mm ELMARIT-P | f/2.8 | 30 691 _____ |
| Body without lens, but with two 24 v/150 W lamps, cable remote control and 60-slide LKM magazine..... | | 30 605 _____ |
| Case for dust-free storage | | 37 416 _____ |
| Magazines see page 9 - 12. | | |
| Fade projection see page 9 - 13. | | |
| Replacement part | | |
| Cable remote control 153 (3 m) with light pointer | | 37 639 _____ |

* Not for 80-slide LKM magazines, 50-slide standard magazines, or 100-slide CS magazines.

Accessories for LEICA P 253 models LEICA P 153 models

Case



- Case for dust-free storage
- Multiple plug** (6- and 10-pin) for instance for the connection of the slide control unit (tape coupling)
- Extension cable** for remote control, 10 m.

| | |
|---------------|-------|
| Code No. | |
| 37 416 | _____ |
| 37 641 | _____ |
| 37 642 | _____ |

Projector lenses

| | | |
|-----------------------------|------------------------|---------------------|
| 50 mm * ELMARIT-P | f/2.8 | 37 011 _____ |
| 85 mm ELMARON-P | f/2.8 | 37 003 _____ |
| 90 mm COLORPLAN-P | f/2.5 | 37 005 _____ |
| 90 mm COLORPLAN-P CF | f/2.5 | 37 015 _____ |
| 120 mm ELMARON-P | f/2.8 | 37 022 _____ |
| 120 mm ELMARIT-P CF | f/2.8 | 37 012 _____ |
| 150 mm ELMARIT-P | f/2.8 | 37 017 _____ |
| 150 mm ELMARIT-P CF | f/2.8 | 37 013 _____ |
| 60 - 110 mm VARIO-ELMARON-P | f/3.5 | 37 026 _____ |

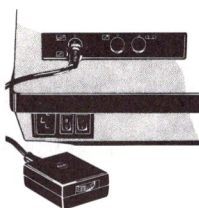
Spare parts

Projector lamps, light pointer and AF lamps

Replacements obtainable from the Leica Service Centre or the local Leica agency. Please state technical details in full.

* Not for the 80-slide LKM magazines, 50-slide standard magazines, or 100-slide CS magazines.

Timer-C



Sturdy plastic body.

Interval-setting wheel, adjustable from about 3 to about 30 seconds, figures engraved and inlaid in white. 0.60 m cable, 10-pin plug.

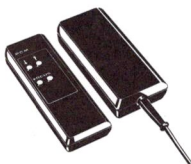
For use with any projector fitted with 14-pin (10 pins in use) socket.

Detailed description see page 9 - 20.

Code No.

Timer C, complete..... 37986 _____

PCM infra-red remote control



Range about 20 m.

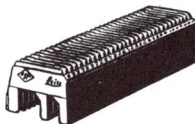
Connecting cable, 60 cm, with 10-pin plug.

Current supplied by 9 v battery IEC 6 F 22.

Detailed description on page 9 - 20.

PCM IR remote control complete (without battery 9 v, IEC 6 F 22)..... 37988 _____

Magazines



LKM stacking box with 2 60-slide magazines..... 37979 _____

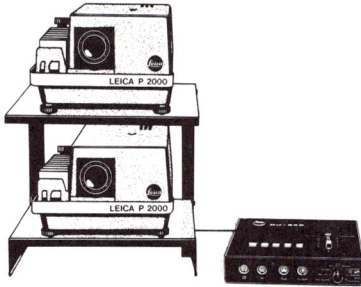
LKM stacking box with 2 80-slide magazines..... 37980 _____

Stacking box with 2 36-slide standard magazines..... 37844 _____

Stacking box with 2 50-slide standard magazines..... 37855 _____

Fade projection

Fade-control unit DU-24 P



for two projectors with recording facility for cassette and soundtrack.

Uses:

Projection in the home, lecturing, advertising, teaching and information.

Detailed description see page 9 - 21.

Code No.

Fade-control unit DU-24 P

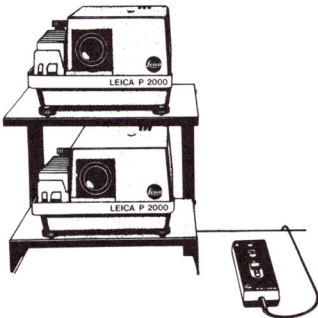
with coupling cable for "free head" and junction pieces 1 and 2..... 37 637 _____

Accessories:

Handset P with 2 m connecting cable..... 37 638 _____

Extension cable (7-pin), 10 m, for handset P..... 37 636 _____

Fade-control unit DU-24 M



for two projectors for manual dissolve control.

Uses:

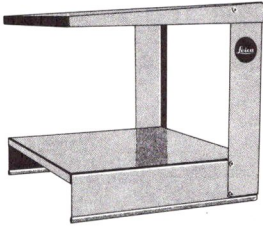
Projection in the home, lecturing, advertising, teaching and information.

Detailed description see page 9 - 23.

Code No.

Fade-control unit DU-24 M..... 37 987 _____

Console for fade projection



On this console two PRADOVIT projectors can be installed above each other, free from vibration.

Detailed description see page 9 - 24.

PRADOVIT console Code No. 37972

Possibility of combining projectors

All automatic 35 mm PRADOVIT projectors with a built-in triac for lamp control can be used with the DU-24 P control unit:

PRADOVIT C 1500, CA 1500, C 2500, CA 2500, CA 2502, COLOR 2, LEICA P 2000, PRADOVIT S and S / AF,

PRADOVIT R 150, RA 150, R 152, RA 152,

PRADOVIT 253 DU and 153 DU, LEICA P 253 DU and 153 DU,

PRADOVIT COLOR – 150 or 250 W with and without autofocus.

Mixed coupling of these projectors is also possible, but it is recommended that they have the same lamp output.

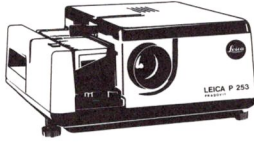
On account of their convenient operation PRADOVIT projectors with autofocus are preferable.

The Leica Service Centre or any authorized dealer's workshop can subsequently modify existing PRADOVIT C / CA, S, S / AF, R / RA, and PRADOVIT COLOR projectors for use with DU-24 P and DU-24 M fade-control units.

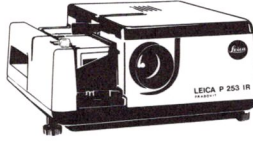
Any modified projector with 14-pin socket wired for 10-pin plug and built-in triac may be used as usual as a single projector without an additional dummy plug.

Specifications and technical data

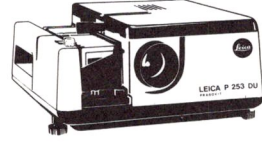
LEICA P 253 models



LEICA P 253



LEICA P 253 IR
(infra-red remote control)



LEICA P 253 DU
(for fade projection)

Type:

Automatic 35 mm slide projector.

Magazine systems:

LKM magazines for 60 or 80 slides.

Standard magazines for 36 or 50 slides.

CS magazines for 40 or 100 slides.

Lenses:

Excellent optical performance with

90 mm COLORPLAN-P f/2.5 for glass-mounted slides,

90 mm COLORPLAN-P CF (curved field) f/2.5 for other slides.

Projection lenses from 50 to 150 mm focal length and the zoom projection lens 60 - 110 mm.

Body:

Modern design. Impact resistant, high-quality plastics with textured surface, light and dark grey. Component groups make servicing easy.

Rigid 3-point support. Levelling through vertical adjustment of two freely-moving knurled screws up to about 6°.

On / off switch.

Appliance cable for mains connection; winding facility in the bottom of the projector.

Integrated carrying handle.

Coarse focusing.

Socket:

14-pin (10 pins in use) for:

- Remote control, an extension cable (10 m) can be additionally used.
- Multiple plug (Code No. 37 641) for the connection of the slide control unit (tape coupling) with 6-pin socket.
- Timer for automatic slide showing at adjustable time intervals (see page 9 - 12).
- IR remote control (see page 9 - 12).

Magazine guide and slide transport:

Free access to the magazine space of the projector.

Convenient insertion of the LKM magazines, the standard magazines, and the CS magazines.

Perfect slide transport through hard chromed slide guide elements and positively guided claw (does not protrude beyond the projector body).

Projection of all types of mounts no matter how different (to DIN 108).

Rapid slide change, dark interval only about 1.2 sec.

Random adjustment forward and reverse of the inserted slide magazine when the claw has been pulled out.

Quiet slide transport and change.

Slide stage removable for the editing of slides or single-slide projection.

Automatic blocking of the slide window when an empty claw is moved into the optical path.

Slide change through:

Remote control for slide transport forward and reverse, focusing with autofocus override.

Slide changing button on the projector (forward and reverse).

Autofocus device:

The autofocus with override allows any correction required through remote control, without any change in the basic autofocus setting. It is restored after each slide change.

The autofocus device has its own light source (tubular lamp) which makes it independent of the centration of the projector lamp. High setting accuracy.

System of illumination:

24 v / 250 W tungsten halogen lamp.

Projectors supplied complete with lamp.

Easy change of the projector lamps.

Built-in condenser for 50 – 150 mm focal length.

Uniformity of illumination more than 80% (referred to the 90 mm COLORPLAN-P f/2.5 and 24 x 36 mm slide size).

Effective light flux:

To DIN 19 021 standard, referred to 24 x 36 mm slide size and 90 mm COLORPLAN-P f/2.5 lens: about 900 lm.

Cooling system:

Direct blower for optimum cooling of slide, lamp and projector. Absorption of the infra-red rays and therefore reduction of the heat load of the slide through additional KG 1 heat filters.

Very quiet, trouble-free blower function.

Slide window temperature:

To DIN 19 021: 67 °C on average (temperature rise 47 K).

Electrical safety:

Insulated instrument:

VDE or GS and interference suppression symbol, in addition SEMKO, NEMKO, DEMKO and SEV.

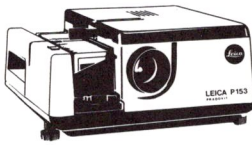
Easy accessible fuses.

Dimensions and weight:

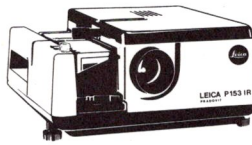
Length: 295 mm width: 270 mm height: 135 mm

Weight: about 5 kg

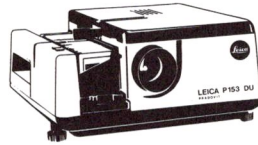
LEICA P 153 models



LEICA P 153



LEICA P 153 IR
(infra-red remote control)



LEICA P 153 DU
(for fade projection)

Type:

Automatic 35 mm slide projector.

Magazine systems:

LKM magazines for 60 or 80 slides.
Standard magazines for 36 or 50 slides.
CS magazines for 40 or 100 slides.

Lenses:

Excellent optical performance with
90 mm COLORPLAN-P f/2.5 for glass-mounted slides,
90 mm COLORPLAN-P CF (curved field) f/2.5 for other slides.
Projection lenses from 50 to 150 mm focal length
and the zoom projection lens 60 - 110 mm.

Body:

Modern design. Impact resistant, high-quality plastics with textured surface, light and dark grey. Component groups make servicing easy.
Rigid 3-point support. Levelling through vertical adjustment of two freely-moving knurled screws up to about 6°.
On/off switch.
Appliance cable for mains connection; winding facility in the bottom of the projector.
Integrated carrying handle.
Coarse focusing.

Socket:

14-pin (10 pins in use) for:

- Remote control, an extension cable (10 m) can be additionally used.
- Multiple plug (Code No. 37 641) for the connection of the slide control unit (tape coupling) with 6-pin socket.
- Timer for automatic slide showing at adjustable time intervals (see page 9 - 12).
- IR remote control (see page 9 - 12).

Magazine guide and slide transport:

Free access to the magazine space of the projector.

Convenient insertion of the LKM magazines, the standard magazines, and the CS magazines.

Perfect slide transport through high quality slide guide elements and positively guided claw (does not protrude beyond the projector body).

Projection of all types of mounts no matter how different (to DIN 108).

Rapid slide change, dark interval only about 1.2 sec.

Random adjustment forward and reverse of the inserted slide magazine when the claw has been pulled out.

Quiet slide transport and change.

Slide stage removable for the editing of slides or single-slide projection.

Automatic blocking of the slide window when an empty claw is moved into the optical path.

Slide change through:

Remote control for slide transport forward and reverse, focusing with autofocus override.

Slide changing button on the projector (forward and reverse).

Autofocus device:

The autofocus with override allows any correction required through remote control, without any change in the basic autofocus setting. It is restored after each slide change.

The autofocus device has its own light source (tubular lamp) which makes it independent of the centration of the projector lamp. High setting accuracy.

System of illumination:

24 v / 150 W tungsten halogen lamp.

Projectors supplied complete with lamp.

Easy change of the projector lamps.

Built-in condenser for 50 – 150 mm focal length.

Uniformity of illumination more than 80% (referred to the 90 mm COLORPLAN-P f/2.5 and 24 x 36 mm slide size).

Effective light flux:

To DIN 19 021 standard, referred to 24 x 36 mm slide size and 90 mm COLORPLAN-P f/2.5 lens: about 600 lm.

Cooling system:

Direct blower for optimum cooling of slide, lamp and projector. Absorption of the infra-red rays and therefore reduction of the heat load of the slide through additional KG 1 heat filters.

Very quiet, trouble-free blower function.

Slide window temperature:

To DIN 19 021: 60°C on average (temperature rise 40 K).

Electrical safety:

Insulated instrument:

VDE or GS and interference suppression symbol, in addition SEMKO, NEMKO, DEMKO and SEV.

Easily accessible fuses.

Dimensions and weight:

Length: 295 mm width: 270 mm height: 135 mm

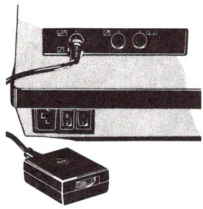
Weight: about 4.4 kg

Special features of the individual models

| | LEICA P 153 / 253 | | LEICA P 153 IR / 253 IR | | LEICA P153 DU / 253 DU |
|---|----------------------|--------------------------------------|----------------------------|--------------------------------------|--------------------------------------|
| | 220 V/50 Hz | adjustable 110-240 V/ 50-60 Hz | 220 V/50 Hz | adjustable 110-240 V/ 50-60 Hz | adjustable 110-240 V/ 50-60 Hz |
| Cable remote control 153 / 253 with light pointer Code No. 37 639 | X | X | 1) | 1) | X |
| Infra-red remote control, range about 12 m | — | — | X | X | — |
| Infra-red remote control, range about 20 m, see page 8 - 11 | 1) | 1) | 1) | 1) | 1) |
| Built-in triac for fade projection | — | — | — | — | X |
| Rapid lamp changer | — | — | X | X | X |
| Number of lamps included with the outfit | 1 | 1 | 2 | 2 | 2 |

1) as accessories

Timer C



For use with any projector fitted with a 14-pin socket wired for a 10-pin plug to DIN 45 322.

Robust plastic body, with black grained surface. Interval-setting wheel, adjustable from about 3 s to 30 s, figures engraved and inlaid in white. 0.60 m cable, 10-pin plug. The cable is long enough for any desired set-up next to the projector.

The Timer C is suitable for the following projectors: LEICA P 2000 PRADOVIT, PRADOVIT COLOR 2, PRADOVIT CA 2502, and PRADOVIT 2500 equipped for fade control, LEICA P 153 / 253 models, and for PRADOVIT 153 / 253 models. Please contact the Leica Service Centre or your national Leica agency for information on connecting other PRADOVIT projectors.

Dimensions:

Length 65 mm, width 50 mm, height 23.5 mm.

PCM infra-red remote control



Range about 20 m.

Detector in robust plastic housing, modern design.

0.60 m cable link, 10-pin plug.

Transmitter in handy, robust plastic housing.

Powered by 9 v IEC 6 F 22 battery.

Four transmitting channels with a push-button each for slide transport forward, slide transport reverse, and focusing forward and focusing reverse.

Push-buttons conveniently and practically arranged.

Dimensions and weight:

IR detector:

Length 130 mm, width 63 mm, height 32 mm

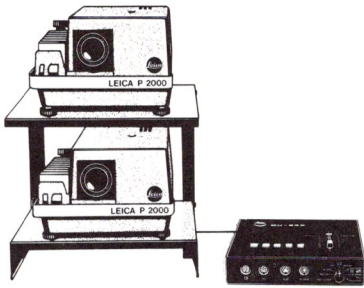
Weight 0.140 kg

IR transmitter:

Length 140 mm, width 52 mm, height 27 mm

Weight 0.080 kg

DU-24 P fade-control unit



for two projectors with recording facility for cassette and tape.

Uses:

Home projection, lecturing, advertising, teaching and communication.

Brief technical description and function:

Control unit for continuous gradual and cut fades.

No time limit for gradual fades.

24 v supply through the modified projectors with built-in triac for lamp control, hence no heating of the control unit.

Handpiece with slider with integrated switches for slide change in the end position. Light change of the projectors can be repeated as often as desired, because slide transport is not coupled.

"Dissolve" key for 1 to 10 second fade with subsequent slide change.

"Cut" key for hard fade with subsequent slide change.

"Flip" key for hard fade without subsequent slide change.

"Super" key for superimposition of the second slide as long as the key is pressed, then slide change.

"Record" key for recording the control signals on tape.

Multifunction slider.

The built-in signalling device controls the fade of the projectors through its frequency modulation. A signal of this frequency modulation can be recorded on a cassette or stereo tape recorder without difficulty (AV instruments).

Black metal housing with bright front plate. All contents are arranged on the front.

10-pin socket for the connection of the handset P, available as an accessory.

6-pin socket for the connection of cassette recorders with built-in AV head or reel tape units with AV head (the slide control unit cannot be used for this purpose).

5-pin socket (for stereo plug) for the connection of stereo tape recorders for multi-play methods.

Warning light to check the control signal.

Two 0.75 m connecting cables with 10-pin plugs for the projectors at the back of the control unit.

No additional mains cable required.

Handset with 2 m connecting cable, with the following controls:

Slider switch for dissolve control.

Operating mode switch with 3 positions:

"Record" – normal position for manual dissolve and tape recording.

"Play" – automatic signal processing from the tape.

"Erase" – erasure of the recorded signal.

"Flip-over button" – rapid fade without slide transport.

Coupling cable for "free head" and junction pieces 1 and 2 are part of the outfit.

Accessories:

Handset P with 2 m connecting cable.

7-pin extension cable (10 m) for handset P.

Possibility of combining the projectors:

All the automatic PRADOVIT 35 mm projectors which have the conversion kit with built-in triac for lamp control can be used with the DU-24 P control unit:

PRADOVIT C 1500, CA 1500, C 2500, CA 2500, CA 2502, COLOR 2, LEICA P 2000

PRADOVIT S- and PRADOVIT S / AF,

PRADOVIT R 150, RA 150, R 152, RA 152, 153 DU, 253 DU, LEICA P 153 DU / 253 DU

PRADOVIT COLOR – 150 or 250 W with and without autofocus.

The projectors to be coupled need not be identical, but the combination of instruments of the same lamp power is recommended.

On account of operating convenience PRADOVIT projectors with autofocus are preferable.

Dimensions and weights:

Control unit:

Length 230 mm, width 215 mm, height 55 mm

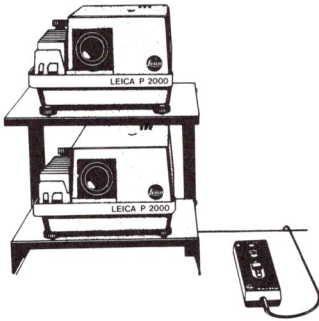
Weight 2.14 kg

Handset:

Length 150 mm, width 55 mm, height 43 mm

Weight 0.29 kg

DU-24 M fade-control unit



for 2 projectors for manual dissolve control.

Uses:

Home projection, lecturing, advertising, teaching and communication.

Brief technical description and function:

Hand piece with all controls.

Push-button for triggering the fade and slide change of the "dark" projector.

Dial for the pre-selection of the desired time from cut to up to about 5 sec. fade.

Push-button for switching on the built-in light pointer.

Dial for switching on the built-in timer and presetting the required interval from about 6 to about 60 seconds permits "automated projection".

Connecting cable, length 3 m, dividing after 2.5 m for connection to the two projectors.

10-pin plugs for the projectors.

Possibility of combining the projectors:

All automatic 35 mm PRADOVIT projectors which have the conversion kit with built-in triac for lamp control can be used with the control unit DU-24 M:

PRADOVIT C 1500,, CA 1500, C 2500, CA 2500, CA 2502, COLOR 2, LEICA P 2000

PRADOVIT S, PRADOVIT S / AF,

PRADOVIT R 150, RA 150, R 152, RA 152, 153 DU, 253 DU, LEICA P 153 DU / 253 DU

PRADOVIT COLOR 150 or 250 W with and without autofocus.

The projectors to be coupled need not be identical, but the combination of instruments of the same lamp power is recommended.

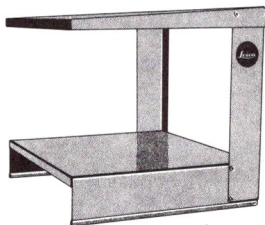
In the interest of operating convenience PRADOVIT projectors with autofocus are preferable.

Dimensions and weight:

Length 155 mm, width 65 mm, height 35 mm.

Weight: 0.390 kg

Console for fade projection



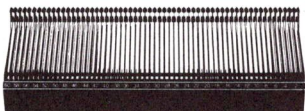
With this console two projectors are set up vibration-free above each other. This saves space and moves the optical axes of the fade projectors as closely together as possible (optimum coincidence of the projected images). Two rubber strips ensure secure installation.

Dimensions and weight:

Length 325 mm, width 355 mm, height 300 mm

Weight 4.2 kg

LKM magazine system for 60 and 80 slides



The new LKM system has five distinct advantages:

1. It can be used for all sorts of slide frames up to 2 mm thickness.
2. It's spillproof.
3. It is compact and space-saving.
4. Its stacking containers easily fit the stacking containers of the standard magazine system, thus facilitating slide storage.
5. Slides can easily be removed from the magazine, even when it's in the projector.

Contents

LEICA binoculars

Product range

1. Compact binoculars

LEICA 8 x 20 BC and BCA..... 10 - 4

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2. Universal binoculars

LEICA 8 x 42 BA 10 - 6

LEICA 10 x 42 B and BA 10 - 7

3. Hunting and night glasses

LEICA 7 x 42 BA 10 - 8

Accessories for binoculars 10 - 9

Specifications 10 - 10

Product range of LEICA binoculars

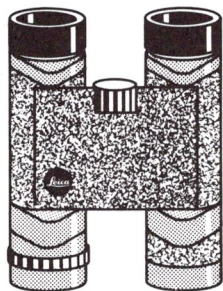
| Model | Magnification | Lens diameter | Exit pupil | Twilight factor | m° field at 1000 m | Approx. weight | Dimensions Width Depth Height | Code | Page |
|-------------------|---------------|---------------|------------|-----------------|--------------------|----------------|--|-------|--------|
| 8 x 20 BC | 8 x | 20 mm | 2.5 mm | 12.65 | 115 m/6.3 | 220 g | 60 mm 35 mm 92 mm | 40305 | 10 - 4 |
| 8 x 20 BCA green | 8 x | 20 mm | 2.5 mm | 12.65 | 115 m/6.3 | 225 g | 60 mm 35 mm 92 mm | 40307 | 10 - 4 |
| 8 x 20 BCA black | 8 x | 20 mm | 2.5 mm | 12.65 | 115 m/6.3 | 225 g | 60 mm 35 mm 92 mm | 40309 | 10 - 4 |
| 10 x 25 BC | 10 x | 25 mm | 2.5 mm | 15.8 | 95 m/5.4 | 240 g | 60 mm 36 mm 110 mm | 40306 | 10 - 5 |
| 10 x 25 BCA green | 10 x | 25 mm | 2.5 mm | 15.8 | 95 m/5.4 | 245 g | 60 mm 36 mm 110 mm | 40308 | 10 - 5 |
| 10 x 25 BCA black | 10 x | 25 mm | 2.5 mm | 15.8 | 95 m/5.4 | 245 g | 60 mm 36 mm 110 mm | 40310 | 10 - 5 |
| 8 x 42 BA black | 8 x | 42 mm | 5.25 mm | 18.3 | 130 m/7.44 | 890 g | 130 mm 57 mm 141 mm | 40012 | 10 - 6 |
| 8 x 42 BA green | 8 x | 42 mm | 5.25 mm | 18.3 | 130 m/7.44 | 890 g | 130 mm 57 mm 141 mm | 40239 | 10 - 6 |
| 10 x 42 BA black | 10 x | 42 mm | 4.2 mm | 20.5 | 110 m/6.3 | 890 g | 130 mm 57 mm 137 mm | 40014 | 10 - 7 |
| 10 x 42 BA green* | 10 x | 42 mm | 4.2 mm | 20.5 | 110 m/6.3 | 890 g | 130 mm 57 mm 137 mm | 40241 | 10 - 7 |
| 10 x 42 B black | 10 x | 42 mm | 4.2 mm | 20.5 | 110 m/6.3 | 890 g | 130 mm 57 mm 137 mm | 40229 | 10 - 7 |
| 7 x 42 BA black | 7 x | 42 mm | 6 mm | 17.2 | 140 m/8 | 890 g | 130 mm 57 mm 141 mm | 40013 | 10 - 8 |
| 7 x 42 BA green* | 7 x | 42 mm | 6 mm | 17.2 | 140 m/8 | 890 g | 130 mm 57 mm 141 mm | 40240 | 10 - 8 |

B = Suitable for spectacle wearers C = Compact binoculars A = Rubber covered * = Available from mid 1990

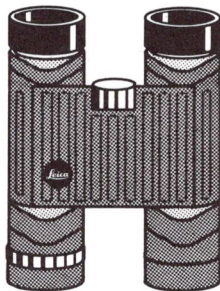
Compact binoculars

LEICA 8 x 20 BC

LEICA 8 x 20 BCA



LEICA 8 x 20 BC



LEICA 8 x 20 BCA

Compact high-performance binoculars.
Ideal where compact light-weight binoculars are required.
Metal construction.

Magnification: 8 x
Lens diameter: 20 mm
Exit pupil: 2.5 mm
Twilight factor: 12.65
Field: $6.3^\circ = 115 \text{ m at } 1000 \text{ m range}$
Close-range focus to: 3 m
Central drive, internal focusing.
Optical adjustment ± 3.5 diopters.

Adjustable eyecups, interchangeable soft rubber support
Folding binoculars, eyebase adjustable from 32 mm to 83 mm.
Ribbed central section and tubes finished in textured pvc (BC) or in green or black rubber (BCA); exposed external metal parts black anodized or green enamelled.

Dimensions (folded): 60 mm wide, 35 mm deep, 92 mm high.

Weight: BC 220 g, BCA 225 g

| | Code No. |
|--|--------------|
| LEICA 8 x 20 BC, with neck cord..... | 40 305 _____ |
| LEICA 8 x 20 BCA, green, with neck cord..... | 40 307 _____ |
| LEICA 8 x 20 BCA, black, with neck cord..... | 40 309 _____ |

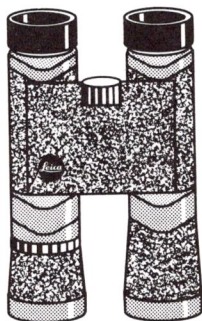
Accessories for LEICA 8 x 20 BC and 8 x 20 BCA

| | |
|-------------------------------|--------------|
| Soft nappa leather case | 42 198 _____ |
|-------------------------------|--------------|

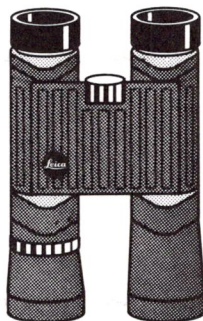
Compact binoculars

LEICA 10 x 25 BC

LEICA 10 x 25 BCA



LEICA 10x25 BC



LEICA 8x20 BCA

Compact binoculars for high magnification. Superb optical performance.
The ideal mini-size leisure binoculars.
Metal construction.

Magnification: 10 x
 Lens diameter: 25 mm
 Exit pupil: 2.5 mm
 Twilight factor: 15.8
 Field: $5.4^\circ = 95 \text{ m at } 1000 \text{ m range}$
 Close-range focus to: 5 m

Central drive, internal focusing.

Optical adjustment ± 3.5 diopters.

Adjustable eyecups, interchangeable soft rubber support

Folding binoculars, eyebase adjustable from 32 mm to 83 mm.

Ribbed central section and tubes finished in textured pvc (BC) or in green or black rubber (BCA); exposed external metal parts black anodized or green enamelled.

Dimensions (folded): 60 mm wide, 36 mm deep, 110 mm high.

Weight: BC 240 g, BCA 245 g

Code No.

| | | |
|--|--------|-------|
| LEICA 10 x 25 BC, with neck cord | 40 306 | _____ |
| LEICA 10 x 25 BCA, green, with neck cord | 40 308 | _____ |
| LEICA 10 x 25 BCA, black, with neck cord | 40 310 | _____ |

Accessories for LEICA 10 x 25 BC and 10 x 25 BCA

| | | |
|-----------------------------|--------|-------|
| Soft leather case | 42 199 | _____ |
|-----------------------------|--------|-------|

Universal binoculars

LEICA 8 x 42 BA



LEICA 8 x 42 BA

Universal wide-field binoculars with medium magnification and large exit pupil.
Enhanced performance for daylight and twilight viewing.
Sliding eyepiece sleeve.
Metal construction.

Magnification: 8 x
Lens diameter: 42 mm
Exit pupil: 5.25 mm
Twilight factor: 18.3
Field: $7.44^\circ = 130 \text{ m at } 1000 \text{ m range}$
Close-range focus to: 5.3 m
Central drive, true internal focusing, waterproof to a depth of 5 m.
Optical adjustment greater than ± 3.0 diopters.
Folding binoculars, eyebase adjustable from 56 mm to 74 mm.
Body fully enclosed in black or green positive-grip PUR plastic.
Eyelets for carrying strap.
Dimensions: 130 mm wide, 57 mm deep, 141 mm high.
Weight: 890 g

Code No.

LEICA 8 x 42 BA, black, with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

40 012 _____

LEICA 8 x 42 BA, green, with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

40 239 _____

Universal high-performance binoculars

LEICA 10 x 42 B

LEICA 10 x 42 BA



LEICA 10 x 42 B



LEICA 10 x 42 BA

Universal high-performance binoculars with high magnification and extreme close-range focusing. Especially suitable for daylight and twilight viewing, in bird-watching, the observation of animals in general, hunting, and the inspection of architectural and structural details.

Sliding eyepiece sleeve.

Metal construction.

Magnification: 10 x
 Lens diameter: 42 mm
 Exit pupil: 4.2 mm
 Twilight factor: 20.5
 Field: $6.3^\circ = 110 \text{ m}$ at 1000 m range
 Close-range focus to: 4.6 m

Central drive, true internal focusing, waterproof to a depth of 5 m.

Optical adjustment greater than ± 3.0 diopters.

Folding binoculars, eyebase adjustable from 56 mm to 74 mm.

Body fully enclosed in black or green positive-grip PUR plastic (BA) or black PUR plastic with synthetic-leather inserts (B).

Eyelets for carrying strap.

Dimensions: 130 mm wide, 57 mm deep, 137 mm high.

Weight: 890 g

Code No.

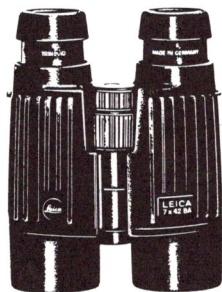
LEICA 10 x 42 BA, black, with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case **40 014** _____

LEICA 10 x 42 BA, green, with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case **40 241** _____

LEICA 10 x 42 B, black, with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case **40 229** _____

Hunting and night glasses

LEICA 7 x 42 BA



LEICA 7 x 42 BA

Special wide-field hunting and night glasses with extra-large exit pupil for keeping the object in view even when the support is unstable. Especially suitable for hunting, sailing, and marine use.

Sliding eyepiece sleeve.

Metal construction.

- Magnification: 7 x
- Lens diameter: 42 mm
- Exit pupil: 6 mm
- Twilight factor: 17.2
- Field: 8° = 140 m at 1000 m range
- Close-range focus to: 6.3 m
- Central drive, true internal focusing, waterproof to a depth of 5 m.
- Optical adjustment greater than ± 3.0 diopters.
- Folding binoculars, eyebase adjustable from 56 mm to 74 mm.
- Body fully enclosed in black or green positive-grip PUR plastic.
- Eyelets for carrying strap.

Dimensions: 130 mm wide, 57 mm deep, 141 mm high.

Weight: 890 g

Code No.

LEICA 7 x 42 BA, black, with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

40 013 _____

LEICA 7 x 42 BA, green, with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

40 240 _____

Accessories for LEICA binoculars

| | Code No. |
|--|--------------|
| Spare pair of rubber eyecups, black, for LEICA 8 x 20 BC and BCA, and LEICA 10 x 25 BC and BCA | 42 142 _____ |
| Spare pair of rubber eyecups, green, for LEICA 8 x 20 BC and BCA, and LEICA 10 x 25 BC and BCA | 42 143 _____ |
| Spare pair of rubber eyecups, black, for LEICA 7 x 42 BA and 8 x 42 BA | 42 151 _____ |
| Spare pair of rubber eyecups, green, for LEICA 7 x 42 BA and 8 x 42 BA | 42 152 _____ |
| Spare pair of rubber eyecups, black, for LEICA 10 x 42 B/BA | 42 153 _____ |
| Spare pair of rubber eyecups, green, for LEICA 10 x 42 BA | 42 154 _____ |
| Spare eyepiece cap, black, for all LEICA B and BA binoculars with sliding eyepiece sleeves | 42 144 _____ |
| Spare eyepiece cap, green, for all LEICA BA binoculars with sliding eyepiece sleeves | 42 129 _____ |
| Spare carrying strap, black, 16 mm wide Perlon fabric, with non-slip pad, for all LEICA B and BA binoculars | 42 169 _____ |
| Soft nappa leather ever-ready care for all LEICA B/BA-binoculars with sliding eyepiece sleeves | 42 166 _____ |

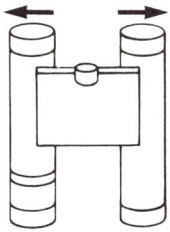
Specifications

LEICA 8x20 BC and BCA 10x25 BC and BCA

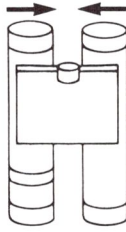
Precision mechanical system:

Special space-saving design reduces the overall volume and folds to vest-pocket size.

Position for viewing



Position for carrying and storage



Extra-light for ease of carrying and fatigue-free viewing.

Easy-to-focus central drive.

Optical adjustment to user's visual acuity.

Solid all-metal construction ensures perfect long-term retention of adjustment and maximum protection of all optical and mechanical components.

BCA model particularly silent and non-slip.

Maintenance-free.

Their true internal focusing system makes these binoculars absolutely dust- and splash-proof.

High-performance optics:

The special layout of the optical paths gives these binoculars their elegant flat shape. All glass-to-air surfaces specially coated for perfect contrast and a bright image to match the human eye's maximum sensitivity.

Pentaprisms made to extremely close angular tolerances for maximum accuracy.

Stringent quality control in the selection of all optical elements. Lenses, prisms, and eyepieces are carefully matched.

Shockproof prism mounts fitted with precision-adjusted prisms.

The two optical systems produce the same magnification and are in perfect parallel alignment for fatigue- and headache-free long-term viewing.

Optics designed for extra-wide field and enhanced close-range viewing.

Special optical design and sliding eyepiece sleeve with rubber eyecups also suitable for use by spectacle wearers.

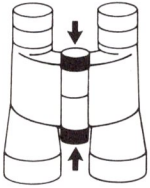
30 years' warranty.

LEICA 8x42 BA 10x42 BC and BCA 7x42 BA

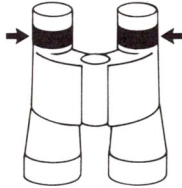
Precision mechanical system:

Compact modern construction reduces the overall volume as compared with conventional binoculars. Functional, ergonomic design for fatigue-free viewing. New-type central drive. Central focusing and optical adjustment to user's visual acuity by triple-function combination drive knob

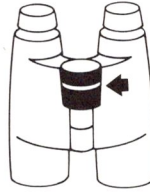
Comparison:



Conventional central drive:
Separate knob for optical adjustment



Single-eyepiece focusing:
No combined control of the two optical systems



New-type central drive:
Combined control of both optical systems

Strong all-metal body ensures perfect long-term retention of adjustment and maximum protection of all optical and mechanical components.

Fully enclosed body covered in shock-absorbent, non-slip, sound-absorbent PUR plastic mantle; B type additionally with imitation leather inserts.

Special optical design and sliding eyepiece sleeves with rubber eyecups also suitable for use with spectacles.

Watertight to a depth of 5 m. True internal focusing system, special sealing, and nitrogen filling make these binoculars absolutely proof against damage by dust and water.

Maintenance-free.

Working temperature range from -25°C to $+55^{\circ}\text{C}$ (-13°F to 131°F).

Short focusing path for fast location of focusing plane.

High-performance optics:

Stringent quality control in the selection of all optical elements. Lenses, prisms, and eyepieces are carefully matched.

For perfect contrast and a bright image, multiple coating of all glass-to-air surfaces to match the human eye's maximum sensitivity.

Hard-coated external lens and eyepiece surfaces.

Phase-corrected coating of pentaprisms made to extremely close angular tolerances for maximum accuracy.

Shockproof prism mounts fitted with precision-adjusted prisms.

The two optical systems produce the same magnification and are in perfect parallel alignment for fatigue- and headache-free long-term viewing.

Optics for extended wide-field and enhanced close-range viewing.

Made in Germany.

30 years' warranty.

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LEICA R and M cameras and lenses

Batteries (button cells)

(as replacement)

Manufacturers: Designation:

for LEICA R models and LEICA M 6:

Silber oxide button cells (2 required):

| | |
|-----------|-----------------|
| Ucar | EPX 76 |
| Ucar | S 76 E |
| Ucar | Nr. 357 |
| Duracell | D 357 (10 L 14) |
| Varta | V 76 PX |
| Varta | V 76 GS |
| Varta | V 357 |
| Eveready | S 76 E |
| National | SR 44 |
| National | SR 44 W |
| Ray-o-vac | RS 76 G |
| Ray-o-vac | RW 42 |
| Maxell | SR 44 P |
| Maxell | SR 44 |
| Maxell | SR 44 SW |

Lithium battery (1 required):

| | |
|----------|----------|
| Duracell | DL 1/3 N |
| Varta | CR 1/3 N |
| Ucar | 2 L 76 |

for LEICAFLEX/ SL / SL 2:

Mercuric oxide button cell (1 required):

| | |
|---------------|--------|
| Mallory | PX 625 |
| Varta-Pertrix | 7002 |

for LEICA M 5:

Mercuric oxide button cell (1 required):

| | |
|---------------|--------|
| Mallory | PX 625 |
| Varta Pertrix | 7002 |

for LEICA CL:

Mercuric oxide button cell (1 required):




| | |
|------------------|--------|
| Mallory | PX 625 |
| Varta Pertrix | 7002 |
| Mallory National | H-D |

for LEICAMETER MR:

Mercuric oxide cell (1 required):








| | |
|---------|--------|
| Mallory | PX 625 |
|---------|--------|


Flash synchronization


| Type of flash | | R 6 | R 5 * | R 4 models * | R 3 models * | | all LEICAFLEX models | |
|---------------|----------------------|--------------------------|---------------------------------|-------------------------------|---------------------------|----------------|--|---|
| | | X-contact | X-contact | X-contact | X-contact | M-contact |  = X-contact |  = M-contact |
| electronic | | X (1/100) 1 → 1/60, B | X, 100 (1/100) 1/2 → 1/60, B | X, 100 (1/100) 1 → 1/60, B | X (1/90) 4 s → 1/60, B | — | B →  (= 1/100) | — |
| Flashbulbs | AG 1 AG 3 cube | 1 → 1/30, B | 1/2 → 1/30, B | 1 → 1/30, B | 4 s → 1/30, B | — | 1 → 1/30, B | 1 → 1/60 |
| | PF 1 XM 1 | 1 → 1/30, B | 1/2 → 1/30, B | 1 → 1/30, B | 4 s → 1/30, B | — | 1 → 1/30, B | 1 → 1/15 |
| | M 2 | 1 → 1/60, B | 1/2 → 1/60, B | 1 → 1/60, B | 4 s → 1/60, B | — | 1 → 1/60, B | — |
| | PF 5 | 1 → 1/30, B | 1/2 → 1/30, B | 1 → 1/30, B | 4 s → 1/30, B | 1/125 - 1/1000 | 1 → 1/30, B | 1 - 1/125 |
| | M 3 GE 5 B | 1 → 1/30, B | 1/2 → 1/30, B | 1 → 1/30, B | 4 s → 1/30, B | 1/125 - 1/1000 | 1 → 1/30, B | 1 → 1/250 |
| | FP 26 PF 6 | 1 → 1/15, B | 1/2 → 1/15, B | 1 → 1/15, B | 4 s → 1/15, B | 1/30 - 1/1000 | 1 → 1/15, B | — |

* for flash pictures the camera must be set at "Manual".

With system compatible electronic flash units on LEICA R 4 / R 5 models automatic switchover of the camera electronics to "X" (1/100 sec.), when the unit is charged. Effective with all modes. With shutter-speed priority and automatic mode the aperture is no longer produced automatically. It closes to the set values.

| Type of flash | | M 6 | all M models from No. 854 001 | | M 3 up to No. 854 000 | | CL |
|--------------------|-----------------------------|---|--|---|---|---|-----------|
| | | |  = X-contact |  = M-contact |  = X-contact |  = M-contact | X-contact |
| electronic | | B →  (= 1/50) | B →  (= 1/50) B →  (= 1/50) | — | B → 1/50 | — | B - 1/60 |
| Flashbulbs | AG 1 AG 3 cube M 2 | B → 1/30 | B → 1/30 | — | B → 1/25 | — | B → 1/30 |
| | XM 1 B PF 1 | B → 1/30 | — | B → 1/60 | — | B → 1/50 | — |
| | PF 5 | B → 1/30 | — | B → 1/60 | — | B → 1/100 | — |
| | M 3 | B → 1/30 | — | B → 1/125 | — | — | — |
| | GE 5 B Press 25 | B → 1/30 | — | B → 1/500 | — | B → 1/500 | — |
| | Press 40 2 | B → 1/30 | — | — | — | — | — |
| FP 26 PF 6 3 | B → 1/15 | — | — | — | — | — | |

 or X = Socket for electronic flash and hot shoe.

 or M = Socket for flashbulb units.

| Type of flash | | I g, III g | I f, II f, III f | | from No. 360 001 | | up to No. 360 000 | | |
|---------------|-----------------------------|---|------------------|--------------------|------------------|----------------------|-------------------|----------------|----|
| | | | time | red contact number | time | black contact number | time | contact number | |
| electronic | | red \downarrow B (= 1/30) \downarrow (= 1/50) | 1/50 | 20 | 1/30 | 2 | 1/30 | 0 | |
| | | | T, 1 → 1/25 | 0 | T, 1 → 1/20 | 2 | T, 1 → 1/20 | 4 | |
| | | | B | 2 | B | 6 | B | 6,5 | |
| Flash bulbs | AG 1 AG 3 cube M 2 | | — | | — | | — | | |
| | AG 1 AG 3 cube | | — | | — | | — | | |
| | XM 1 PF 1 | | B → 1/60 * | 1/15 | 2 | 1/15 - 1/20 | 8 | 1/20 | 10 |
| | | | | 1/25 | 9 | 1/30 | 11 | 1/30 | 12 |
| | | | | 1/50 | 8 | 1/40 | 8 | 1/40 | 8 |
| | | | | 1/75 | 3 | 1/60 | 5 | 1/60 | 5 |
| | PF 5 | | B → 1/60 * | 1/15 | 2 | 1/15 - 1/30 | 16 | 1/20 - 1/30 | 14 |
| | | | | 1/25 | 14 | 1/40 | 11 | 1/40 | 11 |
| | | | | 1/50 | 11 | | | | |
| | | | | 1/75 | 5 | | | | |
| GE 5 | | B → 1/500 * | 1/15 | 2 | 1/15 - 1/30 | 16 | 1/20 - 1/30 | 14 | |
| | | | 1/25 | 14 | 1/40 | 11 | 1/40 | 11 | |
| | | | 1/50 | 11 | 1/60 | 8 | 1/60 | 9 | |
| | | | 1/75 | 6 | 1/100 | 5,5 | 1/100 | 7 | |
| | | | 1/100 | 4 | 1/200 | 4 | | | |
| | | | 1/200 | 2 | | | | | |
| 1/500 | 1 | | | | | | | | |
| M 3 | | B → 1/125 * | 1/15 | 2 | 1/15 - 1/20 | 9 | 1/20 | 14 | |
| | | | 1/25 | 7 | 1/30 | 15 | 1/30 | 13 | |
| | | | 1/50 | 10 | 1/40 | 11 | 1/40 | 12 | |
| | | | 1/75 | 6 | 1/60 | 8 | 1/60 | 10 | |
| All | | — | | — | | — | | | |
| | | * except setting red or black arrow respectively | | | | | | | |

Filter sizes

for LEICA M and C lenses and discontinued lenses with screw mount

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

E 39 = screw in filter thread, diameter 39 mm

7 = Series filter size 7

Lens

| | | |
|--------|---|-------|
| 21 mm | ELMARIT-M | f/2.8 |
| 21 mm | SUPER-ANGULON | f/3.4 |
| 21 mm | SUPER-ANGULON | f/4 |
| 28 mm | ELMARIT | f/2.8 |
| 28 mm | ELMARIT-M (from Serial No. 2977551) | f/2.8 |
| 28 mm | SUMMARON | f/5.6 |
| 28 mm | HEKTOR | f/6.3 |
| 35 mm | SUMMILUX | f/1.4 |
| 35 mm | SUMMILUX (from Serial No. 2166701) | f/1.4 |
| 35 mm | SUMMICRON | f/2 |
| 35 mm | SUMMICRON (from Serial No. 2307451) | f/2 |
| 35 mm | SUMMICRON (from Serial No. 2483504) | f/2 |
| 35 mm | SUMMICRON (from Serial No. 2974251) | f/2 |
| 35 mm | SUMMARON | f/2.8 |
| 35 mm | ELMAR | f/3.5 |
| 35 mm | SUMMARON (screw-thread) | f/3.5 |
| 35 mm | SUMMARON (screw-thread, from No. 1423141) | f/3.5 |
| 35 mm | SUMMARON (bayonet) | f/3.5 |
| 40 mm | SUMMICRON-C | f/2 |
| 50 mm | NOCTILUX | f/1 |
| 50 mm | NOCTILUX (from No. 2919657) | f/1 |
| 50 mm | NOCTILUX | f/1.2 |
| 50 mm | SUMMILUX | f/1.4 |
| 50 mm | SUMMARIT® | f/1.5 |
| 50 mm | SUMMAR® | f/2 |
| 50 mm | SUMMITAR | f/2 |
| 50 mm | SUMMICRON-M | f/2 |
| 50 mm | HEKTOR | f/2.5 |
| 50 mm | ELMAR | f/2.8 |
| 50 mm | ELMAR (screw thread) | f/3.5 |
| 50 mm | ELMAR (bayonet) | f/3.5 |
| 65 mm | ELMAR | f/3.5 |
| 65 mm | ELMAR (from Serial No. 2378901) | f/3.5 |
| 75 mm | SUMMILUX-M | f/1.4 |
| 85 mm | SUMMAREX® | f/1.5 |
| 90 mm | SUMMICRON | f/2 |
| 90 mm | SUMMICRON-M (from Serial No. 2813801) | f/2 |
| 90 mm | SUMMICRON-M (from Serial No. 3177201) | f/2 |
| 90 mm | ELMARIT | f/2.8 |
| 90 mm | TELE-ELMARIT | f/2.8 |
| 90 mm | ELMARIT-M | f/2.8 |
| 90 mm | ELMAR (screw thread) | f/4 |
| 90 mm | ELMAR (screw thread, from No. 1573001) | f/4 |
| 90 mm | ELMAR (bayonet) | f/4 |
| 90 mm | ELMAR-C | f/4 |
| 125 mm | HEKTOR | f/2.5 |
| 135 mm | ELMARIT | f/2.8 |
| 135 mm | ELMARIT (from Serial No. 2788927) | f/2.8 |
| 135 mm | ELMAR | f/4 |
| 135 mm | TELE-ELMAR | f/4 |
| 135 mm | ELMAR | f/4.5 |
| 135 mm | HEKTOR (screw thread) | f/4.5 |
| 135 mm | HEKTOR (screw thread, from No. 1416001) | f/4.5 |
| 135 mm | HEKTOR (bayonet) | f/4.5 |
| 200 mm | TELYT | f/4 |
| 200 mm | TELYT | f/4.5 |
| 280 mm | TELYT | f/4.8 |
| 280 mm | TELYT (from Serial No. 2340953) | f/4.8 |
| 400 mm | TELYT | f/5 |
| 400 mm | TELYT | f/5.6 |
| 400 mm | TELYT | f/6.8 |
| 560 mm | TELYT | f/5.6 |
| 560 mm | TELYT | f/6.8 |

Filter size

| |
|-----------|
| E 60 |
| E 48 or 7 |
| E 39 |
| E 48 or 7 |
| E 49 |
| A 36 |
| A 36 |
| E 41 |
| 7 |
| E 39 |
| 7 |
| E 39 or 7 |
| E 39 |
| E 39 |
| A 36 |
| A 36 |
| E 39 |
| E 39 |
| E 39 |
| 5.5 |
| E 58 |
| E 60 |
| 8 |
| E 43 |
| E 41 |
| A 36 |
| E 36.5 |
| E 39 |
| A 36 |
| E 39 |
| A 36 |
| E 41 |
| 6 |
| E 60 |
| E 58 |
| E 48 |
| E 49 |
| E 55 |
| E 39 |
| E 39 |
| E 46 |
| A 36 |
| E 39 |
| E 39 |
| 5.5 |
| E 58 |
| 7 |
| E 55 |
| E 39 |
| E 39 |
| A 36 |
| A 36 |
| E 39 |
| E 39 |
| E 58 |
| E 48 |
| E 58 |
| 8 |
| E 85 |
| 7 |
| 7 or 8 |
| 7 |
| 7 |

Dimensions of the filter threads:

| | | | |
|------|-------------|------|-------------|
| E 39 | M 39 x 0.5 | E 49 | M 49 x 0.75 |
| E 41 | M 41 x 0.5 | E 55 | M 55 x 0.75 |
| E 43 | M 43 x 0.5 | E 58 | M 58 x 0.75 |
| E 46 | M 46 x 0.75 | E 60 | M 60 x 0.75 |
| E 48 | M 48 x 0.75 | E 85 | M 85 x 0.75 |

Which LEICA WINDER for which LEICA M

| Winder type | Camera type | | | |
|--|-------------|--|------------|------------|
| | LEICA M6 | LEICA M4-P | LEICA M4-2 | LEICA MD-2 |
| LEICA WINDER M | yes | yes | yes | yes |
| LEICA WINDER M4-P | yes | yes | yes | yes |
| LEICA WINDER M4-2 from Serial No. 10350 | yes | yes | yes | yes |
| LEICA WINDER M4-2 up to Serial No. 10349 | no | yes apart from Serial No. 1552500* – 1552884* – and 1563000 – 1588536 (can be adapted by Technical Service) | yes | yes |

Adaptation of lenses

Conversion of LEICAFLEX lenses

Conversion of LEICAFLEX lenses for use on LEICA R models

Existing LEICAFLEX lenses can be fitted with an additional cam for the full utilisation of the LEICA R exposure facilities.

The use of modified lenses on all LEICAFLEX models remains unrestricted.

Modification by the Leica Service Centre or authorized workshops of Leica agencies.

Conversion of LEICA R lenses to filter thread E 55:

| | |
|---|----------------------------|
| 60 mm MACRO-ELMARIT f/2.8 | up to Serial No. 3 013 650 |
| 90 mm ELMARIT-R f/2.8 | up to Serial No. 2 809 000 |
| 90 mm SUMMICRON-R f/2 | up to Serial No. 2 770 950 |
| 100 mm MACRO-ELMAR f/4 (for Focusing Bellows R) | up to Serial No. 2 933 350 |
| 135 mm ELMARIT-R f/2.8 | up to Serial No. 2 772 618 |

Conversion of Leica R lenses to filter thread E 60:

| | |
|--------------------------|----------------------------|
| 180 mm APO-TELYT-R f/3.4 | up to Serial No. 2 947 024 |
|--------------------------|----------------------------|

Modification by the Leica Service Centre or authorized workshops of Leica agencies.

Conversion of LEICA R lenses for additional use on LEICAFLEX models

From the stated serial numbers onwards, the following lenses fit on all LEICA R models but no longer on the LEICAFLEX models.

The Leica Service Centre or any authorized workshop can fit the control cams to permit the use of most of these lenses on LEICAFLEX cameras.

| | | Can be equipped for LEICAFLEX models |
|---------------------------|----------------|---|
| 24 mm ELMARIT-R f/2.8 | from 3 428 941 | SL 2 models |
| 28 mm ELMARIT-R f/2.8 | from 3 367 501 | all |
| 35 mm ELMARIT-R f/2.8 | from 3 332 801 | all |
| 50 mm SUMMILUX-R f/1.4 | from 3 291 801 | all |
| 60 mm MACRO-ELMAR-R f/2.8 | from 3 335 501 | SL / SL 2 models |
| 80 mm SUMMILUX R f/1.4 | from 3 267 301 | no |
| 90 mm SUMMICRON-R f/2 | from 3 381 677 | all |
| 90 mm ELMARIT-R f/2.8 | from 3 384 201 | all |

CL lenses for use 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 40 mm SUMMICRON-C $f/2$ and 90 mm 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.

Existing 28 mm lenses on the LEICA M4-P and LEICA M6

28 mm focal-length lenses from Serial No. 2 411 001 bring the 28 mm frame into the viewfinder of the LEICA M4-P and the LEICA M6. With lenses of earlier production correct fading-in is not guaranteed. Here we recommend the use of the 28 mm brilliant finder (Code No. 12 009). Conversion of the lens is not possible.

Existing M lenses on the LEICA M6

All M lenses can be used. However, exposure measurement cannot be carried out with the following: 15 mm HOLOGON $f/8$, 21 mm SUPER-ANGULON-M $f/4$ and the 28 mm ELMARIT-M $f/2.8$ below Serial No. 2 314 921.

When changing the 50 mm SUMMICRON $f/2$ with near-focusing device, it must be set at infinity.

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.

The LEICA CL finder incorporates bright-line frames for the 40 mm, 50 mm and 90 mm fields of view.

The entire visible field is approximately that for 35 mm lenses. 28 mm lenses require the brilliant finder Code No. 12 009.

Exceptions:

1. The following lenses, when used on the LEICA CL, require removal of their lens hoods for focusing, particularly at close distances:

| | |
|-----------------|-------|
| 35 mm SUMMICRON | f/2 |
| 35 mm SUMMILUX | f/1.4 |
| 50 mm SUMMILUX | f/1.4 |
| 50 mm NOCTILUX | f/1.2 |
| 90 mm ELMARIT | f/2.8 |

When used on the LEICA CL, the high-speed SUMMILUX f/1.4 and NOCTILUX f/1.2 50 mm lenses should be stopped down to at least f/2.

The 50 mm NOCTILUX f/1 cannot be used.

2. Lenses with extended focusing range:

The LEICA CL rangefinder covers a focusing range from infinity down to 0.8 m (32").

Some LEICA M lenses focus on still closer distances:

| | |
|-----------------|-----------------------|
| 28 mm ELMARIT | f/2.8 |
| 35 mm SUMMICRON | f/2 |
| 50 mm SUMMICRON | f/2 (Code No. 11 817) |
| 50 mm SUMMICRON | f/2 with dual range |

Here distances shorter than 0.8 m (32") cannot be focused in the view-finder of the LEICA CL.

3. Collapsible lenses need protective tape to limit the retraction of the lens barrel. This is available internationally in various widths from DYMO.

The tape should surround the lens barrel, leaving a gap of about 1 mm.

To cut the right length first make a paper pattern.

Collapsible lenses:

| | | |
|-----------------|-------|--|
| 50 mm ELMAR | f/3.5 | } Required tape width 9.5 mm (3/8 in) |
| 50 mm ELMAR | f/2.8 | |
| 50 mm SUMMAR | f/2 | |
| 50 mm SUMMITAR | f/2 | |
| 50 mm SUMMICRON | f/2 | |
| 90 mm ELMAR | f/4 | } Required tape width 12.7 mm (1/2 in) |
| 50 mm HEKTOR | f/2.5 | |

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 28 mm ELMARIT f/2.8 (Serial No. below 2 314 921) and the 21 mm SUPER-ANGULON.
 - b) Lenses with a finder attachment such as the 35 mm wide-angle lenses for the LEICA M3 and the 135 mm ELMARIT f/2.8.
 - c) The 90 mm SUMMICRON f/2 and the 135 mm TELE-ELMAR f/4.

Existing interchangeable lenses on the LEICA M5

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 M5. 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 internationally in various widths from DYMO.

The tape should surround the lens mount leaving a gap of 1 mm. To obtain the right length, a paper pattern should first be cut.

Collapsible lenses:

| | | |
|-----------------|-------|----------------------------------|
| 50 mm ELMAR | f/3.5 | } Required width of type 9.5 mm |
| 50 mm ELMAR | f/2.8 | |
| 50 mm SUMMAR | f/2 | |
| 50 mm SUMMITAR | f/2 | |
| 50 mm SUMMICRON | f/2 | |
| 90 mm ELMAR | f/4 | } Required width of tape 12.7 mm |
| 50 mm HEKTOR | f/2.5 | |

2. **Lenses to be returned to the Leitz Technical Service Centre, National Agency, or authorized workshop for adaptation:**

- a) 21 mm and 28 mm 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.

| | | |
|---------------------|-------|---|
| 21 mm SUPER-ANGULON | f/4 | with screw thread. The bayonet adapter has to be modified. (Code No. 14 097) Please state: for 21 mm |
| 21 mm SUPER-ANGULON | f/4 | with bayonet mount |
| 21 mm SUPER-ANGULON | f/3.4 | with bayonet mount (below Serial No. 2 473 251) |
| 28 mm ELMARIT | f/2.8 | with bayonet mount (below Serial No. 2 314 921) |

- b) lenses whose detachable viewfinder attachments foul the cover plate of the LEICA M5.

Lens bayonet and viewfinder attachment must be re-machined.

| | | |
|-----------------|-------|--|
| 35 mm SUMMARON | f/3.5 | with detachable viewfinder attachment |
| 50 mm SUMMICRON | f/2 | with near-focusing range |

In addition the VISOFLEX 1 and 3 and the Universal Focusing Bellows can be used with the LEICA M5. With these accessories, selective light metering is also possible with photography from the tripod. The measured value is read in the measuring viewfinder of the camera when the mirror is swung out.

The VISOFLEX 2 cannot be used.

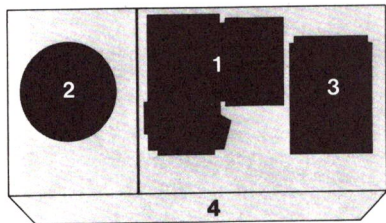
Please use only the body cover supplied with the M5.

Attention:

In the LEICA M5 only films in cassettes with standardized spools (to DIN 4535 or ISO 1057 standards) can be used. These spools have drive lugs on both ends. The rewind key of the LEICA M5 engages in the drive lugs facing the camera baseplate.

Small combination bag R

| | |
|--|--------------|
| | Code No. |
| Small combination bag for LEICA R models ⁶⁾ | 14 805 _____ |
| Small Safari bag R | 14 841 _____ |
| Combination bag for LEICA R3 models (not available any more) | 14 829 _____ |



The following combinations can be accommodated:

Compartment 1:

for LEICA R models **without** Motor-Winder / Motor-Drive with one of the following lenses: 3.5/15²⁾, 2.8/16, 2.8/19²⁾, 4/21²⁾, 2.8/24²⁾, 2.8/28²⁾, PC 2.8/28¹⁾, 4/35²⁾, 2.8/35, 2/35, 1.4/35, 3.5/35 - 70, 2/50, 1.4/50, 2.8/60³⁾, 1.4/80, 2.8/90, 2/90, 4/100, 2.8/135, 4/ 180 or Extender R with 3.5/35 - 70, 2/50, 2.8/60, 2.8/90, 2/90

Compartment 2:

for one of the following lenses:

2.8/16, 4/21¹⁾, all lenses from 24 to 180 mm (including the zoom lenses), 2.8/60³⁾, PC 2.8/28¹⁾, 4/100³⁾, 4/250 to No. 3 050 600 or Extender R with 3.5/35 - 70, 2/50, 2.8/60³⁾, 2.8/ 90, 2/90, 4/100, 2.8/135, 4/180, or 2.8/100 with Elpro 1: 2 - 1:1

Compartment 2:

with added coupling ring 14 836 for two of the following lenses:

| | |
|-------------------------|---|
| 2.8/16 | all lenses from 21 to 90 mm ⁴⁾ |
| 4/21 ¹⁾ | 2.8/16, 2.8/24 ¹⁾ , 2.8/28 ¹⁾ , PC 2.8/28 ¹⁾ , 4/35 ¹⁾ , 2.8/35, 2/35, all lenses from 50 to 135 mm |
| 2.8/24 | 2.8/16, 4/21 ¹⁾ all lenses from 28 to 90 mm as "4/21" |
| 2.8/28 | 2.8/16, 4/21 ¹⁾ , 2.8/24 ¹⁾ , PC 2.8/28 ¹⁾ , all lenses from 35 to 90 mm as "4/21" |
| PC 2.8/28 ¹⁾ | 4/21 ¹⁾ , 2.8/24, 2.8/28, 4/35 ¹⁾ , 2.8/35, 2/35, 1.4/50, 2/50, 2.8/90 |
| 4/35 ¹⁾ | 2.8/16, all lenses from 21 to 90 mm (PC 2.8/28 ¹⁾) |
| 2.8/35 | as "4/35" |
| 2/35 | as "4/35" |
| 1.4/35 | 2.8/16, all lenses from 21 - 60 mm ⁴⁾ (4/35 ¹⁾) |
| 3.5/35 - 70 | as "1,4/35" |

| | |
|------------------------|---|
| 2/50 | 2.8/16, all lenses from 21 to 100 mm ⁵⁾ |
| 2/50 with Extender R | 2.8/16, 4/21 ¹⁾ , 2.8/24 ¹⁾ , 2.8/28, 4/35 ¹⁾ , 2.8/35, 2/35, 3.5/35 - 70, 2.8/60, 1.4/80, 2/90 |
| 1.4/50 | as "4/35" |
| 2.8/60 | as "4/35" |
| 2.8/60 with Extender R | 2.8/35, 2/50 |
| 1.4/80 | 2.8/16 all lenses from 21 to 60 mm ⁴⁾ (4/35 ¹⁾) |
| 2.8/90 | as "1.4/80" |
| 2/90 | as "1,4/80" |
| 2/90 with Extender R | 2.8/35, 2/50 |
| 4/100 | 2/50 |

Compartment 3:

for films, filters, etc. or one of the following lenses:
4/21¹⁾, 2.8/24¹⁾, 2.8/28, 4/35¹⁾, 2.8/35, 2/35, 2/50, 1.4/50, 2.8/60, 2.8/90,
Extender R

Compartment 4:

Front pocket for lens hoods, films, filters etc.

¹⁾ = without lens hood

²⁾ = no additional lens fits in the compartment below the camera

³⁾ = also with adapter

⁴⁾ = except PC 2.8/28

⁵⁾ = except 2.8/100

⁶⁾ = not for LEICA R 3

Large combination bag R

Code No.

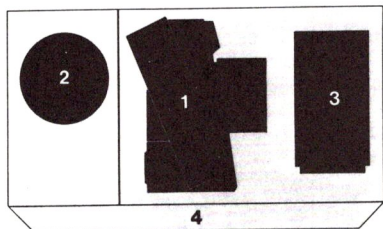
Large combination bag for LEICA R models ⁶⁾ with Motor Winder /

Motor Drive and handgrip attached

14 833 _____

Large Safari bag

14 837 _____



The following combinations can be accommodated:

Compartment 1:

for LEICA R models ⁴⁾(also with Data-Back) with Motor-Winder / Motor-Drive attached and handgrip and one of the following lenses:

3.5/15 ²⁾, 2.8/16, 2.8/19 ²⁾, 4/21 ²⁾, 2.8/24 ²⁾, 2.8/28 ²⁾, PC 2.8/28 ¹⁾ (setting screw facing up), 4/35 ²⁾, 2.8/35, 2/35, 1.4/35, 3.5/35 - 70, all lenses from 50 to 135 mm (2.8/60 ³⁾, 4/180, 2.8/180 from No. 2.939 701 or Extender with 3.5/35 - 70, 2/50, 2.8/60 ³⁾, 2.8/90, 2/90, 4/100, 2.8/ 135

Compartment 2:

for one of the following lenses:

2.8/16, 4/21 ¹⁾, all lenses from 24 to 180 mm (including the zoom lenses), PC 2.8/28 ¹⁾, 2.8/60 ³⁾, 4/100 ³⁾, 4/250 to No. 3 050 600 or Extender R with 3.5/35 - 70, 2/50, 2.8/60 ³⁾, 2.8/ 90, 2/90, 4/100 ³⁾, 2.8/135, 4/180, 3.4/180, 2.8/180 from No. 2.939 701 or 2.8/100 with Elpro 1:2-1:1

Compartment 2:

with added coupling ring 14 836 for two of the following lenses:

| | |
|-------------------------|---|
| 2.8/16 | all lenses from 21 to 135 mm ⁴⁾ ⁵⁾ (2,8/60 ³⁾) |
| 4/21 ¹⁾ | 2.8/16, 2.8/24 ¹⁾ , 2.8/28 ¹⁾ , PC 2.8/28 ¹⁾ , 4/35 ¹⁾ , 2.8/35, 2/35, all lenses from 50 to 135 mm ⁵⁾ (2.8/60 ³⁾ , 4/180 |
| 2.8/24 | 2.8/16, 4/21 ¹⁾ all lenses from 28 to 135 mm as "4/21" |
| 2.8/28 | 2.8/16, 4/21 ¹⁾ , 2.8/24 ¹⁾ , all lenses from 28 to 135 mm as "4/21" |
| PC 2.8/28 ¹⁾ | 4/21 ¹⁾ , 2.8/24, 2.8/28, 4/35 ¹⁾ , 2.8/35, 2/35, 2/50, 1,4/50, 2.8/60 |
| 4/35 ¹⁾ | 2.8/16, all lenses from 21 to 135 mm ⁵⁾ (PC 2.8/28 ¹⁾ , (2.8/60 ³⁾ , 4/180 |
| 2.8/35 | as "4/35" |
| 2/35 | as "4/35" |
| 1.4/35 | 2.8/16, all lenses from 21 - 60 mm ⁴⁾ (4/35 ¹⁾) |
| 3,5/35 - 70 | as "1,4/35" |

| | |
|------------------------|--|
| 2/50 | as "4/35" |
| 2/50 with Extender R | 2.8/16, 4/21 ¹⁾ , 2.8/24 ¹⁾ , 2.8/28, 4/35 ¹⁾ , 2.8/35, 2/35, 3.5/35 - 70, all lenses from 60 to 90 mm |
| 1.4/50 | as "4/35" |
| 2.8/60 | as "4/35" |
| 2.8/60 with Extender R | 4/21 ¹⁾ , 2.8/24 ¹⁾ , 2.8/28 ¹⁾ , 4/35 ¹⁾ , 2.8/35, 2/35, 2/50, 1.4/50 |
| 1.4/80 | 2.8/16 all lenses from 21 to 60 mm ⁴⁾ (4/35 ¹⁾) |
| 2.8/90 | as "1.4/80" |
| 2.8/90 with Extender R | 2.8/35, 2/35, 2/50, 1.4/50 |
| 2/90 | 2.8/16, all lenses from 21 to 80 mm ⁴⁾ , 4/100 |
| 2/90 with Extender R | 2.8/16, 4/21 ¹⁾ , 2.8/24 ¹⁾ , 2.8/28 ¹⁾ , 4/35 ¹⁾ , 2.8/35, 2/35, 2/50, 1.4/50 |
| 4/100 | 2.8/16, all lenses from 21 ¹⁾ to 50 mm ⁴⁾) |
| 2.8/135 | as "4/100" |
| 4/180 | 4/21 ¹⁾ , 4/35 ¹⁾ , 2.8/35, 2/35, 2/50, 1.4/50 |

Compartment 3:

for film, filters etc. or one of the following lenses:

4/21¹⁾, 2.8/24, 2.8/28, 4/35¹⁾, 2.8/35, 2/35, 2/50, 1.4/50, 2.8/60³⁾, 2.8/90, 4/100, 2.8/135, 4/180, Extender R, or Extender R with 2/50, 2.8/60, 2.8/90

Compartment 4:

Front pocket for lens hoods, films, filters etc.

¹⁾ = without lens hood

²⁾ = no other lens fits in the compartment below the camera

³⁾ = also with adapter

⁴⁾ = except PC 2.8/28

⁵⁾ = except 2.8/100

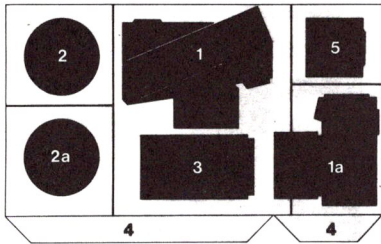
⁶⁾ = not for LEICA R3

Hold-all R

Code No. _____

Hold-all for LEICA R⁶) models **14834** _____

Hold-all for LEICA R3 models **14835** _____



The following combinations can be accommodated:

Compartment 1:

for LEICA R models (also with Data-Back) or LEICA R3 models with the Motor-Winder / Motor-Drive attached and handgrip with one of the following lenses: 3.5/15, 2.8/16, 2.8/19²⁾, all lenses from 21 to 135 mm⁵⁾ (PC 2.8/28 setting screw facing up, (2.8/60³⁾, 4/180, or Extender R mit 2/50, 2.8/60, 2/90

Compartment 1a:

for LEICA R without Motor-Winder / Motor-Drive with one of the following lenses: 2.8/35, 2/50

Compartment 2:

Compartment 2a:

for one of the following lenses each:

PC 2.8/28¹⁾, 1.4/35, 3.5/35 - 70, 2.8/60³⁾, 1.4/80, 2.8/90, 4/100³⁾, 2.8/100, 2.8/135, 4/180, 3.4/180, 2.8/180, 4/250 to No. 3 050 600, 4/70 - 210

or Extender R with 2/50, 2.8/60³⁾, all lenses from 90 to 180 mm⁵⁾ (4/100³⁾, 4/70 - 210 or 2.8/100 with Elpro 1: 2 - 1: 1

Smaller lenses (shorter focal length) can be removed from the depth of the compartment only with great difficulty.

Compartment 2:

Compartment 2a:

with added coupling ring 14836 for two each of the following lenses:

2.8/16 4/21¹⁾, all lenses from 24 to 135 mm (PC 2.8/28¹⁾, (2.8/60³⁾, 4/180
4/21¹⁾ 2.8/16, all lenses from 24 to 135 mm (PC 2.8/28¹⁾, (2.8/60³⁾,
(4/100³⁾, 4/180, 2.8/180 to No. 2939 701

2.8/24 2.8/16, 4/21¹⁾, all lenses from 28 to 135 mm (PC 2.8/28¹⁾, (2.8/60³⁾,
4/180

2.8/28 2.8/16, 4/21¹⁾, 2.8/24, all lenses from 35 to 135 mm (PC 2.8/28¹⁾,
(2.8/60³⁾, 4/180

PC 2.8/28¹⁾ 2.8/16, all lenses from 21¹⁾ to 90 mm

4/35 2.8/16, all lenses from 21¹⁾ to 135 mm (PC 2.8/28¹⁾, (2.8/60³⁾,
4/180

2.8/35 2.8/16, all lenses from 21¹⁾ to 135 mm (PC 2.8/28¹⁾, (2.8/60³⁾,
(4/100³⁾, 4/180, 2.8/180 to No. 2939 701

2/35 as "2.8/35"

1.4/35 2.8/16, all lenses from 21¹⁾ to 135 mm⁵⁾ (PC 2.8/28¹⁾, (2.8/60³⁾,
4/180

3.5/35 - 70 as "1.4/35", 2.8/100

2/50 as 2.8/35
 2/50 with Extender R 2.8/16, all lenses from 21¹⁾ to 135 mm⁵⁾ (PC 2.8/28¹⁾, (2.8/60³⁾, 4/180
 1.4/50 as "2.8/35"
 2.8/60 2.8/16, all lenses from 21¹⁾ to 135 mm (PC 2.8/28¹⁾, 4/180
 2.8/60 with Extender R 2.8/16, all lenses from 21¹⁾ to 90 mm⁴⁾
 1.4/80 2.8/16, all lenses from 21¹⁾ to 135 mm⁵⁾ (PC 2.8/28¹⁾, (2.8/60³⁾, 4/180
 2.8/90 as "1.4/80"
 2.8/90 with Extender R 2.8/16, all lenses from 21¹⁾ to 80 mm (PC 2.8/28¹⁾
 2/90 as "1.4/80"
 2/90 with Extender R as "2.8/90 with Extender R"
 4/100 2.8/16, all lenses from 21¹⁾ to 90 mm⁴⁾
 4/100 with Extender R 2.8/16, all lenses from 21¹⁾ to 50 mm⁴⁾
 2.8/100 2.8/16, all lenses from 4/21¹⁾ to 60 mm⁴⁾
 2.8/135 as "4/100"
 2.8/135 with Extender R as "4/100 with Extender R"
 4/180 as "4/100"
 4/180 with Extender R 2.8/35, 2/50
 2.8/180 (to No. 2939701) 4/21¹⁾, 2.8/24¹⁾, 2.8/28¹⁾, 4/35¹⁾, 2.8/35, 2/35, 2/50, 1.4/50

Compartment 3:

for films, filters, etc. or one of the following lenses:
 2.8/28¹⁾, 2.8/35, 2/35, 2/50, 1.4/50, Extender R, Extender R with 2/50

Compartment 4:

Front pocket for lens hoods, films, filters etc.

Compartment 5:

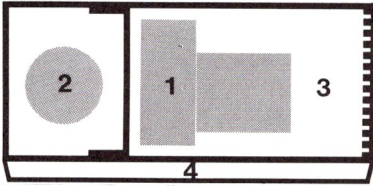
für Motor-Winder / Motor-Drive, RC LEICA R Control Unit, etc.

1) = without lens hood
 2) = no other lens fits in the compartment below the camera
 3) = also with adapter
 4) = except PC 2.8/28
 5) = except 2.8/100
 6) = not for LEICA R3

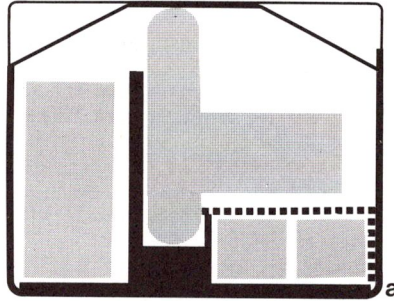
Small combination bag M

Code No.
14840 _____

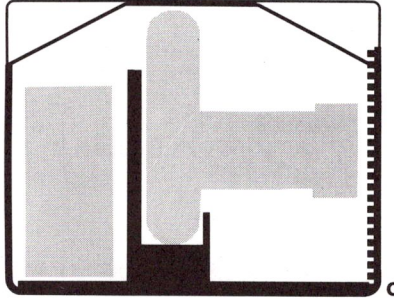
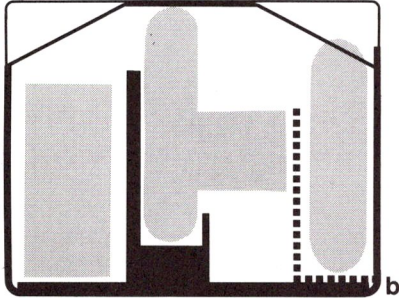
Small combination bag for the LEICA M6



Top view



Cross section from front



The flap in the camera compartment (1) can be folded in two ways:

Fig. a: A space is created below the lens locked into the camera.

Fig. b: A compartment accommodating a second camera body without lens is created.

Fig. c: The entire space (3) is available, for instance to accept a large lens locked into the camera with lens hood.

The following combinations can be accommodated:

Compartment 1:

for LEICA M6 without Leica Winder (Fig. a) with one of the following lenses:

2.8/21, 2.8/28, 1.4/35, 2/35, 1/50, 1.4/50, 2/50, 1.4/75, 2/90, 2.8/90

Compartment 1:

for LEICA M6 without Leica Winder when a second camera body is to be accommodated (Fig. b) with one of the following lenses:

1.4/35, 2/35, 1.4/50*, 2/50*

Compartment 2:

for one of the following lenses:

2.8/21, 2.8/28, 1.4/35, 2/35, 1.4/50, 2/50, 1.4/75, 2/90, 2.8/90, 4/135

Compartment 2:

with added coupling ring 14 838 for two each of the following lenses:

| | |
|----------|------------------------------------|
| 1.4/35 | 1.4/50, 2/50, 1.4/75, 2/90, 2.8/90 |
| 2/35 | 1.4/50, 2/50, 1.4/75, 2/90, 2.8/90 |
| 1.4/50 * | 1.4/35, 2/35, 1.4/75, 2/90, 2.8/90 |
| 2/50 * | 1.4/35, 2/35, 1.4/75, 2/90, 2.8/90 |
| 1.4/75 | 1.4/35, 2/35, 1.4/50 *, 2/50 * |
| 2/90 | 1.4/35, 2/35, 1.4/50 *, 2/50 * |
| 2.8/90 | 1.4/35, 2/35, 1.4/50 *, 2/50 * |

Compartment 3:

for lens hoods, films, filters etc.

Compartment 4:

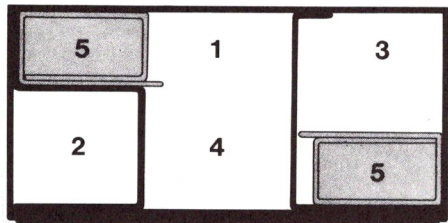
front pocket for lens hoods, films, filters etc.

* with lens hood attached back to front.

Large combination bag M

Code No.
14 842 _____

Large combination bag M for the LEICA M6



There are two coupling rings (Code No. 14 838) in the bag. With each of these, two lenses can be locked together, as well as two push-in holders for four film cartridges each (5). One film cartridge holder protects slim lenses in compartment 3. The other provides a firm support for the LEICA M without Winder in compartment 1.

Compartment 1:

Camera with or without Winder (if the camera is not equipped with Winder, the film cartridge holder is pushed into compartment 1 in such a way that the protruding side edge protects the camera to the front: see diagram. One of the following lenses can be looked onto the camera:

2.8/21, 2.8/28, 1.4/35, 1/50¹⁾, 1.4/50, 2/50, 2.8/90

Compartment 2:

for one of the following lenses:

2/90, 2.8/90, 4/135

It is difficult to remove smaller lenses (shorter focal lengths) out of the depth of the compartment.

Compartment 2:

with added coupling ring 14 838 for two of the following lenses (the first-mentioned lens is pushed downwards into the compartment):

2.8/21¹⁾ 1.4/50¹⁾, 2/50, 1.4/75, 2/90, 2.8/90

2.8/28 1.4/50¹⁾, 2/50, 2.8/90

1.4/35 1.4/50¹⁾, 2/50, 2/90, 2.8/90

2/35 1.4/50¹⁾, 2/50, 2/90, 2.8/90

1.4/50¹⁾ 2.8/21¹⁾, 2.8/28, 1.4/35, 2/35, 2/50, 2/90, 2.8/90

2/50 2.8/21¹⁾, 2.8/28, 1.4/35, 2/35, 1.4/50, 2/90, 2.8/90

2/90 2.8/21, 2.8/28, 1.4/35, 2/35, 1.4/50, 2/50, 2.8/90

2.8/90 2.8/21, 2.8/28, 1.4/35, 2/35, 1.4/50, 2/50, 2/90

or the diagonally inserted Winder.

Compartment 3:

for one of the following lenses without film cartridge holder (5):

2.8/21, 1/50, 1.4/50, 1.4/75, 2.8/135

or for one of the following lenses with film cartridge holder (5):

2.8/21¹⁾, 2.8/28, 1.4/35, 2/35, 1.4/50¹⁾, 2/50, 2/90, 2.8/90, 4/135

Compartment 3:

with added coupling ring 14 838 for two of the following lenses with film cartridge holder (5) (the first-mentioned lens is pushed downwards into the compartment:

| | |
|----------------------|---|
| 2.8/21 ¹⁾ | 1/50, 1.4/50, 2/50, 1.4/75, 2/90, 2.8/90 |
| 2.8/28 | 1/50, 1.4/50, 2/50, 2.8/90 |
| 1.4/35 | 1/50, 1.4/50, 2/50, 1.4/75, 2/90, 2.8/90 |
| 2/35 | 1/50, 1.4/50, 2/50, 1.4/75, 2/90, 2.8/90 |
| 1/50 ²⁾ | 2.8/21, 2.8/28, 1.4/35, 2/35, 1.4/50, 2/50 |
| 1.4/50 ¹⁾ | 2.8/21, 2.8/28, 1.4/35, 2/35, 1/50, 2/50, 1.4/75, 2/90, 2.8/90 |
| 2/50 | 2.8/21, 2.8/28, 1.4/35, 2/35, 1/50, 1.4/50, 1.4/75, 2/90, 2.8/90 |
| 1.4/75 ²⁾ | 2.8/21, 1.4/35, 2/35, 1/50 ¹⁾ , 1.4/50, 2/50 |
| 2/90 | 2.8/21, 2.8/28, 1.4/35, 2/35, 1/50 ¹⁾ , 1.4/50, 2/50, 2.8/90 |
| 2.8/90 | 2.8/21, 2.8/28, 1.4/35, 2/35, 1/50 ¹⁾ , 1.4/50, 2/50 |

Compartment 4:

(with open flap) for one of the following:

1.4/35 ¹⁾, 2/35 ¹⁾

Compartment 5:

push-in film cartridge holder giving the camera without Winder firm support and protecting slim lenses in compartment 3:

for four film cartridges, of which two are pushed in from above and two from below.

Compartment 6:

Front pocket for lens hoods, films, filters etc.

¹⁾ = without lens hood

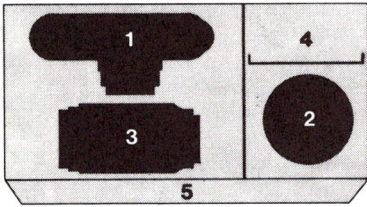
²⁾ = without loose part 5 in compartment 3

Hold-all M

Code No.

Hold-all for LEICA M models (except M5)

14 827 _____



The following combinations can be accommodated:

Compartment 1:

for LEICA M cameras with the LEICAMETER in place (except LEICA M 5), with or without winder, with one of the following lenses:

2.8/21, 2.8/28, 2/35, 1.4/35, 2/50, 1.4/50, 1/50, 1.4/75, 2.8/90, 2/90¹⁾

Compartment 2:

for one of the following lenses:

2.8/21, 2.8/28, 2/35, 1.4/35, 2/50, 1.4/50, 1/50, 1.4/75, 2.8/90, 2/90, 4/135, 2.8/135

Compartment 2:

with added coupling ring 14 838 for two of the following lenses:

| | |
|--------------------|---|
| 2/35 | 2/50, 1.4/50, 1/50, 1.4/75, 2.8/90, 2/90, 4/135 |
| 1.4/35 | 2/50, 1.4/50, 1/50, 1.4/75, 2.8/90, 2/90, 4/135 |
| 2/50 | 2/35, 1.4/35, 1/50, 1.4/75, 2.8/90, 2/90, 4/135 ²⁾ |
| 1.4/50 | 2/35, 1.4/35, 1.4/75, 2.8/90, 2/90 ¹⁾ |
| 1/50 | 2/35, 1.4/35 |
| 1/50 ²⁾ | 1.4/75, 2.8/90, 2/90 |
| 1.4/75 | 2/35, 1.4/35, 2/50, 1.4/50, 1/50 ²⁾ |
| 2.8/90 | 2/35, 1.4/35, 2/50, 1.4/50, 1/50 ²⁾ |
| 2/90 | 2/35, 1.4/35, 2/50 |
| 2/90 ¹⁾ | 1.4/50, 1/50 ²⁾ |
| 4/135 | 2/35, 1.4/35, 2/50 ²⁾ |
| 2.8/135 | 2/35 ²⁾ , 1.4/35 ²⁾ |

Compartment 3:

for films, filters, etc. or one of the following lenses:

2.8/21²⁾, 2.8/28, 2/35, 1.4/35, 2/50, 1.4/50, 1/50²⁾, 1.4/75, 2.8/90, 4/135

Compartment 3:

with added coupling ring 14 838 for two of the following lenses:

| | |
|----------------------|--|
| 2/35 | 2/50, 1.4/50 ²⁾ , 1/50 ²⁾ , 2.8/90, 2/90 ¹⁾ , 4/135 |
| 1.4/35 | 2/50, 1.4/50 ²⁾ , 1/50 ²⁾ , 2.8/90, 2/90 ¹⁾ , 4/135 |
| 2/50 | 2/35, 1.4/35, 1/50 ²⁾ , 2.8/90, 2/90 ¹⁾ , 4/135 |
| 1.4/50 ²⁾ | 2/35, 1.4/35, 2.8/90, 2/90 ¹⁾ , 4/135 |
| 1/50 ²⁾ | 2/35, 1.4/35, 2/50, 2.8/90 |
| 2.8/90 | 2/35, 1.4/35, 2/50, 1.4/50 ²⁾ , 1/50 ²⁾ |
| 2/90 ¹⁾ | 2/35, 1.4/35, 2/50, 1.4/50 ²⁾ |
| 4/135 | 2/35, 1.4/35, 2/50, 1.4/50 ²⁾ |

Compartment 4:

of variable size through partition wall with Velcro lock, for winder and general accessories such as filters, lens hood etc.

Compartment 5:

Front pocket for lens hood, filters, films, etc.

For Visoflex equipment:

Compartment 1:

LEICA M camera (except LEICA M5) with VISOFLEX 3 or 2 attached without magnifier with 3.5/65.

Compartment 2:

VISOFLEX 3 or 2 with magnifier or VISOFLEX lenses of up to 200 mm focal length.

¹⁾ = from No. 2997 001 onward

²⁾ = without lens hood

Projection

Lamps

| Projectors | | Projector lamps | | | | | | Light pointer lamps | | A-F lamp | | | | | | | | | | | | | | |
|-------------------------|-------------------------------------|------------------------------|------------------------|------------------------------|--|--|---|--|---|--|--|----------------------------------|---------------|----------------------------|--------|------|---|--|--|--|--|--|--|--|
| PRADO S/SM PRADO 150 | PRADO 250/500/66 PRADO UNIVERSAL | PRADOVIT I/F PRADOVIT n12 | PRADOVIT n24 PRADIX | PRADOLUX PRADOVIT COLOR F | PRADOVIT COLOR 150 + AF PRADOVIT COLOR 250 + AF | PRADOVIT TA / RC PRADOVIT COLOR 110 | PRADOVIT R 150 / RA 150 PRADOVIT C / CA 1500 | PRADOVIT C / CA 2500 PRADOVIT S / SAF | PRADOVIT R / RA 152 PRADOVIT CA 2502 | LEICA P / PRADOVIT 153 / I53 DU LEICA P / PRADOVIT 153 IR | LEICA P / PRADOVIT 253 / 253 DU LEICA P / PRADOVIT 253 IR | PRADOVIT COLOR 2 LEICA P 2000 | Base | Code No. Techn. Service | Watt | Volt | | | | | | | | |
| | | | | | | | | | | | | | G 6, 35 - 15 | 038-101.093-000 | 150 | 24 | H | | | | | | | |
| | | | | | | | | | | | | | G 6, 35 - 15 | 038-101.098-000 | 250 | 24 | H | | | | | | | |
| | | | | | | | | | | | | | GY 6, 35 - 33 | 038-101.092-000 | 100 | 12 | H | | | | | | | |
| | | | | | | | | | | | | | GZ 6, 35 | 038-101.128-000 | 75 | 12 | H | | | | | | | |
| | | | | | | | | | | | | | P 28 | 038-127.003-013 | 150 | 220 | | | | | | | | |
| | | | | | | | | | | | | | P 28 | 039-127.003-002 | 150 | 110 | | | | | | | | |
| | | | | | | | | | | | | | P 28 | 038-127.004-013 | 250 | 220 | | | | | | | | |
| | | | | | | | | | | | | | P 28 | 038-127.004-002 | 250 | 110 | | | | | | | | |
| | | | | | | | | | | | | | P 28 | 038-127.005-013 | 300 | 220 | | | | | | | | |
| | | | | | | | | | | | | | P 28 | 038-127.005-002 | 300 | 110 | | | | | | | | |
| | | | | | | | | | | | | | P 28 | 038-127.007-013 | 500 | 220 | | | | | | | | |
| | | | | | | | | | | | | | P 28 | 038-127.007-002 | 500 | 110 | | | | | | | | |
| | | | | | | | | | | | | | G 17 q | 038-127.009-013 | 150 | 220 | | | | | | | | |
| | | | | | | | | | | | | | G 17 q | 038-127.009-002 | 150 | 110 | | | | | | | | |
| | | | | | | | | | | | | | G 17 q | 038-127.006-013 | 300 | 220 | | | | | | | | |
| | | | | | | | | | | | | | G 17 q | 038-127.006-002 | 300 | 110 | | | | | | | | |
| | | | | | | | | | | | | | G 17 q | 038-127.008-013 | 500 | 220 | | | | | | | | |
| | | | | | | | | | | | | | G 17 q | 038-127.008-002 | 500 | 110 | | | | | | | | |
| | | | | | | | | | | | | | Ba 15 s | 038-101.090-000 | 100 | 12 | | | | | | | | |
| | | | | | | | | | | | | | GY 179 | 038-101.091-000 | 150 | 24 | | | | | | | | |
| | | | | | | | | | | | | | Ba 9 s | 302-053.018.001 | 4 | 12 | | | | | | | | |
| | | | | | | | | | | | | | Ba 9 s | 302-053.018.011 | 4 | 12 | | | | | | | | |
| | | | | | | | | | | | | | Ba 9 s | 038-101.129.000 | 0,45 A | 3 | | | | | | | | |
| | | | | | | | | | | | | | Ba 9 s | 038-101.133-000 | 400 mA | 12 | | | | | | | | |
| | | | | | | | | | | | | | Ba 9 s | 038-101.134-000 | 3 | 12 | | | | | | | | |
| | | | | | | | | | | | | | Ba 9 s | 038-101.142-000 | 5 | 24 | | | | | | | | |
| | | | | | | | | | | | | | Ba 9 s | 038-101.073-000 | 5 | 6 | | | | | | | | |
| | | | | | | | | | | | | | Striplight | 031-049.076-011 | 3 | 12 | | | | | | | | |
| | | | | | | | | | | | | | Striplight | 031-201-004-022 | 3 | 24 | | | | | | | | |

| Projectors | | Projector lamps | | | |
|---------------------|----------------------------|-----------------|------|--|--|
| | | | | | |
| EPIKOP Vh 2/III L2 | | | | | |
| EPIKOP III LH | | | | | |
| EPIKOP Vz 2 | | | | | |
| EPIKOP Vz 3 | | | | | |
| EPIKOP LE 19 | | | | | |
| EPIKOP LE 19 S | | | | | |
| DIASCRIPTOR 4 | | | | | |
| DIASCRIPTOR OP 200 | | | | | |
| DIASCRIPTOR OP 2500 | | | | | |
| Base | Code No. Techn. Service | Watt | Volt | | |
| | | | | | |
| Fc 2 | 038-101.127-000 | 1000 | 220 | | |
| R 7 s 15 | 038-127.023-000 | 650 | 118 | | |
| R 7 s 15 | 038-127.020-014 | 800 | 220 | | |
| GY 9,5 | 038-127.025-014 | 800 | 220 | | |
| GY 9,5 | 038-127.025-019 | 800 | 115 | | |
| GY 9,5 | 038-127.024-014 | 500 | 230 | | |
| GY 9,5 | 038-127.024-019 | 500 | 115 | | |
| GY 16 | 038-127.027-013 | 2000 | 220 | | |
| GX 9,5 | 038-127.026-013 | 1000 | 220 | | |
| GX 9,5 | 038-127.026-019 | 1000 | 115 | | |
| G 6,35 | 038-101.098-000 | 250 | 24 | | |
| P 28 | 038-127.012-002 | 500 | 110 | | |
| P 28 | 038-127.012-013 | 500 | 220 | | |
| P 28 | 038-127.017-002 | 1000 | 110 | | |
| P 28 | 038-127.017-013 | 1000 | 220 | | |

Spare parts obtainable from the Leica Service Centre or national Leica agency.

Tables of projection distances and screen image sizes

35 mm format

Projection distances and screen image sizes for **the 35 mm format**.

A square screen is necessary when both upright and horizontal slides are to be projected; the table below contains the lengths of the screens in m.

For the projection of 40 x 40 mm slides the given values must be increased by about 10%.

| | | Focal lengths in mm | | | | | | | | |
|---------------------------|----|---------------------|------|------|------|------|------|------|------|------|
| | | 35 | 50 | 60 | 90 | 120 | 150 | 200 | 250 | 300 |
| Projection distances in m | 1 | 0.95 | | | | | | | | |
| | 2 | 1.95 | 1.30 | 1.15 | | | | | | |
| | 3 | 2.95 | 1.95 | 1.75 | 1.10 | | | | | |
| | 4 | 3.95 | 2.65 | 2.30 | 1.50 | 1.10 | | | | |
| | 5 | | 3.30 | 2.90 | 1.85 | 1.40 | 1.10 | | | |
| | 6 | | 4.00 | 3.50 | 2.25 | 1.70 | 1.35 | | | |
| | 7 | | | 4.00 | 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 | |

6 x 6 cm Format

Projection distance and screen image size for the **6 x 6 cm** (2¼ x 2¼ in) and 7 x 7 (2¾ x 2¾ in) format (transparency size 54 x 54 mm).

| | | Focal length in mm | | | |
|---------------------------|-----|--------------------|---------|--------|---------|
| | | 150 | 200 | 250 | 300 |
| Projection distance in ft | 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' | 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' |
| | 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 length in mm | | | |
|--------------------------|----|--------------------|------|------|------|
| | | 150 | 200 | 250 | 300 |
| Projection distance 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 | |

Micro attachments A + B

| Screen image dia. | Magnification / aperture and reproduction scale | | | Eyepiece and projection distances in feet, 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 |
| 60 cm 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" |
| 85 cm 34" | 155 : 1 | 400 : 1 | 1000 : 1 | | | 3.0 10' | 3.9 13' | 4.8 16' | 6.0 20' | 7.8 26' | |
| 125 cm 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" | | |

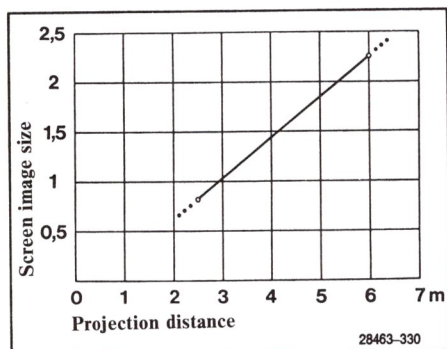
Example: With the 2.5 x eyepiece at a projection distance of 2.7 m (9 ft) a screen image of 60 cm (24 in) diameter is obtained. The reproduction scales obtainable with the objectives listed are 110 : 1, 275 : 1, and 680 : 1 respectively.

Projection attachment

| | Projection distance | Screen image size in m, ft | Reproduction ratio |
|--------------------------|---------------------|----------------------------|--------------------|
| ELMARON f/2.8/50 mm | 2.00 m 6' 8" | 1.90 m 6' 4" | 39 : 1 |
| | 3.00 m 10' | 2.85 m 9' 6" | 59 : 1 |
| | 4.00 m 13' 4" | 3.80 m 12' 8" | 79 : 1 |
| | 6.00 m 20' | 5.70 m 19' | 119 : 1 |
| COLORPLAN f/2.5/90 mm | 2.00 m 6' 8" | 1.00 m 3' 4" | 21 : 1 |
| | 3.00 m 10' | 1.55 m 5' 2" | 32 : 1 |
| | 4.00 m 13' 4" | 2.10 m 7' | 43 : 1 |
| | 6.00 m 20' | 3.20 m 10' 8" | 66 : 1 |

Episcopy

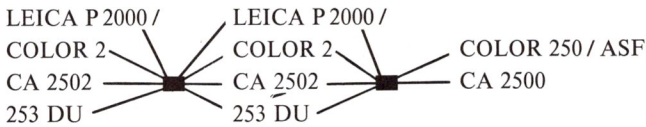
Projection distances and screen image sizes Episcopo LEITZ LE 19 and LE 19 S



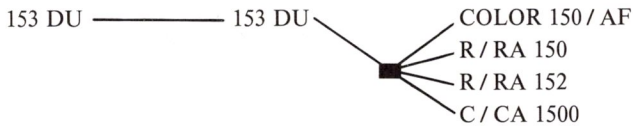
Projection distances between 2.5 and 6 m at screen image sizes between 80 cm and 2.5 m can be obtained.

The versatile possibilities of combination in the projector range in fade projection

Projectors, equipped with 250 W halogen lamps:



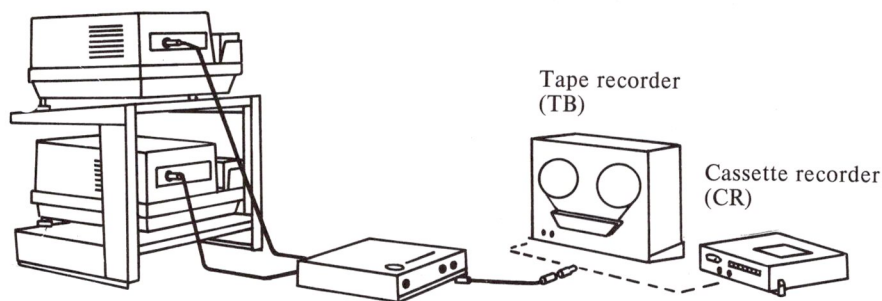
Projectors, equipped with 150 W halogen lamps:



Two projectors and a DU-24 P or DU-24 M Control Unit form one projection unit. Projectors which are fitted with a 14-pin socket (10 pins in use) and built-in triac for lamp control can be coupled as required. In the interest of convenient operation, models with autofocus devices are preferable.

All modified projectors, i. e. with the 14-pin socket (10 pins in use) and built-in triac, can be used as usual for single-slide projection without additional dummy plug.

Connection of the DU-24 P dissolve control unit to a tape recorder (TB) or cassette recorder (CR)



| Projector | Dissolve control unit | Connection | Sound recorder |
|--|-----------------------|---|---|
| 2 projectors of identical lamp brightness with built-in Triac and 10-pin socket. e.g. two PRADOVIT CA 2502 projectors (from Serial No. 145 758) COLOR 2, LEICA P 2000, PRADOVIT 153 DU, LEICA P 153 DU, PRADOVIT 253 DU, LEICA P 253 DU, or one PRADOVIT CA 2502 projector (from Serial No. 145 758) COLOR 2, LEICA P 2000 and one PRADOVIT 253 DU LEICA P 253 DU | DU-24 P | 6-pin connecting cable 031-049.159 | ASC (TB) UHER 1000 (CR) ITT 740 AV (CR)**, Philips 2209 AV (CR)**, Philips N 2235 (CR)**, Philips 2229 AV (CR)**, Philips 6920 AV MK II**, Philips 6290 AV (CR)**, All Philips tape units of the current range can be subsequently fitted with a pulse head. Metz Mecasound**, Studio 4920 (CR)**, Uher 240 AV (CR)**, Uher 160 AV**, Grundig TD 925 (TB)**, Grundig TS 945 (TB)**, |
| | | 6-pin* connecting cable 031-049.159 with junction piece 1*** | Grundig TK 222**, 242**, 246**, 248**, 600**, 745**, 747**, 845**, 847**, 850**, CN 1000**, TS 1000** |
| | | 6-pin* connecting cable 031-049.159 and junction piece 2*** | Uher 560 and 561 Royal with head carrier Z 346 AV** |
| | | Connecting cable phone plug 3.5 mm - 6-pin plug (available in radio shops). | ITT SL 537 A (CR), COLOR 2, LEICA P 2000, AVE 152 S (CR), RTW Telex C 130 (CR), Wollensak 2551 AV (CR) |

This list does not claim to be complete.

* Part of the DU-24 P outfit.

** No longer part of the product range.

*** Available from Leica Technical Service.

| Projector | Dis-solve control unit | Connection | Sound recorder |
|---|------------------------|---|---|
| 2 projectors of identical lamp brightness with built-in Triac and 10-pin socket. e.g. two PRADOVIT CA 2502 projectors (from Serial No. 145 758) COLOR 2, LEICA P 2000, PRADOVIT 153 DU, LEICA P 153 DU, PRADOVIT 253 DU, LEICA P 253 DU, or one PRADOVIT CA 2502 projector (from Serial No. 145 758) COLOR 2, LEICA P 2000, and one PRADOVIT 253 DU LEICA P 253 DU | DU-24 P | Connect the 6-pin lead 031-049.159* with a 5-pin plug (that goes into tape recorder): 6-pin plug to 5-pin plug pin 6 to pin 2 pin 3 to pin 3 | Revox B 77 FH (TB) |
| | | Connecting cable Cinch plug - 5-pin stereo plug (available in radio shops) | TASCAM 133 (CR) TASCAM 234 L-AV (CR) |
| | | Connecting cable 5-pin plug to Cinch plug and 6.3 mm (1/4") phone plug (available in radio shops) | All units with 3 and more tracks which can record separately. FOSTEX x 15 (CR) FOSTEX x 26 (CR) FOSTEX x 30 (CR) FOSTEX 160 (CR) FOSTEX 260 (CR) TASCAM PORTA 05 (CR) TASCAM PORTA ONE (CR) TASCAM PORTA TWO (CR) YAMAHA M 100 (CR) YAMAHA MT 3X (CR) |

This list does not claim to be complete.

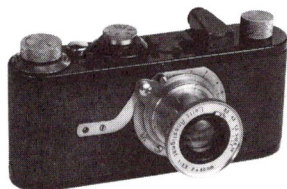
* Part of the DU-24 P outfit.

** No longer part of the product range.

*** Available from Leica Technical Service.

List of the LEICA models

Composition of the LEICA models

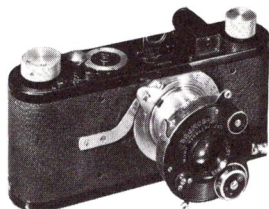


LEICA I

(non-interchangeable lens)

First basic LEICA model, black enamelled, **non-interchangeable 50 mm ELMAR f/3.5 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.



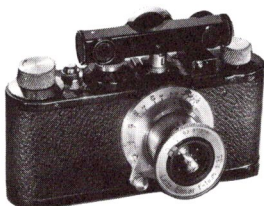
Compur LEICA

Black enamelled, non-interchangeable 50 mm ELMAR f/3.5 lens.

Compur shutter, speeds from $1 - 1/300$ sec.

Separate shutter wind and film transport.

Available from 1926.



LEICA I

(with changing mount)

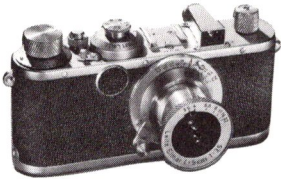
Camera with **screw mount for interchangeable lenses**.

Lens flange and lens screw mount not yet standardized.

Available from 1930 onwards.

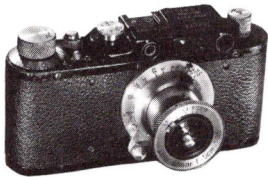
Lens flange and lens mount standardized in models from serial n° 60 500 onward.

Available from 1931.



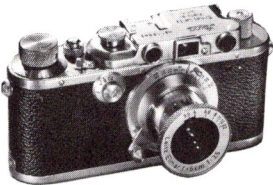
Standard LEICA

Black enamelled or chromium finished, screw mount for interchangeable lenses, slip-on rangefinder, focal plane shutter $\frac{1}{20}$ to $\frac{1}{500}$ sec., pull-out rewind knob.
Serial n^o from 100 000.
Available from 1932.



LEICA II

Black enamelled or chromium finished, with built-in coupled rangefinder, focal plane shutter $\frac{1}{20}$ to $\frac{1}{500}$ sec. and time exposure.
Serial n^o from 71 500.
Available from 1932.

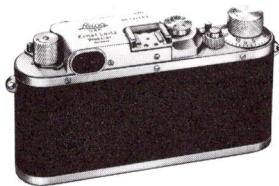


LEICA III

As model II, but with extended range of shutter speeds from 1 to $\frac{1}{500}$ sec., rangefinder with focusing telescope (1.5 x), eyelets at sides for carrying strap.
Serial n^o from 109 000.
Available from 1933.

LEICA III a

As model III, but with additional shutter speed $\frac{1}{1000}$ sec.
Serial n° from 156 201.
Available from 1935.



LEICA III b

As model III a, but with eye lenses for viewfinder and rangefinder close together.
The lever for adjusting the rangefinder telescope is next to the rewind knob.
Serial n° from 240 017.
Available from 1938.

LEICA 250

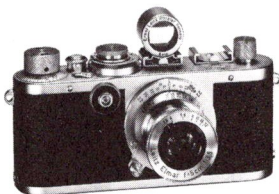
With enlarged cassette spaces (cassettes for 10 m (33ft) film) for reporters, otherwise as III a.

LEICA I c

Shutter speeds from $\frac{1}{30}$ to $\frac{1}{500}$ sec. and time exposure, slip-on brilliant finder and rangefinder, screw mount for interchangeable lenses.
Serial n° from 455 000.
Available from 1949.

LEICA II c

As model I c, but with built-in coupled range finder, shutter speeds from $\frac{1}{30}$ to $\frac{1}{500}$ sec. and time exposure.
Serial n° from 440 000.
Available from 1948.



LEICA I f

(black synchronizing dial)

As model I c, but fully synchronized, film indicator built into the film winding knob.
Serial n° from 562 000.
Available from 1952.

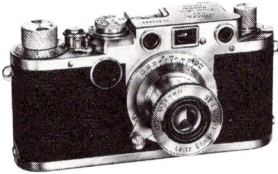
LEICA II f

(red synchronizing dial)

As above, but international shutter speeds $\frac{1}{25}$, $\frac{1}{50}$ sec. etc.

Serial n° from 536 001.

Available from 1952.



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 n° from 451 000.

Available from 1951.

LEICA II f

(red synchronizing dial)

As above, but with international shutter speeds $\frac{1}{25}$, $\frac{1}{50}$ to $\frac{1}{1000}$ sec. and time exposure.

Serial n° from 574 401.

Available from 1952.

LEICA III c

As model II c, but with extended range of shutter speeds from 1 to $\frac{1}{1000}$ sec. and time exposure.

Serial n° from 360 000.

Available from 1940.



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 n° from 525 000.

Available from 1950.

LEICA III f

(red synchronizing dial, without self-timer)

As above, but international shutter speeds.

Serial n° from 615 000.

Available from 1952.



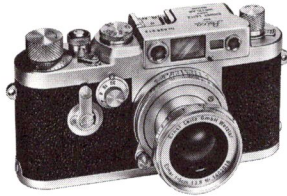
LEICA III f

(with self-timer)

As model III f with red synchronizing dial, but with self-timer of approximately 12 seconds delay.

Serial n° from 685 000.

Available from 1954.



LEICA III g

The 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 geometric progression.
3. Fully automatic synchronization (without contact numbers).
4. Film indicator in the back of the camera body.

Serial n° from 825 001.

Available from 1957.



LEICA I g

basically the same design as that of the LEICA III g.

Has no rangefinder and self-timer.

Serial n° from 887 001.

Available from 1957.



LEICA M3

Bright-line measuring viewfinder with automatic parallax compensation, automatically superimposed image frames for 50, 90 and 135 mm focal length (35 mm frame obtained by use of 35 mm lens with finder attachment).

Bayonet mount for rapid lens change. Shutter speed knob engages at each setting from 1 to $\frac{1}{1000}$ sec. and B.

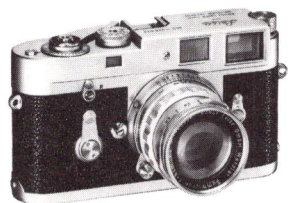
Attachable exposure meter with direct shutter coupling.

Automatic frame counter under magnifier. Hinged back.

From 1956 with field-of-view selector.

Serial n° from 700 001.

Available from 1954.



LEICA M2

As LEICA M3, with the following differences:

Automatically superimposed image frames for 35, 50 and 90 mm focal lengths.

Film counter must be returned to 0 by hand.

From 1959 with self-timer.

Serial n° from 926 001.

Available from 1958.



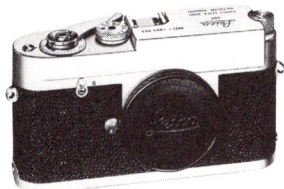
LEICA M1

Without rangefinder. Fields of view for 35 and 50 mm lenses are shown parallax-free and permanently superimposed into bright-line finder.

Otherwise as M2.

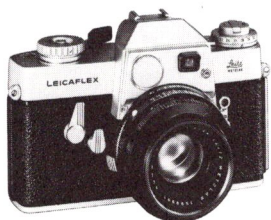
Serial n° from 950 001.

Available from 1959.



LEICA MD

As LEICA M 1, but without viewfinder, equipped for the use of the marking device.
Serial n° from 1 102 501.
Available from 1965.



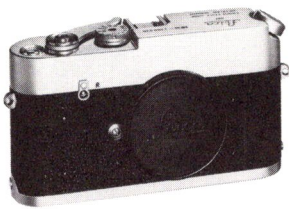
LEICAFLEX

Single-lens-reflex camera, focusing screen with micro-prism measuring field, built-in CdS exposure meter, lens bayonet mount, focal plane shutter 1 to $\frac{1}{2000}$ sec. and B, electronic flash $\frac{1}{100}$ sec., automatic frame counter under magnifier.
Serial n° from 1080 114.
Available from 1965.



LEICA M 4

Bright-line measuring viewfinder with automatic parallax compensation.
Automatically superimposed image frames for 35, 50, 90 and 135 mm focal length.
Bayonet mount for rapid lens change. Shutter speed knob from 1 to $\frac{1}{1000}$ sec. and B.
Attachable exposure meter coupled directly with the shutter knob.
Rapid film loading system for all standard 35 mm films and LEICA cassettes.
Automatic film counter under magnifier. Hinged back.
Serial n° from 1 175 001.
Available from 1967.



LEICA MDa

as LEICA M4, but without viewfinder. Designed for the use of the marking device.
Serial n° from 1 159 001.
Available from 1967.



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 $\frac{1}{2000}$ sec. and B.
Electronic flash up to $\frac{1}{100}$ sec.
Automatic frame counter. Rapid film change.
Serial n° from 1 173 005.
Available from 1968.



LEICA M5

as LEICA M4, but with built-in CdS exposure meter for selective light metering through the lens. Focal-plane shutter $\frac{1}{2}$ to $\frac{1}{1000}$ sec. and B.
Exposure measurement up to 30 sec. 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 the detachable baseplate.
Serial n° from 1 287 001.
Available from 1971.



LEICA CL

Compact measuring-viewfinder camera. Brightline measuring viewfinder with automatic parallax compensation. Automatically superimposed image frames for 40 and 50 as well as 90 mm focal length. Quick-changing lens bayonet as in LEICA-M models. Built-in CdS exposure meter for selective light metering through the lens. Vertically traveling focal-plane shutter from 1 to $\frac{1}{1000}$ sec. 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 n° from 1300 001.

Available from 1973.



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 n° from 1385 001.

Available from 1974.



LEICA R3

Single-lens reflex camera with electronically-controlled metal-blade focal-plane shutter. Alternative averaging 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-grain micro-prisms for sharpness assessment throughout the viewfinder field. Central micro-prisms ring with additional split-image rangefinder and film wind control. Film cartridge window, rapid film change.

Serial n° from 1 446 001.

Available from 1976.



LEICA M4-2

As LEICA M4, but with connection for motor winder M4-2. Additional accessory-shoe contact for electronic flash unit. Without self-timer.

Serial n° from 1 468 001.

Available from 1977.



LEICA MD-2

As LEICA M4-2 but without viewfinder. Suitable for the use of recording strips.

Serial n° from 1 468 723.

Available from 1977.



LEICA R3-MOT

As LEICA R3, but with connection for motor winder R3. Display of the selective or averaging measuring mode in the viewfinder above the shutter speed scale.

From serial n° 1492251.

Available from 1978.



LEICA R4

S.I.r. camera with electronically-controlled metal-blade focal-plane shutter. Two exposure measuring methods (Leitz selective measurement and Leitz largefield averaging measurement) coupled with the following operating modes: aperture priority, shutter speed priority, automatic mode and manual setting. In addition, automatic switchover to „X“ with system-compatible electronic flash units. Electronically-controlled shutter speeds from $\frac{1}{1000}$ to about 8 sec. X = $\frac{1}{100}$ sec. for electronic-flash synchronisation. Interchangeable focusing screens. Detachable camera back. Automatic frame counter and film transport check. Film cartridge window. Rapid film change. Rapid lens bayonet changer. Was initially supplied under the name "LEICA R4-MOT ELECTRONIC".

From serial n° 1533351.

Supplied from 1981.



LEICA M 4-P

As LEICA M 4-2, but with automatically superimposed field of view frames for six focal lengths: 28, 35, 50, 75, 90 and 135 mm lens.

From serial n° 1532377.

Supplied from 1980.



LEICA R4s

As LEICA R4, but with shutter speed priority and manual operating modes combined with the two exposure measuring methods (Leitz selective measurement and Leitz largefield averaging measurement).

From serial n° 1 632 551.

Available from 1983.



LEICA M6

As LEICA M4-P, but with selective exposure measurement through the lens (TTL). Exposure meter display as light balance in the viewfinder.

From serial n° 1 657 251.

Available from 1984.



LEICA R4s MOD. 2

As LEICA R4s, but with override for single-hand operation and optimised mode selection switch.

From serial n° 1 655 485.

Available from 1986.



LEICA R5

Single-lens reflex camera with electronically controlled metal-blade focal-plane shutter. Two exposure measuring methods (selective and averaging) combined with aperture-priority, shutter-priority, variable automatic program and manual modes. TTL flash exposure measurement and automatic switching to "X" when using system-compatible flash units. Electronically-controlled shutter speeds from $\frac{1}{2000}$ sec. to 15 sec. "X" = $\frac{1}{100}$ sec. for electronic flash synchronisation. Interchangeable focusing screens. Removable camera back and connection for cable-free Data Back. Automatic-frame counter. Film cartridge window.

From serial n° 1 696 451.

Available from 1987.



LEICA R6

Compact single-lens reflex camera with mechanically controlled metal-blade focal-plane shutter. Through-the-lens exposure metering. Instant changeover between selective and integral wide-field exposure-meter mode. Manual shutter and aperture control. Shutter range $\frac{1}{1000}$ s to 1 s, X, B. TTL flash-exposure control with dedicated flash unit and SCA 351 or SCA 551 adapter. Interchangeable focusing screens. Camera back interchangeable with cable-free data back. Automatic exposure counter. Film-cartridge window.

From serial n° 1 728 451.

Available from 1988.

Contents

Accessories for items no longer in the current product range

| | |
|---|---------|
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| Accessories for LEICAFLEX SL / SL 2 models | 12 - 7 |
| Accessories for earlier R lenses..... | 12 - 9 |
| Accessories for earlier camera bodies and lenses | 12 - 14 |
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| Accessories for FOCOMAT I c | 12 - 17 |
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| Accessories for PRADOVIT C / CA 1500/2500/CA 2502 | 12 - 19 |
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| Accessories for TRINOVID binoculars | 12 - 21 |

Accessories for LEICA R 4 models

LEICA R lenses

see page 2 - 1 onwards.

DB 2 LEICA R Data back

The DB 2 LEICA R is a camera back for printing data onto the exposure.

Detailed description on page 1 - 29.

For LEICA R 4 models with cable for connection to the flash contact.

DB LEICA R Data Back for LEICA R 4 models

Code No.

14 230 _____

Note: When using this camera back on LEICA R models with motor winder or drive the shutter speeds are as follows:

with motor winder: $\frac{1}{125}$ sec. and longer,

with motor drive: $\frac{1}{30}$ sec. and longer.

Shorter times lead to blurred exposures.

Angle viewfinder R

with 1 x and 2 x magnification for viewing from above, or for inconspicuous photography "round the corner" or over the heads of a crowd.

90° angle viewfinder with laterally and vertically correct image, focusing eyelens switch, for 1 x or 2 x magnification

14 300 _____

Flash socket over

for LEICA R 4 models

14 314 _____

Near-focusing devices

see page 3 - 1 onwards.

All other accessories

see page 1 - 6.

Accessories for LEICA R 3 models

LEICA R lenses

see from page 2 - 1.

Tripod holder R 3

for the use of the LEICA R 3-MOT combination of long focal length on a camera tripod. Sturdy design with two conveniently located threaded fixtures for the tripod threads of the motor-winder.

Code No.

Tripod holder with A ¼ DIN 4503 (¼ in) thread for camera tripod **14 276** _____

Holder for the MW-R housing for ordinary or rechargeable batteries

Socket marked "+" and "-" for the battery changer, 50 mA, for instance VARTA AG, UNI 1 charger, for recharging the six nickel cadmium batteries, for instance VARTA AG, 501 RS in the MR-R battery housing.

Holder for the MW-R housing for ordinary and rechargeable batteries **14 279** _____

Adapter for external supply MW-R

for connection to external power sources; with 1 m appliance cable and screw plug¹⁾. (The adapter for external supply MW-R is pushed into the Winder in place of the battery housing).

Possibilities of connection:

Battery housing (with the holder 14 279), if at low temperatures batteries have to be kept at body heat and therefore housed externally.

Mains units up to 8.5 v d. c.

Adapter for external supply MW-R **14 278** _____

Extension cable 5 m for external supply MW-R **14 293** _____

Housing for ordinary or rechargeable batteries MW-R

for MOTOR-WINDER R 3, as replacement.

During heavy-duty work (continuous use, low temperatures, expeditions) a second housing containing fresh ordinary batteries or recharged batteries, offers additional reliability. It is exchanged within seconds with a single action.

Housing for ordinary or rechargeable batteries MW-R **14 280** _____

¹⁾ The following are suitable: Coupling socket 302-013, 154-011, or 2-pin socket 042-813, 155-008 for building-in, available from Leica Service Centre.

Electronic Control Unit RC LEICA R

Electronic control unit for remote release.
Built-in pulse generator for automatic releases.
Seven integrated circuits in C-MOS technology.
Digital display of the exposure through feedback from the camera.
Appliance cable, length 2 m.
Exclusively for the LEICA R with motorised film transport.
Detailed description page 1 - 35.

Code No.
14 277 _____

Remote-Control LEICA R (RC LEICA R)

Electric Cable Release R

for remote release, with 5 m cable and screw plug. In conjunction with 25 m extension cable (14 274) for electric remote release up to 100 m.

Electric cable release **14 238** _____

25 m extension cable

(for electric remote release)

with screw plug.

Extension cable **14 274** _____

Reporter's bag

External dimensions: about 35 x 15 x 32 cm
Nappa leather

without partitions
with two additional front pockets **14 830** _____

Coupling Ring, as replacement for all combination bags **14 836** _____

Angle viewfinder

with 1x and 2x magnification, for candid photography "round the corner" or above the heads of a crowd.

for LEICA R3 models
Angle viewfinder 90° producing a right-way-round, upright image, with focusing eyelens, switch for 1x and 2x magnification **14 300** _____

Correction lenses R

with adapter, lock in position *)
for LEICA R3 models
(Spherical)

| | Code No. |
|-------------|--------------|
| + 0.5 | 14 330 _____ |
| + 1.0 | 14 331 _____ |
| + 1.5 | 14 332 _____ |
| + 2.0 | 14 333 _____ |
| + 3.0 | 14 334 _____ |
| - 0.5 | 14 335 _____ |
| - 1.0 | 14 336 _____ |
| - 1.5 | 14 337 _____ |
| - 2.0 | 14 338 _____ |
| - 3.0 | 14 339 _____ |

Attachment with eyecup 14 215 possible.

Eyecup R, locks in position *)

for LEICA R3 models

Eyecup
can also be used in conjunction with correction lenses **14 215** _____

Replacement parts for cameras

Camera body cover, R-bayonet for all R cameras **14 103** _____

Carrying strap with non-slip pad **14 253** _____

Near-focusing devices

see page 3 - 1.

Recommended accessories

see page 1 - 10.

Adapter

Adapter for the use of VISOFLEX 2 / 3 lenses on:
all LEICAFLEX and LEICA R models (at working aperture) **14 167** _____

Modification of LEICAFLEX lenses for use on LEICA R models

Existing LEICAFLEX lenses can be fitted with a cam for the full utilisation of the
LEICA R exposure facilities.

Modified lenses continue to be fully functional in all LEICAFLEX models.

Cost and time for conversion on request from the National Leica Agency or from
Leica Technical Service

*) The Leica Service Centre can fit a catch for locking the eyecup in position on the eyepiece mount of any
LEICA R3 camera, but modification of the eyepiece mount is not essential for the use of correction lenses
and eyecup R.

Accessories for LEICAFLEX SL / SL 2 models

LEICA R lenses

see page 2 - 1.

Correction lenses

with adapter¹⁾

for LEICAFLEX SL 2 models

(Spherical)

Code No.

| | |
|-------------|--------------|
| + 0.5 | 14 330 _____ |
| + 1.0 | 14 331 _____ |
| + 1.5 | 14 332 _____ |
| + 2.0 | 14 333 _____ |
| + 3.0 | 14 334 _____ |
| - 0.5 | 14 335 _____ |
| - 1.0 | 14 336 _____ |
| - 1.5 | 14 337 _____ |
| - 2.0 | 14 338 _____ |
| - 3.0 | 14 339 _____ |

Attachment with eyecup 14 215 possible

Eyecup R, locks in position²⁾

for LEICAFLEX SL 2 models

Eyecup 14 215 _____
can be used in conjunction with correction lenses.

Angle viewfinder

with 1x and 2x magnification for candid photography "round the corner" or above the heads of a crowd.

for LEICAFLEX SL- / SL 2 models

Angle viewfinder 90°, producing right-way-round, upright image, with focusing eyelens, switch for 1x and 2x magnification 14 300 _____

¹⁾ The Leica Service Center can supply a mount, code 042-655.815-006, for using a correction lens on any LEICAFLEX/SL model. Any optician can make such a lens and fit it in the mount. Eyecup 008-027.200-060 is also available from the Leica Service Centre, for fitting to the correction-lens mount.

²⁾ The Leica Service Center can fit a catch for locking the eyecup in position on the eyepiece mount of any LEICAFLEX SL 2 camera, but modification of the eyepiece mount is not essential for the use of correction lenses and eyecup R.

Spare parts for cameras

| | Code No. |
|--|--------------|
| Camera body cover, R-bajonet for all cameras | 14 103 _____ |
| Carrying strap with non-slip pad | 14 253 _____ |
| Twin flash-socket cover | 15 526 _____ |

Near-focusing devices

see page 3 - 1.

Recommended accessories

see page 1 - 10.

Near-focusing adapters

for the 100 mm MACRO-ELMAR-R f/4

Near-focusing ring *)

14 262 _____

Cover for 1:1 adapter and near-focusing ring:

Rear cover

14 162 _____

Adapter

Adapter for the use of VISOFLEX 2/3 lenses on:

LEICAFLEX SL/SL2, LEICA R

(at working aperture)

14 167 _____

*) The 1:1-Adapter or the near-focusing ring can be attached and locked on only when the lens diaphragm is closed. This setting is indicated by an additional mark. A block prevents wrong attachment.

Accessories for earlier LEICA R lenses

ELPRO near-focusing attachments for earlier LEICA R lenses

| Lens | ELPRO | Distance scale at: | Distance in cm | | Object- field in mm | Repro- duction scale |
|---|---------------------------|-------------------------------|------------------|---------------------------|---------------------------|----------------------------|
| | Code No. | | Object - film | Object - front lens | | |
| SUMMICRON-R f/2.50 mm (M 44 x 0.75) 11 228 | V1 a 16 531 | ∞ 0.5 | 50 31 | 41 21 | 184 x 276 91 x 137 | 1: 7.7 1: 3.8 |
| | 2 ¹⁾ 16 542 | ∞ 0.5 | 30 24 | 21 14 | 94 x 141 62 x 93 | 1: 3.9 1: 2.6 |
| ELMARIT-R f/2.8/90 mm up to No. 2 809 000 (M 54 x 0.75) 11 239 | 3 ²⁾ 16 543 | ∞ 0.7 | 74 44 | 61 30 | 161 x 241 72 x 108 | 1: 6.7 1: 3.0 |
| | 3 ²⁾ 16 543 | ∞ 0.7 | 74 44 | 61 30 | 161 x 241 72 x 108 | 1: 6.7 1: 3.0 |
| ELMARIT-R f/2.8/135 mm up to No. 2 772 618 (M 54 x 0.75) 11 211 | 3 ²⁾ 16 543 | ∞ 1.5 | 76 58 | 61 42 | 107 x 160 66 x 99 | 1: 4.5 1: 2.8 |
| | 4 ²⁾ 16 544 | ∞ 1.5 | 150 84 | 135 68 | 237 x 355 106 x 159 | 1: 9.9 1: 4.4 |
| VARIO-ELMAR-R f/4.5/80-200 mm (M 55 x 0.75) 11 224 | 3 16 543 | 80 mm/ ∞ 200 mm/1.8 | 82 66 | 61 45 | 177 x 266 50 x 75 | 1: 7.4 1: 2.1 |
| | 4 16 544 | 80 mm/ ∞ 200 mm/1.8 | 156 96 | 135 74 | 392 x 588 83 x 125 | 1: 16.3 1: 3.5 |
| VARIO-ELMAR-R f/4.5/75-200 mm (E 55) | 3 16 543 | 75 mm/ ∞ 200 mm/1.2 | 82 60 | 61 38 | 187 x 281 41 x 62 | 1: 7.8 1: 1.7 |
| | 4 16 544 | 75 mm/ ∞ 200 mm/1.2 | 156 80 | 135 58 | 414 x 621 62 x 93 | 1: 17.3 1: 2.6 |

All values rounded off.

Code No.

Leather case for one near-focusing attachment.

14 553

¹⁾ = Lens hood cannot be attached.

²⁾ = ELPRO 3 and ELPRO 4 can be used only after the lenses have been modified for the filter thread M 55 x 0.75.

Modification by Leica Technical Service Centre.

Series 7 filters continue to be suitable for use with the aid of the Adapter No. 14 225, available as an accessory.

| R-lens: | Internal lens thread | Diameter in mm | Lens hood | Lens cap | Rear cover | Filter-size ²⁾ | Adapter for Series filters | ELPRO ³⁾ near focusing attachm. |
|--|----------------------|----------------|----------------------|----------|------------|---------------------------|----------------------------|--|
| SUPER-ANGULON-R 3.4/21 11 803 | M 67 x 0.75 | 70 | 4) | 14 144 | 4) | Series 8 | Lens hood | — |
| SUMMICRON-R 2/35 11 227 up to No. 2 791 416 | M 48 x 0.75 | 51 | 12 509 ¹⁾ | 14 172 | 14 162 | Series 7 | Lens hood | — |
| ELMARIT-R 2.8/35 11 101 up to No. 2 517 850 up to No. 2 928 900 | M 44 x 0.75 | 47 | 4) | — | 14 162 | Series 6 | 14 160 | — |
| | M 48 x 0.75 | 51 | 12 509 | 14 172 | 14 162 | Series 7 | Lens hood | — |
| SUMMILUX-R 1.4/50 11 875 up to No. 2 806 500 | M 48 x 0.75 | 51 | 4) | 14 172 | 14 162 | Series 7 | Lens hood | — |
| SUMMICRON-R 2/50 11 228 up to No. 2 777 650 | M 44 x 0.75 | 47 | 4) | — | 14 162 | Series 6 | 14 160 | 16 531 16 542 |
| MACRO-ELMARIT-R 2.8/60 11 203 up to No. 3 013 650 | M 60 x 0.75 | 63.7 | 12 514 | 14 290 | 14 162 | Series 8 | Lens hood | — |
| SUMMICRON-R 2/90 11 219 up to No. 2 770 950 up to No. 3 381 676 | M 54 x 0.75 | 70 | built-in | 14 144 | 14 162 | Series 7 | 14 161 | 3) |
| | M 55 x 0.75 | 70 | built-in | 14 289 | 14 162 | E 55 | 14 225 | 3) |
| ELMARIT-R 2.8/90 11 239 up to No. 2 809 000 up to No. 3 260 100 | M 54 x 0.75 | 65 | built-in | 14 089 | 14 162 | Series 7 | 14 161 | 3) |
| | M 55 x 0.75 | 65 | built-in | 14 289 | 14 162 | Series 7 | 14 225 | 16 543 |
| MACRO-ELMAR 4/100 11 230 up to No. 2 933 350 | M 54 x 0.75 | 65 | built-in | 14 089 | 14 162 | Series 7 | 14 161 | — |
| ELMARIT-R 2.8/135 11 211 up to No. 2 772 618 | M 54 x 0.75 | 65 | built-in | 14 089 | 14 162 | Series 7 | 14 161 | 3) |
| ELMARIT-R 2.8/180 11 919 up to No. 2 939 700 | M 72 x 0.75 | 78 | built-in | 14 152 | 14 162 | Series 8 | 4) | — |
| APO-TELYT-R 3.4/180 11 240 up to No. 2 947 023 | M 59 x 0.75 | 65 | built-in | 14 089 | 14 162 | Series 7.5 | 4) | — |
| TELYT-R 4/250 11 920 up to No. 3 050 600 | M 72 x 0.75 | 78 | built-in | 14 152 | 14 162 | Series 8 | 4) | — |
| TELYT-lens unit 5.6/400 (TELEVIT-R) | — | 98 | built-in | 14 295 | 4) | Series 7 | Filter-slot | — |
| TELYT-lens unit 5.6/560 (TELEVIT-R) | — | 120 | built-in | 4) | 4) | Series 7 | Filter-slot | — |
| VARIO-ELMAR-R 3.5/35-70 to No. 3 393 300 | M 60 x 0.75 | 69 | built-in | 14 290 | 14 162 | E 60 | 14 263 for Series 7.5 | — |
| VARIO-ELMAR-R 4.5/80-200 11 224 | M 55 x 0.75 | 72 | built-in | 14 261 | 14 162 | E 55 | 14 225 for Series 7 | 16 543 16 544 |
| VARIO-ELMAR-R 4.5/75-200 11 226 | M 55 x 0.75 | 70 | built-in | 14 289 | 14 162 | E 55 | 14 225 for Series 7 | 16 543 16 544 |

1) = Leather case for same: 14 621

2) = Filter see page 2-37

3) = see page 11-9

4) = Replacement may be obtainable from the Leica Service Centre: please enquire.

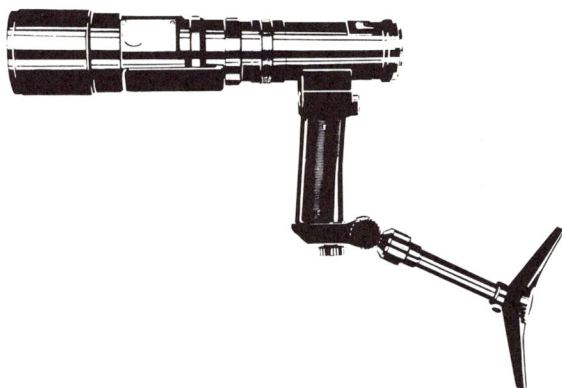
Code No.

Filter E 54 Pol.

13 359 _____

400 mm TELYT-V f/6.8

for VISOFLEX 3



Follow-focus lens of long focal length
 Angle of view: 6°
 Number of elements: 2 (1 component)
 Filter size: Series 7 (in filter slot)
 Internal thread: M 72 x 0.75
 Clickstops (between f/8 and f/16, also half values)
 Smallest aperture: f/32
 Focusing range: ∞ to 3.60 m (12 ft)
 From Serial No. 3 066 826 can be focused beyond ∞
 Follow-focus device (adjustable front part of lens with parallel guide, push-button to release the focusing mechanism)
 Smallest object field: 158 x 236 mm (6.2 x 9.3 in) (about 1: 6.5)

Built-on telescopic lens hood
 Rotatable swivelling device for upright and horizontal format
 Lens can be dismantled for convenient transport
 LEICA-M rapid objective changer
 Slot with cover for Series 7 filters
 Black finish
 Universal handgrip with shoulder stock detachable, can be used as mini camera support and table tripod
 Tripod thread A 1/4 and A 3/8 DIN 4503 (1/4 in and 3/8 in)
 Leather pouch
 Lens cap diameter: 78 mm
 Length from bayonet flange: 365 mm
 Diameter: 78 mm
 Weight: 1.830 kg

Code No.

400 mm TELYT-V f/6.8, consisting of:

| | |
|--|--------------|
| 400 mm TELYT f/6.8 unit | 11 903 _____ |
| Lens tube | 11 905 _____ |
| Universal handgrip with shoulder stock | 14 239 _____ |
| Leather pouch | 14 582 _____ |

400 mm TELYT-V f/6.8, complete,

| | |
|---|---------------------|
| with lens hood, lens cap and rear cover | 11 954 _____ |
|---|---------------------|

(Replacement lens cap, rear cover and accessories see page 12 - 15)

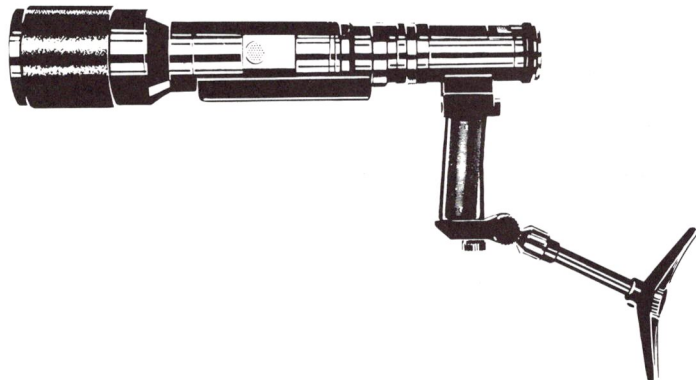
Recommended accessories:

| | |
|--|--------------|
| Extension tube (60 mm) for the 400 mm TELYT-V f/6.8 lens to extend the operation range (near focusing) | 14 182 _____ |
| with one intermediate tube: nearest focusing range 353 - 226 cm (11 ft 7 in - 7 ft 5 in) Smallest object field 9 x 12 cm (3.1 x 4.7 in) | |

| | |
|--|--------------|
| Carrying strap for heavy equipment | 14 130 _____ |
|--|--------------|

560 mm TELYT-V f/6.8

for VISOFLEX 3



Long-focal length follow-focus lens

Angle of view: 4.3°

Number of elements: 2 (1 component)

Filter size: Series 7 (in filter slot)

Clickstops (between f/8 and f/16 also half values)

Smallest aperture: f/32

Focusing range: ∞ - 6.40 m (21 ft)

From Serial No. 2976426 can be focused beyond ∞

Follow-focus device (adjustable front part of lens with parallel guide, push-button to release the focusing mechanism)

Smallest object field: 224 x 336 mm (8.8 x 13.2 in) (about 1:9)

Built-on telescopic lens hood

Rotable swivelling device for upright and horizontal format, with clickstops

Lens can be dismantled for easy transport

LEICA-M rapid bayonet changer

Black finish

Slot with cover for Series 7 filters

Tripod thread A ¼ and A ⅜

DIN 4503 (¼ and ⅜ in)

Universal handgrip with shoulder stock, detachable, can be used as mini tripod

Leather pouch

Lens cap diameter: 98 mm

Length from bayonet flange: 510 mm

Weight: 2.3 kg

Code No.

560 mm TELYT-V f/6.8, consisting of:

| | |
|--|--------------|
| 560 mm TELYT f/6.8 lens unit | 11 907 _____ |
| Lens tube | 11 905 _____ |
| Universal handgrip with shoulder stock | 14 239 _____ |
| Leather pouch | 14 581 _____ |

560 mm TELYT-V f/6.8, complete

with lens hood and lens cap and rear cover

11 854 _____

(Replacement lens cap and rear cover and accessories see page 12-15)

Recommended accessories:

Extension tube (60 mm) for the 560 mm TELYT-V f/6.8 lens to extend the operating range (near focusing)

14 182 _____

With one intermediate tube: nearest focusing range

641 - 396, (21 - 13 ft.)

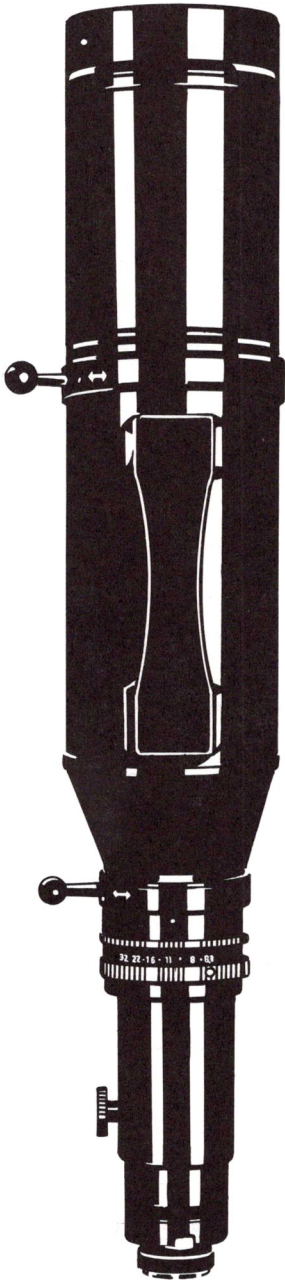
Smallest object field 11.2 x 16.8 cm

(4.4 x 6.6 in)

Carrying strap for heavy equipment

14 130 _____

800 mm TELYT-S f/6.3



Extreme telephoto lens with Leitz special glasses for optimum optical performance

Angle of view: 3°

Number of elements: 3 (1 component)

Filter size: Series 7 (in filter slot)

Clickstops (between f/6.3 and 22 also half values)

Preset diaphragm

Smallest aperture: f/32

Focusing range: ∞ to 12,50 m (41 ft)

Smallest object field: 320 x 480 mm (1 ft 0.6 in - 1 ft 7 in) (about 1 : 13)

Rapid focusing by means of an easy-grip rotary knob and parallel guide

Lens can be dismantled into 5 parts for transport in a special metal case assembly and dismantling by means of bayonet and marked locking rings with levers

Sturdy carrying handle for assembled lens

Lining-up device in the shape of a sports finder with rear and front sight and field-of-view orientating device for upright and horizontal format, protected against damage by integration with the carrying handle

Detachable and lockable lens hood

Slot with cover for Series 7 filters

Thread A ¼ and A ⅜, DIN 4503 (¼ and ⅜ in) for sturdy tripods

Support ring, rotatable with tripod thread A ¼ DIN 4503 (¼ in) for additional monopod

Black finish

LEICA R rapid bayonet changer

Rotatable swivelling device for upright and horizontal format, with clickstops

Lens cap diameter: 152 mm

Length from bayonet flange: 768 mm

Diameter: 152 mm

Weight: 6.860 kg

Code No.

800 mm TELYT-S f/6.3, complete, with special metal transport case..... on request _____

Accessories for earlier camera bodies and lenses

LEICA M lenses

see page 5 - 1.

LEICA WINDER M

see page 4 - 4.

Battery housing

for LEICA WINDER M4-2

Code No.

14 227 _____

Correction lenses M

for LEICA M models (spherical), rubber reinforced

| | |
|-------------|--------------|
| + 0.5 | 14 350 _____ |
| + 1.0 | 14 351 _____ |
| + 1.5 | 14 352 _____ |
| + 2.0 | 14 353 _____ |
| + 3.0 | 14 354 _____ |
| - 0.5 | 14 355 _____ |
| - 1.0 | 14 356 _____ |
| - 1.5 | 14 357 _____ |
| - 2.0 | 14 358 _____ |
| - 3.0 | 14 359 _____ |

For astigmatism we supply correction lens mounts through our Technical Service Department (Item No. 042-253-008). Making and mounting the lens by an ophthalmic optician.

Spare parts for cameras

Camera body cover M bayonet for all M cameras 14 195 _____

Camera body cover for cameras with screw thread 14 055 _____

Flash contact cover for M4, MD a, M4-2, MD-2, M5 15 526 _____

Recommended accessories

see page 4 - 7.

Brilliant Finder

see page 5 - 16.

Accessories for earlier LEICA M and CL lenses

| M-lens | Internal thread | Lens cap diameter in mm | Lens hood | Lens cap | Rear cover | Filter |
|---|-----------------|-------------------------|-----------|----------|------------|---------------------------------------|
| ELMARIT-M f/2.8/21 up to No. 3 363 299 | M 60 x 0.75 | 62 | 12 537 | 14 290 | 14 269 | E 60 |
| SUPER-ANGULON-M f/3.4/21 up to No. 2 993 700 | M 48 x 0.75 | 52.5 | 1) | 1) | — | Series 7 with lens hood or E 48 |
| ELMARIT-M f/2.8/28 up to No. 2 977 550 | M 48 x 0.75 | 52.5 | 1) | 1) | — | Series 7 with lens hood or E 48 |
| SUMMILUX-M f/1.4/35 up to No. 2 166 700 | M 41 x 0.5 | 46.5 | — | 1) | 14 269 | E 41 |
| SUMMICRON-M f/2/35 up to No. 2 307 450 up to No. 2 483 503 up to No. 2 974 250 | M 39 x 0.5 | 42 | 1) | 14 268 | 14 269 | E 39 |
| | — | 42 | 12 504 | 14 268 | 14 269 | Series 7 in lens hood |
| | M 39 x 0.5 | 42 | 12 504 | 14 268 | 14 269 | E 39 or Series 7 |
| SUMMARON-M f/2.8/35 | M 39 x 0.5 | 42 | 12 538 | 14 268 | 14 269 | E 39 |
| SUMMICRON-C f/2/40 | M 39 x 0.75 | 41.5 | 1) | 1) | 14 269 | Series 5.5 with lens hood |
| NOCTILUX-M f/1/50 up to No. 2 919 656 up to No. 3 220 708 | M 58 x 0.75 | 61 | 1) | 1) | 14 269 | E 58 |
| | M 60 x 0.75 | 62 | 12 539 | 14 290 | 14 269 | E 60 |
| NOCTILUX-M f/1.2/50 | — | 52.5 | 1) | 1) | 14 269 | Series 8 in lens hood |
| SUMMICRON-M f/2/50 up to No. 2 915 800 | M 39 x 0.5 | 42 | 12 538 | 14 268 | 14 269 | E 39 |
| ELMAR-M f/2.8/50 | M 39 x 0.5 | 42 | 12 538 | 14 268 | 14 269 | E 39 |
| SUMMILUX-M f/1.4/75 up to No. 3 223 300 | M 60 x 0.75 | 62 | 12 539 | 14 290 | 14 269 | E 60 |
| SUMMICRON-M f/2/90 up to No. 2 997 000 | M 48 x 0.75 | 63.7 | built-in | 1) | 14 269 | E 48 |
| SUMMICRON-M f/2/90 from No. 2 813 801 to No. 2 813 900 from No. 2 997 001 to No. 3 177 200 | M 49 x 0.75 | 63.7 | built-in | 1) | 14 269 | E 49 |
| ELMARIT-M f/2.8/90 | M 39 x 0.5 | 42 | 12 575 | 14 268 | 14 269 | E 39 |
| TELE-ELMARIT-M f/2.8/90 | M 39 x 0.5 | 42 | 11 250 | 14 268 | 14 269 | E 39 |
| ELMAR-C f/4/90 | M 39 x 0.75 | 42 | 1) | 1) | 14 269 | Series 5.5 with lens hood |
| ELMAR-M f/4/90 | M 39 x 0.5 | 42 | 12 575 | 14 268 | 14 269 | E 39 |

1) Replacement may be obtainable from the Leica Service Centre; please enquire.

Accessories for earlier LEICA M and CL lenses

| M-lens | Internal thread | Lens cap diameter in mm | Lens hood | Lens cap | Rear cover | Filter |
|---|-----------------|-------------------------|-----------|----------|------------|------------------------------|
| ELMARIT-M f/2.8/135 up to No. 2 788 926 | M 54 x 0.75 | 63.7 | built-in | 1) | 14 269 | Series 7 with Adapter 14 161 |
| ELMAR-M f/4/135 | M 39 x 0.5 | 42 | 12 575 | 14 268 | 14 269 | E 39 |
| HEKTOR-M f/4.5/135 | M 39 x 0.5 | 42 | 12 575 | 14 268 | 14 269 | E 39 |

Accessories for VISOFLEX lenses

| M-lens | Internal thread | Lens cap diameter | Lens hood | Lens cap | Rear cover | Filter size |
|---|-----------------|-------------------|-----------|-----------|------------|------------------------------|
| ELMAR-M f/3.5/65 up to No. 2 378 900 | M 41 x 0.5 | 56 | built-in | 14 153 | — | E 41 |
| from No. 2 378 901 | M 44 x 0.75 | 56 | built-in | 14 153 | 14 074 | Series 6 with Adapter 14 160 |
| TELYT-M f/4/200 | M 58 x 0.75 | 72 | built-in | 14 261 | 14 050 | E 58 |
| TELYT-M f/4.8/280 up to No. 2 340 952 | M 58 x 0.75 | 76 | built-in | 1) | 14 269 | E 58 |
| from No. 2 340 953 | M 66 x 0.75 | 76 | built-in | 14 079 | 14 269 | Series 8 with Adapter 14 169 |
| TELYT-M f/5.6/400 | — | 98 | built-in | 14 295 | 14 269 | Series 7 in filter slot |
| TELYT-M f/6.8/400 | M 72 x 0.75 | 78 | built-in | 14 152 1) | 14 269 | Series 7 in filter slot |
| TELYT-M f/5.6/560 | — | 120 | built-in | 1) | 14 269 | Series 7 in filter slot |
| TELYT-M f/6.8/560 | — | 98 | built-in | 14 295 2) | 14 269 | Series 7 in filter slot |
| TELYT-S f/6.3/800 | — | 152 | built-in | 1) | 14 269 | Series 7 in filter slot |

1) Replacement may be obtainable from the Leica Service Centre; please enquire.

Code No.

Rear covers for screw thread lenses 14 050 _____

Filters

| Filter | Screw-in filter | | | | | |
|-------------------|-----------------|--------|--------|--------|--------|--------|
| | E 39 | E 41 | E 43 | E 48 | E 49 | E 56 |
| UVa | 13 131 | — | 13 206 | 13 330 | 13 328 | 13 373 |
| Yellow | — | 13 160 | — | — | — | — |
| Yellowgreen | — | — | — | — | — | 13 391 |
| Orange | — | — | — | — | — | 13 312 |
| Polarizing filter | 13 352 A 42 | — | — | — | — | — |

| | Screw-in filters | | Series filters | | |
|-------------|------------------|--------|----------------|--------|--------|
| | E 58 | E 60 | 6 | 7 | 8 |
| UVa | 13 270 | 13 381 | 13 012 | 13 009 | 13 018 |
| Yellow | — | — | 13 013 | — | — |
| Yellowgreen | — | 13 392 | 13 014 | 13 007 | 13 021 |
| Orange | — | 13 383 | 13 011 | 13 008 | — |

Accessories for the REPROVIT® IIa

Accessories for LEICA MD-2

Recording device consisting of:

Special baseplate for the LEICA MD-2 (including 10 recording strips)

Packet of 100 recording strips

Code No.

14 142 _____

14 170 _____

Accessories for the FOCOMAT Ic

Film guides

also suitable for the VALOY® II, FOCOMAT Ia

8 x 11 mm

17 514 _____

Accessories for the PRADOVIT A

Projector lenses and accessories

see page 8 - 4.

Micro / macro attachments

| | Code No. |
|--|--------------|
| Microscope carrier | 32 823 _____ |
| Mirror housing with support rods | 32 824 _____ |
| Projection eyepiece 2x | 37 300 _____ |
| Macro attachment | 32 825 _____ |
| Interchangeable condenser | 37 200 _____ |
| Film guide | 37 868 _____ |

Accessories for the PRADOVIT-COLOR

Extension cable remote control, 5 m 37 931 _____

Projector lenses and lens sleeves

see page 8 - 4.

Micro / macro attachments

| | |
|--|--------------|
| Microscope carrier | 32 823 _____ |
| Mirror housing with support rods | 32 824 _____ |
| Projection eyepiece 2x | 37 300 _____ |
| Macro attachment | 32 825 _____ |
| Interchangeable condenser, 85 mm to 120 mm | 37 200 _____ |
| Film guide | 37 868 _____ |

The fitting of projector lenses of 42.5 mm dia. to older PRADOVIT projectors requires the sleeve 37 119 (exceptions: PRADOVIT I, f, n, n 12, n 24, to which they **cannot** be fitted).

Accessories for the PRADOVIT C / CA 1500 C / CA 2500, CA 2502

Hood and case

see page 8 - 4.

Projector lenses and accessories

see page 8 - 4.

Micro / makro attachments

| | Code No. |
|--|--------------|
| Microscope carrier | 32 823 _____ |
| Mirror housing with support rods | 32 824 _____ |
| Projection eyepiece 2x | 37 300 _____ |
| Macro attachment | 32 825 _____ |
| Interchangeable condenser, 85 mm to 120 mm | 37 200 _____ |
| Film guide | 37 868 _____ |

Replacement parts

| | |
|-------------------|--------------|
| Mains cable | 37 644 _____ |
|-------------------|--------------|

Accessories for the PRADOVIT R / RA 152

Extension cable for remote control, 5 m. Code No. 37 931 _____

Projector lenses and accessories

see page 9 - 11.

Micro / macro attachments

Microscope carrier 32 823 _____
Mirror housing with support rods 32 824 _____
Projection eyepiece 2x 37 300 _____
Macro attachment 32 825 _____
Interchangeable condenser, 85 mm to 120 mm 37 200 _____
Film guide 37 868 _____

Magazines

see page 9 - 12.

Accessories for the DIASRIPTOR OP 2500

Foil roller device consisting of:
25 sheets of foil. 33 464 _____

Accessories for TRINOVID binoculars

| | Code No. |
|--|--------------|
| Spare cuff-type rubber eyecups, black, for TRINOVID 8 x 20 C and 10 x 22 C. | 42 136 _____ |
| Spare cuff-type rubber eyecups, black, for all TRINOVID B and BA binoculars except 7 x 42. | 42 133 _____ |
| Spare cuff-type rubber eyecups, green, for all TRINOVID B and BA binoculars except 7 x 42. | 42 138 _____ |
| Spare cuff-type rubber eyecups, black, for TRINOVID 7 x 42 B and BA. | 42 141 _____ |
| Spare cuff-type rubber eyecups, green, for TRINOVID 7 x 42 BA. | 42 139 _____ |
| Rubber rain guard for TRINOVID B and BA black. | 42 101 _____ |
| Rubber rain guard for TRINOVID BA, green. | 42 137 _____ |
| Spare carrying strap, black, Perlon fabric, for TRINOVID B and BA binoculars. | 42 149 _____ |
| Non-slip pad for carrying strap, black, code 707 115 705 000, obtainable from Leica Service Centre or local Leica agency. | |
| Leather pouch, with carrying strap, box calf, for TRINOVID 7 x 42 B and BA, 8 x 40 B and BA. | 42 173 _____ |
| Leather pouch, with carrying strap, box calf for TRINOVID 8 x 32 B and BA, 10 x 40 B and BA, 7 x 35 B and BA. | 42 177 _____ |
| Nappa leather case, for TRINOVID 7 x 42 B and BA. | 42 189 _____ |
| Nappa leather case, for TRINOVID 8 x 32 B and BA. | 42 181 _____ |
| Nappa leather case, for TRINOVID 8 x 40 B and BA, 10 x 40 B and BA, 7 x 35 B and BA. | 42 179 _____ |

Leica



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