



Handbook of the Leica System
2000/2001



Handbook of the Leica System

(Edition 2000 / 2001)

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*The Leica system handbook
was printed on 100 %
chlorine-free bleached
paper (tcf).
This production process
conserves the natural
water supplies.*

Illustrations, descriptions, and
technical data are not binding and
may be changed without notice.

All specifications are also valid
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under the Leitz trademark.

Order No.
English 920 604

Printed in Germany X/00/AX/B.

LEICA R Models _____ **1**

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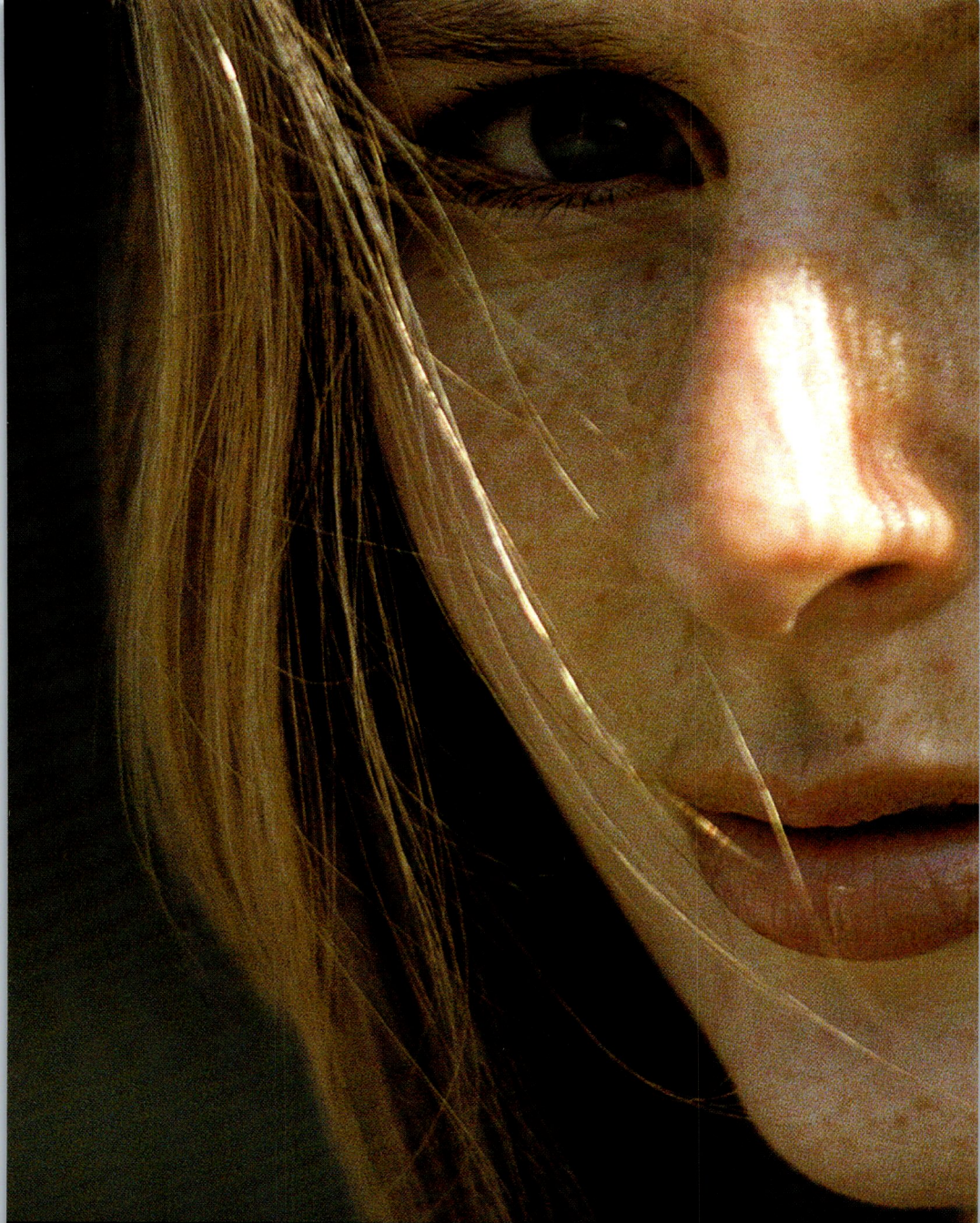
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M6 LEICA APO-SUMMICRON-M 1:2/90 ASPH f:2,0
Kodak-Ektachrome 100



LEICA R Models

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LEICA R 8

Micro-processor controlled, multiple automatic, single-lens 35 mm reflex camera



Exposure metering through the lens:

Three exposure metering methods to choose from

- selective metering
- large field integral metering
- multiple field metering

Multiple automatic

- aperture priority
- shutter speed priority
- variable automatic program mode

Manual shutter speed and aperture setting.

Metering flash before the exposure; TTL flash exposure metering with system conforming flash units (adapter SCA 3501); strobe flash operation; choice for flash synchronization on either the first or second shutter curtain.

High eyepoint viewfinder with diopter correction, automatic film threading, mirror pre-release.

Available as accessories:

Interchangeable focusing screens, motorized fast winders, angle viewfinder, large eyecup, additional eyepiece correction lenses.

Use of earlier LEICA R lenses

All LEICA R lenses fit onto the LEICA R8 without modification. Lenses for the LEICAFLEX models that are not fitted with the R control cam must not be attached to the LEICA R8 since they might damage the camera. They will be suitable for use on both the LEICAFLEX and the LEICA R models.

Detailed product description on page 1-25.

1) 6 Volt, 2 Lithium cells "CR 2"

LEICA R 8

black chrome finish
complete with camera cover, carrying strap, batteries¹⁾,

Order No. **10 081** _____

LEICA R 8

silver chrome finish
LEICA R8 complete with camera cover, carrying strap, batteries¹⁾,

Order No. **10 080** _____

LEICA R 6.2

*Compact,
35 mm single-lens
reflex camera
with mechanically
controlled shutter*



**Alternative dual exposure
metering through the lens:**

- selective metering
- full-field integral metering.

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 winders.

Detailed product description on page 1-29.

**Use of earlier
LEICA R lenses**

All LEICA R lenses of the range can be used on the LEICA R 6.2 without modification.

Lenses for the LEICAFLEX models that are not fitted with the R control cam must not be attached to the LEICA R 6.2 since they might damage the camera. They must be fitted with a control cam, with which they will be suitable for use on both the LEICAFLEX and the LEICA R models.

LEICA R 6.2

black chrome finish
complete with carrying strap, body cap, batteries¹⁾ and baseplate cover

Order No. **10 074** _____

LEICA R 6.2

silver chrome finish
complete with carrying strap, body cap, batteries¹⁾ and baseplate cover

Order No. **10 073** _____

¹⁾ 3 V (2 silver oxide button cells
1,5 V or 1 lithium cell 3 V,
Ø 11,6 mm)

Accessories

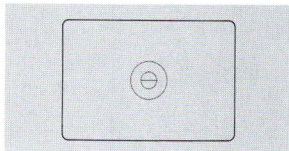
Interchangeable focusing screens

for LEICA R 8

Order No. **14 343** _____

for LEICA R 4-R 7, R-E

Order No. **14 303** _____



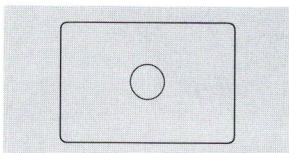
Universal screen
(replacement)
in container with dust
brush and tweezers

for LEICA R 8

Order No. **14 344** _____

for LEICA R 4-R 7, R-E

Order No. **14 304** _____



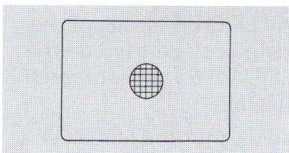
Uniform ground-glass screen
in container with dust
brush and tweezers

for LEICA R 8

Order No. **14 345** _____

for LEICA R 4-R 7, R-E

Order No. **14 305** _____



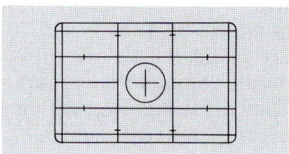
Microprism screen
in container with dust
brush and tweezers

for LEICA R 8

Order No. **14 346** _____

for LEICA R 4-R 7, R-E

Order No. **14 306** _____



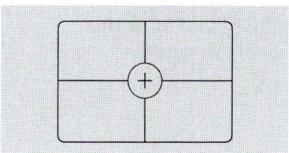
**Uniform ground-glass screen
with grid divisions and
TV marks**
in container with dust
brush and tweezers

for LEICA R 8

Order No. **14 347** _____

for LEICA R 4-R 7, R-E

Order No. **14 307** _____



**Clearglass screen
with crosslines**
in container with dust
brush and tweezers

Accessories

Standard eyecup R 8

(replacement), is also an adapter for correction lenses

Large eyecup R 8

is also an adapter for correction lenses

**Large eyecup R 8**

Order-No. 14 218 _____

Eyecup R,

can be locked in place¹⁾, can also be used with correction lenses

**Eyecup R
for LEICA R 3-R 7, R-E,
LEICAFLEX SL 2**

Order No. 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.

Can be locked in place, vertically and laterally correct image, adjustable eyepiece, switch for single/double magnification.

**Angle viewfinder R
for all LEICA R models,
LEICAFLEX SL 2**

Order No. 14 300 _____

¹⁾ The customer service department of Leica Camera AG can fit a locking catch on the eyepiece mount of any LEICA R 4 with a serial number below 1662952 and of LEICA R 4 s. R correction lenses and eyecups may be used without modification of the eyepiece mount.

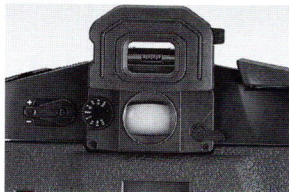
Accessories

Photography

1

Correction lenses R 8

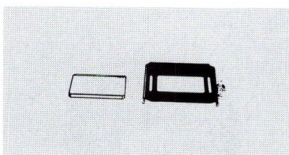
	Order-No.
+ 1,0	14 380 _____
+ 2,0	14 381 _____
+ 3,0	14 382 _____
- 1,0	14 383 _____
- 2,0	14 384 _____
- 3,0	14 385 _____



Correction lenses R 8 (spherical) standard (14 218) or large eyecup (14 217) serves as an adapter.

Correction lenses R for LEICA R 3-R 7, R-E, LEICAFLEX SL 2

	Order 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 _____



Correction lenses R (spherical) with adapter, can be locked in place¹⁾. Attachment also possible with eyecup 14 215

¹⁾ The customer service department of Leica Camera AG can fit a locking catch on the eyepiece mount of any LEICA R 4 with a serial number below 1662952 and of LEICA R 4 s. R correction lenses and eyecups may be used without modification of the eyepiece mount.

Camera body cover R

Order No. 14 103 _____

Camera body cover R
R bayonet for all R cameras (replacement)

Flash socket cover

Order No. 14 348 _____

for LEICA R 8 (replacement)

Order No. 14 315 _____

for LEICA R 4-R 7, R-E (replacement)

Accessories

DB 2 LEICA R Data Back



DB 2 LEICA R Data Back

for LEICA R 5-R 7, R-E¹⁾
The DB 2 LEICA R is a
camera back for printing
data onto the film.

Replaces the back of the
camera.

Detailed description
page 1-33.

Order No. **14 216** _____

¹⁾ LEICA R 4 models:
see page 11-3

Accessories

1

Photography

Ever Ready Case for LEICA R 8

Ever Ready Case R 8

for LEICA R 8

Order No. **14 519** _____

Ever Ready Case R 8

like 14519, but also for
VARIO 28-70 mm and
VARIO 35-70 mm with
screw-on hoods
(in working position)

Order No. **14 528** _____



Ever Ready Case R 8

black nappa leather case
for LEICA R 8 and one of
the following R lenses:
f/2.8/19 mm, f/2.8/24 mm,
f/2.8/28 mm, f/1.4/35 mm,
f/2/32 mm, f/1.4/50 mm,
f/2/50 mm, f/2.8/60 mm,
f/1.4/80 mm, f/2/90 mm,
f/2.8/90 mm,
VARIO 28-70 mm and
VARIO 35-70 mm.

Ever Ready Case for LEICA R 8 with Motor-Winder R 8

Ever Ready Case R 8

for LEICA R 8 with
MOTOR-WINDER R 8

Order No. **14 527** _____



Ever Ready Case R 8 with MOTOR-WINDER R 8

black nappa leather case
for LEICA R 8 with attached
MOTOR-WINDER R 8 and
lens (see listing above,
ever ready case no. 14 519)

¹⁾ without lens hood/without
screw-in filter

Accessories

Ever Ready Case

black nappa leather case
with standard front for the
following lenses:

f/4/21 mm¹⁾, f/2.8/24 mm¹⁾,
f/2.8/28 mm¹⁾, f/2.8/35 mm,
f/4/35 mm¹⁾, f/1.4/50 mm¹⁾,
f/2/50 mm

**Ever Ready Cases
for LEICA R 4-R 7****Ever Ready Case**

with standard front
for LEICA R 4-R 6.2, R-E

Order No. **14 510** _____

Ever Ready Case R

black leather with large front
for one of the following
lenses:

f/2.8/16 mm, f/2.8/19 mm¹⁾,
f/4/21 mm¹⁾, f/2.8/24 mm¹⁾,
f/2.8/28 mm, f/1.4/35 mm,
f/2/35 mm, f/2.8/35 mm,
f/4/35 mm, f/1.4/50 mm,
f/2/50 mm, f/2.8/60 mm,
f/1.4/80 mm, f/2/90 mm,
f/2.8/90 mm and
f/3.5/35-70 mm

**Ever Ready Case**

with large front
for LEICA R 4-R 6.2, R-E

Order No. **14 515** _____

Ever Ready Case R

black leather for LEICA
R 4-R 7 with VARIO-
ELMAR-R f/3.5-4.5/28-70
mm

**Ever Ready Case**

for LEICA R 4-R 7

Order No. **14 520** _____

¹⁾ without lens hood/without
screw-in filter

Accessories

Small combination bag R (compact version)

Small combination bag R

black leather

Order No. **14 843** _____



Small combination bag R for LEICA R 4-R 7, R-E (without Motor-Winder / Motor-Drive) holds: 1 LEICA R camera with mounted lens and up to 3 additional lenses.

Bag (approx. 25 x 14 x 19 cm or 9.8 x 5.5 x 7.5 in) with

- adjustable carrying strap with anti-slip pad
- front pocket for accessories

Large combination bag R (standard version)

Large combination bag R

black leather

Order No. **14 844** _____



Large combination bag R for LEICA R 4-R 7, R-E with Motor-Winder / Motor-Drive, holds: 1 LEICA R model with Motor-Winder / Motor-Drive, handgrip and lens attached as well as up to 3 other lenses.

Bag (external dimensions approx. 31 x 18 x 23 cm or 12.2 x 7 x 9 in) with

- adjustable carrying strap with anti-slip pad
- front pocket for accessories

Accessories

**LEICA combination bags
"Outdoor"**

Weatherproof, durable camera bags of Cordura with flexible inside dividers for universal use. With many inner and zippered outer pockets for quick access to every accessory. Provided with user-friendly, durable interior compartments protecting your valuable equipment from shocks. Soft padding ensuring carrying comfort. Carrying strap with protec-



tion against slipping made of suede.

**LEICA combination
bags "Outdoor"**

Detailed product description on page 1-49.

**Large combination bag
"Outdoor", black**

Order No. **14 852** _____

**Small combination bag
"Outdoor", black**

Order No. **14 853** _____

LEICA SF 20**System flash unit**

Compact electron flash unit in elegant design. Illuminated display. Performance guide number 20. Exposure can be adjusted in +/- 3 aperture steps. Lithium battery for quick flash recharging. TTL flash exposure metering with the LEICA M 6 TTL and the LEICA R 8.



Detailed product description on page 4-13.

LEICA SF 20**System flash unit****LEICA SF 20**

In a velour bag with diffuser screen (24-28 mm focal length)

Order No. **14 474** _____

**Diffuser screen
(replacement)**

Order No. **14 417** _____

Accessories

1

Photography

Ball-and-socket head



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

Order No. **14 110** _____

Tabletop tripod



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

Order No. **14 100** _____

Cable releases

Cable release
length 25 cm,
with clamping screw

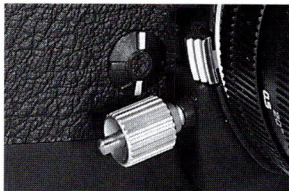
Order No. **14 067** _____

Cable release
length 50 cm,
with clamping screw

Order No. **14 076** _____

Cable releases
for all camera models with
conical thread

Mirror pre-release R for LEICA R 6, R 6.2, R 7



Mirror pre-release R
for separate attachment
below the lens bayonet lock

Order No. **14 087** _____

Carrying strap

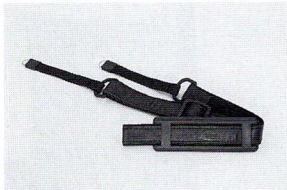
Order No. **14 312** _____

Carrying strap
with anti-slip pad
(replacement)

Accessories

Wide carrying strap

with antislip pad, for heavy equipment. Width: 30 mm



Order No. **14 235** _____

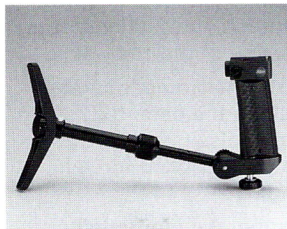
Carrying strap**Neoprene carrying strap**

Order No. **42 162** _____

Universal handgrip**Universal handgrip with shoulder stock**

adjustable in all directions and therefore individually adaptable by the user. Can also be used as a small tripod.

Detailed description page 1-35



Order No. **14 239** _____

Adapter**Adapter**

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



Order No. **14 167** _____

MOTOR-WINDER R 8

for LEICA R 8



Compact, handy motor winder for film transport, shutter winding and rewind for the LEICA R8. Optimal integration to the design of the camera.

Extremely quiet operation due to the patented low-noise gearing with load-controlled force locking.

Automatic film transport to the first frame after film insertion. Frame frequency of up to 2 frames per second. Motorized film rewind.

Magnesium die-cast housing, integrated handgrip serves as a battery compartment for two batteries type 123 that also provide the energy supply for the camera.

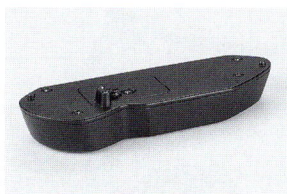
Connection socket for electronic control unit REMOTE CONTROL LEICA R8, electric release switch LEICA R8 and external energy supply (see accessory program).

Detailed product description on page 1-36.

MOTOR-WINDER R 8
with protection cover
Order No. **14 209** _____

Power Pack MW-R 8 for LEICA R 8

Power Pack MW-R 8
Order No. **14 250** _____



operating voltage to the Motor-Winder. The lithium batteries of the MOTOR-WINDER R 8 take over the camera power supply alone. For this reason they must be operational and must not be removed.

An accessory that harmonizes well with the camera design.

Attaches easily to the tripod thread on the base of the Winder.

Recharging device NC for Power Pack MW-R 8

Order No. **14 412** _____

Alternative power supply for MOTOR-WINDER R 8 for prolonged use or operation in the cold. Built-in rechargeable NC batteries supply the

**MOTOR-DRIVE
R 8**



Compact, handy motor drive for film transport, shutter winding and rewind for the LEICA R8. Optimal integration to the design of the camera.

Quiet operation with rubberized gearing to prevent vibrations from being carried on to the camera.

Automatic film transport to the first frame after film insertion. Motorized film rewind (approximately 6 seconds for a 36 exposure film).

Magnesium die-cast housing, integrated handgrip with a removable leather strap and two release buttons with metered value storage for horizontal and vertical format photographs.

Exceptionally convenient and quick to exchange battery housing.

Connection socket for electronic control unit REMOTE CONTROL LEICA R8, electric release switch LEICA R8 and external

energy supply (see accessory program).

Single exposure can be made as well as series exposures: maximum speed 4,5 fps.

Detailed product description on page 1-38.

MOTOR-DRIVE R 8
with NiMH BATTERY
PACK MD R8 and
protection cover
Order No. **14 313** _____

The respective order numbers are the following:

LEICA MOTOR-DRIVE R8 Set

(with Battery Pack and Quick Charger)

- with Europe main power cable
- with USA/Japan main power cable
- with UK main power cable
- with Australian main power cable

BATTERY PACK MD R8

Quick Charger without main power cable

- with Europe main power cable
- with USA/Japan main power cable
- with UK main power cable
- with Australian main power cable

Europe main power cable

USA/Japan main power cable

UK main power cable

Australian main power cable

- Order No. **14 430** _____
- Order No. **14431** _____
- Order No. **14432** _____
- Order No. **14433** _____
- Order No. **14423** _____
- Order No. **14424** _____
- Order No. **14425** _____
- Order No. **14426** _____
- Order No. **14427** _____
- Order No. **14428** _____
- Order No. **14419** _____
- Order No. **14420** _____
- Order No. **14421** _____
- Order No. **14422** _____

MOTOR- WINDER R

for LEICA R 4-R 7, R-E



Compact, handy motor-winder for film transport and shutter wind, for LEICA R models. Extremely quiet operation through patented, low-noise gear system with load-controlled force locking. Single-frame and continuous releases. Frame frequency for continuous release up to 2 fps.

Functional handgrip with two buttons for continuous release as accessory.

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

Easy and quick interchangeable housing for six regular or rechargeable NiCd batteries.

Detailed description
page 1-40.

MOTOR-WINDER R

with cover

Order No. **14 208** _____

*Handgrip R for
LEICA R 4-R 6.2, R-E;
with MOTOR-WINDER R*

*Handgrip R 7 for
LEICA R 7
with MOTOR-WINDER R*



Sturdy, practical design with two conveniently located buttons for continuous shutter release (vertical and horizontal formats), adjustable leather loop, screw with coin slot for attaching the handgrip to the MOTOR-WINDER R or MOTOR-DRIVE R.

Handgrip R

Order No. **14 308** _____

Handgrip R 7*

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

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

**MOTOR-
DRIVE R***for LEICA R 4-R 7, R-E*

Compact, handy motor-drive for film transport and shutter wind, for LEICA R models.

Quiet running due to special gear system.

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

Ergonomic handgrip with two release buttons as accessory.

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

Easy and quick interchangeable housing for 10 regular or rechargeable NiCd batteries.

Detailed description page 1-42.

MOTOR-DRIVE R
with coverOrder No. **14 310** _____

Sturdy, practical design with two conveniently located buttons for continuous shutter release (vertical and horizontal formats) adjustable leather loop, screw with coin slot for attaching the handgrip to the MOTOR-WINDER R or MOTOR-DRIVE R.

**Handgrip R**
*for LEICA R 4-R 6.2, R-E
with MOTOR-DRIVE R***Handgrip R 7**
*for LEICA R 7
with MOTOR-DRIVE R***Handgrip R ²⁾**Order No. **14 308** _____**Handgrip R 7 ²⁾***

²⁾ for MOTOR DRIVE R with 3 contacts on the contact plate (face side).

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

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

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

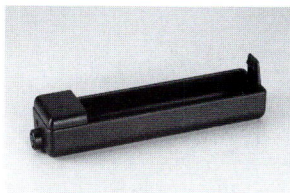
Accessories

1

Photography

for **MOTOR-WINDER**
and **MOTOR-DRIVE R**

**Holder for the MW-R
battery housing
(MOTOR-WINDER R)***



**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; for charging the six NiCd batteries, for instance 501RS, by Varta AG in the battery housing MW-R.

**MW-R battery housing
(MOTOR-WINDER R)**



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 batteries, offers additional reliability. Single action change within seconds.

Order No. **14 280** _____

**Battery housing
MD-R**



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 batteries, offers additional reliability. Single-action change within seconds.

Order No. **14 322** _____

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

Accessories

Micro processor controlled, electronic control unit for remote release. Built in pacer for automatic releases.

Digital display for operating mode, metering method, aperture, shutter speed and frame counter relayed by the camera.

With the timer operation the exposure interval and quantity is displayed.

Two meter long connection cable, fixed onto the unit.

Motorized film transport exclusively for the LEICA R 8.

Detailed description page 1-44.

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 or 6' 6".

Exclusively for the LEICA R with motorized film transport.

Detailed description page 1-46.



*for MOTOR-WINDER
and MOTOR-DRIVE
R 8 and R*

*Electronic control unit
REMOTE CONTROL R 8
for LEICA R 8*

**Remote-Control
LEICA R 8**

Order No. **14 202** _____



*Electronic control unit
RC LEICA R for
LEICA R 3-R 7, R-E**

**Remote-Control
LEICA R (RC LEICA R)***

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

Accessories

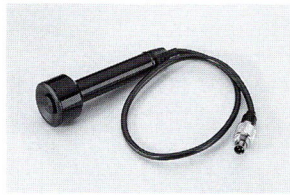
for *MOTOR-WINDER* and *MOTOR-DRIVE* *R 8 and R*

Electric release

for LEICA R 8 with
MOTOR-WINDER or
MOTOR-DRIVE R 8

Order No. **14 254** _____

for LEICA R 3-R 7, R-E
with MOTOR-WINDER or
MOTOR-DRIVE R²⁾



Electric Release Switch R
with trigger switch for
switching on the LEICA R
models for the universal
handgrip with cable,
length 30 cm or 11.8 in, and
screw-on coupling plug:
Practical accessory for pho-
tography 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 con-
nected with the screw-on
coupling plug to the MOTOR-
WINDER R or MOTOR-DRIVE
R through the 30 cm cable.

Electric cable release R

for LEICA R 8 with
MOTOR-WINDER or
MOTOR-DRIVE R 8

Order No. **14 255** _____

for LEICA R 3-R 7, R-E
with MOTOR-WINDER
or MOTOR-DRIVE R*

for remote release, with
cable, length 5 m or 16' 5",
and screw-on coupling plug.
In conjunction with 25 m

or 82 ft extension cables
for electric remote release
up to 100 m or 328 ft.

25 m extension cable

for el. cable release R 8
Order No. **14 275** _____

for el. cable release R
Order No. **14 274** _____

(for electric remote release)
with coupling screw plugs.

¹⁾ not for LEICA R 3 models.
Storing of the measuring values
(selective) only through camera
release.

²⁾ Replacement may be obtainable from the Leica Camera AG Service
Center or local LEICA agency: please enquire.

LEICA R 8



Camera type:

Micro-processor controlled, single lens MF-35 mm format, reflex camera with multiple automatic modes and motor attachment capability.

Lens attachment:

LEICA R bayonet with additional electrical contacts. All LEICA R lenses from 15 mm to 800 mm focal lengths can be used, as well as the earlier LEICAFLEX SL/SL2 lenses that were modified with the R control cam.

Exposure metering, operating modes, power supply

Switching the camera on:

Turn the operating mode selector out of the "OFF" setting and touch the shutter release (camera, motor or remote control). When the shutter is wound, the displays remain for 14 seconds after the release button is let go.

Exposure metering:

- Selective metering with all operating modes. Metering field indicated in the viewfinder by a circle with a diameter of 7 mm.
 - Multiple field metering (6 fields) with all operating modes.
 - Center-weighted integral metering with all operating modes.
 - Center-weighted TTL integral metering for flash lighting with system conformed flash units.
- Open diaphragm metering with all LEICA R lenses and accessories with an automatic spring-back diaphragm, otherwise working-aperture metering.

Operating modes:

- m** manual exposure time and aperture setting via the light balance
- A** aperture priority
- P** variable automatic program mode
- T** shutter speed priority
- F** selective TTL pre-flash metering

Metered value storage:

For the selective metering with all operating modes by applying light pressure on the release.

Exposure correction:

Plus/minus three exposure values in half steps.

Film speed range:

Manual setting from ISO 6/9° to ISO 12 800/42°. (With additional override of -3 EV to +3 EV, films from 0 DIN to 51 DIN can be exposed as well.) DX-scanning from ISO 25/15° to ISO 5000/38°.

Metering range with f/1.4 and ISO 100/21°:

Selective metering: from 0.007 cd/m² to 125 000 cd/m², that is from EV -4 to EV 20 or from 32 s at f/1.4 to 1/8000 s at f/11. Integral and multiple field metering: from 0.03 cd/m² to 125 000 cd/m², that is from EV -2 to EV 20 or from 8 s at f/1.4 to 1/8000 s at f/11. Warn display occurs in the viewfinder when the metering range is not reached.

Photocells:

Silicium photo diode, protected from stray light.

Power supply:

Operating voltage 6 Volt. In the camera battery compartment: 2 lithium cells - type "CR 2". In the winder battery compartment: 2 lithium cells - type "123". In the drive accu compartment: Ni-MH Accu-Pack

Automatic warn display when the battery voltage is failing.

Flash photography

Flash synchronization:

Via the center contact in the accessory shoe or the flash connection socket. Optionally on the first or second shutter curtain. Flash synch time: X = 1/250.

TTL-flash exposure metering:

Center-weighted integral metering with system conforming flash units and adapter SCA 3501

Computer automatic:

Automatic relay of film speed and exposure correction set lens aperture with a corresponding flash unit with SCA 3501 adapter.

Test flash before the exposure is made:

Selective TTL metering, also with flash units that do not conform to the system, studio flash systems for example.

Strobe flash mode:

Multiple flash releases during one exposure. Automatic adaption of the exposure time with corresponding flash units and SCA 3501 adapter.

Film speed range for TTL flash exposure metering:

For TTL flash exposure metering: ISO 12/12° to ISO 3200/36°. For TTL test flash: ISO 25/15° to ISO 400/27°.

Flash readiness display:

By illumination of the flash symbol in the camera viewfinder and the rear cover display.

Flash success control:

Displays for under or over-exposure of correct exposure appear automatically for approximately 4 seconds after the picture has been taken.

Flash exposure correction, flash illumination:

Corrections from -3 1/3 to +3 1/3 EV steps can be set in 1/3 EV steps on the SCA 3501 adapter. Fixed setting of -1 2/3 EV steps while using the automatic program mode.

Zoom reflector of the flash units:

Automatic adaptation to the lens focal length for flash units with motor zoom reflector and SCA 3501 adapter and lenses with electric contacts.

Viewfinder system

Prism:

Built-in penta-prism.

Focusing screens:

5 interchangeable focusing screens:

- Universal screen (ground glass screen with micro-prism ring and wedge),
- Uniform ground glass screen,
- Uniform ground glass screen with grid divisions,
- Micro-prism screen,
- Clear-glass screen with cross-lines.

Eye piece:

High-eye-point viewfinder. Diopter correction from -2 to +2 dptr., to be set on the viewfinder. Additional attachment of correction

lenses from -3 to $+3$ dptr. is possible. Built-in eye piece lock.

Viewfinder field:

$23 \times 35 \text{ mm}^2$, equivalent to approx. 93% of the film format (96% vertical, 97% horizontal) according to the standard slide frame format.

Viewfinder magnification:

0,75 x with 50 mm lens in the infinity setting and with 0 dptr.

LED displays in the viewfinder:

- Warning display in case of a short-fall of the metering range
- Warning display for manually set film speed that deviates from the DX value
- Exposure correction
- Metering method
- Occurred meter value storage
- Flash readiness and flash control
- Operating mode
- Aperture in half values
- Light balance for manual exposure compensation
- Result of the TTL test flash measurement
- Exposure time in half values
- Warning display for over and under exposure
- Frame number

Shutter and release

Shutter:

Microprocessor controlled, metal leaf shutter with vertical run-off.

Shutter times:

Can be set manually on the shutter speed setting ring:

- 16 s to $1/8000$ s in half values.
- B for long time exposure of any length
- X = $1/250$ s for flash synchronization

For automatic program modes infinitely variable from 32 s to $1/8000$ s.

Release:

Three steps: activation – metered value storage – release. Standard thread is integrated in the release for the cable release.

Self timer:

2 countdown times: 2 s or 12 s. Red LED display during the countdown.

Swinging mirror:

70% reflection, 30% transmission.

Mirror pre-release:

After selection via the release. After the release, the mirror swings back into position.

Bracketing:

In connection with the DRIVE, 3 pictures can be made with an exposure difference of either $1/2$ EV or 1 EV.

Film transport

Film insertion:

Easy and fast procedure due to the automatic film threading.

Forward film transport:

Manually with the quick wind lever or motorized with the WINDER (2 fps) or DRIVE (can be switched to 4-5 fps, 2 fps or single frame setting).

Film rewind:

Manually with the rewind lever or motorized with attached WINDER or DRIVE.

Frame counting mechanism:

In the viewfinder and rear cover display. Automatic resetting after the rear cover is opened.

Multiple exposures:

An unlimited number of multiple exposures – without image disalignment and without the frame counter moving on – is possible.

Camera housing:

Material:

Cover plate is of die-cast zinc, with black or silver chrome finish. Inner housing is of aluminium. Base plate is of synthetic material with a metal tripod plate, bottom part has a rubber base.

Depth of field lever:

For visual evaluation of the depth of field and to release the test flash.

Tripod thread: A $1/4$ (1/4")

secured against rotation according to DIN 4503.

Film cartridge viewing window:

To check the type of film loaded.

Dimensions and weight:

Width: 158 mm
Height: 101 mm
Depth: 62 mm

Weight:

890 g.

LEICA R 6.2



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 LEICA R lenses with focal lengths from 15 mm to 800 mm.

Shutter:

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

Shutter speeds:

Setting ring, click-stop settings for B and from 1 s to $\frac{1}{2000}$ s; X = $\frac{1}{100}$ 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 with 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.

Mirror pre-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:

Silicium 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 measurement.

Measuring range of exposure meter:

Selective metering from 0.25 cd/m² to 125 000 cd/m² at f/1.4, i.e. from EV + 1 to + 20 at ISO ISO 100/21°, or 1 s at f/1.4 to f/22 at 1/2000 s.

Integral metering from 0.063 cd/m² to 125 000 cd/m² at f/1.4, i.e. from EV - 1 to + 20 at ISO 100/21°, or 4 s at f/1.4 to f/22 at 1/2000 s.

Film-speed range:

ISO 12/12° to ISO 3200/36°.

Power supply:

Two silver oxide button cells DX 76 or lithium battery CR 1/3 N. Press test button to check battery voltage.

Battery life:

About 2500 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, the viewfinder display remains lit for about 12 s after release of button or 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:

By setting the selector switch to "selective", pressing the locking button again and switching the selector switch to "OFF".

Prism:

Built-in penta-prism.

Focusing screens:

5 interchangeable focusing screens:

- Universal screen (ground glass screen with micro-prism ring and wedge),
- Uniform ground glass screen,
- Uniform ground glass screen with grid divisions,
- Micro-prism screen,
- Clear-glass screen with cross-lines.

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 $1/2000$ 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 accessory shoe contact.

TTL flash-exposure metering:

Flash exposure measured through camera lens for electronic flash units designed for System-Camera-Adaptation 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" = $1/100$ s, all speeds from 1 s to $1/60$ s and "B".

Override for TTL flash-exposure metering:

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

Photocell for TTL**flash-exposure metering:**

Silicium 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 3200/36°.

Camera body:

Die-cast aluminium, camera top 1 mm die-cast zinc, base plate 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 $\frac{1}{4}$ " A thread for tripod screw. Eyelets at sides for carrying strap. Mechanical contact for MOTOR-WINDER R or MOTOR-DRIVE R. Black or silver chrome finish.

Carrying straps:

Made of black perlon fabric with an anti-slip pad. If an ever-ready case is used, the carrying straps stay on the camera.

Dimensions and weight (excl. lens):

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

DB 2 LEICA R Data Back

1

Photography



The DB 2 LEICA R is a quartz- and microprocessor-controlled camera back for printing data on the film during exposure, without cable, for the LEICA R models.¹⁾

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

Input and indication:

The data can be entered 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
99 99 99; 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. When in the "OFF" position, no printing occurs.

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

¹⁾ not for LEICA R 3

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 horizontal format). The six numbers are arranged into three groups.

Printing method:

Snap switch for three illumination intensity modes. 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 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.

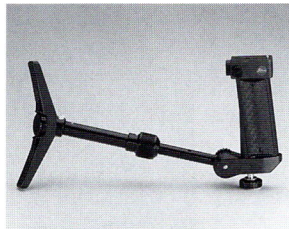
Miscellaneous:

Film cartridge viewing window.

Dimensions and weight:

approx. 138.5 x 54 x 29.5 mm or 5.45 x 2 x 1 in; 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 recommended also in conjunction with the 280 mm APO-TELYT-R f/4, the MODUL-System and the Focusing Bellows R, both with and without the Motor-Winder or Motor-Drive rapid winders.

With motorized operation of the LEICA R models¹⁾ 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 (Order No. 16 494) the preset automatic diaphragm is also operated in the Focusing Bellows R.

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 in all directions to produce a comfortable fit.

The shoulder stock can be detached and fixed to the handgrip to form a mini-tripod.

¹⁾ not for LEICA R 3

MOTOR-WINDER R 8



Type of instrument:

Compact motor winder for film transport, shutter wind and rewind with extremely quiet operation.

Frame frequency:

up to two frames per second.

For use on:

LEICA R 8

Power supply:

Two lithium cells type "123" – 3 Volts each. The winder provides the power supply for the camera as well. An external power supply can also be attached via the connection socket on the motor winder.

Operation:

The camera battery compartment is removed and the motor winder is attached in its place. When a film is inserted, the motor winder automatically transports to frame number one. The shutter release occurs via the camera release button. Pressing the release button and holding it down

causes a series of exposures of up to two frames per second.

Attention: if the quick release lever of the camera is folded out then the motor winder only provides the power supply for the camera. All other functions of the winder are then switched off.

Rewind:

After pressing the button on the camera for rewind clearance, the button on the back of the motor winder is pushed to the right (towards the "R"). When the film has been rewound, the film tab still sticks out of the cartridge. Briefly pressing the rewind button on the motor winder again causes the film to be wound completely into the cartridge. The frame counter of the camera counts along backward during rewinding. When "00" blinks, the film can be removed.

Automatic switch-off:

During forward transporting, when the necessary voltage is not available and when the end of the film is reached. For reverse transport, the Motor-Winder stops when only the film tab is outside of the cartridge.

Housing:

The housing is die-cast magnesium. All control contacts to the camera are gold plated. The motor winder is fastened to the tripod thread of the camera by means of a screw with fold-in handle. The low-noise gearing with load-controlled force locking is connected to the housing via a special rubber support to avoid vibrations.

Connection socket:

For electronic control unit REMOTE CONTROL LEICA R8, electric release switch R8 or an external power supply.

Tripod thread:

A 1/4 (1/4").

Dimensions and weights:

Width:

155 mm

Height:

19.8 / 84.8 mm *

Depth:

58 mm

Weight (without batteries):

approx. 235 g

Weight (with batteries):

approx. 270 g

Power Pack MW-R8

Alternative power supply for the MOTOR-WINDER R8 for prolonged use and/or operation in the cold.

Does **not** take over the power supply for the camera, for this reason the lithium batteries must be in working order and must remain in the Winder housing.

Assembly:

Is connected via the tripod thread at the base of the Winder.

Power supply:

Built-in rechargeable batteries, type NiCd, which are reloaded with the recharging device (order no. 14 412).

Dimensions and Weight:

Width: 146 mm

Height: 20 mm

Depth: 46 mm

Weight: 0,180 kg

* Winder housing / incl. handgrip

MOTOR-DRIVE R 8



Type of accessory:
MOTOR-DRIVE R 8 for threading and advancing the film, cocking the shutter and rewinding the film in an extremely quiet manner. The integral wrist loop provides very comfortable handling and carrying, even with longer and heavier lenses.

Exposure frequencies:
Can be selected by means of a three-position rotary switch.
"S" (*single*) *position:* single exposures.
"Cl" (*continuous low*) *position:* up to 2 exposures per second.
"Ch" (*continuous high*) *position:* up to 4.5 exposures per second.

For use on:
LEICA R 8.

Power Supply:
Provided by a special, quickly rechargeable battery pack with 8 permanently built-in Ni-MH cells. The MOTOR-DRIVE R 8 provides the power supply for the camera as well. An

external power supply can also be attached via the connection socket on the MOTOR-DRIVE R 8.

Operating the MOTOR-DRIVE R 8:

Threading and Advancing the Film:

The camera battery compartment is removed and the Drive is attached in its place. The MOTOR-DRIVE R 8 has separate release buttons for vertical and horizontal formats, with all the functions of the release button on the camera. The release button for vertical exposures can be locked in order to prevent unintentional activation. The operating modes are selected by means of the rapid film advance lever: when it is completely turned in, the MOTOR-DRIVE R 8 functions are switched on; when it is turned out to the "ready" position, the MOTOR-DRIVE R 8 functions are switched off and the film can be advanced manually.

The MOTOR-DRIVE R 8 will, however, continue to supply power to the camera.

Rewinding the Film:

After pressing the rewind button on the camera, the lever on the front of the MOTOR-DRIVE R 8 is pushed to the left. When film rewinding has been completed, the film tongue will protrude from the cartridge. By rotating the lever again briefly, the film is wound completely into the cartridge. When "00" blinks, the film can be removed.

Automatic Switch-Off:

During forward transporting, when the necessary voltage is not available and when the end of the film is reached. The MOTOR-DRIVE R 8 turns itself off when the film has been rewound except for the film tongue that will be left protruding from the cartridge.

Automatic Exposure Series:

Automatic exposure series (bracketing) with three quickly consecutive exposures and a choice of two different exposure variation modes can be selected by means of a rotary switch. The different exposure variation modes depend on the operating mode selected on the camera: in the "T" mode, the aperture changes; in the "A" and "m" modes, the shutter speed changes; both aperture and shutter speed changes in the "P" mode.

With the switch set at "0":
The bracketing function is switched off.

With the switch set at "± 0.5":
Three exposures, each one different by 1/2 EV.

With the switch set at "± 1":
Three exposures, each one different by 1 EV.

Body Housing:

The body housing of the MOTOR-DRIVE R 8 is made of diecast aluminium. All control contacts to the camera are gold plated. The MOTOR-DRIVE is fastened to the tripod thread of the camera by means of a screw with fold-in handle. The low-noise gearing with load-controlled force locking is connected to the housing via a special rubber support to avoid vibrations.

Connection socket:

For electronic control unit REMOTE CONTROL LEICA R8, electric release switch R 8 or an external power supply.

Tripod thread:

A 1/4 (1/4").

Dimensions and Weights:

Width: 157 mm (6 3/16")

Height: 38 mm (1 1/2")

Height with handgrip:

124.5 mm (4 15/32")

Depth: 89 mm (3 1/2")

Weight (without/with battery pack): 430/680 g (15.2/24 oz).

Battery Pack MD-R8

Content: 8 NiMH cells
Capacity: 1500 mAh, (valid for 36-exposure films, including rewinding and a fully charged battery pack).

20 °C (68 °F) –
more than 150 films
- 20 °C (- 4 °F) –
more than 40 films

Life of a battery pack:

Under normal operating conditions (- 20° to + 65 °C) (- 4° to + 149 °F), normal charge levels (0° to 40 °C) (32° to 104 °F) and storage conditions (- 20° to + 40 °C) (- 4° to + 104 °F) at least 500 recharging cycles.

Dimensions:

Width: 157 mm (6 3/16")

Height: 38 mm (1 1/2")

Height with handgrip:

86.5 mm (3 13/32")

Depth: 89 mm (3 1/2")

Weight: 250 g (8.8 oz).

Rapid Battery Charger:

Primary voltage:

90-260 V, 50-60 Hz,
12-24 V DC.

Primary connectors:

EN 60320/C7 (Shaver-) socket and 2-pole socket for plug connector.

Secondary voltage:

9.6 V DC (nominal voltage).

Secondary current:

Approximately 1200 mA

Main housing dimensions:

Width: 150 mm (5 29/32")

Height: 80 mm (3 5/32")

Depth: 63 mm (2 15/32")

Charging Adapter

Dimensions

Width: 130 mm (5 1/8")

Height: 60 mm (2 3/8")

Depth: 43 mm (1 11/16")

Weight (including power connecting cord):

495 g (17 1/2 oz).

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 7, R-E. The motor winder automatically takes over the current supply of the camera* (camera batteries must remain in 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.

Operation:

The camera / motor-winder combination is switched on either by pressing 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.

* not with LEICA R 7

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 sufficient 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 1/4 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 or 1 1/2 in, length 140 mm or 5 1/2 in, depth 50 mm or 2 in (depth of housing alone 46 mm or 1.8 in). 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 Camera Service Center.

MOTOR-DRIVE R

1

Photography



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 R 4-R 7, R-E. The MOTOR-DRIVE automatically takes over the current supply of the camera* (batteries must remain in 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.

Operation:

The camera / MOTOR-DRIVE combination is switched on either by pressing 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.

* not with LEICA R 7

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 or 1.8 in, length 140 mm or 5.5 in, depth 61 mm or 2.4 in (depth of housing alone 55.5 mm or 2.2 in). 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 Camera Service Center.

1

RC LEICA R 8 Electronic Control Unit



Remote Control LEICA R 8

Type of instrument:

Microprocessor-controlled remote control for LEICA R8 in connection with Motor-Winder or Motor-Drive. Cameras can be switched on with the remote control.

Possibility of single, series and interval release, as well as three successive releases when bracket setting is selected on the drive.

Voltage is supplied by own batteries.

Large illuminated LC display that shows:

- Operating mode of the camera
- Metering method of the camera
- Aperture and speed setting of the camera
- Frame counter
- Exposure correction display
- Interval time and number of pre-selected exposures.

Housing:

Synthetic housing with 5 m connection cable that is fixed to the unit and has a screw-on, 8-pin plug.

ON/OFF switch is on the side and LED control display is on the top side. Two wide keys for switching the camera on and releasing the shutter, one button each for setting the interval speed and number of exposures these are combined with a "+" or "-" key.

All operating buttons are easily accessible and arranged clearly on the top of the unit.

Functions:

Sliding switch for activation of the RC is on the left side the unit. When the remote control is on, a red diode lights up under the display. The camera and the LCD are switched on for about 14 seconds with the large "camera on" key on the lower left. The camera shutter is released with the large key on the lower right that is marked with a white dot.

The interval speed is selected with the "INT" key. When the RC is switched on or when the "camera on" key is pressed the interval display shows

"0" at first. This display starts to blink when the "INT" key is pressed and then the interval time in seconds can be selected by pressing the "+" or "-" buttons (max. 59 seconds). When the "INT" key is pressed a second time, the interval time in minutes can be selected (max. 59 minutes). By pressing the "INT" key yet again, the interval time in hours can be selected (up to 24 hours). When the key is pressed a fourth time, the display stops blinking and the values are stored.

The selection of the desired number of exposures is done similarly. When the "N" key is pressed the first time, the display starts to blink and the number of exposures can be selected with the "+" or "-" buttons (max. 99 exposures). When the "N" key is pressed a second time the value is stored and the display stops blinking. The interval release is initiated by pressing the release button on the RC.

Display:

In the upper row on the left, the symbol for the operating mode set in the camera is displayed (m, A, P, T, F). On the right is the selected exposure metering method (selective, multiple, integral). In the middle row, the aperture is shown on the left, the shutter speed in the center and the frame counter is on the right.

The lower row shows the set exposure correction value on the left, the selected interval time in the center and the number of exposures is shown on the right.

Dimensions and Weight:

- Width: 65 mm (2.6 in.)
- Length: 120 mm (4.7 in.)
- Depth: 22 mm (0.9 in.)
- Weight: 300 g (including cable and batteries)
- Cable length: 5m
- Battery 9 V transistor block

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 synthetic 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 (\square) 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 (\updownarrow) for indicating the number of exposures made at any time.

After a touch, the digital display lights up for about two seconds.

Input key (\perp) 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 ($\updownarrow + \perp$).

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 or 328 ft.

Dimensions and weight:

Height 120 mm or 4.7 in,
width 60 mm or 2.4 in,
depth 30 mm or 1.2 in,
weight including cable
220 g.

Hold-all bags "Outdoor"



Large and small LEICA combination bags "Outdoor", black

LEICA combination bags "Outdoor"

The LEICA combination bags "Outdoor" are made of waterproof, ballistic nylon and provide optimal protection for your valuable Leica equipment, even in adverse weather conditions. All seams and edges are made of robust leather, making the bag especially durable. Dirt and stains of normal use remain practically invisible due to the black colour of the bag. Not only the outer pocket, which can be closed with a zipper, but also the grey nylon inner lining are waterproof. In addition to this, the main compartments of the bag are padded with foam synthetic of especially high quality, in order to prevent any possible scratching of the equipment.

The seams of LEICA combination bags "Outdoor" are stitched together with a waterproof and extre-

mely strong nylon thread, and are doubly reinforced at the edges, in order to further protect those points that are subject to the greatest strain. The quick-release buckles and the welded metal rings reflect the robust design of the bag and increase carrying comfort.

The Lens-Bridge® Divider System patented in the USA protects the camera with attached MOTOR-DRIVE-R/R 8 or MOTOR-WINDER-R/R 8 from the jolts and jostling of transportation, but is still allows the quick removal of the camera.

On the underside of the bag lid there is a transparent pocket for storing filters and small accessories in an orderly and accessible way. The big front pocket is divided into several compartments, where personal objects and small important accessories can be conveniently stored. On the front of the bag you



Hold-all bags "Outdoor"

will also find an additional small pocket, which can be closed with a zipper and is perfect for storing tickets, personal papers or maps. Furthermore, a larger zippered pocket is located on the back of the bag, providing further space for important equipment. The large pockets on the side are provided with a velcro clasp as well as with quick-release buckles, in order to ensure quick access to accessories.

Thanks to the many separate storing possibilities, the user has the unique opportunity to neatly and conveniently pack and carry camera equipment and accessories.

In order to protect the camera from shocks and jolts, the plastic bottom of the bag is also padded with foam synthetic. The padding of the shoulder-formed carrying strap ensures carrying comfort, while the suede on the inside guarantees a non-slip hold.

The LEICA combination bag "Outdoor" is available in large and small sizes, corresponding at all times to the differing equipment demands of the photographer.

Large LEICA combination bag "Outdoor",

Outer dimensions
(width x height x depth):
42 cm x 23 cm x 24 cm
Inner usable dimensions:
30 x 20 x 15 cm
Empty weight: 1500 g

Small LEICA combination bag "Outdoor"

Outer dimensions:
(width x height x depth)
33 cm x 23 cm x 24 cm
Inner usable dimensions:
25 x 20 x 15 cm
Empty weight: 1300 g

LEICA R lenses

*Product range,
Specifications and
Technical Data*

FISHEYE-ELMARIT-R	f/2.8/16 mm	2- 5
ELMARIT-R	f/2.8/19 mm	2- 6
ELMARIT-R	f/2.8/24 mm	2- 7
ELMARIT-R	f/2.8/28 mm	2- 8
PC-SUPER-ANGULON-R	f/2.8/28 mm	2- 9
SUMMILUX-R	f/1.4/35 mm	2-10
SUMMICRON-R	f/2/35 mm	2-11
SUMMILUX-R	f/1.4/50 mm	2-12
SUMMICRON-R	f/2/50 mm	2-13
MACRO-ELMARIT-R	f/2.8/60 mm	2-14
SUMMILUX-R	f/1.4/80 mm	2-15
APO-MACRO-ELMARIT-R	f/2.8/100 mm	2-16
APO-SUMMICRON-R	f/2/180 mm	2-17
APO-ELMARIT-R	f/2.8/180 mm	2-18
APO-TELYT-R	f/4/280 mm	2-19
APO-TELYT-R Module System	f/2.8/280 mm to f/5.6/800 mm	2-20
VARIO-ELMAR-R	f/3.5-4.5/28-70 mm	2-28
VARIO-ELMARIT-R ASPH.	f/2.8/35-70 mm	2-29
VARIO-ELMAR-R	f/4/35-70 mm	2-30
VARIO-APO-ELMARIT-R	f/2.8/70-180 mm	2-31
VARIO-ELMAR-R	f/4/80-200 mm	2-32
VARIO-ELMAR-R	f/4.2/105-280 mm	2-33
APO-EXTENDER-R		2-34
Accessories for LEICA R lenses		2-35

*Technical descriptions
of new LEICA R lenses*

SUMMILUX-R	f/1.4/50 mm	2-43
APO-ELMARIT-R	f/2.8/180 mm	2-45
VARIO-ELMARIT-R ASPH.	f/2.8/35-70 mm	2-47

Leica "Product Informations" provide detailed descriptions of the specific performance characteristics of numerous LEICA R lenses. Please request them!

The range of LEICA R-lenses

current notice

LEICA R lenses with electric contacts can be used on all LEICA R cameras without exceptions. Additionally, only the LEICA R 8 uses the electronic data transfer – for example for focal length identification and automatic setting of the motor zoom reflector when using flash units that conform to the system.

Most of the previous models of these lenses (that are otherwise identical) can still be fitted with the electronic components though in this case, the possibly existing

control can for use on LEICAFLEX models must be removed to make room. In the same way it is also possible to exchange the electronic elements for the aforementioned control cams.

For further information please contact the Leica Camera AG ServiceCenter or local Leica agency.

Leica Camera AG
ServiceCenter
P.O. 11 80
35599 Solms
Tel.: (0) 64 42 208-186/
-190/-289
Fax: (0) 64 42 208-339

The range of LEICA R lenses

Description	Speed	Focal length (in mm)	Angel of view ¹⁾ (°)	Filter (Ø)	Order No.
FISHEYE-ELMARIT-R	f/2.8	16	180	built-in	11 327
ELMARIT-R	f/2.8	19	96	built-in	11 329
ELMARIT-R	f/2.8	24	84	S 8	11 331
ELMARIT-R	f/2.8	28	76	E 55	11 333
PC-SUPER-ANGULON-R	f/2.8	28	73/93	67 EW	11 812
SUMMILUX-R	f/1.4	35	64	E 67	11 337
SUMMICRON-R	f/2	35	64	E 55	11 339
SUMMILUX-R	f/1.4	50	45	E 60	11 344
SUMMICRON-R	f/2	50	45	E 55	11 345
MACRO-ELMARIT-R	f/2.8	60	39	E 55	11 347
SUMMILUX-R	f/1.4	80	30	E 67	11 349
APO-MACRO-ELMARIT-R	f/2.8	100	25	E 60	11 352
APO-SUMMICRON-R	f/2	180	14	E 100, S 6	11 354
APO-ELMARIT-R	f/2.8	180	14	E 67	11 273
APO-TELYT-R	f/4	280	8,8	S 5,5	11 360
APO-TELYT-R	f/2.8	280	8,8	S 6	11 846
APO-TELYT-R	f/2.8	400	6	S 6	11 847
APO-TELYT-R	f/4	400	6	S 6	11 857
APO-TELYT-R	f/4	560	4,5	S 6	11 848
APO-TELYT-R	f/5.6	560	4,5	S 6	11 858
APO-TELYT-R	f/5.6	800	3	S 6	11 849
VARIO-ELMAR-R	f/3.5-4.5	28-70	76-34	E 60	11 364
VARIO-ELMARIT-R ASPH.	f/2.8	35-70	64-34	E 77	11 275
VARIO-ELMAR-R	f/4	35-70	64-34	E 60	11 277
VARIO-APO-ELMARIT-R	f/2.8	70-180	34-14	E 77	11 279
VARIO-ELMAR-R	f/4	80-200	29-12,5	E 60	11 281
VARIO-ELMAR-R	f/4.2	105-280	23,2-8,8	E 77	11 268

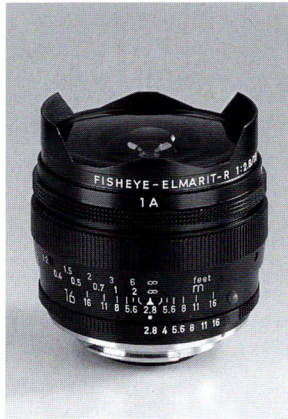
APO-Extender R

Accessories for LEICA R lenses

Filters, lens hoods

¹⁾ All values are rounded off to 1/2 degree

- 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 spring-back diaphragm
- Aperture setting ring 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) (about 1 : 16.7)
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in lens hood
- Lens cap diameter: 65 mm (2.6 in)
- Length from bayonet flange: 60 mm (2.4 in)
- Diameter: 71 mm (2.8 in)
- Weight: 0.460 kg



Fisheye lens for special imaging effects

FISHEYE-ELMARIT-R f/2.8/16 mm

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

FISHEYE-ELMARIT-R f/2.8/16 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 327** _____

Replacements

Soft leather case³⁾

Front cap³⁾

Rear cover

Order No. **14 162** _____

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

²⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

³⁾ Replacement may be obtained from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

ELMARIT-R f/2.8/19 mm

for LEICA R models
(all modes)¹⁾



High speed ultra-wide-angle lens

ELMARIT-R f/2.8/19 mm

In a soft leather case, with lens hood, lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 329** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 301** _____

Rear cover

Order No. **14 162** _____

Lens hood

Order No. **12 546** _____

Lens hood cover

Order No. **14 302** _____

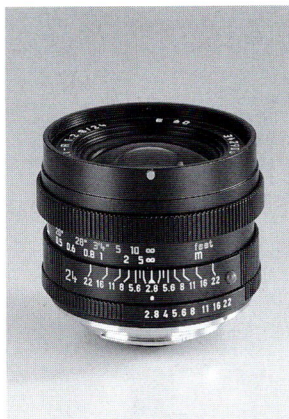
- Angle of view: 96°
- Number of elements: 12 (10 components)
- Built-in filter turret with 4 filters:
ND x 1 (neutral density filter) yellow, orange and blue (conversion filter KB 12)
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 0.30 m (12 in)
- Smallest object field: 264 x 396 (10.4 x 15.5 in) (about 1 : 11)
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Lockable lens hood
- Lens cap diameter: 68 mm (2.7 in)
- Length from bayonet flange: 60 mm (2.4 in)
- Diameter: 71 mm (2.8 in)
- Weight: 0.560 kg

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

- 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 60x0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 0.30 m (12 in)
- Parallel guided focusing mount
- Smallest object field: 250x374 mm (10x15 in) (about 1:10.5)
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Lens hood lockable, also adapter for Series 8 filters
- Lens cap diameter: 63.7 mm (2.5 in)
- Length from bayonet flange: 48.5 mm (1.9 in)
- Diameter: 67 mm (2.6 in)
- Weight: 0.400 kg



Lens with very wide angle of view

ELMARIT-R f/2.8/24 mm

*for LEICA R models
(all modes)¹⁾*

ELMARIT-R f/2.8/24 mm

In a soft leather case, with lens hood, lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 331** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 290** _____

Rear cover

Order No. **14 162** _____

Lens hood

Order No. **12 523** _____

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

ELMARIT-R f/2.8/28 mm

for LEICA R models
(all modes)
LEICAFLEX SL2



Wide-angle lens

- Angle of view: 76°
- Number of elements: 8 (7 components)
- Aberration correction via floating element
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/22
- Combined metre/feet scale
- Focusing range: ∞ to 0.30 m (12 in)
- Parallel guided focusing mount
- Smallest object field: 192 x 288 mm (7.5 x 11.3 in) (about 1:8)
- LEICA R quick change bayonet – for LEICA R 3-R 8, LEICAFLEX SL2 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in telescopic lens hood
- Lens cap dimensions: 65 x 74 mm (2.6 x 3 in)
- Length from bayonet flange: 48 mm (1.9 in)
- Diameter: 67.5 mm (2.7 in)
- Weight: 0.435 kg

ELMARIT-R f/2.8/28 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation²⁾

Order No. **11 333** _____

Replacements

Soft leather case³⁾

Lens cap

Order No. **14 289** _____

Rear cover

Order No. **14 162** _____

¹⁾ can also be used on LEICAFLEX-SL2 models

²⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

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

*for LEICA R models
(preferably with
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 9,5 mm diagonally or vertically
- Radial adjustment click-stops at 45° intervals
- 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-55513 Bad Kreuznach, and its distributors)
- Internal thread: M 67x0.75
- Aperture setting ring with clickstops (including half values)
- Aperture preselector
- Smallest stop: f/22
- Combined meter/feet scale
- Focusing range: 0.30 m (1 ft) to ∞
- Smallest object field: 146 mm x 219 mm (5.7 x 8.6 in) (about 1:6)

- Parallel guided focusing mount
- LEICA R quick-change bayonet for LEICA R 3-R 8 with mechanical exposure compensation at working aperture
- Lens barrel: Black anodized
- Lens hood: Screw-in type, also doubles as special 67 EW filter holder
- Lens cap diameter: 70 mm (2.8 in)
- Length to bayonet flange: 84 mm (3.3 in)
- Diameter: 75 mm (3 in)
- Weight: 0.600 kg

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

In a soft leather case, with lens hood, lens cap and rear cover.

With mechanical exposure compensation

Order No. **11 812** _____

Replacements

Soft leather case¹⁾

Lens cap

Order No. **14 232** _____

Rear cover

Order No. **14 162** _____

Lens hood

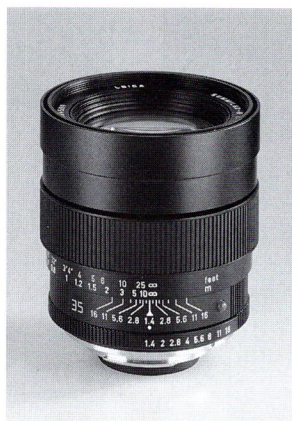
Order No. **12 540** _____

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

SUMMILUX-R f/1.4/35 mm

for LEICA R models
(all modes)¹⁾



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 spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.50 m (20 in)
- Smallest object field: 266 x 399 mm (10.4 x 15.7 in) (about 1 : 11)
- Rubber-armored focusing ring
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 75 mm (3 in)
- Length from bayonet flange: 76 mm (3 in)
- Diameter: 75 mm (3 in)
- Weight: 0.685 kg

SUMMILUX-R f/1.4/35 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 337** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 291** _____

Rear cover

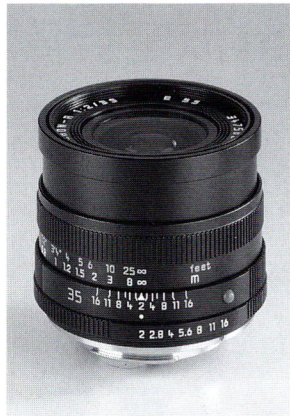
Order No. **14 162** _____

¹⁾ Modification for additional use on LEICAFLEX SL 2 is possible.
²⁾ Please ask the customer service of Leica camera AG for advice

LEICA R lenses

SUMMICRON-R f/2/35 mm

for LEICA R models
(all modes)¹⁾



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 spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/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)
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 63 mm (2.5 in)
- Length from bayonet flange: 54 mm (2.1 in)
- Diameter: 66 mm (2.6 in)
- Weight: 0.430 kg

SUMMICRON-R f/2/35 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 339** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 289** _____

Rear cover

Order No. **14 162** _____

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

SUMMILUX-R f/1.4/50 mm

for LEICA R-models¹⁾
(all modes)



Ultra-high-speed lens

- Angle of view: 45°
- Number of elements: 8 (7 components)
- Filter size: E 60
- Internal thread: M 60x0.75
- Fully automatic spring back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.50 m (20 in)
- Smallest object field: 178 x 266 mm (6.9 x - 10.4 in), approx. 1: 7.4
- Focusing ring rubber-armoured
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 68 mm (2.7 in)
- Length from bayonet flange: 51 mm (2 in)
- Diameter: 70 mm (2.7 in)
- Weight: 0.490 kg

2

Photography

SUMMILUX-R f/1.4/50 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 344** _____

Accessories

UVa filter E 60

Order No. **13 381** _____

Yellow green filter E 60²⁾

Orange filter E 60²⁾

Polarizing filter E 60

Order No. **13 406** _____

Replacements

Soft leather case²⁾

Lens front cap

Order No. **14 290** _____

Lens rear cover

Order No. **14 162** _____

¹⁾ Modification for additional use on LEICAFLEX SL2 is possible. Please ask the customer service of Leica Camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

SUMMICRON-R

f/2/50 mm

for LEICA R models
(all modes)¹⁾

SUMMICRON-R f/2/50 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 345** _____

Replacements

Soft leather case

Order No. **14 749** _____

Lens cap

Order No. **14 289** _____

Rear cover

Order No. **14 162** _____

ELPRO achromatic near-focusing attachment

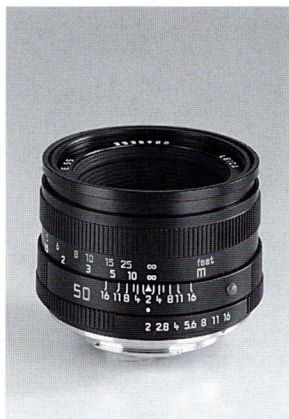
Order No. **16 541** _____

Order No. **16 542** _____

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 spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/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)
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice



R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation

- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 63 mm (2.5 in)
- Length from bayonet flange: 41 mm (1.6 in)
- Diameter: 66 mm (2.6 in)
- Weight: 0.290 kg

ELPRO 1

ELPRO 2

Leather case for 1 near-focusing attachment²⁾

Lens	ELPRO	Distance scale at	Distance in cm		Object field size in mm	Reproduction scale ratio
			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.

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

MACRO-ELMARIT-R f/2.8/60 mm

for LEICA R models
(all modes)¹⁾

MACRO-ELMARIT-R f/2.8/60 mm

In a soft leather case,
with lens cap and rear
cover.

With mechanical (and
for LEICA R 8 with ad-
ditional electronic) ex-
posure compensation

Order No. **11 347** _____

Replacements

Soft leather case³⁾

Lens cap

Order No. **14 289** _____

Rear cover

Order No. **14 162** _____

¹⁾ Modification for additional use
on LEICAFLEX models is
possible. Please ask the
customer service of Leica
camera AG for advice

MACRO- ADAPTER-R²⁾

²⁾ MACRO-ADAPTER-R cannot be
modified for use on LEICAFLEX/
SL/SL2 cameras.

Order No. **14 299** _____

Order No. **14 103** _____

Order No. **14 162** _____



Universal lens for photography
in the range from ∞ to 1:2
reproduction scale, to 1:1 with
MACRO ADAPTER-R

- Angle of view: 39°
- Number of elements: 6
(5 components)
- Filter size: E 55
- Internal thread:
M 55 x 0.75
- Fully automatic spring-
back diaphragm, also
with MACRO-Adapter-R
- Aperture setting ring
with clickstops
(including half values)
- Smallest aperture: f/22
- Combined meter/feet
scale, reproduction scale
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)
- Parallel guided focusing
mount
- LEICA R quick change
bayonet for LEICA
R 3-R 8 with mechanical
(and for LEICA R 8 with
additional electronic)
exposure compensation
- Black anodized finish
- Built-in, lens hood
- Lens cap diameter: 63
mm (2.5 in)
- Length from bayonet
flange: 62.3 mm (2.5 in)
- Diameter: 67.5 mm (2.7 in)
- Weight: 0.400 kg



MACRO-ADAPTER-R

(for aperture priority and
manual)

Length: 30 mm

Diameter: 62 mm

Weight: 0,13 kg

Front cover
(camera body cover)

Rear cover
(lens rear cover)

Covers for the
MACRO-ADAPTER-R:

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

- Angle of view: 30°
- Number of elements: 7 (5 components)
- Filter size: E 67
- Internal thread: M 67 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.80 m (31 in)
- Smallest object field: 192 x 288 mm (4.4 x 7.6 in) (about 1 : 8)
- Rubber-armored focusing mount
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 75 mm (3 in)
- Length from bayonet flange: 69 mm (2.7 in)
- Diameter: 75 mm (3 in)
- Weight: 0.700 kg



Ultra-high-speed lens of long focal length

SUMMILUX-R f/1.4/80 mm

*for LEICA R models
(all modes)¹⁾*

SUMMILUX-R f/1.4/80 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 349** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 291** _____

Rear cover

Order No. **14 162** _____

¹⁾ Cannot be modified for use on LEICAFLEX models

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

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

for LEICA R models
 (all modes)¹⁾



Multi-purpose lens of medium focal length for photography from ∞ to the macro 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 60x0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)

- Smallest aperture: f/22
- Combined meter/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)
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, telescopic lens hood
- Front lens diameter: 68 mm (2.7 in)
- Length from bayonet flange: 104.5 mm (4.1 in)
- Diameter: 73 mm (2.9 in)
- Weight: 0.760 kg

APO-EXTENDER-R 2x for LEICA R models (with aperture priority and manual modes)

(further details on page 2-34)

APO-EXTENDER-R 2x

with protective covers

Order No. **11 269** _____

ELPRO 1:2 – 1:1

Order No. **16 545** _____

Order No. **12 528** _____

Order No. **14 290** _____

Order No. **14 251** _____

replacement lens hood

replacement lens cap

replacement rear cover

ELPRO 1:2 – 1:1 macro lens for APO-MACRO-ELMARIT-R f/2.8/100 mm

ELPRO 1:2 – 1:1 with lens hood, lens cap and rear cover

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

APO-SUMMICRON-R f/2/180 mm

for LEICA R models
(all modes)¹⁾



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

- Angle of view: 14°
- Number of elements: 9 (6 components)
- Filter size: series 6 (in filter drawer)
- Filter thread (front): M 100 x 1
- Built-in protection filter in front of the front lens
- Fully automatic spring back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 1,5 m (4 ft. 11 in)
- Can be focused beyond ∞
- Can be used for infrared exposures without focusing correction
- Smallest object field: 160 x 240 mm (6.3 x 9.4 in) (about 1:6.7)
- LEICA R quick change bayonet
 - for LEICA R 3-R 8: with mechanical exposure compensation
 - for LEICA R models: with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, rubber-armed, telescopic lens hood
- Eyelets for attachment of

- carrying strap
- Tripod thread: A 1/4, DIN 4503 (1/4"), tilting for vertical and horizontal pictures, with clickstops
- Lens cap diameter: 116 mm (4.6 in)
- Length from bayonet flange: 176 mm (6.9 in)
- Diameter: 116 mm (4.6 in)
- Weight: approx. 2.500 kg

APO-EXTENDER-R

for LEICA R models

(further details on page 2-34)

¹⁾ cannot be modified for use on LEICAFLEX models

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

APO-SUMMICRON-R f/2/180 mm

In a hard leather case, with lens cap and rear cover, filter drawer with 6 ND x 1 series filter, carrying straps. With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 354** _____

Replacements

Leather case²⁾ Lens cap

Order No. **14 298** _____

Rear cover

Order No. **14 162** _____

Filter drawer for series filter 6 ND x 1

Order No. **14 592** _____

Filter 6 ND x 1

Order No. **13 028** _____

Carrying strap

Order No. **14 235** _____

APO-EXTENDER-R

APO-EXTENDER-R 14x
(aperture priority and manual)
with protective covers

Order No. **11 249** _____

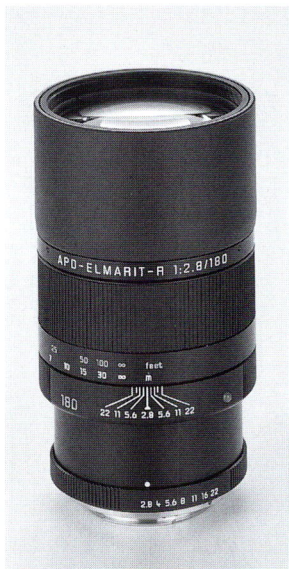
APO-EXTENDER-R 2x
(aperture priority and manual)
with protective covers

Order No. **11 269** _____

LEICA R lenses

APO-ELMARIT-R f/2.8/180 mm

for LEICA R models ¹⁾
(all modes)



- Angle of view: 14°
- Number of elements: 7 (5 components)
- Filter size: E 67
- Internal thread: M 67 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range: ∞ to 1.50 m
- Smallest object field: 168 x 252 mm (6.6 x 9.9 in, about 1 : 7)
- Parallel guided focusing mount
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, telescopic lens hood, rubber-armoured
- Lens cap diameter: 76 mm (3 in)
- Length from bayonet flange: 132 mm (5.2 in)
- Diameter: 76 mm (3 in)
- Weight: 0.970 kg

Accessories

APO-EXTENDER-R 2x
(preferably with aperture priority and manual)

Order No. 11 269 _____

UVa filter E 60

Order No. 13 386 _____

Yellow green filter E 60²⁾

Orange filter E 60²⁾

Polarizing filter E 60

Order No. 13 407 _____

Replacements

Soft leather case²⁾

Lens front cap

Order No. 14 291 _____

Lens rear cover

Order No. 14 162 _____

High-speed telephoto lens with apochromatic correction for extended spectral range

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

- Angle of view: 8,8°
- Number of elements: 7 (6 components)
- Filter size: series 5.5 (in filter drawer)
- Filter thread (front): E 77
- Built-in protection filter in front of the front lens
- Fully automatic spring back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 1,7 m (5 ft 7 in)
- Can be focused beyond ∞
- Can be used for infrared exposures without focusing correction
- Smallest object field: 120 x 180 mm (4.7 x 7.1 in) (about 1:5)
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Built-in, rubber-armoured, telescopic lens hood
- Eyelets for attachment of carrying strap



Telephoto lens with internal focusing and apochromatic correction for extended spectral range (IR-range)

- Tripod thread: A 1/4, DIN 4503, (1/4"), tilting for vertical and horizontal pictures, with clickstops
- Diameter: 88 mm (3.5 in)
- Length from bayonet flange: 208 mm (8.2 in)
- Height over tripod support: 97.5 mm (3.8 in)
- Weight: 1,875 kg

APO-TELYT-R f/4/280 mm

*for LEICA R models
(all modes)¹⁾*

APO-TELYT-R f/4/280 mm

In a leather case, with lens cap and rear cover, filter drawer with 5.5 ND x 1 series filter, carrying strap. With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 360** _____

Replacements

Leather case²⁾

Lens cap

Order No. **14 319** _____

Rear cover

Order No. **14 162** _____

Filter drawer for series filter 5,5 ND x 1

Order No. **14 591** _____

Filter 5,5 ND x 1

Order No. **13 026** _____

Carrying strap

Order No. **14 235** _____

Accessories

Pistol stock

Order No. **14 282** _____

APO-EXTENDER-R

APO-EXTENDER-R

for LEICA R models

(further details on page 2-34)

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtained from the Leica Camera AG Service Center or local LEICA agency: please enquire.

APO-TELYT-R Module-System

2

Photography



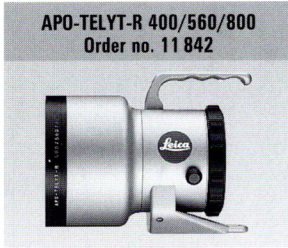
Lens heads APO-TELYT-R
with front and rear
covers, carrying strap

FOCUS MODULES for
LEICA R models
with mechanical and,
additionally for the
LEICA R 8, with electrical
exposure compensation.
With front and rear
covers, filter drawer
with series filters, incl.
S 6 NDx1.

The two lens heads APO-TELYT-R 280/400/560 and APO-TELYT-R 400/560/800 can be randomly combined with the focus modules, factor 1, 1.4 and 2. Each of the six complete APO-TELYT-R lenses are described in detail on the following pages. Advantages regarding

dimensions, weight and price can be achieved by using, for example, two lens heads with one focus module, or one lens head with three focus modules. For your orientation, the single structural elements are listed on the facing page, including the corresponding order numbers.

APO-TELYT-R Module-System



APO-TELYT-R
f/2.8/280 mm
Order no. 11846,
Page 2-22

APO-TELYT-R
f/2.8/400 mm
Order no. 11847,
Page 2-23

FOCUS MODULE 2.8/280/400
Order no. 11 843



Factor 1

APO-TELYT-R
f/4/400 mm
Order no. 11857,
Page 2-24

APO-TELYT-R
f/4/560 mm
Order no. 11848,
Page 2-25

FOCUS MODULE 4/400/560
Order no. 11 844



Factor 1.4

APO-TELYT-R
f/5.6/560 mm
Order no. 11858,
Page 2-26

APO-TELYT-R
f/5.6/800 mm
Order no. 11849,
Page 2-27

FOCUS MODULE-R 5.6/560/800
Order no. 11 845



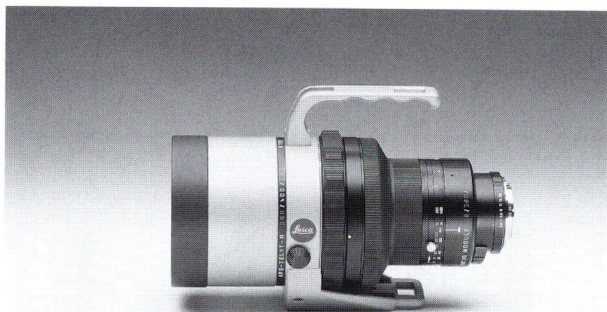
Factor 2



LEICA R lenses

APO-TELYT-R f/2.8/280 mm

consists of lens head
APO-TELYT-R 280/400/560
(Order No. 11 841) and **FOCUS**
MODULE 2.8/280/400
(Order No. 11 843)



APO-TELYT-R f/2.8/280 mm

with front and rear
cover and filter drawer
for series 6, filter ND x 1,
carrying strap

Order no. 11 846 _____

Accessories

Metal case¹⁾

for APO-TELYT-R
280/400/560 lens unit
with random focus
module

Leather case¹⁾

with carrying strap running
around the whole case
for FOCUS MODULE
2.8/280/400

Pistol stock

(for hand-held exposures)

Order no. 14 282 _____

Additional accessories and
replacement see p. 2-35

APO-EXTENDER-R 1.4 x (aperture priority and manual)

with protection covers

Order no. 11 249 _____

APO-EXTENDER-R 2 x (aperture priority and manual)

with protection covers

Order no. 11 269 _____

**High speed tele lens of module
construction with internal
focusing and apochromatic
correction with increased
spectral range (IR range)**

- Angle of view: 8.8°
- Number of elements: 8
(7 components)
- Filter size: Series 6
in filter drawer
- Fully automatic spring
diaphragm
- Aperture preselection
with clickstops (includ-
ing half values)
- Smallest aperture: 22
- Combined meter/feet
scale
- Focusing range: ∞ – 2 m
- Smallest object field:
14.6 x 20.6 cm (1 : 6.1)
- Parallel guided focusing
mount

- LEICA R quick change
bayonet, for LEICA R3 - R8
with mechanical shutter/
aperture balance, and for
LEICA R8 with additional
electronic shutter/aperture
balance
- Lens tube with black
anodized finish, lens unit
with light finish
- Built-in lens hood, exten-
sible, with edge protection
- Carrying handle with
attachments for carrying
strap
- Tripod thread A 1/4, (DIN
4503), rotatable for
upright and horizontal
format, with clickstops
- Front lens diameter:
125 mm
- Length from bayonet:
276 mm
- Weight: 3,700 kg

APO-EXTENDER-R

for LEICA R models

(for further information
see page 2 - 34)

¹⁾ Replacement may be obtainable
from the Leica Camera AG
Service Center or local LEICA
agency: please enquire.

APO-TELYT-R f/2.8/400 mm

consists of lens head
APO-TELYT-R 400/560/800
(Order no. 11 842) and **FOCUS**
MODULE 2.8/280/400
(Order no. 11 843)

APO-TELYT-R f/2.8/400 mm

with front and rear covers and filter drawer for series 6, filter ND x 1, Carrying strap
Order no. **11 847** _____

Accessories

Metal case¹⁾
for APO-TELYT-R
400/560/800
lens unit with
random focus module

Leather case¹⁾
with carrying strap running
around the whole case
for FOCUS MODULE
2.8/280/400

Pistol stock
(for hand-held exposures)
Order no. **14 282** _____
Additional accessories and
replacement see p. 2-35

APO-EXTENDER-R 1.4 x
(aperture priority and manual)
with protection covers
Order no. **11 249** _____

APO-EXTENDER-R 2 x
(aperture priority and
manual)
with protection covers
Order no. **11 269** _____



High speed tele lens of module construction with internal focusing and apochromatic correction with increased spectral range (IR range)

- Angle of view: 6.2°
- Number of elements: 10 (8 components)
- Filte size: Series 6 in filter drawer
- Fully automatic spring diaphragm
- Aperture preselection with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range: ∞ – 3.70 m
- Smallest object field: 20.6 x 31.0 cm (1: 8.5)
- Parallel guided focusing mount
- LEICA R quick change bayonet, for LEICA R 3-R 8 with mechanical shutter/aperture balance, and for LEICA R 8 with additional electronic shutter/aperture balance
- Lens tube with black anodized finish, lens unit with light finish
- Detachable lens hood, with edge protection
- Carrying handle with attachments for carrying strap
- Tripod thread A ¼, (DIN 4503), rotatable for upright and horizontal format, with clickstops
- Front lens diameter: 157 mm
- Length from bayonet flange: 344 mm
- Weight: 5,900 kg

APO-EXTENDER-R for LEICA R models

(for further information
see page 2-34)

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

APO-TELYT-R f/4/400 mm

consists of lens head
APO-TELYT-R 280/400/560
(Order no. 11 841) and **FOCUS**
MODULE 4/400/560
(Order no. 11 844)

APO-TELYT-R f/4/400 mm

with front and rear covers and filter drawer for series 6, filter ND x 1, carrying strap

Order no. 11 857 _____

Accessories

Metal case¹⁾

for APO-TELYT-R 280/400/560 lens unit with random focus module

Leather case¹⁾

with carrying strap running around the whole case for FOCUS MODULE 4/400/560

Pistol stock

(for hand-held exposures)

Order no. 14 282 _____

Additional accessories and replacement see p. 2-35

APO-EXTENDER-R 1.4 x (aperture priority and manual)

with protection covers

Order no. 11 249 _____

APO-EXTENDER-R 2 x (aperture priority and manual)

with protection covers

Order no. 11 269 _____



Tele lens of module construction with internal focusing and apochromatic correction with increased spectral range (IR range)

- Angle of view: 6.2°
 - Number of elements: 9 (7 components)
 - Filter size: Series 6 in filter drawer
 - Fully automatic spring diaphragm
 - Aperture preselection with clickstops (including half values)
 - Smallest aperture: 22
 - Combined meter/feet scale
 - Focusing range: $\infty - 2.15$ m
 - Smallest object field: 10.9 x 16.4 cm (1:4.5)
 - Parallel guided focusing mount
- LEICA R quick change bayonet, for LEICA R 3-R 8 with mechanical shutter/aperture balance, and for LEICA R8 with additional electronic shutter/aperture balance
 - Lens tube with black anodized finish, lens unit with light finish
 - Built-in lens hood, extensible, with edge protection
 - Carrying handle with attachments for carrying strap
 - Tripod thread A 1/4, (DIN 4503), rotatable for upright and horizontal format, with clickstops
 - Front lens diameter: 125 mm
 - Length from bayonet flange: 314 mm
 - Weight: 3,800 kg

APO-EXTENDER-R

for LEICA R models

(for further information see page 2-34)

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

APO-TELYT-R f/4/560 mm

consists of lens head
APO-TELYT-R 400/560/800
(Order no. 11 842) and **FOCUS**
MODULE 4/400/560
(Order no. 11 844)

APO-TELYT-R f/4/560 mm

with front and rear covers and filter drawer for series 6, filter ND x 1, carrying strap
Order no. **11 848** _____

Accessories

Metal case¹⁾
for APO-TELYT-R 400/560/800 lens unit with random focus module

Leather case¹⁾
with carrying strap running around the whole case for FOCUS MODULE 4/400/560

Pistol stock
(for hand-held exposure)
Order no. **14 282** _____
Additional accessories and replacement see p. 2-35

APO-EXTENDER-R 1.4 x
(aperture priority and manual)
with protection covers
Order no. **11 249** _____

APO-EXTENDER-R 2 x
(aperture priority and manual)
with protection covers
Order no. **11 269** _____



Tele lens of module construction with internal focusing and apochromatic correction with increased spectral range (IR range)

- Angle of view: 4.5°
- Number of elements: 11 (8 components)
- Filter size: Series 6 in filter drawer
- Fully automatic spring diaphragm
- Aperture preselection with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range: ∞ – 3.95 m
- Smallest object field: 15.4 x 23.2 cm (1 : 6.5)
- Parallel guided focusing mount
- LEICA R quick change bayonet, for LEICA R 3-R 8 with mechanical shutter/aperture balance, and for LEICA R8 with additional electronic shutter/aperture balance
- Lens tube with black anodized finish, lens unit with light finish
- Detachable lens hood, with edge protection
- Carrying handle with attachments for carrying strap
- Tripod thread A 1/4, (DIN 4503), rotatable for upright and horizontal format, with clickstops
- Front lens diameter: 157 mm
- Length from bayonet flange: 382 mm
- Weight: 6,000 kg

APO-EXTENDER-R

for LEICA R models

(for further information see page 2-34)

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

APO-TELYT-R f/5.6/560 mm

consists of lens head
APO-TELYT-R 280/400/560
(Order no. 11 841) and **FOCUS**
MODULE 5.6/560/800
(Order no. 11 845)

APO-TELYT-R f/5.6/560 mm

with front and rear covers and filter drawer for series 6, filter ND x 1, carrying strap

Order no. 11 858 _____

Accessories

Metal case¹⁾

for APO-TELYT-R 280/400/560 lens unit with random focus module

Leather case¹⁾

with carrying strap running around the whole case for FOCUS MODULE 5.6/560/800

Pistol stock

(for hand-held exposure)

Order no. 14 282 _____

Additional accessories and replacement see p. 2-35

APO-EXTENDER-R 1.4 x (aperture priority and manual)

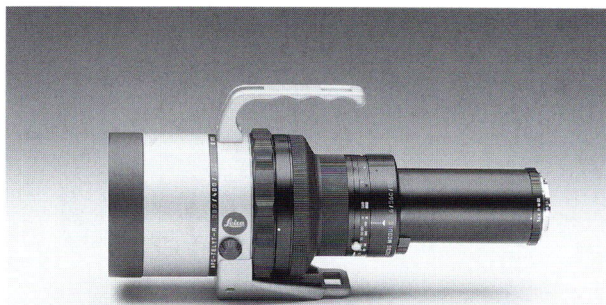
with protection covers

Order no. 11 249 _____

APO-EXTENDER-R 2 x (aperture priority and manual)

with protection covers

Order no. 11 269 _____



Tele lens of module construction with internal focusing and apochromatic correction with increased spectral range (IR range)

- Angle of view: 4,5°
- Number of elements: 9 (7 components)
- Filter size: Series 6 in filter drawer
- Fully automatic spring diaphragm
- Aperture preselection with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range: ∞ - 2.15 m
- Smallest object field: 7.5 x 11.3 cm (1 : 3.1)
- Parallel guided focusing mount
- LEICA R quick change bayonet, for LEICA R 3-R 8 with mechanical shutter/aperture balance, and for LEICA R 8 with additional electronic shutter/aperture balance
- Lens tube with black anodized finish, lens unit with light finish
- Built-in lens hood, extensible, with edge protection
- Carrying handle with attachments for carrying strap
- Tripod thread A 1/4, (DIN 4503), rotatable for upright and horizontal format, with clickstops
- Front lens diameter: 125 mm
- Length from bayonet flange: 374 mm
- Weight: 3,950 kg

APO-EXTENDER-R

for LEICA R models

(for further information see page 2-34)

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

APO-TELYT-R f/5.6/800 mm

*consists of lens head
APO-TELYT-R 400/560/800
(Order no. 11 842) and FOCUS
MODULE 5.6/560/800
(Order no. 11 845)*



Extreme tele lens of module construction with internal focusing and apochromatic correction with increased spectral range (IR range)

- Angle of view: 3.1°
- Number of elements: 11 (8 components)
- Filter size: Series 6 in filter drawer
- Fully automatic spring diaphragm
- Aperture preselection with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range: ∞ - 3.95 m
- Smallest object field: 10.7 x 16 cm (1:4.5)
- Parallel guided focusing mount
- LEICA R quick change bayonet, for LEICA R 3-R 8 with mechanical shutter/aperture balance, and for LEICA R 8 with additional electronic shutter/aperture balance
- Lens tube with black anodized finish, lens unit with light finish
- Detachable lens hood, with edge protection
- Carrying handle with attachments for carrying strap
- Tripod thread A 1/4, (DIN 4503), rotatable for upright and horizontal format, with clickstops
- Front lens diameter: 157 mm
- Length from bayonet flange: 442 mm
- Weight: 6,200 kg

APO-EXTENDER-R

for LEICA R models

(for further information see page 2-34)

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

APO-TELYT-R f/5.6/800 mm

with front and rear covers and filter drawer for series 6, filter ND x 1, carrying strap
Order no. **11 849** _____

Accessories

Metal case¹⁾
for APO-TELYT-R 400/560/800 lens unit with random focus module

Leather case¹⁾
with carrying strap running around the whole case for FOCUS MODULE 5.6/560/800

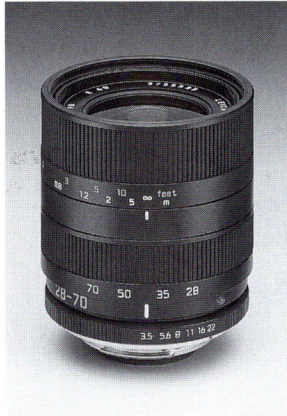
Pistol stock
(for hand-held exposure)
Order no. **14 282** _____
Additional accessories and replacement see p. 2-35

APO-EXTENDER-R 1,4x
(aperture priority and manual)
with protection covers
Order no. **11 249** _____

APO-EXTENDER-R 2 x
(aperture priority and manual)
with protection covers
Order no. **11 269** _____

VARIO-ELMAR-R f/3.5-4.5/28-70 mm

for LEICA R models
(all modes)¹⁾



Lens with variable focal lengths

- Angle of view: 76° to 34°
- Number of elements: 11 (8 components)
- Filter size: E 60
- Internal thread: M 60 x 0.75 mm
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range (setting ring, rubber-armoured): ∞ to 0.5 m
- Smallest object field:
 - 28 mm focal length: 340 mm x 510 mm (13.4 x 20.0 in, approx. 1:14.2)
 - 70 mm focal length: 150 mm x 225 mm (5.9 x 8.8 in, approx. 1:6.3)
- Separate, rubber armoured ring for focal length setting
- LEICA R quick-change bayonet, for LEICA R 3-R 8 with mechanical (and for the R 8 with additional electronic) exposure compensation
- Black anodized finish
- Separate lens hood can also be screwed on backwards
- Lens-cap diameter: 62 mm (2.4 in)
- Diameter: 70 mm (2.7 in)
- Length from bayonet flange: 76 mm (3.0 in, with 70 mm focal length)
- Weight: 0.450 kg

¹⁾ cannot be modified for use on LEICAFLEX models

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

VARIO-ELMAR-R f/3.5-4.5/28-70 mm

in a soft leather case, with front and rear covers, lens hood.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 364** _____

Replacements

Soft leather case²⁾

Front cover

Order No. **14 233** _____

Rear cover

Order No. **14 162** _____

Lens hood

Order No. **12 437** _____

- Angel of view: 64° – 34°
- Number of elements: 11 in 9 components
- Filter size: E 77
- Internal thread: M 77 x 0,75
- Fully automatic spring diaphragm
- Aperture preselection with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range (setting ring, rubber armoured): infinity – 0,70 m
- Smallest object field:
35 mm focal length – approx. 436 x 654 mm (approx. 1:18)
70 mm focal length – approx. 230 x 346 mm (approx. 1:10)
Macro setting – approx. 67 x 101 mm (approx. 1:2.8)
- Separate, rubber armoured ring for focal length
- Parallel guided focusing mount
- Leica R quick change bayonet for Leica R 3-R 8 with mechanical shutter/aperture balance, and, for Leica R8, with additional electronic shutter/aperture balance
- Black anodized finish
- Lens hood: Built-in, telescopic



High speed lens with variable focal length

- Front lens diameter: 88 mm
- Length from bayonet flange: 133 mm
- Largest diameter: 88 mm
- Weight: approx. 1,050 kg

VARIO-ELMARIT-R 1:2,8/35-70 mm ASPH.

*for LEICA R-models
(all modes)*

VARIO-ELMARIT-R f/2.8/35-70 mm ASPH.

In a soft leather case, with lens cap and rear cover.

With mechanical shutter/aperture balance, and for Leica R 8 with additional electronic shutter/aperture balance.

Order No. **11 275** _____

Replacements

Soft leather case¹⁾

Lens cap

Order no. **14 319** _____

Rear cover

Order no. **14 162** _____

Notices:

- Lens hood: built in
- APO-Extender R 1,4x and 2x:
The use is not possible!

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

VARIO-ELMAR-R f/4/35-70 mm

for LEICA R models
(all modes)¹⁾



- Focusing range:
 $\infty - 0.6$ m
Macro setting 0.26 m
- Smallest object field:
35 mm focal length:
350 x 525 mm
(approx. 1 : 14.6)
70 mm focal length:
192 x 288 mm
(approx. 1 : 8)
Macro setting:
67 x 101 mm
(approx. 1 : 2.8)
- Separate, rubber-armoured ring for focal length
- Possibility of use to the APO-EXTENDER-R 2 x (combination = 1 : 8/70-140 mm)
- LEICA R quick change bayonet, for LEICA R 3-R 8 with mechanical shutter/aperture balance, and for LEICA R 8 with additional electronic shutter/aperture balance
- Black anodized finish
- Lens hood, with screw mount from the front and the back side
- Front lens diameter: 62 mm
- Length from bayonet flange: 79 mm
- Weight: 0.505 kg

Lens of variable focal length

- Angle of view: $64^{\circ} - 34^{\circ}$
- Number of elements: 8 (7 components)
- Filter size: E 60
- Internal thread: M 60 x 0.75
- Fully automatic spring diaphragm
- Aperture preselection with clickstops (including half values)
- Smallest aperture: 22
- Combined meter / feet scale

VARIO-ELMAR-R f/4/35-70 mm

In a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order No. **11 277** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 233** _____

Rear cover

Order No. **14 162** _____

Lens hood

Order No. **12 437** _____

Accessory

APO-EXTENDER-R 2 x
in soft leather case with
two protective covers

Order No. **11 269** _____

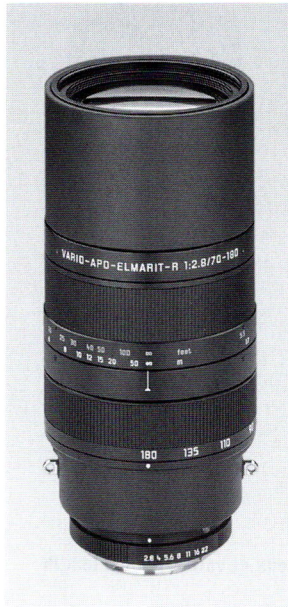
APO-EXTENDER-R for LEICA-R models

(for further information
see page 2-34)

¹⁾ cannot be modified for LEICAFLEX models

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

- Angle of view: 34° – 14°
- Number of elements: 13 (10 components)
- Filter size: E 77
- Internal thread: M 77 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (also half values)
- Minimum aperture: 22
- Combined meter/feet scale
- Focusing range (setting ring, rubber-armoured): ∞ to 1.7 m
- Smallest object field
Focal length 70 mm: 436 x 655 mm (approx. 1:18)
Focal length 180 mm: 175 x 263 mm (approx. 1:7.3)
- Parallel guided focusing mount
- Separate rubber-armoured ring for focal length
- Unlimited use of APO-EXTENDER-R 2 x. Combination = 1 : 5,6/140-360 mm
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical (and for LEICA R 8 with additional electronic) exposure compensation
- Black anodized finish
- Lens hood: built-in, telescopic and rubber armoured



Fast lens with apochromatic correction and variable focal length in the medium telephoto range.

- Eyelets for attaching the carrying strap
- Tripod thread: A 1/4, DIN 4503 (1/4"), tilting for vertical and horizontal pictures, with clickstops and locking mechanism
- Front lens diameter: 88 mm
- Largest diameter: 89 mm
- Height over tripod support: 97.5 mm
- Length from bayonet flange: 189.5 mm
- Weight: 1.870 kg

APO-EXTENDER-R
for LEICA R models
(for further information see page 2-34)

VARIO-APO-ELMARIT-R f/2.8/70-180 mm

for LEICA R models
(all modes)¹⁾

VARIO-APO-ELMARIT-R f/2.8/70-180 mm

in a leather case, with carrying strap, lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order no. **11 279** _____

Replacements

Leather case²⁾

Lens cap

Order no. **14 319** _____

Rear cover

Order no. **14 162** _____

Accessories

Carrying strap

Order no. **14 235** _____

Pistol stock

for free-held exposures

Order no. **14 282** _____

APO-EXTENDER-R 2 x
(with aperture priority and manual modes)

with two protective covers

Order no. **11 269** _____

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

VARIO-ELMAR-R f/4/80-200 mm

for LEICA R models
(all programs)¹⁾



- Aperture setting ring with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet-scale
- Focusing range (Focusing ring rubber-armoured): ∞ to 1.1 m
- Smallest object field: with focal length –
80 mm: 222 x 333 mm (8.7 x 13.1 in, about 1:9.3)
200 mm: 94 x 140 mm (3.7 x 5.5 in, about 1:3.9)
- Parallel guided focusing mount
- Separate rubber-armoured ring for focal length
- LEICA R-quick-change-bayonet
 - for LEICA R 3 to LEICA R 8 with mechanical and (for the LEICA R 8) additionally with electronic exposure compensation
- Black anodized finish
- Lens hood: built-in, telescopic
- Lens-cap diameter: 70 mm (2.8 in)
- Length to bayonet flange: 165 mm (6.5 in)
- Diameter: 71 mm
- Weight: 1,020 g

Lens of variable focal length

- Angle of view: 29° – 12.5°
- Number of elements: 12 (8 components)
- Filter size: E 60
- Internal thread: M 60x0.75
- Fully automatic spring-back diaphragm

VARIO-ELMAR-R 1:4/80-200 mm

in a soft leather case, with lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order no. **11 281** _____

Replacements

Soft leather case²⁾

Lens cap

Order no. **14 290** _____

Rear cover

Order no. **14 162** _____

Accessories

Leather case²⁾

APO-EXTENDER-R 2x
(aperture priority and manual)
in a soft leather case, with two protective covers

Order no. **11 269** _____

APO-EXTENDER-R
for LEICA R models

(for further information see page 2-34)

¹⁾ Modification for additional use on LEICAFLEX models is possible. Please ask the customer service of Leica camera AG for advice

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

VARIO-ELMAR-R f/4.2/105-280 mm

for LEICA R models
(all programs)¹⁾

VARIO-ELMAR-R f/4.2/105-280 mm

in a leather case, with carrying strap, lens cap and rear cover.

With mechanical (and for LEICA R 8 with additional electronic) exposure compensation

Order no. **11 268** _____

Replacements

Leather case³⁾

Carrying strap

Order no. **14 312** _____

Lens front cover

Order no. **14 319** _____

Lens rear cover)

Order no. **14 162** _____

Accessories

Pistol stock

(for free-held exposure)

Order no. **14 282** _____

APO-EXTENDER-R 1.4 x²⁾

(aperture priority and manual)

in a soft, nappa leather case, with two protective covers

Order no. **11 249** _____

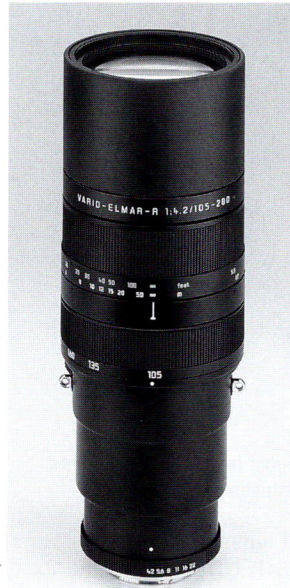
APO-EXTENDER-R 2 x²⁾

(aperture priority and manual)

in a soft, nappa leather case, with two protective covers

Order no. **11 269** _____

- Angle of view: 23.2° – 8.8°
- Number of elements: 13 (10 components)
- Filter size: E 77
- Internal thread: M 77 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range (setting ring, rubber-armoured): ∞ to 1.7 m
- Smallest object field: at focal length 105 mm = 281 x 421 mm (approx. 1:1.7) at focal length 280 mm = 112 x 168 mm (approx. 1:4.7)
- Parallel guided focusing mount
- Separate rubber-armoured ring for focal length
- Unlimited use of APO-EXTENDER-R 1.4 x and 2 x
- LEICA-R quick change bayonet
- for LEICA R3 to LEICA R8 with mechanical (and for the LEICA R 8) additionally with electronic exposure compensation
- Black anodized finish
- Built-in, telescopic, rubber-armored lens hood
- Carrying strap loops



Lens of variable focal length in the mid to long tele-range

- Tripod thread A 1/4, DIN 4503 (1/4"), rotatable for horizontal and vertical format. With click stops and fixing device.
- Lens cap diameter: 88 mm
- Length from bayonet flange: 238 mm
- Height over tripod support: 97.5 mm
- Diameter: 89 mm
- Weight: 1.950 kg

¹⁾ cannot be modified for use with LEICAFLEX models

²⁾ for further information see page 2-34

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lenses

APO- EXTENDER-R 1.4 x *for LEICA R models (aperture priority and manual)¹⁾*

APO-EXTENDER-R 1.4 x
In a soft leather case,
with protective covers

Order No. **11 249** _____

Replacements

Soft leather case²⁾:

Rear cover

(lens rear cover)

Order No. **14 162** _____

Front cover

Order No. **14 252** _____



Focal length extending lens attachment

R lenses with APO-
EXTENDER-R 1.4 and 2x:
Data chart p. 2-40

- Focal length extension: 1.4 x
- For LEICA R lens compatibility: see table on page 2 - 39
- Aperture reduction: 1f-stop
- Number of elements: 5 (4 components)
- Aperture range: f/2.8 to f/22
- Fully automatic spring-back diaphragm
- LEICA R quick change bayonet
- Black anodized finish
- Length from bayonet flange: 36 mm (1.4 in)
- Diameter: 62 mm (2.4 in)
- Weight: 0.220 kg

APO- EXTENDER-R 2 x *for LEICA R models (preferably with aperture priority and manual)¹⁾*

APO-EXTENDER-R 2 x

In a soft leather case,
with protective covers,
with mechanical (and
for LEICA R 8 with addi-
tional electronic) expo-
sure compensation.

Order No. **11 269** _____

Replacements

Soft leather case²⁾

Rear cover

(lens rear cover)

Order No. **14 162** _____

Front cover

(camera body cover)

Order No. **14 103** _____



Focal length extending lens attachment

R lenses with APO-
EXTENDER-R 1.4 and 2x:
Data chart p. 2-40

- Focal length extension: 2 x
- Aperture reduction: 2 f-stops
- Number of elements: 7 (5 components)
- Aperture range: from f/2
- Fully automatic spring-back diaphragm for aperture priority and manual setting of shutter speed and aperture
- Suitable for use with focal lengths of 50 mm and longer
- LEICA R quick change bayonet for LEICA R 3-R 8 with mechanical and for the LEICA R 8, additionally with electronic exposure compensation.
- Black anodized finish
- Length from bayonet flange: 35.4 mm (1.4 in)
- Widest diameter: 70 mm
- Weight: 0.270 kg

¹⁾ cannot be modified for use with LEICAFLEX models

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

Accessories

Pistol stock

for hand-held exposures
(for all R lenses with tripod
mount)

**Pistol Stock**Order no. **14 282** _____Order no. **14 283** _____**Guide plate for pistol stock**

for LEICA-R-,
LEICAFLEX, -SL-, -SL2-
objectifs

Rear coverOrder no. **14 162** _____**Filters / Filterinterfacing**

Screw-in filter	UVa	Circular polarizing	Yellow	Yellow-green	Orange	ND x1	Neutral grey 4 x
E 32 ¹⁾	–	–	*	–	*	–	13 405
E 55	13 373	13 335	–	*	*	–	–
E 60	13 381	13 406	–	*	*	–	–
E 67	13 386	13 407	–	*	*	–	–
E 77	13 337	13 336	–	*	–	–	–
E 112	–	–	–	–	–	–	–

Series filters ²⁾	UVa	Circular polarizing	Yellow	Yellow-green	Orange	ND x1	Filter-(d)rawer/(a)adapter
5,5	–	13 338 ³⁾	–	–	–	13 026 ⁴⁾	(d) 14 591 ⁴⁾
6	–	13 340 ³⁾	*	*	–	13 028 ⁴⁾	(d) 14 592 ⁴⁾
7	–	13 370	–	*	*	–	(a) 14 225
7,5	–	–	–	–	–	–	(a) 14 263
8	13 018	13 372	–	*	–	–	(a) 14 264
8,5	–	–	–	–	–	–	–

¹⁾ Replacement for MR-TELYT-R f/8/500 mm

²⁾ Filter attachment see page 2-39

³⁾ In a filter holder with rotating device. Slides in, in place of the filter drawer

⁴⁾ Replacement

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA R lens	Order no.	A Ø in mm	Lenshood „-“ = built-in	Lenshood cover	Front lens cover	Filter size ¹⁾
2.8/16	11 327	65	-	-	14 089	-
2.8/19	11 329	68	12 546	14 302	14 301	-
2.8/24	11 331	63.7	12 523	-	14 290	Series 8
2.8/28 from no. 3 664 831	11 333	67.5	-	-	14 289	E 55
PC 2.8/28	11 812	70	12 540	-	14 232	67 EW ⁴⁾
1.4/35	11 337	75	-	-	14 291	E 67
2/35 from no. 2 791 417	11 339	63	-	-	14 289	E 55
1.4/50	11 344	68	-	-	14 290	E 60
2/50 from no. 2 777 651	11 345	63	-	-	14 289	E 55
2.8/60 from no. 3 013 651	11 347	63	-	-	14 289	E 55
1.4/80	11 349	75	-	-	14 291	E 67
2.8/100	11 352	68	-	-	14 290	E 60
2/180	11 354	116	-	-	14 298	S 6 + E 100
2.8/180	11 273	76	-	-	14 291	E 67
4/280	11 360	90	-	-	14 319	S 5.5 + E 77
2.8/280 (Module-System)	11 846	125	-	-	14 012	S 6
2.8/400 (Module-System)	11 847	157	12 590	-	14 086	S 6
4/400 (Module-System)	11 857	125	-	-	14 012	S 6
4/560 (Module-System)	11 848	157	12 590	-	14 086	S 6
5.6/560 (Module-System)	11 858	125	-	-	14 012	S 6
5.6/800 (Module-System)	11 849	157	12 590	-	14 086	S 6
3.5-4.5/28-70	11 364	62	12 437	-	14 233	E 60
2.8/35-70	11 275	88	-	-	14 319	E 77
4/35-70	11 277	62	12 437	-	14 233	E 60
2.8/70-180	11 279	88	-	-	14 319	E 77
4/80-200	11 281	70	-	-	14 290	E 60
4.2/105-280	11 268	88	-	-	14 319	E 77

Rear coverOrder no. **14 224** _____for lens heads
APO-TELYT-R**Front cover**Order no. **14 223** _____

for Focus-Modules

¹⁾ Filter see chart on page 2-39²⁾ Instead of the recommended

screw-in filter, it is also possible to use series filters that are held to the lens with an adapter.

³⁾ Also see page 3-4

Drawer ²⁾ for series filter (L)enshood serves as adapter	ELPRO ³⁾ near focusing attachments	Leather cases: SLC = soft leather case ⁶⁾ LCA = leather case ⁶⁾ LCO = leather cover CAS = case ⁵⁾	Carrying straps ⁶⁾	A Ø in mm	Order- No.	LEICA R lens
-	-	*	-	65	11 327	2.8/16
-	-	*	-	68	11 329	2.8/19
(L)	-	*	-	63.7	11 331	2.8/24
-	-	*	-	67.5	11 333	2.8/28 from no. 3 664 831
-	-	*	-	70	11 812	PC 2.8/28
*	-	*	-	75	11 337	1.4/35
*	-	*	-	63	11 339	2/35 from no. 2 791 417
-	-	*	-	68	11 344	1.4/50
*	16 541/-42	*	-	63	11 345	2/50 from no. 2 777 651
*	-	*	-	63	11 347	2.8/60 from no. 3 013 651
*	-	*	-	75	11 349	1.4/80
*	16 545	*	-	68	11 352	2.8/100
(D) 14 592 S6	-	*	14 235	116	11 354	2/180
-	-	*	-	76	11 273	2.8/180
(D) 14 591 S5.5	-	*	14 235	90	11 360	4/280
14 592	-	*	14 311 ⁷⁾	125	11 846	2.8/280 (Module-System)
14 592	-	*	14 311 ⁷⁾	157	11 847	2.8/400 (Module-System)
14 592	-	*	14 311 ⁷⁾	125	11 857	4/400 (Module-System)
14 592	-	*	14 311 ⁷⁾	157	11 848	4/560 (Module-System)
14 592	-	*	14 311 ⁷⁾	125	11 858	5.6/560 (Module-System)
14 592	-	*	14 311 ⁷⁾	157	11 849	5.6/800 (Module-System)
-	-	*	-	62	11 364	3.5-4.5/28-70
-	-	*	-	88	11 275	2.8/35-70
-	-	*	-	62	11 277	4/35-70
-	-	*	14 235	88	11 279	2.8/70 - 180
-	-	*	-	70	11 281	4/80 - 200
-	-	*	14 312	88	11 268	4.2/105 - 280

Leather case⁸⁾

with carrying strap running around the whole case
 for FOCUS-MODULE 2.8/280/400
 for FOCUS-MODULE 4/400/560
 for FOCUS-MODULE 5.6/560/800

4) Filter glass Ø 74 mm for special wide-angle holder with diaphragm and pol. filter 67 EW; available from B + W.
 5) different version depending on lens
 6) Replacement
 7) Replacement, suitable for both the lens and the case
 8) Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

Accessories

Telescope Ocular LEICA TO-R for LEICA R lenses



LEICA TO-R

with protective covers
and nappa leather case

Order No. **14 234** _____

Adapter for use with
VISOFLEX, VISOFLEX
2 and 3 lenses

Order No. **14 167** _____

Soft leather case¹⁾

Lens tube cover

Order No. **14 103** _____

Eyepiece protective cover

Order No. **14 678** _____

R-lens accessory for
observation

- Number of elements: 3
(2 components)
- Ocular focal length:
12.5 mm
- Ocular magnification:
20x
- Roof prism system:
Schmidt-Pechan
- Diopter correction:
 ± 3 diopters
- Exit pupil diameter:
dependent on the set
lens aperture and the
limitation of the prism
system: maximum dia-
meter 3.78 mm
- Exit pupil diameter:
12.7 mm (slight limitation
for eyeglass wearers)
- Diameter of the field of
view opening: 12 mm
- Fold-down rubber eye-
cups
- Black anodized metal
housing
- LEICA R quick-change
bayonet
- Overall length: 57 mm
(2.2 in) (50 mm with
rubber eyecups folded
down)
- Diameter: 62 mm (2.4 in)
- Weight: 0.136 kg
(approx. 4.8 oz.)
- Lens table on page 2-39

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

Accessories

*LEICA R lens
Data in Conjunction
with the
LEICA TO-R*

LEICA R lenses	Telescope ¹⁾ Magnification x Lens Diameter (mm)	Exit Pupil (mm)	Twilight Factor	Field of View at 1000 m
SUMMILUX-R f/1.4/50 mm SUMMICRON-R f/2/50 mm	4 x 15	3.8	7.8	240 m
MACRO-ELMARIT-R f/2.8/60 mm	4.8 x 18	3.8	9.3	200 m
SUMMILUX-R f/1.4/80 mm	6.4 x 24	3.8	12.5	150 m
APO-MACRO-ELMARIT-R f/2.8/100 mm	8 x 30	3.8	15.5	120 m
APO-SUMMICRON-R f/2/180 mm APO-ELMARIT-R f/2.8/180 mm	14.5 x 55	3.8	28	67 m
APO-TELYT-R f/2.8/280 mm	22.5 x 85	3.9	44	43 m
APO-TELYT-R f/2.8/400 mm	32 x 120	3.8	62	30 m
APO-TELYT-R f/4/400 mm	32 x 100	3.1	57	30 m
APO-TELYT-R f/4/560 mm	45 x 140	3.1	79	21 m
APO-TELYT-R f/5.6/560 mm	45 x 100	2.2	67	21 m
APO-TELYT-R f/5.6/800 mm	64 x 143	2.2	96	15 m
VARIO-ELMAR-R f/3.5-4.5/28-70 mm	2.2 x 8 - 5.6 x 15.5	3.6 - 2.8	4.2 - 9.3	430 - 171 m
VARIO-ELMAR-R f/2.8/35-70 mm	2.8 x 11 - 5.6 x 21	3.8	5.5 - 10.8	343 - 171 m
VARIO-ELMAR-R f/4/35-70 mm	2.8 x 8.8 - 5.6 x 17.5	3.1	5 - 10	343 - 171 m
VARIO-APO-ELMARIT-R f/2.8/70-180 mm	5.6 x 21 - 14.4 x 54.5	3.8	10.9 - 28	171 - 67 m
VARIO-ELMAR-R f/4/80 - 200 mm	6.4 x 20 - 16 x 50	3.1	11.3 - 28.3	150 - 60 m
VARIO-ELMAR-R f/4.2/105 - 280 mm	8.4 x 25 - 22.4 x 66.5	3.0	14.5 - 38.7	80 - 43 m

¹⁾ Widest usable aperture opening with high-speed lenses: f/3.3

All values rounded-off.

LEICA R lenses

**LEICA R lens
data when used in
conjunction with
APO-EXTENDER-R 2x
APO-EXTENDER-R 1.4x**

2

Photography

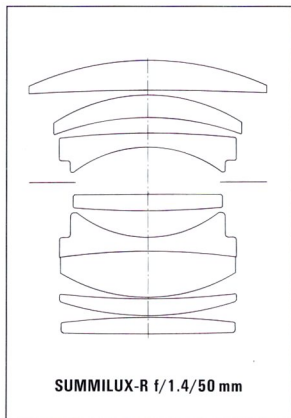
Compatible LEICA R lenses	With APO- EXTENDER-R 2x	With APO- EXTENDER-R 1.4x
f/2/50 mm	f/4/100 mm	–
f/2.8/60 mm	f/5.6/120 mm	–
f/2.8/100 mm APO	f/5.6/200 mm APO	–
f/2/180 mm APO	f/4/360 mm APO	f/2.8/250 mm APO ¹⁾
f/2.8/180 mm APO	f/5.6/360 mm	–
f/2.8/280 mm APO	f/5.6/560 mm APO	f/4/400 mm APO
f/4/280 mm APO	f/8/560 mm APO	f/5.6/400 mm APO
f/2.8/400 mm APO	f/5.6/800 mm APO	f/4/560 mm APO
f/4/400 mm APO	f/8/800 mm APO	f/5.6/560 mm APO
f/4/560 mm APO	f/8/1100 mm APO	f/5.6/800 mm APO
f/5.6/560 mm APO	f/11/1100 mm APO	f/8/800 mm APO
f/5.6/800 mm APO	f/11/1600 mm APO	f/8/1120 mm APO
f/4/35 - 70 mm	f/8/70 - 140 mm	–
f/2.8/70 - 180 mm APO	f/5.6/140 - 360 mm APO	–
f/4/80 - 200 mm	f/8/160 - 400 mm	–
f/4.2/105 - 280 mm	f/8.4/210 - 560 mm	f/5.9/150 - 400 mm

¹⁾ Since the APO-Extender-R 1.4x is constructed for lenses from speed f/2.8, the SUMMICRON-R f/2/180 mm must be stopped down 1-2 steps.

SUMMILUX-R
f/1.4/50 mm

Ultra high-speed lens

*for LEICA R models
(all modes)*



SUMMILUX-R f/1.4/50 mm



The standard focal length with high speed f/1.4/50 mm still has a significant place in the LEICA R system. The lens' angle of view is very similar to that of the human eye and, especially in poor light conditions, enables additional interesting possibilities. Nevertheless, the lens is compact and relatively light. The image quality is outstanding, whether used for landscape or architectural photography, for snapshots or still life.

Leica Camera AG redesigned the SUMMILUX-R f/1.4/50 mm and the optical performance of this new lens surpasses that of the previous model considerably. The new SUMMILUX-R f/1.4/50 mm is a very compact and handy lens, well suited for reporter photography. In the entire setting range, extraordinarily good, high contrasting image performance is achieved for a high speed lens. There-

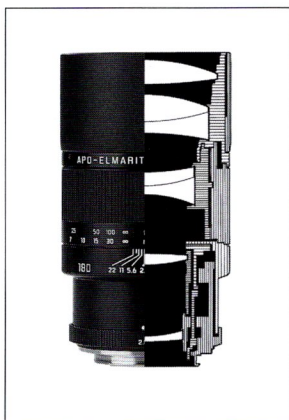
fore, even the open aperture f/1.4 is a working aperture that can be used without restriction and which offers additional creative possibilities through limitation of the depth of field. By stopping down 1 or 2 steps the contrast of the entire image field is increased even more.

The lens is virtually free of astigmatism, and the tendency towards coma has been reduced considerably in relation to the predecessor model. From aperture 2.8, the level of coma is already very low and is only visible in the corners of the image. At apertures of 4 or 5.6 and smaller, the lens is entirely free of coma. The complete redesign addressed not only the optical system but also the lens mechanism. With its elegant appearance, the new lens is a perfect match for the range of modern LEICA R lenses. It rests comfortably in the

hand, and it's operation is superb. Its extensible lens hood, which is perfectly adapted to the lens, ensures effective protection against dirt and damage and, most importantly, it prevents flare. Thanks to it's special coating (multi-coating), the new Leica lens is well protected against reflections and stray light. However, in critical situations such as light sources just outside the image field, this phenomena cannot always be entirely avoided, it is therefore recommend to use the lens hood at all times. The larger diameter of the mount contributes to a major reduction in vignetting. The new lens takes the larger E 60 filters. Colour rendition of the lens is neutral and therefore perfectly matches the range of Leica lenses.

The SUMMILUX-R f/1.4/50 mm is equipped with a parallel guided focusing mount, which is particularly important when the E 60 circular polarising filter is used. Polarising filters not only eliminate reflections, but can also be used as an interesting and effective means of increasing contrast.

With its improved performance, the new SUMMILUX-R f/1.4/50 mm adds new value to the range of standard focal lengths in the R system and provides a new impulse to use the advantages and superior features of this lens.



APO-ELMARIT-R **f/2.8/180 mm**

*High-speed telephoto lens
with apochromatic
correction for extended
spectral range*

*for LEICA R models
(all modes)*

The focal length of 180 mm is of particular photographic importance in the LEICA R system. The APO-TELYT-R f/3.4/180 mm introduced this focal length to the LEICA range of high-performance lenses, and has since earned itself a formidable reputation. With the ELMARIT-R f/2.8/180 mm introduced several years ago, Leica succeeded in producing an ultra-fast high-performance lens which is nevertheless very compact and easy to use.

Leica has now combined the special features and the excellent qualities of these two lenses in the new LEICA APO-ELMARIT-R f/2.8/180 mm, which replaces the two previous 180 mm lenses in the LEICA R lens range, the ELMARIT-R f/2.8/180 mm and the APO-TELYT-R f/3.4/180 mm.

Like its predecessors, the LEICA APO-ELMARIT-R

f/2.8/180 mm excels not only through its superb image quality, but also through its high functionality and convenient handling. Its design is based largely on that of the ELMARIT-R f/2.8/180 mm and was even slightly improved to make it more ergonomic. Thanks to its length to bayonet flange of 132 mm and its front lens diameter of 76 mm, the lens has an elegant, even slim appearance. It is particularly suited for hand-held exposures, as it is convenient to hold and enables the photographer to shoot without tiring.

The general optical performance of the new APO lens is praised by even the most demanding photographers. Even at full aperture its image quality is exceptionally good, and there is no need to stop down. Contrast and resolution are superb on the optical axis and throughout the entire image field.

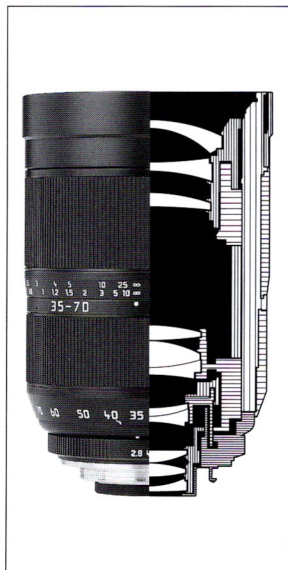
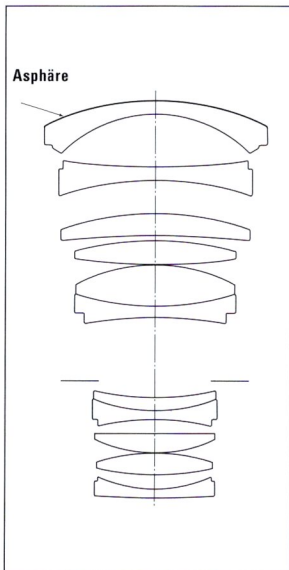
High speed lenses with long focal lengths and the highest in image quality call for apochromatic correction. Apochromatic correction is the elimination of residual errors in the so-called secondary spectrum present in the optical system. These errors are particularly evident in telephoto lenses. Shortwave blue light is refracted more sharply than light at longer wavelengths (dispersion). This phenomenon causes colour fringes which reduce contrast. The apochromatic correction counter-balances this tendency by bundling the entire spectrum in a limited range. The measures that Leica took to eliminate this residual error makes the APO-ELMARIT-R f/2.8/180 mm one of the top lenses in its class.

The image quality of the LEICA APO-ELMARIT-R f/2.8/180 mm at infinity is distinguished by the virtual absence of coma, astigmatism and field curvature. Stopping down to eliminate these residual errors is therefore not necessary. In the close range, which with this lens extends down to 1.5 m, the exceptional performance is retained almost in full.

The level of pincushion distortion (approx. 1%) is extremely low and hardly visible in the picture. Vignetting (a decrease of light towards the edges) is virtually insignificant in practice, and from apertures of 4 or 5.6 and smaller, the lens is entirely free of artificial vignetting.

The APO-ELMARIT-R f/2.8/180 mm is also equipped with internal focusing. Thus, throughout the entire focusing range, only the elements in the interior of the lens move. The length of the lens therefore remains constant during refocusing, and the equipment rests conveniently in the user's hand. The extensible lens hood has rubber rim guards enabling the photographer to place the lens on a surface without risk of damage. Use of the APO-EXTENDER-R 2x produces an optical system with the data f/5.6/360 mm. The superb image quality remains largely unchanged when this 2x converter combination is employed.

The APO-ELMARIT-R f/2.8/180 mm offers serious LEICA photographers a fast high-performance telephoto lens which can be used for portraits, fashion, sports or landscape photography and which meets highest demands even in difficult conditions.



VARIO-ELMARIT-R f/2.8/35-70 mm ASPH.

for LEICA R-models
(all modes)

New "High-End" Lens in the LEICA R Assortment

The new VARIO-ELMARIT-R f/2.8/35-70 mm ASPH. is a high performance lens from Leica with a constant high speed of f/2.8 throughout the entire focal length range. It covers the range from light wide-angle to short tele and is equally suited to both the ambitious amateur and the demanding professional photographer. The bright viewfinder image of the camera, caused by the high speed, enables photography even in bad light conditions. The very short close-focusing distance of 70 m throughout the entire focal length range offers additional creative possibilities. Another interesting application is made possible with the built-in macro-setting.

With a distance of just 30 cm to the subject, an image ratio of up to 1:2.8 can be achieved.

Operation

The operating elements of the VARIO-ELMARIT-R f/2.8/35-70 cm ASPH. are arranged for comfortable and practical handling. The front ring of this two-ring zooms is for setting the range and the one behind is for setting the focal length. Due to the wide, rubber-armored and knurled design, both rings can be operated easily and confidently – in extreme temperature conditions and even while LEICA, the correct aperture can be set from 2.8 to 22, in half values as well.

The lens has a built-in, lens hood which shields against reflections or

interfering, contrast-reducing light incidence. The front group is parallel-guided, so that filters (especially polarizing filters – E 77) can be used without restriction.

Optical and Mechanical Precision

The heart of the new high-light is a polished optical system in connection with a new type of precision mechanics. The lens consists of 11 lens elements in 9 groups. Five of these elements are made of glass with high anomalous partial dispersion (for correction of color error) and four elements are of glass with an extremely high refraction index. Additionally, the lens has a Leica ground and polished aspherical element. All lens surfaces have an anti-reflex coating so that reflections and stray light can be reduced as much as possible.

Already at open aperture, the LEICA VARIO-ELMARIT-R f/2.8/35-70 mm ASPH. shows high image performance over the entire field and throughout the complete focal length range. Contrast and resolution can be improved just slightly by stopping down. Rest image errors are hardly existent. In the tele range (70 mm) the image performance nearly measures up to an apochromatic corrected

system. Throughout the entire setting range, distortion and vignetting are slight.

When focusing and changing the focal length by shifting the lens groups, a distinct smoothness can be noticed immediately. A new type of linear guide is responsible for the velvety-smooth mobility of the whole system. This enables the high accuracy and fast-focusing as well as centering precision.

Compatibility

The VARIO-ELMARIT-R f/2.8/35-70 mm ASPH. can be used on all LEICA R models, from R 3 to R 8. All operating modes can be used without restriction. The additional contact ledge in the bayonet is for the transfer of electronic data and signals in connection with the LEICA R 8. The use of a APO-EXTENDER-R 2x or APO-EXTENDER-R 1.4x is not possible.

Conclusion

The new VARIO-ELMARIT-R f/2.8/35-70 mm ASPH. provides the committed LEICA photographer with yet another high performance lens which complements the "High-End" range sensibly. It is suited for many application fields including reportage, landscape, architecture or macro photography. Combined with the

VARIO-ELMARIT-R f/2.8/70-180 mm a focal range from 35 mm to 180 mm can be covered with two excellent LEICA lenses.

LEICA R Close-Focus

*Product Range,
Specifications and
Technical Data*

ELPRO close-focus attachments for LEICA R lenses _____	3-3
MACRO-ADAPTER-R _____	3-5
Focusing Bellows-R BR 2 _____	3-6
PHOTOR Lenses for the Focusing Bellows-R BR 2 _____	3-7
R-lenses on the Focusing Bellows-R BR 2 _____	3-8
Angle viewfinder _____	3-9

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



Close-Focus Equipment for the LEICA R System ELPRO close- focus attachments

for LEICA R lenses

ELPRO close-focus attachments (achromatic)

Order No.

ELPRO 1 **16 541** _____

ELPRO 2 **16 542** _____

ELPRO 3 ¹⁾

ELPRO 4 ¹⁾

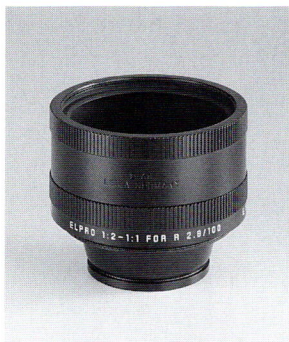
Leather case

for one close-focus
attachment

Order No. **14 553** _____

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 (1.8 in)
- Length during exposure:
56 mm (2.2 in)
- When screwed in,
extends the lens by
approx. 36 mm (1.4 in)
- Diameter: 68 mm (2.7 in)
- Weight: 0.190 kg



ELPRO 1:2-1:1

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

ELPRO 1:2-1:1

in a soft leather case
with lens hood, front
and rear cover

Order No. **16 545** _____

Lens hood

(replacement)

Order No. 12 528 _____

Front cover

(replacement)

Order No. 14 290 _____

Rear cover

(replacement)

Order No. 14 251 _____

Soft leather case¹⁾

(replacement)

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center: please enquire.

Close-Focus Equipment for the LEICA R System

Lens	ELPRO	Distance scale at	Distance in cm		Object field in mm	Repro- duction scale ratio
	Order No.		Object to film	Object to front lens		
SUMMICRON-R f/2/50 mm from Serial 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
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

All values rounded off.

3

Photography

¹⁾ ELPRO near-focusing attachments for earlier LEICA R lenses see page 11-6.

For LEICA R lenses with fully automatic spring-back diaphragm transfer for aperture priority and manual setting of shutter speed and aperture. Suited for mechanical - and, with the LEICA R 8, for electronic - exposure compensation. Lenses with the LEICAFLEX 1, SL-1 and SL-2 light meter actuating cams can not be used. Please contact the Leica Service department regarding a possible conversion.

- Length from bayonet flange: 30 mm (1.7 in)
- Diameter: 70 mm (2.8 in)
- Weight: 0.130 kg



Close-Focus Equipment for the LEICA R System MACRO- ADAPTER-R

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

MACRO-ADAPTER-R

Order No. **14 299** _____

Covers for the
Macro-Adapter-R:

Front cover

(= camera body cover)

Order No. **14 103** _____

Rear cover

(= rear lens cover)

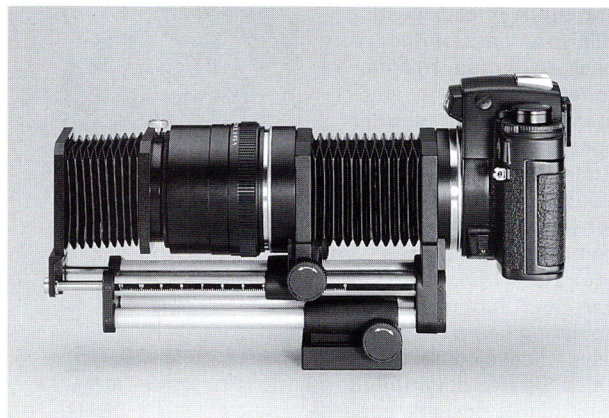
Order No. **14 162** _____

Lens	Distance scale at (m or repro- duction scale)	Distance Object to front lens in cm	Repro- duction scale ratio	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
APO-ELMARIT-R f/2.8/180 mm	∞ 1.5	126.3 69.8	1 : 5.9 1 : 3.0	142 x 212 72 x 108

All values rounded off.

Close-Focus Equipment for the LEICA R System Focusing Bellows-R BR 2

*for all LEICA R models
(aperture priority and
manual)*



Variable extension for continuous adjustment of the reproduction ratio.

- Camera connection: LEICA R-bayonet
 - Lens connection: LEICA R-bayonet (Special PHOTAR lenses via adapter ring, Order No. 14 259)
 - Automatic spring-back diaphragm
 - Usable camera programs:
 - manual setting of shutter speed and aperture
 - aperture priority
 - Shortest bellows extension (basic setting): 54 mm (2.1 in)
 - Longest bellows extension: 164 mm (6.5 in)
 - Variable extension drive: 110 mm (4.3 in)
 - Millimeter scale for extension drive
 - Focusing rack: integrated
- Compendium: attachable for stray light protection
 - Tripod thread: A $\frac{1}{4}$ and A $\frac{3}{8}$ (DIN 4503, $\frac{1}{4}$ " and $\frac{3}{8}$ "')
 - Weight: 570 g (without compendium) 650 g (with compendium)

Focusing Bellows-R BR 2

with compendium,
compendium connecting
ring, front and rear caps

Order No. **16 880** _____

Universal Handgrip with
shoulder stock for hand-
held photography with
the Focusing Bellows-R
BR 2 (see page 1-15)

Order No. **14 239** _____

Close-Focus Equipment for the LEICA R System PHOTAR Lenses for the Focusing Bellows-R BR 2

Special lenses which can
be used with the Focusing
Bellows-R BR 2



PHOTAR adapter to
attach PHOTAR lenses
(thread: W 0.8" x 1/36")
onto the Focusing
Bellows-R BR 2

Order No. **14 259** _____

Photography

3

Lens	Smallest aperture	Reproduction ratio	Distance object to front lens element (in cm)	Order No.
PHOTAR f/2.4/12.5 mm	5.6	8.5 : 1 – 17.5 : 1	0.9 – 0.8	549 025
PHOTAR f/2/25 mm	11	3.5 : 1 – 7.5 : 1	2.0 – 1.5	549 026
PHOTAR f/4/50 mm	22	1.4 : 1 – 3.4 : 1	8.1 – 6.0	549 027

All values rounded off.

**Close-Focus
Equipment for the
LEICA R System
Combination
possibilities with
LEICA R-lenses
on the Focusing
Bellows-R BR 2**

3

Photography

Lens	Reproduction ratio	Distance: object – front lens element in cm	Object field in mm
SUMMICRON-R f/2/50 mm	1 : 1 – 3.2 : 1	6.0 – 2.4	24 x 36 – 7.5 x 11.3
MACRO-ELMARIT-R f/2.8/60 mm	1 : 1.2 – 3.2 : 1	7.2 – 2.2	29 x 43 – 7.5 x 11.3
APO-ELMARIT-R f/2.8/180 mm	1 : 3.3 – 1.2 : 1	80 – 35.9	79 x 119 – 20 x 30

All values rounded off.

LEICA M-lenses can be used in the extreme close-up range with adapter No. 14 167.

For viewing from above and for photography "round the corner" or above the heads of a crowd.



Close-Focus Equipment for the LEICA R System Angle Viewfinder R

*for LEICA R models /
LEICAFLEX SL2
models with 1 x and 2 x
magnification*

Angle viewfinder R

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

Order No. **14 300** _____
(see also page 1 - 7)



M6 LEICA APO-SUMMICRON-M 1:2/90 ASPH f:2,0
Kodak-Ektachrome 100 EC



LEICA M Models

<i>Product Range</i>	LEICA M 6 TTL _____	4- 3
	Accessories for LEICA M models _____	4- 4
	Correction lenses	
	Cases	
	Table-top tripod	
	Ball-and-socket head	
	Other accessories	
	LEICA SF 20 System flash unit _____	4- 7
	LEICA MOTOR M _____	4- 8
<i>Specifications and Technical Data</i>	LEICA M 6 _____	4-10
	LEICA SF 20 System flash unit _____	4-13
	LEICA MOTOR M _____	4-14

LEICA M 6 TTL

35 mm rangefinder system camera



Selective exposure metering and center-weighted flash exposure metering through the lens (TTL). Soft shutter release, shutter action is silent with little vibration. Interchangeable lenses from 21 to 135 mm focal length. Bright and high contrasting rangefinder with automatic parallax compensation and bright-line frames for the focal lengths 28¹⁾ and 90 mm, 35 and 135 mm²⁾, 50 and 75 mm, split-image and coincident-image rangefinder. Exposure meter display via light balance with two triangular and one round LED.

Detailed description on page 4-10.

¹⁾ 28 mm lenses from Serial No. 2 411001, not with LEICA M 6 TTL 0.85 with higher viewfinder magnification.
²⁾ not with LEICA M 6 TTL 0.58
³⁾ 3 V (2 silver oxide button cells 1.5 V or 1 lithium cell 3 V, Ø 11.6 mm)

Use of earlier LEICA M lenses

All LEICA M lenses can be used without restriction, but the following are unsuitable for exposure measurement:
 HOLOGON f/8/15 mm,
 SUPER-ANGULON-M f/4/21 mm,
 SUPER-ANGULON-M f/3.4/21 mm,
 ELMARIT-M f/2.8/28 mm to Serial No. 2 314 920.

LEICA M 6 TTL 0.58

(with lower viewfinder magnification)
black chrome finish
 complete with camera body cap, carrying strap and batteries³⁾
 Order No. **10 475** _____

LEICA M 6 TTL 0.58

(with lower viewfinder magnification)
silver chrome finish
 complete with camera body cap, carrying strap and batteries³⁾
 Order No. **10 474** _____

LEICA M 6 TTL

black chrome finish
 complete with camera body cap, carrying strap and batteries³⁾
 Order No. **10 433** _____

LEICA M 6 TTL

silver chrome finish
 complete with camera body cap, carrying strap and batteries³⁾
 Order No. **10 434** _____

LEICA M 6 TTL 0.85

with higher viewfinder magnification
black chrome finish
 complete with camera body cap, carrying strap and batteries³⁾
 Order No. **10 436** _____

LEICA M 6 TTL 0.85

silver chrome finish
 complete with camera body cap, carrying strap and batteries³⁾
 Order No. **10 466** _____

4
Photography

Accessories

Correction lenses M

	Order No.
+ 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 _____

Correction lenses M

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

Camera body cap

Order No. 14 195 _____

Camera body cap

M-bayonet (replacement)

Flash socket cover

Order No. 14 348 _____

Flash socket cover

for LEICA M 6 TTL \neq models (replacement)

Ever ready cases for LEICA M 6 TTL, M 6²⁾

Ever ready case
with standard front
Order no. 14 870 _____



Ever ready care M

Ever ready cases M

black nappa leather case with standard front for LEICA M 6 TTL, M 6 and one of the following lenses: f/2.8/21 mm¹⁾, f/2.8/24 mm¹⁾, f/2.8/28 mm¹⁾, f/1.4/35 mm¹⁾, f/2/35 mm²⁾, f/1.4/50 mm, f/2/50 mm, f/2.8/50 mm²⁾

Ever ready case
with large front
Order no. 14 871 _____



Ever ready care M

Ever ready cases M

black nappa leather case with large front for LEICA M 6 TTL, M 6 and one of the following lenses: f/2.8/21 mm²⁾, f/2.8/24 mm²⁾, f/2.8/28 mm²⁾, f/1.4/35 mm²⁾, f/1/50 mm, f/4/28-35-50 mm¹⁾.

Nappa leather case M

Order no. 14 522 _____

Wrist strap (replacement)

Order no. 14 406 _____

Nappa leather case M

black, for LEICA M with ELMAR-M 2.8/50 mm¹⁾ (collapsed), with camera wrist strap

Wrist strap for

LEICA M (replacement)

¹⁾ without mounted lens hood

²⁾ with mounted lens hood

³⁾ without MOTOR or WINDER M

Accessories

Small combination bag M

for LEICA M 6 TTL without MOTOR and WINDER M or Lens Carrier-M (suitable for all M models without LEICAMETER, except for LEICA M 5) to hold:
1 LEICA M 6 TTL with lens attached, 1 LEICA M 6 TTL camera body, and up to 2 other lenses.

Bag (external dimensions approx. 22 x 11 x 18 cm, 8 x 4 x 7 in) with

- adjustable carrying strap with anti-slip pad
- front compartment for accessories



Small combination bag M (compact version)

Small combination bag M

black leather

Order No. **14 845** _____

Large combination bag M

for LEICA M 6 TTL with or without MOTOR and WINDER M or Lens Carrier-M (suitable for all M models without LEICAMETER, except for LEICA M 5) to hold: 1 LEICA M 6 TTL with or without MOTOR and WINDER M or Lens Carrier-M, with lens attached and up to 4 other lenses.

Bag (external dimensions approx. 25 x 14 x 19 cm, 10 x 5 1/2 x 7 1/2 in) with

- adjustable carrying strap with anti-slip pad
- front compartment for accessories



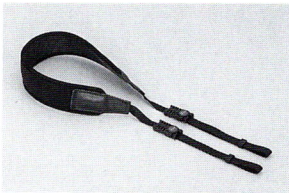
Large combination bag M (standard version)

Large combination bag M

in black leather

Order No. **14 842** _____

Carrying straps



Neoprene carrying strap

Carrying strap with anti-slip pad (replacement)

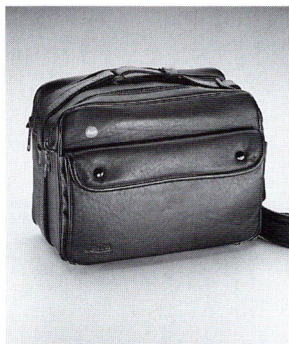
Order No. **14 312** _____

Neoprene carrying strap

Order No. **42 162** _____

Accessories

Universal bag M



Universal bag M

for LEICA M with or without MOTOR and WINDER M or Lens Carrier-M (suitable for all M models apart from LEICA M 5, with LEICAMETER) to hold:
1 LEICA M with or without MOTOR and WINDER M or Lens Carrier-M or LEICA-METER attached, with lens attached, as well as up to 4 other lenses.

Bag (external dimensions approx. 31x18x23 cm, 12 x 7 x 9 in) with

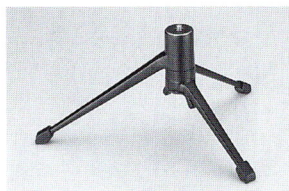
- adjustable carrying strap with anti-slip pad
- front compartment for accessories

Universal bag M

in black leather

Order No. **14 827** _____

Tabletop tripod



Tabletop tripod

with three foldings legs, tripod thread A 1/4, DIN 4503 (1/4 in)

Order No. **14 100** _____

Ball-and-socket head



Ball-and-socket head

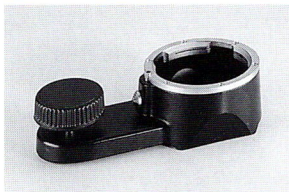
with tripod thread A 1/4, DIN 4503 (1/4 in)

Order No. **14 110** _____

Accessories

Lens carrier-M

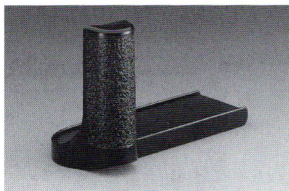
Fitted to the baseplate of the camera; enables you to carry a handy equipment set including two lenses.



Order No. **14 404** _____

Hand grip M

for sure and comfortable handling of all LEICA M cameras. Except for LEICA M 5. With centered tripod thread.



Order No. **14 405** _____

Cable release

for all camera models with conical thread

25 cm length,

with arresting screw

50 cm length,

with arresting screw

Cable release

Order No. **14 067** _____

Order No. **14 076** _____

Compact electron flash unit in an elegant Leica design. Illuminated display. Performance guide number 20. Exposure can be adjusted in +/- 3 aperture steps. Lithium battery for fast flash action. Illumination angle for 35 mm lenses, 24 mm with diffuser screen.

Camera adaptation:

TTL flash exposure metering with LEICA M6 TTL and LEICA R8. Automatic mode for all other LEICA M- and R-cameras with center contact. Operation with other cameras without center contact is possible with the help of a commercially available flash adapter cable/center contact.



LEICA SF 20 System Flash Unit

Detailed description on page 4-13.

LEICA SF 20

Order No. **14 414** _____

Diffuser screen 24 mm
for LEICA SF 20
(replacement)

Order No. **14 417** _____

LEICA M Models

Accessories

LEICA MOTOR M
for LEICA M 6 TTL
LEICA M 6
LEICA M 4-P
LEICA M 4-2



4

Photography

LEICA MOTOR M

Order No. **14 408** _____

Very compact and ergonomically designed, battery-powered motor drive. Controlled through camera's shutter release. Sequence speed selectable between 1.5 or 3 fps. Especially quiet operation of motor and gear train.

LEICA M 6 TTL



Type of camera:

35 mm rangefinder system camera. Selective exposure metering and center-weighted flash 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 serial 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. Black or silver chrome finish. Rangefinder. Stainless-steel carrying eyelets on both sides. Mechanical connection for motorized wind. Standard tripod thread A 1/4 (1/4 in). Quick change bayonet for LEICA M lenses and accessories. Accessory hot-shoe with central contact. Field of view frame selector.

Lens system:

LEICA M lenses with quick change bayonet from 21 to 135 mm focal length.

Rangefinder:

- Bright high-contrast viewfinder image with bright-line frames for: 28²⁾ mm and 90 mm or 35 mm and 135 mm³⁾ or 50 mm and 75 mm with automatic parallax compensation. When a lens is being inserted the associated image frame is automatically blended in¹⁾. With the aid of the field-of-view selector any required frame can be preselected. The image field corresponds to that of the lens at a short focusing distance.

¹⁾ not for 28 mm lenses below Serial No. 2 411001

²⁾ 28 mm frame; not for LEICA M 6 TTL 0.85

³⁾ 135 mm frame; not for LEICA M 6 TTL 0.58

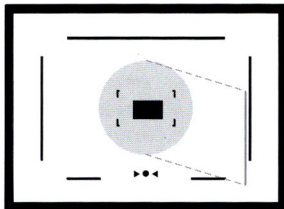
Correction lenses, of which ten are available from +3 to -3 diopters, can be fitted.

- Split-image and coincident-image rangefinder with bright-line frames in the center of the viewfinder image. Long effective measuring base of 40.2 mm (with viewfinder magnification 0.58), 49,9 mm (with viewfinder magnification 0.72) or 58,9 mm (with viewfinder magnification 0.85). This ensures quick, reliable focusing even in poor lighting conditions with all lenses of up to 135 mm¹⁾ focal length.
- Exposure meter display by light balance (three LEDs) at the bottom edge of the viewfinder image when the exposure meter is switched on.

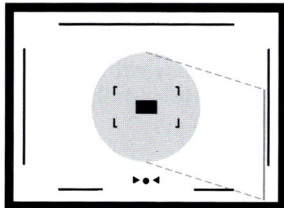
Exposure metering:

Selective metering. The measuring element is a silicium photodiode in the top part of the camera interior. For optimum utilisation of the incident light, the photodiode is fitted with a collecting lens. The metering field consists of a 12 mm Ø white patch in the center of the shutter curtain. The measurement takes place with shutter cocked.

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.:



LEICA M 6 TTL 0.72
35/135 mm,
metering field 35 mm



LEICA M6 TTL 0.85
35/135 mm,
metering field 35 mm

Measuring range of exposure meter:

0.03 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 -2 to +20 exposure values at ISO 100/21° (ASA 100/21 DIN), corresponding to aperture/shutter speed combinations from f/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 in 1/3 aperture steps.

Batteries:

Two 1.5 v silver oxide button cells, size: Ø 11.6 mm, height 5.4 mm, or 1 lithium battery, size Ø 11.6, height 10.8 mm (replacement batteries see Technical Information).

Shutter:

Horizontal-action rubber-cloth focal-plane shutter, whisper-quiet action. Mechanically produced speeds: 1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/50 (f), 1/60, 1/125, 1/250, 1/500, 1/1000 sec. and B = time exposure of any duration.

Release:

Smooth shutter release. International conical thread in the release button for cable release.

¹⁾ not with LEICA M 6 TTL 0.58

Flash synchronisation:

Center contact (X) in accessory shoe. Standard contact socket (X) for electronic flash units on the back of the camera.

Setting on the shutter speed dial:

"Z" = $\frac{1}{50}$ s flash synch time, all speeds from 1 s to $\frac{1}{50}$ s and "B".

TTL flash exposure metering:

Center weighted integral metering with the system flash unit LEICA SF 20 and system-conforming flash units with the adapter SCA 3501. Flash exposure measurement occurs through the lens.

Exposure correction (override):

On the system flash unit LEICA SF 20, over and underexposure of up to three aperture steps in each direction is possible.

Metering cell of TTL flash exposure metering:

Additional silicon photo diode in the base of the camera measures the light reflected from the film through a collector lens.

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.

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 opened. Lever for film rewinding release with automatic reset when the shutter wind is operated.

Angled, hinged crank handle for convenient and rapid film rewind.

Carrying strap:

Black perlon, length adjustable; soft and pliable at any temperature and in any weather. Anti-slip pad. When the ever ready case is used, the carrying strap remains on the camera.

Dimensions:

Height: 79.5 mm, length: 138 mm, depth: 38 mm (3 x 5 x 1.5 in.)

Weight:

Camera body without lens: 0.600 kg
Camera body with SUMMICRON-M f/2.5/50mm: 0.840 kg

Compact, light-weight electron flash unit in elegant Leica design. TTL flash exposure metering with the LEICA M6 TTL and the LEICA R8. Automatic mode for all other LEICA M and R cameras with center contact. Operation with other cameras without center contact is possible with the help of a commercially available flash adapter cable/center contact. Comprehensive information via the illuminated display. All settings and correction appear there. Fast flash action thanks to 2 lithium DL 123 batteries with 3 volt each. Performance: guide number 20. Exposure can be change in +/- 3 aperture steps. Illumination angle equalling 35 mm focal length for 35 mm camera (24 mm with diffuser). Illumination angle up to 35 mm, with diffuser screen. Three automatic aperture settings in the A-mode: 2.8/5.6/11. Film speed in TTL operation from ISO 12/20° to 3200/36°, in the A/M modes from ISO 25/15° to ISO 800/30°.



LEICA SF 20 System Flash Unit

Unit switches off automatically when it has not been used after 3 minutes. Flash success display in the viewfinder of the LEICA M6 TTL and the LEICA R8.

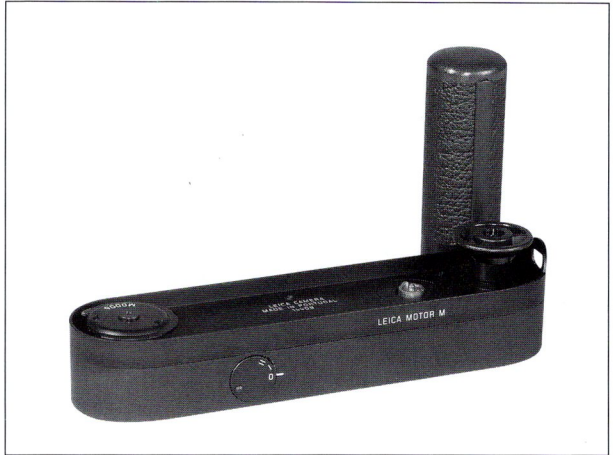
Dimensions:

Width 109 mm, height 66 mm, depth 40 mm.

Weight:

approximately 0.180 kg.

LEICA MOTOR M



4

Photography

Type:

Very compact and ergonomically designed, battery-powered motor drive. Controlled through camera's shutter release. Sequence speed selectable between 1.5 or 3 fps. Especially quiet operation of motor and gear train. Additional noise reduction at 1.5 fps.

Body:

High-quality, fiberglass-reinforced plastic, brass top cap, aluminium battery compartment, steel chassis. Custom-made DC-motor with especially quiet friction wheel gearing. The motor is attached to the camera in exchange for its base-plate. Coupling is purely mechanical. The combination of camera and motor is merely 18.5 mm higher than the camera alone. Tripod mount $\frac{1}{4}$ ", located centrally under lens axis.

Power supply:

2 Lithium-batteries 3 V, type 123A, located inside ergonomically designed grip section. Capacity according to Leica test methods: at least 100 rolls of film with 36 exp. at 20 °C.

Possible shutter speeds:

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

Release:

Single and series exposures via camera release.

Dimensions:

Length: 138 mm
Height: 78 mm
Depth: 56 mm
Height to bottom of camera 18.5 mm

Weight:

approx. 0.225 kg
(without batteries)

LEICA M lenses

*Product Range,
Specifications and
Technical Data*

ELMARIT-M ASPH.	f/2.8/21 mm	5- 4
ELMARIT-M ASPH.	f/2.8/24 mm	5- 5
SUMMICRON-M ASPH.	1:2/28 mm	5- 6
ELMARIT-M	f/2.8/28 mm	5- 7
SUMMILUX-M ASPH.	f/1.4/35 mm	5- 8
SUMMICRON-M ASPH.	f/2/35 mm	5- 9
NOCTILUX-M	f/1/50 mm	5-10
SUMMILUX-M	f/1.4/50 mm	5-11
SUMMICRON-M	f/2/50 mm	5-12
ELMAR-M	f/2.8/50 mm	5-13
SUMMILUX-M	f/1.4/75 mm	5-14
APO-SUMMICRON-M ASPH.	f/2/90 mm	5-15
ELMARIT-M	f/2.8/90 mm	5-16
APO-TELYT-M	f/3.4/135 mm	5-17
TRI-ELMAR-M	f/4/28-35-50 mm	5-18
		5-19

Accessories for M lenses

- Brilliant finders
- Lens hoods
- Screw-in filters

5

Photography

The Range of LEICA M lenses

Lens designation	Speed	Focal length (mm)	Image range (°)	Filter (Ø)	Order-No.	
					black anodized	silver chrome
ELMARIT-M ASPH.	f/2.8	21	92	E 55	11 135	11 897
ELMARIT-M ASPH.	f/2.8	24	84	E 55	11 878	11 898
SUMMICRON-M ASPH.	f/2	28	76	E 46	11 604	
ELMARIT-M	f/2.8	28	76	E 46	11 809	
SUMMILUX-M ASPH.	f/1.4	35	64	E 46	11 874	11 883
SUMMICRON-M ASPH.	f/2	35	64	E 39	11 879	11 882
NOCTILUX-M	f/1	50	45	E 60	11 822	
SUMMILUX-M	f/1.4	50	45	E 46	11 868	11 856
SUMMICRON-M	f/2	50	45	E 39	11 826	11 816
ELMAR-M	f/2.8	50	45	E 39	11 831	11 823
SUMMILUX-M	f/1.4	75	31	E 60	11 810	
APO-SUMMICRON-M ASPH.	f/2	90	27	E 55	11 884	
ELMARIT-M	f/2.8	90	27	E 46	11 807	11 808
APO-TELYT-M	f/3.4	135	18	E 49	11 889	
TRI-ELMAR-M	f/4	28	76	E 49	11 625	
	f/4	35	64	E 49		
	f/4	50	45	E 49		

5

Photography

LEICA M lenses

ELMARIT-M f/2.8/21 mm ASPH.

*for all
LEICA M models*



**Compact super-wide-angle lens
with aspherical lens surface for
excellent optical performance**

- Angle of view: 92°
- Number of elements: 9 (7 components, 1 aspherical surface)
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: 0.7 m to infinity
- Smallest object field: 696 x 1044 mm (approx. 1:29)
- Parallel guided focusing mount
- Viewfinder: brilliant viewfinder¹⁾
- LEICA M quick change bayonet
- Lens: aluminium, black anodized finish / brass, silver chrome finish
- Push-on lens hood
- Push-on lens hood cap
- Front lens diameter: 58 mm
- Length to bayonet flange: 46 mm
- Largest diameter: 58 mm
- Weight: 0.300 kg/0,415 kg²⁾

ELMARIT-M f/2.8/21 mm ASPH.

in a soft nappa leather case, with lens hood, lens hood cap and rear cover

Black anodized finish

Order No. 11 135 _____

Silver chrome finish

Order No. 11 897 _____

Replacements

Lens cap³⁾

Rear cover

Order No. 14 269 _____

Soft leather case

Order No. 14 683 _____

Lens hood

Order No. 12 592 _____

Lens hood cap

Order No. 14 041 _____

Accessories

Brilliant finder, 21 mm

Order No. 12 008 _____

UVa filter, E 55, black anodized finish

Order No. 13 373 _____

UVa filter, E 55, silver chrome finish

Order No. 13 374 _____



- ¹⁾ Focusing (all LEICA M models) and metering (LEICA M 6 TTL, LEICA M 6 and LEICA M 5) through integral viewfinder.
- ²⁾ Black anodized finish/silver chrome finish
- ³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

- Angle of view: 84°
- Number of elements: 7
(5 components,
1 aspherical surface)
- Filter size: E 55
- Internal thread:
M 55 x 0,75
- Clickstops
(including half values)
- Smallest aperture: 16
- Combined meter/feet
scale
- Focusing range: ∞ to
0,7 m
- Smallest object field:
630 x 950 mm (approx.
1:26)
- Parallel guided focusing
mount
- Viewfinder: brilliant
viewfinder¹⁾
- LEICA M quick range
bayonet
- Lens: aluminium, black
anodized finish / brass,
silver chrome finish
- Push-on lens hood
- Front lens diameter:
58 mm
- Length from bayonet
flange: 45 mm
- Largest diameter:
58 mm
- Weight: 0,290 kg/
0,388 kg²⁾



Compact wide-angle lens with aspherical lens surface for excellent imaging capacity

ELMARIT-M f/2.8/24 mm ASPH.

*for all
LEICA M models*

**ELMARIT-M
f/2.8/24 mm ASPH.**
in a soft leather case,
with lens hood,
lens hood cover,
lens cap and rear cover

Black anodized finish

Order No. **11 878** _____

Silver chrome finish

Order No. **11 898** _____

Replacements

Lens cap³⁾

Rear cover

Order No. **14 289** _____

Soft nappa leather case

Order No. **14 683** _____

Lens hood

Order No. **12 592** _____

Lens hood cover

Order No. **14 041** _____

¹⁾ Focusing (all LEICA M models) and shutter/aperture balance (LEICA M 6 TTL, LEICA M 6 and LEICA M 5) through camera viewfinder.

In the LEICA M 3, the 135 mm bright-line frame is reflected into the viewfinder. In the LEICA M 2, the 35 mm bright-line frame is reflected into the viewfinder. In the LEICA M 4, M 4-2, M 4-P, M 5 and M 6 TTL, M 6, the 35 mm and the 135 mm bright-line frames are reflected into the viewfinder.

²⁾ Black anodized finish/silver chrome finish

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.



Accessories

Brilliant viewfinder

24 mm

Order No. **12 019** _____

Case for brilliant finder

Order No. **14 628** _____

**UVa filter E 55,
black anodized finish**

Order No. **13 373** _____

**UVa filter E 55,
silver chrome finish**

Order No. **13 374** _____

SUMMICRON-M f/2/28 mm ASPH.

for all
LEICA M models



Wide-angle lens

- Angle of view: 76°
- Number of elements: 9 (6 components, 1 aspherical lens surfaces)
- Filter size: E 46
- Internal thread: M 46 x 0,75
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.7 m (28 in)
- Smallest object field: 528 x 793 mm (21x31 in) (approx. 1:22)
- Parallel guided focusing mount
- Viewfinder: camera viewfinder with the LEICA M 6 TTL 0.58 and 0.72, LEICA M 6 and the LEICA M 4-P (from serial No. 2411001)¹⁾, otherwise brilliant finder for 28 mm lenses is necessary
- LEICA M quick change bayonet
- Black anodized finish
- Push-on lens hood
- Front lens diameter: 48 mm (1.9 in)
- Length from bayonet flange: 40.8 mm (1.6 in)
- Largest diameter: 53 mm (2.1 in)
- Weight: 0.270 kg

5

Photography

SUMMICRON-M f/2/28 mm ASPH.

In a soft leather case, with lens hood, lens cap and rear cover

Order No. **11 604** _____

Replacements

Soft leather case³⁾

Lens cap

Order No. **14 231** _____

Rear cover

Order No. **14 269** _____

Lens hood

Order No. **12 451** _____

Lens hood cover

Order No. **14 013** _____

Accessories

Brilliant finder with case²⁾

Order No. **12 009** _____

Replacement case

Order No. **14 628** _____

UVa filter E 46

Order No. **13 004** _____

Universal polifilter M incl. Adapter E 39 + E 46

Order No. **13 356** _____



¹⁾ All LEICA M-Cameras, except the LEICA M 3 and LEICA MP, can be equipped with the 28 and 75 mm bright-line frames by the Leica Camera AG Service Department.

²⁾ LEICA M 6 TTL 0.85 and LEICA M 6 0.85 with brilliant finder. Brilliant finder not required with LEICA M 6 TTL, M 6 and LEICA M 4-P.

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

ELMARIT-M f/2.8/28 mm

*for all
LEICA M models*



Wide-angle lens

- Angle of view: 76°
- Number of elements: 8 (7 components)
- Filter size: E 46
- Internal thread: M 46 x 0.75
- Clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 0.70 m (28 in)
- Smallest object field: 533 x 800 mm (21 x 31 in) (approx. 1:22)
- Parallel guided focusing mount
- Viewfinder: camera viewfinder with the LEICA M 6 and the LEICA M 4-P (from serial No. 2411001)¹⁾
- LEICA M quick change bayonet
- Black anodized finish
- Push-on lens hood
- Front lens diameter: 48 mm (1.9 in)
- Length from bayonet flange: 41.4 mm (1.6 in)
- Largest diameter: 53 mm (2.1 in)
- Weight: 0.260 kg

ELMARIT-M f/2.8/28 mm

In a soft leather case, with lens hood cover, lens cap and rear cover

Order No. **11 809** _____

Replacements

Soft leather case³⁾

Lens cap

Order No. **14 231** _____

Rear cover

Order No. **14 269** _____

Lens hood

Order No. **12 547** _____

Lens hood cover

Order No. **14 013** _____

Accessories

Brilliant finder with case²⁾

Order No. **12 009** _____

Replacement case

Order No. **14 628** _____

UVa filter E 46, black anodized

Order No. **13 004** _____

Universal pol filter M incl. Adapter E 39 + E 46

Order No. **13 356** _____

¹⁾ All LEICA M-Cameras, except the LEICA M 3 and LEICA MP, can be equipped with the 28 and 75 mm bright-line frames by the Leica Camera AG Service Department.

²⁾ LEICA M 6 TTL 0.85 and LEICA M 6 0.85 with brilliant finder. Brilliant finder not required with LEICA M 6 TTL, M 6 and LEICA M 4-P.

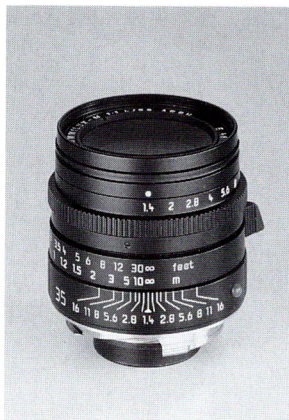
³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.



LEICA M lenses

SUMMILUX-M f/1.4/35 mm ASPH.

*for all
LEICA M models*



Ultra-high-speed wide-angle lens with aspherical lens surfaces for exceptional optical performance

- Angle of view: 64°
- Number of elements: 9 (5 components, 1 aspherical lens surfaces)
- Filter size: E 46
- Internal thread: M 46 x 0,75
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.7 m (28 in)
- Smallest object field: 420 x 630 mm (16.5 x 25 in) (about 1:17.5)
- Parallel guided focusing mount
- Camera view finder¹⁾
- LEICA M quick change bayonet
- Lens versions: Aluminium, black anodized or brass, silver chrome finish.
- Push-on lockable lens hood
- Front lens diameter: 48 mm (1.9 in)
- Length from bayonet flange: 46.2 mm (1.8 in)
- Diameter: 53 mm (2.1 in)
- Weight: 0.250 kg / 0.415 kg²⁾

SUMMILUX-M f/1.4/35 mm ASPH.

In a soft leather case, with lens hood cover, lens cap and rear cover

black anodized finish

Order No. **11 874** _____

silver chrome finish

Order No. **11 883** _____

Replacements

Soft leather case³⁾

Lens front cover

Order No. **14 231** _____

Rear cover

Order No. **14 269** _____

Lens hood

Order No. **12 589** _____

Lens hood cover

Order No. **14 040** _____

Accessories

**UVa filter E 46,
black anodized**

Order No. **13 004** _____

**UVa filter E 46,
silver chrome**

Order No. **13 005** _____

Universal polfilter M

incl. adapter E 39 + E 46

Order No. **13 356** _____

¹⁾ With the LEICA M 3, the 135 mm frame is reflected into the viewfinder.

²⁾ black anodized / silver chrome

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

SUMMICRON-M f/2/35 mm ASPH.

for all
LEICA M models



Particularly compact, wide-angle lens with aspherical lens surface for excellent optical performance

- Angle of view: 64°
- Number of elements: 7 (5 components, 1 aspherical surface)
- Filter size: E 39
- Internal thread: M 39 x 0.5
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ - 0.7 m
- Smallest object field: 419 x 627 mm (16.5 x 24.7 in, approx. 1 : 17.5)
- Parallel guided focusing mount
- Viewfinder: camera viewfinder¹⁾
- LEICA M quick change bayonet
- Lens versions: Aluminium black anodized or brass, silver chrome finish.
- Push-on lens hood
- Push-on lens hood cover
- Front lens diameter: 42 mm
- Length from bayonet flange: 34.5 mm
- Largest diameter: 53 mm
- Weight: 0.255 kg/0.340 kg²⁾

SUMMICRON-M f/2/35 mm ASPH.

In a soft leather case, with lens hood, lens hood cover, lens cap and rear cover

black anodized finish

Order No. **11 879** _____

silver chrome finish

Order No. **11 882** _____

Replacements

Soft leather case³⁾

Lens cap

Order No. **14 038** _____

Rear cover

Order No. **14 269** _____

Lens hood

Order No. **12 526** _____

Lens hood cover

Order No. **14 043** _____

Accessories

UVa filter E 39,

black anodized finish

Order No. **13 131** _____

UVa filter E 39,

silver chrome finish

Order No. **13 132** _____

Universal polfilter M

incl. adapter E 39 + E 46

Order No. **13 356** _____

¹⁾ In the LEICA M 3, the 135 mm bright-line frame is reflected into the viewfinder

²⁾ Black anodized finish / silver chrome finish.

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

NOCTILUX-M f/1/50 mm

*for all
LEICA M models*



- 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 meter/feet scale
- Focusing range: ∞ to 1 m (40 in)
- Smallest object field: 410 x 615 mm (16 x 24 in) (about 1:17)
- Parallel guided focusing mount
- Camera viewfinder
- LEICA M quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Front lens diameter: 62 mm (2.8 in)
- Length from bayonet flange: 62 mm (2.4 in)
- Diameter: 69 mm (2.7 in)
- Weight: 0.630 kg

High-performance lens of extreme speed for exceptional optical results

5

Photography

NOCTILUX-M f/1/50 mm

In a soft leather case, with lens cap and rear cover

Order No. **11 822** _____

Replacements

Soft leather case¹⁾

Lens cap

Order No. **14 290** _____

Rear cover

Order No. **14 269** _____

Accessories

UVa filter E 60, black anodized

Order No. **13 381** _____

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

SUMMILUX-M f/1.4/50 mm

*for all
LEICA M models*



Ultra-high-speed lens

- Angle of view: 45°
- Number of elements: 7 (5 components)
- Filter size: E 46
- Internal thread: M 46 x 0.75
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.70 m (28 in)
- Smallest object field: 277 x 416 mm (11 x 16.3 in) (about 1:11.5)
- Parallel guided focusing mount
- Camera viewfinder
- LEICA M quick change bayonet
- Lens versions: aluminium, black anodized, finish brass, silver chrome
- Built in, telescopic lens hood
- Front lens diameter: 53.5 mm (2.1 in)
- Length from bayonet flange: 46.7 mm (1.8 in)
- Diameter: 54.5 mm (2.1 in)
- Weight: 0.275 kg / 0.380 kg¹⁾

SUMMILUX-M f/1.4/50 mm

In a soft leather case, with lens cap and rear cover

black anodized finish

Order No. **11 868** _____

silver chrome finish

Order No. **11 856** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 231** _____

Rear cover

Order No. **14 269** _____

Accessories

UVa filter E 46,

black anodized finish

Order No. **13 004** _____

UVa filter E 46,

silver chrome finish

Order No. **13 005** _____

Universal pol filter M

incl. adapter E 39 + E 46

Order No. **13 356** _____

¹⁾ Black anodized finish / silver chrome finish

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

SUMMICRON-M f/2/50 mm

*for all
LEICA M models*



- 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 meter/feet scale
- Focusing range: ∞ to 0.70 m (28 in)
- Smallest object field: 277 x 416 mm (11 x 16.4 in) (approx. 1:11.5)
- Parallel guided focusing mount
- Camera viewfinder
- LEICA M quick change bayonet
- Lens versions: aluminium, black anodized, finish brass, silver chrome
- Built-in, telescopic lens hood
- Front lens diameter: 47,5 mm (1.9 in)
- Length from bayonet flange: 43,5 mm (1.7 in)
- Diameter: 53 mm (2.1 in)
- Weight: 0.240 kg ¹⁾ / 0.335 kg ²⁾

High-speed universal lens

5

SUMMICRON-M f/2/50 mm

In a soft leather case, with lens hood, lens cap and rear cover

black anodized finish

Order No. 11 826 _____

silver chrome finish

Order No. 11 816 _____

Replacements

Soft leather case³⁾

Lens cap

Order No. 14 038 _____

Rear cover

Order No. 14 269 _____

Accessories

UVa filter E 39

Order No. 13 131 ¹⁾ _____

Order No. 13 132 ²⁾ _____

Universal pol filter M incl. adapter E 39 + E 46

Order No. 13 356 _____

¹⁾ black anodized finish

²⁾ silver chrome finish

³⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

ELMAR-M f/2.8/50 mm

for all
LEICA M models



Universal lens, collapsible into
the camera body

- Angle of view: 45°
- Number of elements: 4
(3 components)
- Filter size: E 39
- Internal thread:
M 39 x 0.5
- Clickstops (including
whole values, from
f/stop 8 in half values)
- Smallest aperture: f/16
- Combined meter/
feet scale
- Focusing range: ∞ to
0.70 m (28 in)
- Smallest object field:
274 x 411 mm (10.7 x 16.1 in)
(approx. 1:11.4)
- Parallel guided focusing
mount
- Camera viewfinder
- LEICA M quick change
bayonet
- Lens versions: alumi-
nium, black anodized
(tube: brass, silver
chrome finish) or brass,
silver chrome finish
- Lens hood: with screw
mount E 39
- Front lens diameter:
42 mm (1.6 in)
- Length from bayonet
flange (without lenshood):
pulled out:
37.6 mm (1.5 in)
retracted:
21.6 mm (0.8 in)
- Diameter: 52 mm (2.0 in)
- Weight:
0.170 kg¹⁾ / 0.245 kg²⁾

ELMAR-M f/2.8/50 mm

In a soft leather case,
with lens hood, lens cap
and rear cover

black anodized finish

Order No. **11 831** _____

silver chrome finish

Order No. **11 823** _____

Replacements

Soft leather case³⁾

Lens cap

Order No. **14 285**¹⁾ _____

Order No. **14 321**²⁾ _____

Rear cover

Order No. **14 269** _____

Lens hood

Order No. **12 549**²⁾ _____

Order No. **12 550**¹⁾ _____

Lens hood cover

= Lens cap

Accessories

UVa filter,

Order No. **13 131**¹⁾ _____

Order No. **13 132**²⁾ _____

Universal pol filter M incl. adapter E 39 + E 46

Order No. **13 356** _____

¹⁾ Black anodized finish

²⁾ Silver chrome finish

³⁾ Replacement may be obtainable
from the Leica Camera AG
Service Center or local LEICA
agency: please enquire.

LEICA M lenses

SUMMILUX-M f/1.4/75 mm

*for all
LEICA M models*



- Angle of view: 31°
- Number of elements: 7 (5 components)
- Filter size: E 60
- Internal thread: M 60x0.75
- Clickstops (from serial No. 2 048 701 onwards including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.75 m (29 in)
- Smallest object field: 192 x 288 mm (8 x 11 in) (about 1:8)
- Parallel guided focusing mount
- Camera viewfinder¹⁾
- LEICA M quick change bayonet
- Black anodized finish
- Built-in telescopic lens hood
- Front lens diameter: 62 mm (2.4 in)
- Length from bayonet flange: 80 mm (3.1 in)
- Diameter: 68 mm (2.7 in)
- Weight: 0.560 kg

Ultra-high-speed, medium focal-length lens

SUMMILUX-M f/1.4/75 mm

In a soft leather case, with lens cap and rear cover

Order No. **11 810** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 290** _____

Rear cover

Order No. **14 269** _____

Accessories

UVa filter E 60, black anodized

Order No. **13 381** _____

¹⁾ All LEICA M-cameras, except the LEICA M 3 and LEICA MP, can be equipped with the 28 and 75 mm bright line frames by the Leica Camera AG Service Department.

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center: please enquire.

LEICA M lenses

APO-SUMMICRON-M f/2/90 mm ASPH.

*for all
LEICA M models*



High-speed lens for photo-journalism with apochromatic correction and aspherical lens surface for through superb image quality

- Angle of view: 27°
- Number of elements: 5 (5 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 1 m (40 in)
- Smallest object field: 220 x 330 mm approx. 1 : 9)
- Parallel guided focusing mount
- Camera view finder
- LEICA M quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 64 mm
- Length from bayonet flange: 78 mm
- Diameter: 64 mm
- Weight: 0.500 kg

APO-SUMMICRON-M f/2/90 mm ASPH.

in a soft leather case, with lens cap and rear cover

black anodized finish

Order No. **11 884** _____

Replacements:

Soft leather case¹⁾

Lens front cap

Order No. **14 289** _____

Lens rear cover

Order No. **14 269** _____

Accessories:

**UVa-filter E 55,
black anodized**

Order No. **13 373** _____

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

ELMARIT-M f/2.8/90 mm

*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 meter/feet scale
- Focusing range: ∞ to 1 m (40 in)
- Smallest object field: 220 x 330 mm (8.7 x 13 in) (about 1:9)
- Parallel guided focusing mount
- Camera viewfinder
- LEICA M quick change bayonet
- Aluminum with black anodized finish or brass with silver chrome
- Built-in, telescopic lens hood
- Front lens diameter: 54 mm (2.1 in)
- Length from bayonet flange: 76 mm (3 in)
- Diameter: 56.5 mm (2.2 in)
- Weight: 0.410 kg/0.560 kg¹⁾

5

Photography

ELMARIT-M f/2.8/90 mm

In a soft leather case, with lens cap and rear cover

black anodized finish

Order No. **11 807** _____

silver chrome finish

Order No. **11 808** _____

Replacements

Soft leather case²⁾

Lens cap

Order No. **14 231** _____

Rear cover

Order No. **14 269** _____

Accessories

**UVa filter E 46,
black anodized**

Order No. **13 004** _____

UVa filter E 46

silver chrome finish

Order No. **13 005** _____

**Universal pol filter M
incl. adapter E 39 + E 46**

Order No. **13 356** _____

¹⁾ black anodized finish/
silver chrome finish

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

LEICA M lenses

- Angle of view: 18°
- Number of elements: 5 (4 components)
- Filter size: E 49
- Internal thread: M 49 x 0.75
- Clickstops (including half valves)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 1.50 m
- Smallest object field: 220 x 330 mm, approx. 1:9
- Parallel guided focusing mount
- Camera viewfinder¹⁾
- LEICA M quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 56 mm
- Length from bayonet flange: 104.7 mm
- Diameter: 58.5 mm
- Weight: 0.450 kg



Compact tele lens with apochromatic correction

APO-TELYT-M f/3.4/135 mm

*for all
LEICA M models¹⁾*

APO-TELYT-M f/3.4/135 mm

in a soft leather case,
with lens cap and rear
cover

Order No. **11 889** _____

Replacements

Soft leather case²⁾

Lens front cap

Order No. **14 001** _____

Lens rear cover

Order No. **14 269** _____

Accessories

UVa filter E 49, black anodized

Order No. **13 328** _____

Universal polarizing filter M incl adapter E 39 + E 46

Order No. **13 356** _____

Additional adapter to APO- TELYT-M f/3.4/135 mm

Order No. **14 418** _____

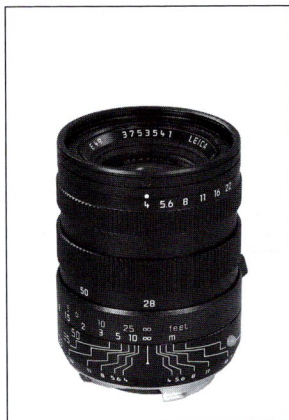
¹⁾ Except LEICA M 2: adaptation of the viewfinder possible by the Leica Camera AG Service Department.

²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

LEICA M lenses

TRI-ELMAR-M f/4/28-35-50 mm ASPH.

for all
LEICA M models



Compact, high performance
universal lens with three focal
lengths

- Angle of view (28, 35, 50): 76°, 64°, 45°
- Number of elements: 8 (6 components, 2 aspherical surfaces)
- Filter size: E 49
- Internal thread: M 49 x 0.75, non rotating
- Clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 1 m
- Smallest object field: Focal length 28 mm: 750 x 1130 mm (approx. 1:31) Focal length 35 mm: 620 x 930 mm (approx. 1:26) Focal length 50 mm: 430 x 650 mm (approx. 1:18)
- Viewfinder: camera¹⁾ viewfinder for LEICA M 6 and M 4-P
- When focal length is changed automatic bright line frame is displayed in the camera
- LEICA M quick change bayonet
- Finish: black anodized
- Lens hood: built-in
- Front lens diameter: 53 mm
- Length from bayonet flange: 67,8 mm
- Largest diameter: 55 mm
- Weight: approx. 0.340 kg

TRI-ELMAR-M f/4/28-35-50 mm ASPH.

in a soft leather case,
with lens cap and rear cover
black anodized finish

Order No. 11 625 _____

Replacements

Soft leather case²⁾

Lens front cap

Order No. 14 002 _____

Lens rear cover

Order No. 14 269 _____

Accessories

UVa filter E 49,
black anodized
for TRI-ELMAR-M

Order No. 13 329 _____

Additional lenshood

Order No. 12 450 _____

Brilliant finder for 28 mm¹⁾
lenses with case

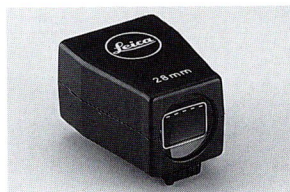
Order No. 12 009 _____

Adapter for polfilter
E 67/E 49

Order No. 14 286 _____

Circular polarizing E 67

Order No. 13 407 _____



- ¹⁾ with LEICA M 6 TTL 0.85 and M 6 0.85:
Brilliant finder is necessary for focal length 28 mm.
- ²⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

Accessories

LEICA M lens	Order No. black anodized	Order No. silver chrome	Dia- meter in mm	Lens hood (re- place- ment)	Lens hood cover (replace- ment)	Lens cap (re- place- ment)	Rear cover (re- place- ment)	Soft leather case ¹⁾	Filter size
f/2.8/21	11 135	11 897	62	12 592	14 041	14 289	14 269	*	E 55
f/2.8/24 ASPH.	11 878	11 898	58	12 592	14 041	14 289	14 269	*	E 55
f/2/28 ASPH.	11 604	—	48	12 451	14 013	14 231	14 269	*	E 46
f/2.8/28 from No. 3 585 865	11 809	—	48	12 547	14 013	14 231	14 269	*	E 46
f/1.4/35 ASPH.	11 874	11 883	49	12 589	14 040	14 231	14 269	*	E 46
f/2/35 ASPH.	11 879	11 882	42	12 526	14 043	14 038	14 269	*	E 39
f/1/50 from No. 3 220 709	11 822	—	62	built in	—	14 290	14 269	*	E 60
f/1.4/50 from No. 3 660 831	11 868	11 856	53,5	built in	—	14 231	14 269	*	E 46
f/2/50 from No. 3 649 976	11 826	11 816	47,5	built in	—	14 038	14 269	*	E 39
f/2.8/50	11 831	11 823	52	12 549 12 550 ¹⁾	14 285 ¹⁾ 14 321	14 285 ¹⁾ 14 321	14 269	*	E 39
f/1.4/75 from No. 3 223 301	11 810	—	68	built in	—	14 290	14 269	*	E 60
f/2/90 APO ASPH.	11 884	—	62,5	built in	—	14 289	14 269	*	E 55
f/2.8/90 from No. 3 462 071	11 807	11 808	54	built in	—	14 231	14 269	*	E 46
f/3.4/135	11 889	—	58,5	built in	—	14 001	14 269	*	E 49
f/4/28-35-50	11 625	—	53	12 450	—	14 002	14 269	*	E 49

¹⁾ black

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

**Brilliant viewfinder
for 21 mm lenses**

Upright, brilliant image.
Superimposed bright
picture frame.
Reproduction scale 0.3,
with parallax compensa-
tion markings below 2 m,
with case.

**Brilliant finders
and cases****Brilliant viewfinder
for 21 mm lenses**

with case

Order No. **12 008** _____**Case (replacement)**Order No. **14 628** _____**Brilliant viewfinder
for 28 mm lenses**

Upright, brilliant image.
Superimposed bright
picture frame.
Reproduction scale 0.3,
with parallax compensa-
tion markings below 2 m,
with case.

**Brilliant viewfinder
for 24 mm lenses**

with case

Order No. **12 019** _____**Case (replacement)**Order No. **14 628** _____

Accessories

Brilliant viewfinder for 28 mm lenses

with case

Order No. **12 009** _____

Case (replacement)

Order No. **14 628** _____



Brilliant viewfinder for 28 mm lenses

Upright, brilliant image. Superimposed bright picture frame. Reproduction scale 0.5 mm, with parallax compensation markings below 2 m, with case.

Filters

Filter	Screw-in filter					
	E 39	E 43	E 46	E 49	E 55	E 60
UVa	13 131	13 206	13 004	13 328	13 373	13 381
UVa (mount silver chrome)	13 122	—	13 005	—	13 374	—
Universal polfilter M	13 356	—	13 356		—	—
+ adapter	14 207*	—	14 210*	14 211	—	—

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

Order No. **14 418** _____

Special adapter for universal polfilter M
for APO-TELYT-M
f/3.4/135 mm

Order No. **14 286** _____

Adapter for polfilter E 67/E 49
for TRI-ELMAR-M
f/4/28-35-50 mm

Order No. **13 407** _____

Circular polarizing for Adapter E 67
for TRI-ELMAR-M
f/4/28-35-50 mm



M6 LEICA APO-TELYT-M 1:3.4/135 f:4,0

Kodak-Kodachrome 64

LEICA Compact Cameras

<i>Product range</i>	LEICA minilux zoom, Flash Unit LEICA CF _____	6- 2
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<i>Specifications and Technical Data</i>	LEICA minilux zoom, Flash Unit LEICA CF _____	6-12
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LEICA
Compact Cameras
LEICA minilux zoom

*High quality, compact,
35 mm format
AF rangefinder camera
with high speed
zoom lens
LEICA VARIO-ELMAR
f/3.5-6.5/35-70 mm*



Elegant, solid titanium housing. ISO flash shoe with center and control contact for stronger external flash unit, e.g. LEICA CF. Connection for electric cable release. Metal precision film guide. Film cartridge viewing window. Easy camera operation due to zoom lever (focal length selection) and function selector dial (switching on/off, automatic program mode, automatic or manual focusing). Active infrared autofocus. Center weighted integral metering with exposure and autofocus memory. Lucid real-image viewfinder. LCD data panel with illumination. True-time release due to low time parallax

between release and exposure. Exposure correction button from +2 to -2 EV, in half values. Automatic or manual flash on/off can be set. Integrated flash with pre-flash to reduce the red-eye effect. "SLOW" function for long-time combinations with flash and pre-flash. Long-time exposures "B" and "T" up to 99 seconds. Automatic film speed setting (DX coding) and film threading; motorized film transport with automatic rewind. Series exposure function. Panorama photographs (adapter available as an accessory).

Detailed product description on page 6-10.

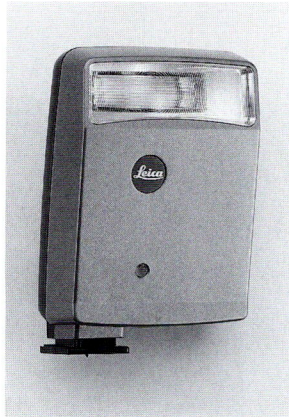
LEICA minilux zoom
with wrist strap and
3 V battery
(Type CR 123 A)

Order No. **18 036** _____

Flash unit LEICA CF

Guide number 20 (ISO 100/21°) with additional signal contact for autom. control

Detailed description on page 6-12.



Order No. **18 541** _____

Data back with film cartridge window (can be attached in place of the regular back cover).

Order No. **18 525** _____

Soft leather case with belt strap and additional pocket for the panorama adapter.



Order No. **18 513** _____

Panorama adapter with case

Lens cap

Viewfinder correction lenses:

+ 1 dptr.

- 1 dptr.

Electric cable release

Order No. **18 511** _____

Order No. **18 532** _____

Order No. **18 530** _____

Order No. **18 531** _____

Order No. **18 540** _____

Mini tripod

with ball and socket joint



Order No. **14 320** _____

LEICA
Compact Cameras
LEICA minilux

*High-quality, compact,
35 mm format
AF rangefinder camera
with high speed lens
LEICA SUMMARIT
f/2.4/40 mm*



Elegant housing in titanium or with an additional matte black lacquer with partial leather covering. Automatic program mode as well as aperture priority (pre-selected aperture), both of which can be combined with auto or manual focus. Active infrared autofocus. Center weighted integral metering with exposure and auto-focus measurement storage. Clearly arranged viewfinder. Illuminated LCD data field. True time release (minimal time parallax between shutter release and actual photograph). Exposure override button from +2 to -2 EV in half values.

Option of automatic or manual flash-on or flash-off. Pre-flash to reduce the „red-eye“ effect. „SLOW“ functions for long-time combination with flash and pre-flash. Long-time exposure with „B“ up to 99 s. Precise film guide made of metal. Automatic film speed setting (DX coding) and film loading, motorized film transport with automatic rewind. Cable remote control and panorama adapter as accessories see page 6-5. Series frame function.

Detailed product description on page 6-13.

LEICA minilux

with wrist strap and 3 V battery
(Type CR 123 A)

light titanium version

Order No. **18 006**

Data back with film cartridge window (can be attached in place of the regular back cover).

light titanium version

Order No. **18 525** _____

Soft leather case with belt strap and additional pocket for the panorama adapter and brief instructions.



Order No. **18 509** _____

Panorama adapter with case

Viewfinder correction lenses:

- + 1 dptr.
- 1 dptr.

Order No. **18 511** _____

Order No. **18 530** _____

Order No. **18 531** _____

Electric cable release

Order No. **18 540** _____

Mini tripod

with ball and socket joint



Order No. **14 320** _____

LEICA

Compact Cameras

LEICA C 1

*Compact, autofocus,
lens-shutter type
camera with zoom lens*



LEICA C 1

silver

Order No. **18 080** _____

black

Order No. **18 081** _____

The LEICA C 1 is an elegant, versatile and easy-to-use auto-focusing compact camera. Its special features are:

- LEICA VARIO-ELMAR lens system 38–105 mm f/4–10.5 (7 elements in 7 groups with 2 aspherical lens element surfaces)
- Distance setting from approx. 80 cm to infinity
- Active infrared type autofocus with memory lock
- Infinity lock setting
- Center-weighted exposure meter with memory lock
- Programmed automatic-exposure
- Long time exposures up to 99 seconds
- Exposure correction + 2 EV
- Built-in flash
- Flash fires automatically in case of inadequate light
- Selectable, pre-flash light for "red-eye" reduction
- Manual on and off flash selection
- Automatic film speed setting (DX coding)
- Automatic film loading
- Automatic film transport
- Series exposure release – approx. 1 frame every 1.5 seconds
- Automatic film rewinding
- Data imprinting is integrated

Accessoires

Order No. **18 518** _____

Order No. **18 519** _____

Order No. **18 524** _____

Order No. **14 320** _____

- Carrying Strap**, approx. 50 cm long
- Wrist Strap** (supplied with camera) – spare
- Leather Case with Belt**
- Mini Tripod**

LEICA Compact Cameras LEICA C 11

*APS autofocus
compact camera*



The LEICA C 11 is an elegant, versatile and easy-to-use APS autofocus compact camera. Its main features are:

- APS film system (Advanced Photo System) giving:
 - simplified film loading
 - free selection, at any time, of three exposure formats
 - mid-roll rewind at any time (e. g. in order to use a different speed of film) with automatic wind-on to the original exposure number after the film is reloaded
 - improved quality of reprints because exposure data is printed on the film
- Zoom lens 1 : 4,8–9,5/ 23–70 mm (7 separate lenses), equivalent to 30–90 mm with 35 mm compact film

- Distance setting adjustable from approx. 60 cm to infinity
- Infrared scanning type autofocus with memory store
- Stepless focus control
- Integral, *center-weighted* exposure meter with memory store
- Microprocessor controlled auto-exposure
- Built-in flash
- Flash fires automatically in case of inadequate light
- Selectable, pre-flash light for "red-eye" reduction
- Manual on and off flash selection
- Automatic film speed setting
- Automatic film loading
- Automatic film drive
- Automatic film rewinding
- Integral picture dating

LEICA C 11

silver

Order No. **18 090** _____

black

Order No. **18 091** _____

6

Photography

LEICA

Compact Cameras

LEICA Z2X

*Compact,
fully automatic,
AF, 35 mm format
viewfinder camera
with LEICA lens
VARIO-ELMAR 35-70 mm
for versatile,
creative photography*



LEICA Z2X *

Order No. 18 032 _____

LEICA Z2X * with data back

(This is the same as LEICA Z2X but with a data back to imprint the day and time or date onto the film)

Order No. 18 033 _____

* incl. Battery 3 V type CR 123 A, wrist and carrying strap

LEICA Z2X, black finish

Order No. 18 034 _____

LEICA Z2X, black finish with data back

Order No. 18 035 _____

LEICA VARIO-ELMAR
f/4 – 7.6/35 – 70 mm
with automatic lens cover.
Fixed infinity setting can
be made. Passive auto-
focus with focus storage.
Center weighted integral
metering. Automatic expo-
sure setting with metered
value storage. Manual
exposure correction +2 EV.
Built in flash unit that
switches on automatically
when surrounding light is
insufficient. Manual flash
on and off is possible.

Pre-flash function reduces
“red-eye effect”. “SLOW”
functions for long-time
combinations with flash
light. Long-time exposures
up to 99 seconds. Auto-
matic film speed setting
(DX code). Film threading,
motorized film transport
and rewind all occur auto-
matically. Series exposures.
Panorama adapter
(accessory).

Detailed description on
page 6-22.

Accessories

Order No. 18 509 _____

Order No. 18 511 _____

Order No. 18 540 _____

Soft leather case for LEICA Z2X
Panorama adapter with case
Electric cable release

Replacements

Order No. 14 320 _____

Mini tripod
with ball and socket joint

LEICA Compact Cameras LEICA DIGILUX 4.3

*Ultra compact
megapixel camera with
high resolution CCD
image sensor in an
elegant design*



- powerful, high-resolution 1/1.7" Super CCD w. 2.4 million pixels
- 8.3–24.9 mm f/2.8–5.4 ASPH retractable 3x-zoom lens (w. 3 aspherical lens elements) of very high imaging quality
- lightweight, compact metal body (aluminium/magnesium alloy)
- high sensitivity – ISO 200/400/800 and built-in flash
- autofocus including macro mode (manual focusing possible)
- automatic exposure modes
- manual mode for fine-tuning of pre-set camera exposure modes
- practical pre-view mode allows quick checking of images

- variable digital zoom function (up to 1.88x for megapixel resolution) and playback zoom function (up to 15x)
- guideline-display mode allows simple framing for perfectly composed shots
- series exposure mode even w. maximum resolution
- video capture mode (up to 80s w. 320 x 240 pixels and sound)
- pin-sharp preview monitor employing 2-inch low-temperature polysilicon TFT w. 130.000 pixels
- option of choosing an image as initial display
- USB port for fast and simple data-transfer
- supports DPOF-standard (Digital Print Order Format) for simplified output

LEICA DIGILUX 4.3

"E-type", PAL video outlet, mains adapter 230 V

Order No. **18 200** _____

"U-type", NTSC video outlet, mains adapter 115 V

Order No. **18 201** _____

Included with each order: Package contents

- 110–240 V recharging unit for NiMH batteries
- 32 MB SmartMedia™ card
- 2 rechargeable NiMH batteries
- USB cable for PC and Mac
- AV cable (for television viewing)
- Hand strap
- Software (on CD-ROM): USB driver, Exif viewer, Adobe® Photoshop® LE
- Adobe® Photoshop® LE – professional image processing software for PC and Macintosh

Detailed product description on page 6-25.

Accessory

Order No. **18 620** _____

Order No. **18 621** _____

Order No. **18 622** _____

Slide/BW-negative copying attachment LEICA DIGICOPY 4.3

Close-up attachment LEICA DIGIMACRO 4.3

Mounting bracket

Detailed product description on page 6-10

LEICA Compact Cameras

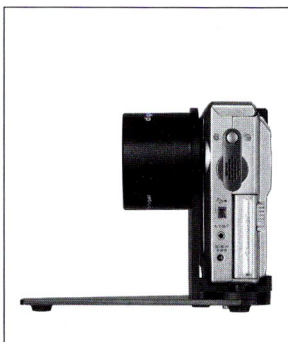
Digital slide scanner
LEICA DIGICOPY 4.3



Order No. **18 620** _____

The LEICA DIGICOPY 4.3 is optimally suited for digitizing all brands of color transparency films.

LEICA DIGIMACRO 4.3



Order No. **18 621** _____

The LEICA DIGIMACRO 4.3, designed as a special close-up attachment for the LEICA DIGILUX 4.3 camera, significantly expands the close-up range of that camera.

Angle bracket



Order No. **18 622** _____

needed for adaption to the camera, compatible with LEICA DIGICOPY 4.3 and LEICA DIGIMACRO 4.3 (removable base by macro photography).

LEICA
Compact Cameras
LEICA minilux zoom

Specifications and Technical Data



Type:

Compact autofocus 35 mm viewfinder camera with high speed zoom lens.

Film format:

24 x 36 mm

Lens:

LEICA VARIO-ELMAR
f/3.5-6.5/35-70 mm (7
lens elements in 6 groups).

Focusing range:

Automatic and manual
focusing from infinity to
70 cm.

Autofocus system:

Active infrared autofocus.

Exposure metering system:

Automatic program mode
with automatic exposure
control and flash activa-
tion.

Exposure metering method:

Integral, center-weighted.

Memory:

Focus is locked and mete-
red value is stored when
continuous light pressure
is applied to the shutter
release button.

Working range of the exposure meter:

At exposure values below
EV 8.5 with 35 mm or EV
11.3 with 70 mm the flash
is activated automatically
in the "AUTO $\frac{1}{2}$ " and
"AUTO $\frac{1}{4}$ " modes.

Shutter speed range:

1 to 1/250 s. "B" setting
for exposure times longer
than 2 seconds in the oper-
ating modes SLOW $\frac{1}{2}$ ON,
SLOW $\frac{1}{4}$ ON and $\frac{1}{2}$ OFF and
"T" setting with $\frac{1}{2}$ OFF.

Exposure compensation:

From +2 EV to -2 EV in
half steps.

Flash operating modes:

Universal operating mode
with automatic flash acti-
vation - AUTO $\frac{1}{2}$, universal
operating mode with auto-
matic flash and pre-flash
activation - AUTO $\frac{1}{4}$,
manual flash activation - $\frac{1}{2}$
ON, manual flash and pre-
flash activation - $\frac{1}{4}$ ON,
manual flash activation
with long-time exposures
including B - SLOW $\frac{1}{2}$ ON,

manual flash and pre-flash activation with long-time exposures including B - SLOW \neq ON, manual flash off with long-time exposures including B - \neq OFF, "T" setting (\neq OFF). The selected flash modes remain in effect until a different one is selected, until the camera is switched off or until the battery is changed.

Flash range of the built-in flash unit (with ISO 100/21°):
From 0.7 m - 3.7 m for 35 mm and 0.7 - 2.0 m for 70 mm.

Flash recharging time for the built-in flash unit:
Approximately 6 seconds with fresh battery.

ISO flash shoe to attach the stronger external flash unit LEICA CF:
With this flash shoe stronger external flash units, such as the LEICA CF can be attached to reduce the "red-eye" effect. When this flash is attached, the built-in flash is switched off automatically. If the external flash is in place, flash modes with the pre-flash are switched to the same mode without a pre-flash.

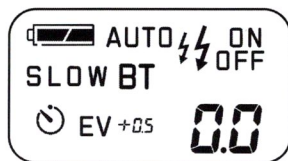
Flash range of the external flash unit LEICA CF (with ISO 100/21°):
Up to approx. 5.7 m for 35 mm and 3.1 m for 70 mm; guide number 20.

Film speed setting:
Automatic film speed setting for DX coded films from ISO 25/15° to 5000/38°. Automatic setting to ISO 100/21° for films without DX coding.

Viewfinder:
True image viewfinder with markings for the autofocus metering field, for close-up as well as panorama photographs. Flash and function display via a red light diode (LED). Function display for autofocus and exposure metering via a green light diode (LED).

Viewfinder magnification:
0.33 x with 35 mm and 0.57 x with 70 mm; equivalent to 83% of the film format.

Film transport:
Automatic film threading and advance to the first frame after the film is loaded and the camera back is closed. Motorized advance to next frame after each exposure. Automatic rewind at the end of the film. The film is wound all the way back into the cartridge. Mid-roll rewind is also possible.



Data panel:
Liquid Crystal Display (LCD) shows frame counter as well as symbols for: battery status, the selected operating mode and functions and compensation factors, self-timer, film insertion and rewind. Automatic panel illumination in low ambient light.

Self-timer:
Count-down time 10 seconds; indicated by a flashing red light diode (LED) on the front of the camera and a countdown display in the data panel.

Power supply:
Long-lasting 3V lithium battery (CR 123 A).

Switching the camera on/off:
With function selector on the top of the camera. Lens moves into the ready or transport position. Built-in flash unit and display switch off automatically after about three minutes (stand-by mode).

Tripod thread:
A 1/4 DIN 4503 (1/4").

Data back:
For imprinting the date or time onto the film. Quartz controlled clock and automatic calendar up to the year 2019. Imprint intensity is controlled by the camera's automatic film speed setting.

Dimensions:
With and without data back: width 124 mm/ height 73 mm (incl. flash shoe)/depth 44 mm (incl. lens).

Weight:
Approximately 375 g (without battery)

Housing:
Outer body is of solid, extremely durable titanium in the elegant LEICA design. Grip surfaces are covered with leather. Precision film works are of metal. Removable back cover with film cartridge window, interchangeable for a data back with window.

Flash unit LEICA CF

Flash holder:

ISO flash foot with center and signal contact

Guide number:

20 (with ISO 100/21°)

Illumination angle:

According to a 35 mm focal length for 35 mm film format

Color temperature: Approximately 5.900°K

Flash time:

AUTO: 1/30.000-1/200 seconds

MANUAL: 1/200 seconds

Number of flash releases per set of batteries:

Approximately 280 (with Alkali-Manganese batteries)

Flash recharge time:

Approximately 0.5-5 seconds (with Alkali-Manganese batteries)

Operating modes:

1. OFF, 2. MANUAL (full performance return)
3. AUTO 1 (automatic control f/2.8 at ISO 100/21°)
4. AUTO 2 (automatic control f/5.6 at ISO 100/21°)

Power supply:

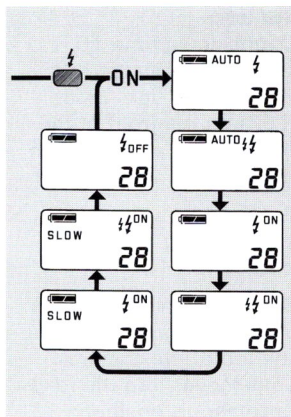
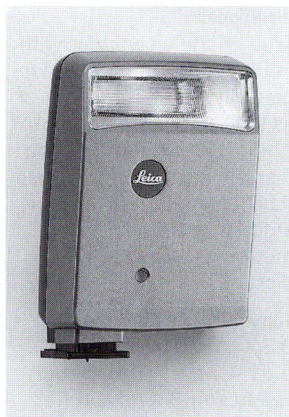
Two batteries or accumulators size "mignon"

Overall dimensions:

Width 56 mm/Height 82 mm/Depth 28 mm (2.2/3.2/1.1 inches)

Weight:

Approximately 70 g (without batteries)



Flash and long exposure time modes:

- Battery status display
- AUTO Universal mode with automatic flash activation
- AUTO Automatic flash and pre-flash activation
- ON Manual flash activation
- ON Manual flash and pre-flash activation
- SLOW ON Manual flash activation; in conjunction with long-time exposures*
- SLOW ON Manual flash and pre-flash activation, in conjunction with long-time exposures*
- OFF Manual flash off (automatic with "T")*
- B Automatic long-time exposures (can be used for the modes marked with*)
- T Manual long-time exposures

- EV±2.0 Exposure correction +/- 2 EV
- Self-timer activated
- Changing function display:
- Frame counter
- Length of the long-time exposure in seconds

Notice:
An LCD data panel illumination is activated automatically in low light conditions. It is possible for it to flicker slightly while the flash is charging.

6

Photography

LEICA minilux



Type:

Compact autofocus 35 mm range finder camera with high speed lens.

Film format:

24 x 36 mm

Lens:

LEICA SUMMARIT
f/2.4/40 mm (6 lenses in
4 components).

Focusing range:

Automatic and manual
focusing from 70 cm
(28 in.) to infinity.

Smallest object field:

377 x 566 mm (15 x 22 in.)
(approx. 1 : 15.7).

Autofocus system:

Active infrared autofocus.

Exposure system:

Automatic program control
with automatic aperture
control and flash activation
as well as
aperture priority (manual
aperture selection) with
automatic flash activation.

Exposure metering:

Integral, center-weighted.

Measured value storage:

The storage of the range
and exposure values
occurs by pressure point
on the shutter release.

**Working range of the exposure
meter system:**

(With ISO 100/21°).

For the operation modes

AUTO \neq , AUTO $\neq\neq$,

\neq ON, $\neq\neq$ ON:

from exposure value Ev 8.5
(1/60 s and f/2.4) to Ev 16.5
(1/400 s and f/16).

For the operation modes

SLOW \neq ON, SLOW $\neq\neq$ ON,

\neq OFF, \neq OFF B:

from exposure value Ev 2.5
(1 s and f/2.4) to Ev 16.5
(1/400 s and f/16).

For exposure values below
EV 8.5 the flash is activated
automatically in the univer-
sal AUTO mode.

Shutter speeds:

1 to 1/400 s, „B“ setting for exposure times longer than 1 s (up to 99 s) in the operation modes SLOW \neq ON, SLOW \neq ON, \neq OFF, \neq OFF B.

Exposure override:

From +2 EV to -2 EV in half values.

Flash automatic and manual flash on and off:

In poor light conditions, the flash is automatically activated.

Manual flash on and off is possible at any time. Pre-flash to reduce the red-eye effect can be activated in both the automatic and manual settings. Long exposure times can be combined with the flash.

Flash range:

(ISO 100/21°) from 0.7 m to 7.2 m (2.3 to 23 ft.).

Flash reloading time:

Approximately 5 seconds with fresh batteries.

Film speed setting:

Automatic film speed setting for DX coded films from 25 to 5000 ASA. Films without DX coding are set to ISO 100/21°.

Viewfinder:

True viewfinder with markings for the autofocus measuring field, for close-up and panorama photographs. Flash confirmation signal is a red light diode (LED). Confirmation signal for autofocus and exposure measurement is a green light diode (LED).

Viewfinder magnification:

0.35 x, equivalent to 85% of the film format.

Film transport:

Automatic film threading and advance to the first frame when the rear cover is closed after inserting the film cartridge. Motorized film transport after each exposure. Automatic rewind occurs at the end of the film. The film is rewound completely into the cartridge. It is also possible to rewind a partially exposed film.

Data field:

Liquid crystal display (LCD) shows symbols for: battery status, frame count, long exposure times („SLOW“ and „B“), self-timer, film insertion and rewind, flash on, exposure override, shutter speed and aperture. Automatic field-illumination in low ambient light.

Self-timer:

10 second countdown, flashing light diode on the front of the camera and a countdown display in the data field signalize that the self timer is activated.

Power supply:

Long lasting 3V lithium battery (CR 123 A).

Switching the camera on/off:

With the main switch on the top of the camera. Lens moves into the ready or transport position. The flash and electronics switch off automatically after about 5 minutes when not in use (stand-by mode).

Exposure program modes:

Automatic program mode and aperture priority (aperture pre-selection).

Flash and long exposure time modes:

AUTO \neq Universal mode with automatic flash activation
 AUTO \neq Universal mode with automatic flash and preflash activation
 \neq ON Manual flash activation
 \neq ON Manual flash and pre-flash activation

Specifications and Technical Data

- SLOW** Manual flash activation and long-time exposure
⚡ON
- SLOW** Manual flash and pre-flash activation with long-time exposure
⚡ON
- ⚡OFF** Manual flash off
B/OFF Manual flash off and long-time exposure

The selected flash modes remain activated until another is chosen or until the camera is switched off.

Housing:

Outer housing is solid and extremely durable titanium in an ergonomical LEICA design. Also available with an additional matte black lacquer. Grip surfaces are leather covered. Metal precision film guide. Rear cover with film cartridge window, interchangeable for a data back with film cartridge window. Side attachment for carrying or wrist strap. Tripod thread: A 1/4 DIN 4503 (1/4").

Data back* (accessory): Prints the day with time or date on the film. Quartz controlled clock and automatic calendar up to the year 2019. Imprint intensity is controlled by the camera's automatic film speed setting.

* also available as matte black version

Overall dimensions:

With and without data back: length 124 mm / height 69 mm / width 39 mm (4.8 / 2.7 / 1.5 in.).

Weight:

approx. 330 g (without battery).

LEICA Compact Cameras

Accessories:

Data back for LEICA minilux (order no. 18 525)

Carrying strap, length approx. 50 cm*

Wrist strap*, is included with delivery.

Soft leather case with belt strap loop and additional inside pocket for panorama adapter and brief instructions (order no. 18 509)

Mini tripod, fits into any pocket (order no. 14 320)

Panorama adapter (order no. 18 511)

Viewfinder correction lens +1 dpt. (order no. 18 530)

Viewfinder correction lens -1 dpt. (order no. 18 531)

Electric cable release, cable length: approx. 30 cm (order no. 18 540)

* Replacement may be obtainable from the Leica Camera AG Service Center: please enquire.

LEICA
Compact Cameras
LEICA C 1

Specifications and Technical Data



Type:

Compact, autofocus, lens-shutter type camera with zoom lens.

Film format:

24 x 36 mm.

Lens:

LEICA VARIO-ELMAR
38–105 mm f/4–10.5
(7 elements in 7 groups
with 2 aspherical sur-
faces).

Distance range:

Automatic setting from
infinity to 0.8 m.

Autofocusing:

Active infrared system.

Auto exposure:

Programmed automatic
exposure and autoflash.

Exposure meter:

Center-weighted.

Exposure memory look:

Halfway depression of
shutter release locks
distance and exposure
calculations.

Exposure meter range:

The flash fires auto-
matically if Exposure
Value is below EV 9 at
38 mm or EV 13.6 at
105 mm in modes
"AUTO $\frac{1}{2}$ ", "AUTO $\frac{1}{2}$ \odot "
and "AUTO $\frac{1}{2}$ +EV".







Shutter speed range:

1/30th to 1/500th second
with autoflash, 1.7 to
1/500th second in other
modes, automatic switch-
ing to "B" setting for
long time exposures up
to 99 seconds in modes
" $\frac{1}{2}$ ON", " \odot $\frac{1}{2}$ ON",
"SLOW $\frac{1}{2}$ ON" and
" \odot SLOW $\frac{1}{2}$ ON".












Exposure correction:


+2 EV in mode "AUTO $\frac{1}{2}$
+EV].

Autoflash, manually forced flash pre-flash light:

Flash fires automatically in poor light conditions. Manual flash on and off selection possible at all times. Pre-flash light to reduce "red-eye" effect by selecting modes "AUTO  ", "  ON", " SLOW  ON". Flash at slow shutter speeds also possible.

Modes:

- "AUTO " – Autoflash (Standard mode, always activated when (in order of appearance) camera is switched on),
- "AUTO  " – Autoflash plus pre-flash light,
- "AUTO  + EV" – Autoflash plus exposure correction,
- " ON" – Flash manually switched on,
- "  ON" – Flash manually switched on plus pre-flash light,
- "SLOW  ON" – Flash manually switched on, plus long time exposure (including "B" mode),
- " SLOW  ON" – Flash manually switched on, long time exposure plus pre-flash light,
- " OFF ∞ " – Flash manually switched off and distance manually set to infinity,

- " OFF T" – Flash manually switched off plus "T" function to reduce risk of camera shake.

The mode selected remains activated until changed to another mode, the camera is switched off or the battery is replaced.

Flash range

(with ISO 100 / 21° film):
0.8–3.25 m (38 mm),
0.8–1.24 m (105 mm).
Guide Number 13.

Flash interval:

approx. after 6 seconds with new batteries.

Film speed setting:

Automatic film speed setting for DX-coded films from ISO 50/18° to 3200/36°. Films without DX-coding and speed under ISO 50/18° set at ISO 100/21°. Films with DX-coding and speed over ISO 3200/36° set at ISO 3200/36°.

Viewfinder:

Real image type viewfinder with autofocus and close-up frames. Red light emitting diode (LED) indicates flash status. Green LED indicates autofocus and exposure meter status.

Viewfinder enlargement:

x 0.375 at 38 mm and x 1.05 at 105 mm focal length. Image in viewfinder represents 85% of film format.

Film transport:

Film spools and winds on to first exposure automatically after closing the back cover. Motorised advance after each exposure. Automatic rewind at end of film. Film rewinds fully into cartridge. Mid-roll film rewind is possible.

Graphical display:

LCD (Liquid Crystal Display) showing: exposure counter (serves also as indicator for film loading/unloading and as seconds counter for long time exposures), date/time (for selective printing onto film); battery state symbol; mode selection and shutter release indicators.

Self timer:

10 second pre-exposure delay; countdown shown by white light ulses on camera front and in seconds on exposure counter.

LEICA

Compact Cameras

Specifications and Technical Data

Power source:

Long life, 3 V. Lithium battery (CR 123 A).

Camera On/Off control:

ON/OFF switch on top face. Lens moves to ready position. Auto Off after approx. 4 minutes idling.

Body:

Ergonomical LEICA design in aluminium. Film cartridge window on back cover. Eyelet for wrist or carrying strap on side.

Tripod fixing:

A 1/4 DIN 4503 (1/4").

Imprinting data:

For selective printing of day and time or date. Quartz clock with automatic calendar up to year 2030. Intensity automatically adjusted according to film speed.

Dimensions:

129.5 mm wide
x 67 mm high
x 46 mm deep
(including lens).

Weight:

260 g approx.
(without battery)



Type:

Compact, versatile, APS autofocus, viewfinder camera.

Film:

APS film cartridge IX240

Film format:

16.7 x 30.2 mm overall of which, the following is used depending on the format (approx.):

C 16.7 x 23.4 mm

H 16.7 x 30.2 mm and

P 9.5 x 30.2 mm.

Print size:

selectable, e. g.

C 10 x 15 cm (4 x 6 in)

H 10 x 18 cm (4 x 7 in)

P 10 x 24 cm (4 x 9 in)

Lens:

Zoom lens 23–70 f/

1: 4,8–9,5/23–70 mm

(equivalent to approx.

30–90 mm with standard

35 mm film), 7 lens

elements in 7 groups.

Distance range:

Automatic focussing from infinity to 0.60 m (2 ft)

Autofocusing:

Active infrared autofocus.

Auto exposure:

Programmed automatic exposure and autoflash.

Exposure metering system:

Automatic program mode with automatic exposure control and flash activation.

Exposure metering method:

Integral, center-weighted

Exposure memory look:



Focus is locked and metered value is stored when continuous light pressure is applied to the shutter release button. In standard mode as well as in pre-flash forced-flash mode, the flash fires automatically if the exposure value is below EV 9.8 at 23 mm or EV 12,8 at 70 mm.

Shutter speed range:

1 to 1/600th s

Autoflash, manually forced flash and pre-flash light:

The built-in flash fires automatically in poor light conditions. Manual flash ON and OFF selection is possible at all times.

Pre-flash light to reduce "red-eye" effect can be selected in  and  modes. Flash can also be used at slower shutter speeds.

Flash range (with ISO 100/21° film):

From 0.6–2 m (2 ft – 6'6") (23 mm) and 0.6–1.2 m (2–4 ft) (70 mm)
Guide number focal length 9, telefocus 11

Flash recharging time:

Approx. 5.5 seconds with fresh battery.

Film speed setting:

Automatic film speed setting via coded film cartridges from ISO 25/15° to 3200/36°.

Viewfinder:

Real image type viewfinder with autofocus and close-up frames. Picture frame changes to match the selected picture format (C, H and P), Green LED indicates autofocus and exposure meter status.

Viewfinder magnification:

0.38 x at 23 mm and 1.00 x at 70 mm focal length; image in viewfinder represents 87 % of film format.

Film loading:

0.38 x at 23 mm and 1.00 x at 70 mm focal length; image in viewfinder represents 87 % of film format.

Film transport:

Motorized film take-up and advance to the first exposure. Motorized wind on after each shot. Automatic rewind at end of film. Mid-roll film rewind is possible. The film rewinds completely into the cartridge.

The Advanced Photo System also enables part-exposed films to be reloaded and to continue to be used without any pictures being lost (Mid-Roll-Change). The camera recognizes the film cartridge and automatically advances it on the first, unexposed frame.

Data panel:

LCD (Liquid Cristal Display) showing: exposure counter or number of pictures on the inserted film, number of self-timer exposures, date, or time, film type and speed as well as symbols for: battery state and the mode/function selected, flash recharging, shutter release, film cartridge loaded.

Data recording:

The selected format (C, H, P) and information to ensure the quality of prints (Basic Print Quality Improvement) are recorded on a magnetic strip on the film.

Date printing:

Quartz clock and automatic calendar to the year 2029 enable the day and time or date to be printed on the film. Exposure control via automatic film speed setting by the camera. The date is printed, as a matter of course, on the reverse side of the picture irrespective of the function setting.

Self-timer:

Choice of 1, 2 or 3 exposures. Pre-exposure delay of 10 seconds in all cases; countdown shown by red LED on the front face of the camera (7 seconds steady, then 3 seconds flashing; also flashes between the exposures); the function can be interrupted at any time.

Power source:

Long-life lithium battery, 3 V (CR2).

Camera switch On and Off:

By ON/OFF button on the back of the camera. Lens and flash move into ready or parked position. Camera switches itself off after approx. five minutes.

Camera body:

Ergonomic, LEICA design front in aluminium. Anchor point on the side for carrying or wrist strap.

Tripod fixing:

A 1/4 DIN 4503 (1/4").

Dimensions (W x H x D):

105 mm x 60 mm x 40 mm (4.13 x 2.36 x 1.57 in).

Weight:

< 0,210 kg (8 Oz)
(without battery).

Accessories:

Transparent plastic case.



Flash fires before exposure to reduce "red-eye"



Flash switched on and off manually



Distance set manually to infinity (only possible without flash)



Slow shutter speeds may also be used (flash possible)



Battery state indicator



Digital indication of number of exposures taken with the loaded film, film speed, date and time



Exposure counter/timer for self-timer



Shows a film cartridge is loaded



Camera in self-timer mode

LEICA Compact Cameras

Specifications and Technical Data

LEICA Z2X

*Compact,
fully automatic,
AF, 35 mm format
viewfinder camera
with LEICA lens
VARIO-ELMAR 35-70 mm
for versatile,
creative photography*



Type:

Compact 35 mm format viewfinder camera with passive autofocus, automatic program mode and built-in flash. Also in black finish available.

Lens:

LEICA VARIO-ELMAR f/4 – 7.6/35 – 70 mm (7 elements in 6 components). Lens cover closes automatically when the camera is switched off.

Focusing range:

From 60 cm to infinity. Separate "infinity" setting.

Autofocus system:

Passive autofocus that measures at the pressure point of the release button and focuses when the shutter is released. When the available light is insufficient, the AF help light switches on automatically.

Exposure control:

Automatic program mode, center weighted, integral metering with automatic

flash activation in the universal program operating modes.

Memory:

(Metered value storage): Storage of the focus and exposure values occurs when light pressure is applied to the shutter release.

Exposure control:

+2 EV, can be switched on manually.

Working range:

(All values for ISO 100/21°):

For the operating modes with automatic flash activation or "ON" (manual flash activation):

At 35 mm:

From EV 9 (1/30 s and f/4) to EV 17 (1/300 s and f/20).

At 70 mm:

From EV 11.6 (1/50 s and f/7.6) to EV 17 (1/200 s and f/25).

For the operating modes with manual flash deactivation "OFF" or manual flash activation with long-time exposure "SLOW/ON":

Specifications and Technical Data

LEICA Compact Cameras

At 35 mm:

From EV 6 (1/4 s and f/4) to EV 17 (1/300 s and f/20).

At 70 mm:

From EV 7.9 (1/4 s and f/7.6) to EV 17 (1/200 s and f/25).

Exposure times:

1/4 to 1/300 seconds, "B" setting (up to 99 seconds)

Film speed setting:

Automatic film speed setting for DX coded films from ISO 50/18° to ISO 3200/36°. For films without DX code or with coding below ISO 50 the setting is automatically made for ISO 100/21°, for films with coding above ISO 3200, the setting is put to ISO 3200/36°. The individual codes are ISO 50, 64, 100, 125, 200, 250, 400, 500, 800, 1000, 1600, 2000, 3200.

Automatic flash:

In poor light conditions the flash is switched on automatically in the universal program. The flash can be switched on and off manually at any time. Additional, manual flash activation is also possible for long-time exposures (SLOW/ON). Pre-flash, to reduce the "red eye effect", is possible in the universal program operating modes or with manual flash activation (ON, SLOW/ON).

Flash range:

(all values for ISO 100/21°):

At 35 mm: 0.6 m - 5.1 m.

At 70 mm: 0.6 m - 2.7 m.

Viewfinder:

Bright, lucid, real image viewfinder with frames for AF metering field, close-up and panorama photographs (panorama adapter is available as an accessory).

Viewfinder magnification:

0.34 x at 35 mm, 0.74 x at 70 mm. Viewfinder field equivalent to 83% of the film format.

Light diodes:

- Red light diode: when it blinks it signalizes that the flash is charging and that the flash is ready when it lights up constantly.
- Green light diode: when it blinks it signalizes that the motive is too close or that there is a risk of camera shake due to a long exposure time. When it lights up constantly, it means that the focus and exposure meter value storage has taken place.

Film transport:

Automatic film threading and motorized advance to first frame. Motorized film transport after each exposure. When shutter release is held down: series exposure function. Motorized rewind occurs automatically at the end of the film. The film is wound back completely into the cartridge. It is also possible to rewind a partially exposed film.

Data field:



Liquid crystal display (LCD) shows symbols/numbers for: battery state, frame counter (alternatively time counter in seconds), flash and pre-flash activation and deactivation, long-time exposure, infinity setting, self-timer and exposure correction.

Self-timer:

Countdown time of approximately 10 seconds; displayed by light diode (LED) on the front of the camera. Activated by a separate button on the cover plate.

Power supply:

Long lasting lithium battery 3 V (CR 123 A).

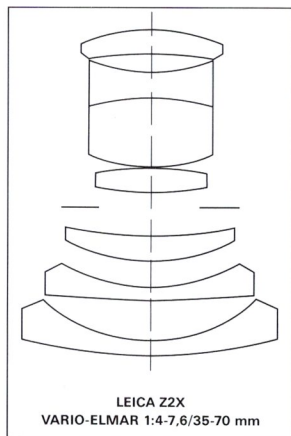
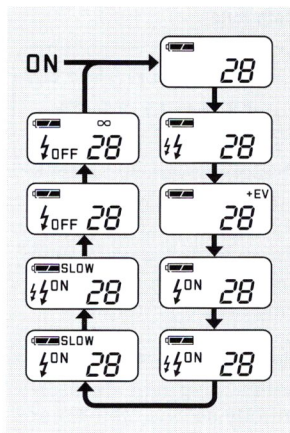
Switching the camera on/off:

With the ON/OFF switch on top of the camera. Lens moves into the ready or transportation position. The electronics switch off independently after about 5 minutes (stand-by mode). Reactivation by tapping on the shutter release, the zoom lever or the ON/OFF button.

LEICA

Compact Cameras

Specifications and Technical Data



The selected operating modes remain in effect until a different one is chosen or until the camera is switched off. When the camera is switched back on, it is automatically set to the universal program mode with automatic flash activation.

Housing:

Closed housing in elegant and ergonomic Leica design. Noose on the side to attach the carrying strap or the wrist strap. Tripod thread A 1/4 DIN 4503 (1/4").

Data back:

Available with or without data back (Available also in black finish). For imprinting day and time or the date on the film. Quartz controlled clock and automatic calendar up to the year 2019. Imprint intensity is controlled automatically according to the coded film speed.

Dimensions: (approximately):

Width 124 mm/height 69.6 mm/depth 42.6 mm (with data back 43.6 mm), (inches: 4.9/2.7/1.7, 1.72 for data back)

Weight (without batteries):

Approximately 245 g (without data back)
Approximately 248 g (with data back)

Operating modes

- ∞ OFF Universal program with automatic flash activation
- ⚡ OFF 28 Universal program with automatic flash and pre-flash activation
- +EV Universal program with automatic flash activation and exposure correction
- ⚡ ON Manual flash activation
- ⚡ ON Manual flash and pre-flash activation
- SLOW ∞ ON Manual flash activation with long-time exposure
- SLOW ⚡ ON Manual flash and pre-flash activation with long-time exposure

- ⚡ OFF Manual flash deactivation (when exposure metering is no longer possible due to insufficient light "B" appears in the data field: manual long-time exposure up to 99 seconds is possible).
- ∞ ∞ OFF Infinity setting with manual flash deactivation (when exposure metering is no longer possible due to insufficient light "NBi" appears in the data field: manual long-time exposure up to 99 seconds is possible).

Specifications and Technical Data

LEICA Compact Cameras LEICA DIGILUX 4.3



Type:

ultracompact, fully automatic viewfinder camera with 2.4 million megapixel-CCD sensor.

**Film format/sensor size/
data format/storage medium**
1/1.7" CCD-image sensor with a resolution of 2.4 million pixels, resulting file size 4.3 million pixels (2.400 x 1.800/1.280 x 960/640 x 480), 24 bit color, sensitivity equivalent to ISO 200/400/800, JPEG (Exif) w. 3 compression levels (1/5, 1/11, 1/27), Smart-Media™ cards 3.3 V 2-64 MB.

Compatibility

Windows 98.x, Windows NT 4.0, Windows 2000, MAC operating systems as of 7.5.5.

Lens

3 x zoom 8.3–24.9 mm f/2.8-5.4 ASPH, (equivalent to 36–108 mm in 35 mm-cameras).

Focusing range

Automatic or manual focusing from 25 cm to infinity.

Exposure control/ exposure metering

Programmed automatic exposure w. 64-zone TTL-metering.

Exposure compensation

Manual and auto bracketing mode ($\pm 1/3$, $\pm 2/3$, or ± 1 EV).

Shutter speed range

3 to 1/2000 sec.

Operation modes

- Option to store or erase single or all images.
- Images can be stored w. different file sizes and compression rates.
- Built-in flash is automatically activated in low light. Range approx. 0.2 m to 4 m (wide angle) and approx. 0.25 m to 3 m (telephoto).
- White balance controlled automatically (daylight, daylight/shade, fluorescent lamps w. warm, cold, or daylight tone).

Viewfinder/monitor

Optical real-image viewfinder. 2 inch LCD monitor with 130 000 pixels.

LCD (Liquid Crystal Display) data monitor

Symbols/ciphers for frame counter, battery status, chosen modes/functions/file size, quality level and storage card. Additional menu-guided displays especially for setting modes.

Self-timer

10 sec.

Continuous shooting

Up to 3 frames at 0.2 frames/sec.

Motion picture recording

Up to 80 sec with 10 frames/sec. and 320 x 240 pixels.

Playback mode

Single frame (with zoom up to 15 x), multi-frame (9 images), auto mode.

Power source

2 rechargeable NiMH batteries.

Body

metal body (aluminium/magnesium alloy). Eyelet on right side for hand strap. Tripod mount thread: A 1/4 DIN 4503 (1/4").

Interface

Audio/Video out: 3.5 mm mini-cinch, NTSC/PAL (depending on country version) Mini-USB port. Power supply: DC in 3 V.

Dimensions (W x H x D)

78 mm x 97.5 mm x 32.9 mm (3.8 x 3.1 x 1.3 in.)

Weight (without batteries)

255 g.
(9.0 Oz.)



M6 LEICA TRI-ELMAR-M 1:4/28-35-50 ASPH f:4,0/28
Kodak-Ektachrome 100



**LEICA Digital Imaging,
LEICA S1-Models
and Accessories**

Special edition



**The Leica studio cameras
have expanded**

Starting at photokina in 1998, our digital flagship, the LEICA S 1, is joined by two sophisticated new models:

The LEICA S 1 *HighSpeed* and the LEICA S 1 *Alpha*. Externally, they look like twins, but internally they are quite different:

Featuring the highest resolution, perfect color rendition and extraordinary flexibility, the LEICA S 1 continues to be the

top model for professional photographers who demand the highest possible quality. The suffix 'Pro' stands for enhanced performance characteristics and a 4-fold increase in light sensitivity.

LEICA S 1 - SilverFast

Software Made in Germany drives all three Leica scanner cameras. „The world's best scan software“ is made by LaserSoft.

LEICA
Digital Imaging

LEICA S 1
Alpha,
Pro and
HighSpeed

*Highest performance
scannercameras*

LEICA S 1 Alpha (Set)

Order no. 10 602 _____

LEICA S 1 Pro (Set)

Order no. 10 600 _____

LEICA S 1 HighSpeed (Set)

Order no. 10 601 _____

Upgrade S 1 to S 1 Pro

Order no. 15 710 _____

**Upgrade LEICA S 1 Alpha
to LEICA S 1 Pro**

Order no. 15 711 _____

Technical Data

	<i>LEICA S 1 Alpha</i>	<i>LEICA S 1 Pro</i>	<i>LEICA S 1 HighSpeed</i>
Max. resolution (Pixel)	2570 x 2570	5140 x 5140	4000 x 4000
Max. file size (MB),48/24-Bit* <small>*without interpolation</small>	38/19	152/76	96/48
Dynamic (D max)	3.3	3.3	3.0
Contrast range	11 f-stops	11 f-stops	10 f-stops
Scan array (mm)	36 x 36	36 x 36	36 x 36
Scantime fullscan (sec.)	75	185	18
Scantime fullpage (sec.)	75	75	15
Connection to computer (length in m/feet)	fibre optic 6, 12, 30 m or 18, 36, 90 feet	fibre optic 6, 12, 30 m or 18, 36, 90 feet	2 m/6 feet cable and interface box
Software (included)	LEICA S 1-SilverFast	LEICA S 1-SilverFast	LEICA Acquire and SilverFast HDR
Light sources	All continuous light sources: halogen light (modeling light), fluorescent and HMI		
Lens connection	LEICA M and R lenses, Zeiss/Hasselblad, Nikon, Canon FD, Minolta MD, Pentax, Olympus, M42, Mamiya 645 Pro, Sinar P		

7

Photography

Sensitivity

	Dynamic range	Speed	Binning 2x	Binning 3x
<i>LEICA S 1 Pro</i>	1:2000	24°/200 ISO	27°/400 ISO	29°/600 ISO
	1:1000	27°/400 ISO	30°/800 ISO	32°/1200 ISO
	1:256	33°/1600 ISO	36°/3200 ISO	38°/4800 ISO
<i>LEICA S 1 Alpha</i>	1:2000	27°/400 ISO	30°/800 ISO	32°/1200 ISO
	1:1000	30°/800 ISO	33°/1600 ISO	35°/2400 ISO
	1:256	36°/3200 ISO	39°/6400 ISO	41°/9600 ISO
<i>LEICA S 1 HighSpeed</i>	1:1000	24°/200 ISO	27°/400 ISO	
	1:256	30°/800 ISO	33°/1600 ISO	

LEICA S 1 *Pro*

Highest performance

With the new Leica S 1 *Pro*, Leica Camera, Solms has managed to further increase the imaging quality and productivity of the digital studio camera. This increase in performance is achieved with a remarkable new sensor which results in a maximum data quality at a high signal-to-noise ratio. This has a fourfold increase in light sensitivity, meaning that even critical photographic situations at low levels of illumination can be handled more effectively. The photographer can use the modeling light of his or her existing studio flash equipment for taking the shots, for instance.

The new sensor - including Binning and Anti-flicker - provides a 14 Bit signal for red, green and blue colours, which is processed in a 16 Bit data path. This results in clean colours without noise or blooming. Owners of the previous Leica S 1 can upgrade their system to the performance standard of the new Leica S 1 *Pro*.

LEICA S 1 *Alpha*

The entrance version

The Leica S 1 *Alpha* has a much more attractive price and is a desirable entry model into the world of professional digital recording and processing. With a resolving power of 2570 x 2570 pixels this scanner camera also surpasses the performance of chip cameras by far. In comparison with the Leica S 1 *Pro* it has a greater light sensitivity and scanning speed. The light sensitivity at maximum output corresponds to ISO 400/27°.

The photographer is investing in the future with the Leica S 1 *Alpha*. As soon as his requirements grow, he can upgrade the camera to a full-fledged Leica S1 *Pro*.



LEICA S 1 *Pro* with Leica lens R 2,8/100 APO-MACRO-ELMARIT.
The fibre optic cables are available up to 30 meters or 100 feet length.

LEICA Digital Imaging

LEICA S 1 *HighSpeed*

The fastest

The Leica S 1 HighSpeed has been designed for the shortest scanning times, it is the sprinter of the Leica S models. Thanks to its high frequency technology and the use of the faster SCSI interface for data transfer to the PC, this camera takes just 18 seconds to carry out a full scan. This makes it ten times faster than the Leica S 1 *Pro*, and the slightly higher price is more than compensated by its greater efficiency.

The Leica S 1 HighSpeed works with the Leica Acquire Program as well as with SilverFast HDR 4.0.

LEICA S 1 Set includes:

**LEICA S 1 camera
*Alpha, Pro or HighSpeed***

**Daylight Filter IRa E55
S-Adapter-R
Power Supply
PCI-board / Interface (HS)
6m fibre optic cable
mains unit and mains cable**

Software LEICA S1-Silverfast

Flexible Lens Adapter System ...



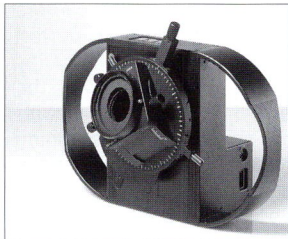
**LEICA S 1
without Adapter**



**LEICA S 1
with S-Adapter-R
(incl. in Set)**

From 15 to 1600 mm

All LEICA S cameras are supplied with an exchangeable LEICA S-Adapter-R. With the innovative adapter system nearly any lens can be mounted to a LEICA S 1 with perfect stability. The range is from Leica R- and M-lenses, other 35 mm lenses (with Novoflex and M-Adapter), Mamiya 645 Pro lenses, Novoflex-bellow, to all Hasselblad-lenses (with full Tilt & Shift feature).



**... with
S-Tilt & Shift-Adapter HA**

Microscope-Adapter
Ask the LEICA Hotline:
++ 49 (0) 6442 - 208 500

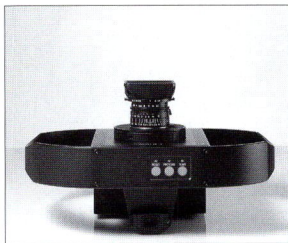
S-Tilt & Shift-Adapter HA expands the accessories program

This extremely stable new accessory allows the photographer to use Hasselblad lenses. The adapter takes up a special position in the range of six lens adapters available in the Leica S system, which makes it possible to use lenses of virtually any significant manufacturer. With its adjusting possibilities it even surpasses some of the features of a large-format camera. It forms a stable unit with the camera, of the kind which cannot be reached with the relatively high image standards of a folding camera.

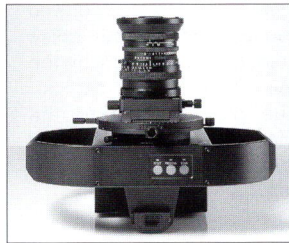
The new S-Tilt&Shift-Adapter HA is an absolutely essential piece of equipment for the shooting and reproduction of pictures which are not hung at eye-level, or where disturbing reflections are to be avoided.



LEICA S 1 with R-Lens



... with LEICA M-Lens

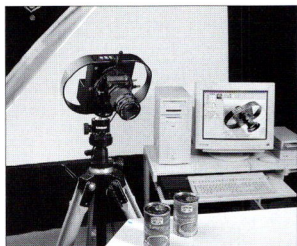


... with Hasselblad-Lens

7

Photography

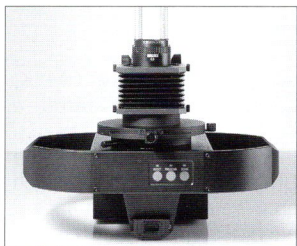
... for unlimited applications



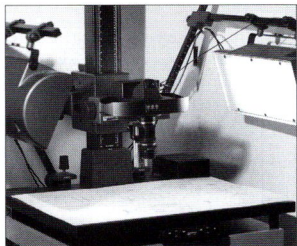
Packshots

Using the tilt function it is possible to sharply focus from the base plane up to the horizon. This tilt function has also proved essential when taking shots of products, keypads of calculators for instance, or telephones or computers. In archeology, where shots of excavation work can often only be taken in three-quarter view, the tilt technique can achieve sharp imaging of the area right up to the horizon.

The adapter basically comprises a large shift plate which can undergo parallel displacement of 11 millimetres in each direction in the lowest



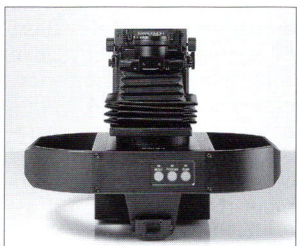
... with Novoflex-bellow



On a copystand

plane, and can be freely rotated through 360°. For this purpose there are catch stops in steps of 45°. Positioned on this heavy shift plate is the cylindrical tilting member. This leads to the angle of coverage of the lens always hitting the scan window with the sensor.

Therefore, if the lens is inclined downwards, it also moves down a little so that vignetting does not occur. The cylinder on which the lens is moved is additionally equipped with a type of curtain with a very intricate mechanical design.



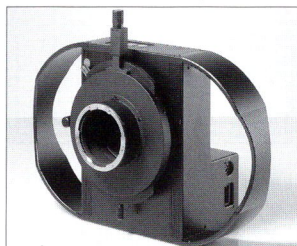
... Horseman-Adapter

LEICA Digital Imaging

- S-Adapter-R**
included in Set
- S-Adapter-M**
Order no. 15 310
- S-Adapter HASSELBLAD**
Order no. 15 340
- S-Tilt & Shift-Adapter HA**
Order no. 15 350
- S-Shift-Adapter NOVOFLEX**
Order no. 15 390
- S-Shift-Adapter MAM**
Order no. 15 400
- S-Adapter Sinar P**
Order no. 15 410

With respect to the inclining possibility of max. 20°, the new S-Tilt&Shift-Adapter-HA for the Leica S cameras surpasses the large-format cameras by far. In these large-format cameras, the height of the image standards during wide-angle shots would lead to the image standards already touching, due to the short extension.

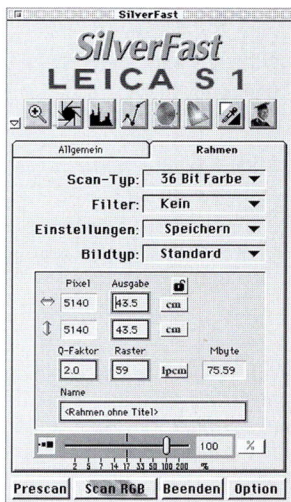
With the new S-Tilt & Shift-Adapter-HA the photographer can severely tilt the lenses, even for wide-angle shots, and use this effect for creative picture composition.



... Mamiya 645 Pro-Adapter

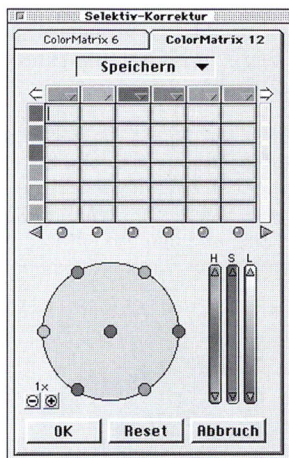
LEICA S 1 - SilverFast

The software which makes the difference in color correction



The Leica S 1-SilverFast software offers a precise prescan concept with excellent tools.

7



Photography

Lasersoft's unique selective color correction is able to control 12 different colors.

Through the development of SilverFast, LaserSoft GmbH has provided professional tools for scanning, color management and image reproduction. SilverFast not only enables professionals to achieve high-quality color-management, but also helps beginners to obtain excellent results. The tools are organised in such a way that the novice user is also able to produce exceptional results. SilverFast works in close conjunction with Photoshop, providing the ideal bridge between the scanner hardware and the sophisticated image manipulation environment that Photoshop offers. By controlling the scanner directly, an optimal quality

image can be obtained and placed into a Photoshop window.

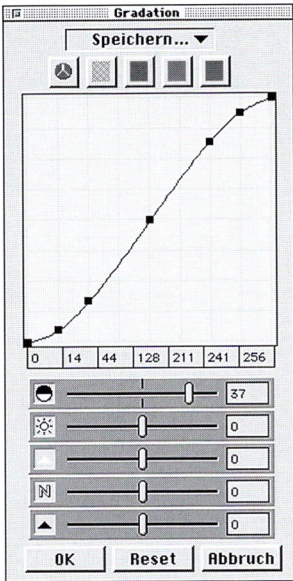
LaserSoft is an expert at traditional image processing and scanner technology. This knowledge was the basis for new developments, resulting in extremely powerful tools, which can solve even the most difficult problems in color-correction and separation.

With Plug + Play CMYK, LaserSoft has invented a very powerful way to match the scanner preview and the CMYK in Photoshop which enables even the non-experienced user to directly control the colors easily.

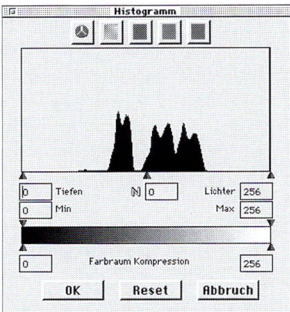
*Software tools which
are easy and precise*

Filter

*Infrared Cut Off
Filters for the
LEICA S 1 System
for perfect color
rendition.*



The gradation dialog offers fast and convenient adjustments.



The histogram in SilverFast is a powerful tool to examine the image data in order to optimise them manually or auto-adjust the tonal values.



The LEICA S 1 has to be operated with an infrared cut off (IRa) filter in place. For that reason, the basic filter for daylight-type Illumination IRa E 55 is supplied with the LEICA S 1 set. IRa-filters for lenses with filter diameters of 55, 60 and 67 mm are available as separate accessories, in both daylight and tungsten light versions. All medium format adapters have thread that accepts E 67 filters so that a single filter size can be used for a great variety of lenses. The standard S-Adapter-R accepts E 55 filters. The Daylight Filter IRa E 55 is included in the set.

Filter

Daylight Filter IRa E55
(included in set)

Daylight Filter IRa E60
Order no. 13 603 _____

Daylight Filter IRa E67
Order no. 13 606 _____

Tungsten Filter IRa II E55
Order no. 13 601 _____

Tungsten Filter IRa II E60
Order no. 13 604 _____

Tungsten Filter IRa II E67
Order no. 13 607 _____



M6 LEICA SUMMICRON-M 1:2/50 f:4,0
Kodak-Kodachrome 25

LEICA Projectors and Dissolve-Control Units

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LEICA Projectors

LEICA PRADOVIT P 150 models

*LEICA PRADOVIT
P 150
(Cable-
remote control)*



*LEICA PRADOVIT
P 150 IR
(Infrared-
remote control)*

LEICA PRADOVIT P 150



Automatic 35 mm-slide projector in modern design for three different types of basic slide magazine system:

- LKM-magazine (compact, spill-proof) for 60 or 80* slides.
- Standard magazines for 36 or 50* slides.

- CS magazines for 40 or 100* slides.
- Cable remote-control, integrated in projector housing, detachable (cable length approx. 1.65 m, 5' 5"). Slide change: 1.5 s. Autofocus with manual override via remote-control. Single-slide projection facility. Slide

preview editing panel. Appliance (mains) cable (attached), length approx. 1.5 m (4' 11"). High optical performance with projection lens COLORPLAN-P 2 f/2.5/90 mm. More lenses and accessories from page 8-6 Detailed description page 8-29

LEICA P 150 with autofocus (220 V / 50 Hz) complete with 24 V / 150 W halogen lamp, cable remote-control and lens HEKTOR-P 2 f/2.8/85 mm

8

Projection

Order No. **30 421** _____

Order No. **30 453** _____

Order No. **30 498** _____

230 V / 50 Hz

240 V / 50 Hz

120 V / 60 Hz

Projector, complete with halogen lamp and cable remote-control, **without** lens

Order No. **30 420** _____

230 V / 50 Hz

* Not suitable with the
ELMARIT-P 2 f/2.8/60 mm

(Projection lenses marked "P 2" are not compatible with LEICA P 153 / P 253 or any earlier Pradovit projectors)

LEICA PRADOVIT P 150 IR



Technical outfit is the same as PRADOVIT P 150 except:

- with **additional** IR remote control

LEICA P 150 IR with autofocus, complete with 24V/150W lamp, cable and IR remote controls (without 9V block alkali manganese battery), with lens HEKTOR-P2 f/2.8/85 mm.

230 V/50 Hz

240 V/50 Hz

Order No. **30 842** _____

Order No. **30 911** _____

Projector, complete with lamp, cable and IR remote controls (without battery), **without** lens

230 V/50 Hz

Order No. **30 840** _____

(„P2“ lenses do not fit on PRADOVIT 153/253 or any previous Pradovit projector)

LEICA Projectors

Lenses and Accessories

Projection lenses

Order No. **37 510** _____

Order No. **37 511** _____

Order No. **37 512** _____

ELMARIT-P 2

HEKTOR-P 2

COLORPLAN-P 2

(PRADOVIT P 150 models)

f/2.8/60 mm

f/2.8/85 mm

f/2.5/90 mm

Case



for dust-free storage of projector and lens

Height: 290 mm

Width: 325 mm

Depth: 150 mm

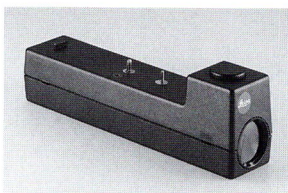
Order No. **37 321** _____

Light pointer*)

Order No. **37 310** _____

Replacement bulb for light-pointer

Order No. **37 304** _____

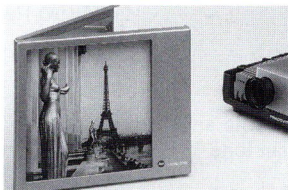


attachable to cable

remote-control unit; power supply via projector.

*) not for LEICA PRADOVIT P 150 IR

Monitor



for slide viewing in daylight. Universally suitable for all common projectors. (picture 23 x 23 cm, 9 x 9 in)

Order No. **37 331** _____

Detailed accessory descriptions from page 8-39

LEICA Projectors

Lenses and Accessories

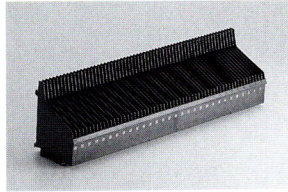
Slide-magazines

with 2 60-slide magazines

Order No. **37 979** _____

with 2 80-slide magazines

Order No. **37 980** _____

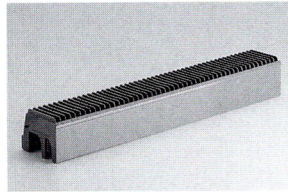


with 2 36-slide standard magazines

Order No. **37 844** _____

with 2 50-slide standard magazines

Order No. **37 855** _____



Magnifier

Universal Magnifier 5x
in velour bag, complete with accessories incl. carrying cord

black anodized finish

Order No. **37 350** _____



LKM-stacking box

Stacking box

(standard magazines)



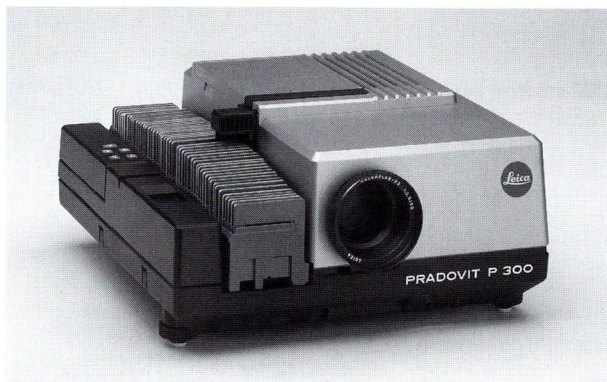
Universal-Magnifier 5x

Versatile magnifying glass. Brilliant, sharp to the edges and free of distortions. For viewing transparent objects (slides) and surfaces (prints). Rubber-armored eyepiece and base to protect eyeglasses and viewing material. Slide adapter with integrated film strip guide. Removable carrying cord.

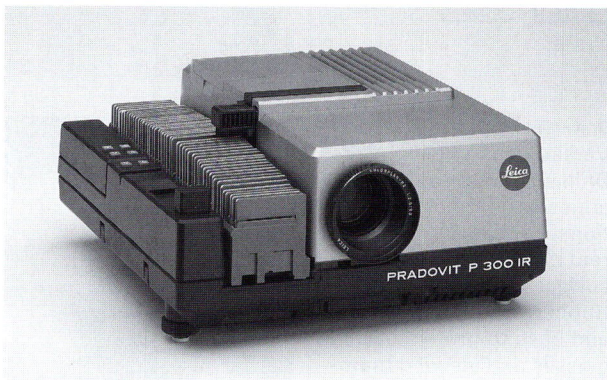
LEICA Projectors

LEICA PRADOVIT P 300 models

**LEICA PRADOVIT
P 300**
(Cable remote control)



**LEICA PRADOVIT
P 300 IR**
*(Infrared
remote control)*



8

Detailed product description on page 8-31

* Not suitable with the ELMARIT-P2 f/2.8/60 mm

LEICA PRADOVIT P 300

comfort projector, with autofocus, built-in TRIAC, cable remote control, lamp 24 V/250 W.

LEICA PRADOVIT P 300 IR

comfort projector with autofocus, built-in TRIAC, infrared remote control (without battery 9 V IEC 6 F 22), with lamp 24 V/250 W.

Automatic 35 mm slide projector in modern design for three different magazine systems:

- LKM magazines (compact, spill-proof) for 60 or 80* slides.
- Standard magazines for 36 or 50* slides.
- CS magazines for 40 or 100* slides.

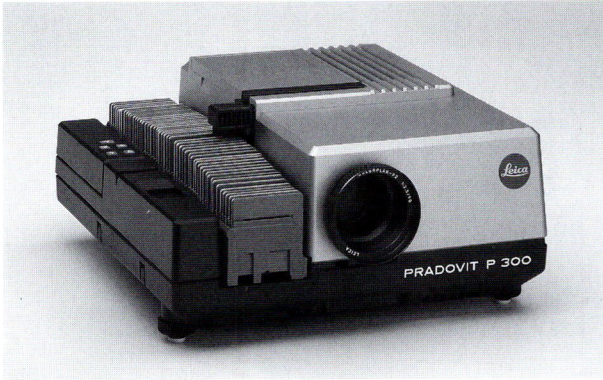
Integrated remote control with light pointer¹⁾. Rapid slide change: 1.3 s auto focus with manual override via remote control. Equipped for Dissolve-Control unit via built in TRIAC. Swing-out single slide mechanism. Slide pre-view-

ing. Socket for a reading lamp. Integrated appliance (mains) cable approx. 2 m (6 ft 6 in) long. Fold-out carrying handle. High optical performance with:

- SUPER-COLORPLAN-P 2 2.5/90 mm
 - COLORPLAN-P 2 2.5/ 90 mm
 - Projection lenses with focal lengths from 60 to 200 mm
 - Zoom projection lenses 70-120 and 85-150 mm.
- FWU approved, CE, GS and international examination symbols.

¹⁾ light pointer only for P 300

LEICA
PRADOVIT P 300



Comfort projector with autofocus, built-in TRIAC, cable remote control, lamp 24 V/250 W.

LEICA PRADOVIT P 300 with autofocus lamp
24 V/250 W and cable remote control

230 V/50 Hz
240 V/50 Hz

Order No. **30 820** _____
Order No. **30 919** _____

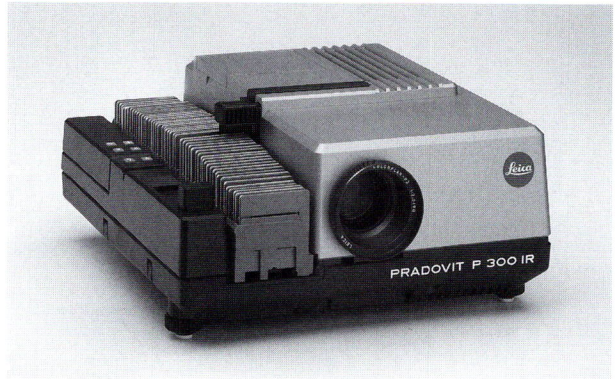
(The "P 2" lenses do not fit the PRADOVIT 153 / 253 or any earlier Pradovit projectors)

More lenses and accessories starting on page 8-11

Detailed product description page 8-31

LEICA Projectors

LEICA PRADOVIT P 300 IR



Comfort projector with autofocus, built-in TRIAC, infrared remote control

(without 9 V, IEC 6 F 22 battery), lamp 24 V/250 W.

LEICA PRADOVIT P 300 with autofocus lamp 24 V/250 W and cable remote control

Order No. **30 830** _____

230 V/50 Hz

Order No. **30 921** _____

240 V/50 Hz

8

(The "P 2" lenses do not fit the PRADOVIT 153 / 253 or any earlier Pradovit projectors)

More lenses and accessories starting on page 8-11

Detailed product description page 8-31

Projection

LEICA Projectors

Lenses and Accessories

Projection lenses

(PRADOVIT P 300 models)

ELMARIT-P2	f/2.8/ 60 mm
HEKTOR P2	f/2.8/ 85 mm
COLORPLAN-P2	f/2.5/ 90 mm
SUPER-COLORPLAN-P2	f/2.5/ 90 mm
ELMARIT-P2	f/2.8/120 mm
ELMARIT-P2	f/2.8/150 mm
ELMARON-P2	f/3.4/200 mm
VARIO-ELMARIT-P2	f/2.8/70 – 120 mm
VARIO-ELMARON-P2	f/4/85 – 150 mm

(Projection lenses marked "P2" are not compatible with LEICA P153/P253 or any earlier Pradovit projectors)

P2-lens-sleeve for P2002

Case sturdy hard cover case for easy transport and dust-free storage of projector and lens up to 150 mm focal length including zoom lenses 70-120 and 85-150 mm.
Height: 355 mm
Width: 415 mm
Depth: 170 mm



Order No. **37 540** _____

Case

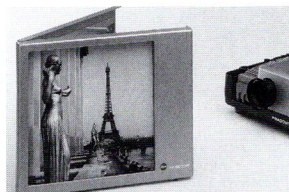
Order No. **37 323** _____

Reading lamp

to be plugged in
Order No. **37 313** _____
Replacement lamp
for reading lamp
Order No. **37 308** _____



for slide viewing in daylight.
Universally suitable for all common projectors.
(picture 23 x 23 cm, 9 x 9 in)



Monitor

Order No. **37 331** _____

Detailed accessory descriptions from page 8-39

LEICA Projectors

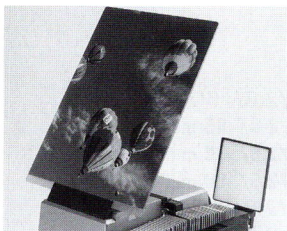
Accessories

Daylight attachment

(PRADOVIT P 300 models)

Can be set on to the projector housing quickly and easily. Converts the PRADOVIT P 300 and P 600 units into daylight projectors (picture 30 x 36 cm, 12 x 14 in)

Order No. **37 333** _____

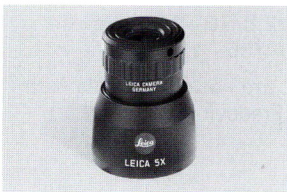


Universal-Magnifier 5x

in velour bag, complete with accessories incl. carrying cord

black anodized finish

Order No. **37 350** _____

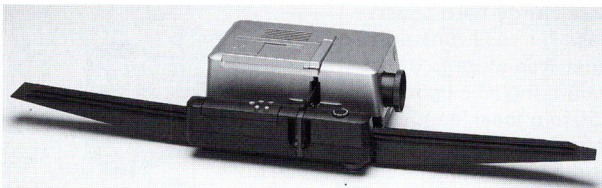


Versatile magnifying glass. Brilliant, sharp to the edges and free of distortions. For viewing transparent objects (slides) and surfaces (prints). Slide adapter with integrated film strip guide.

*Magazine track extension**

* for use with lenses from 120 mm

Order No. **37 329** _____



The magazine track extension is attached on to the front and the back of the projectors and permits the

consecutive viewing of several magazines without pause. Detailed descriptions from page 8-38

LEICA Projectors

Accessories

(PRADOVIT P 300 models)

Range approx. 20 m (65 ft).
Connecting cable 0.60 m
(2 ft), with connecting plug
for 14-pin socket on projec-
tor. Power supply via 9 V
battery IEC 6 F 22.



Infrared remote-control IR PCM

Order No. **37 990** _____

Multiple connecting socket
for simultaneous connec-
tion of e. g. sound impulse

generator and cable remote-
control (6- and 14-pin)

Order No. **37 631** _____

Cable remote-control,
separate with built-in light
pointer (3 m, 10 ft)

(for projectors P 155 / P 255
from Serial No. 213 051),
PRADOVIT P 300 / P 300 IR

Order No. **37 318** _____

**Extension cable for separate
cable remote-control**
(length approx. 10 m, 33 ft)

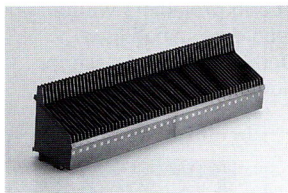
(for projectors P 155 / P 255
from Serial No. 213 051),
PRADOVIT P 300 / P 300 IR

Order No. **37 319** _____

**Replacement lamp for
light pointer**

Order No. **37 307** _____

LKM stacking container



Slide-magazines

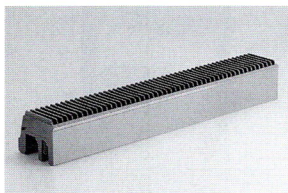
with 2 magazines for
60 slides each

Order No. **37 979** _____

with 2 magazines for
80 slides each

Order No. **37 980** _____

Stacking container
(standard magazines)



with 2 standard magazines
for 36 slides each

Order No. **37 844** _____

with 2 standard magazines
for 50 slides each

Order No. **37 855** _____

**Projection lamps,
reading-, autofocus- and light-
pointer lamps**

Replacement bulbs available
from Leica Camera's Custo-
mer Service Department,
or from your national Leica
Camera agency. (Please
give exact technical data.)

Replacement parts

Detailed accessory description from page 8-38

8
Projection

LEICA Projectors

Accessories

(PRADOVIT P 300 models)

LEICA DU-24 MT



For manual dissolve control with two projectors and without recording possibilities. With built-in timer that can be switched off.

Order No. **37 996** _____

Usage possibilities:

Home projection, presentations, advertising, educational and informational areas.

Detailed description on page 8-42.

LEICA DU-24 M2



For manual dissolve control of two projectors without recording capability. Detailed product description on page 8-43.

Order No. **37 997** _____

Recommended use:

Home projection; professional slide presentation; advertising, teaching and lectures.

Dissolve projection console



Order No. **37 324** _____

Convenience and to avoid vibrations, three projectors can be installed above each other with this rack (suitable for all Leica projectors). The platforms can be swivelled out of their horizontal position by 5° up or down.

Height: 620 mm

Width: 545 mm

Depth: 377 mm

Weight: 15.5 kg

Dissolve console



Order No. **37 325** _____

for the space saving, safe set-up of two PRADOVIT P 300 or P 600 projectors on top of each other.

LEICA PRADOVIT P 600 models

**LEICA PRADOVIT
P 600
(Cable-
remote control)**

**LEICA PRADOVIT
P 600 IR
(Infrared
remote control)**

FWU approved, CE, GS and international examination symbols.

Detailed product description on page 8-33

* Not suitable with the ELMARIT-P 2 f/2.8/60 mm

LEICA PRADOVIT P 600

comfort projector, with autofocus, built-in TRIAC, automatic lamp changer, timer, cable remote control, 2 lamps 24 V/250 W.

LEICA PRADOVIT P 600 IR

comfort projector with autofocus, built-in TRIAC, automatic lamp changer, timer, infrared remote control with integrated laser pointer (without 9 V block and 2 micro 1,5 V), with 2 lamps 24 V/250 W.



Automatic 35 mm slide projector in modern design for four different magazine systems:

- LKM magazines (compact, spill-proof) for 60 or 80* slides.
- Standard magazines for 36 or 50* slides.
- CS magazines for 40 or 100* slides.
- Round magazine for 120 slides

Integrated remote control with light pointer or laser pointer for P 600 IR model. Rapid slide change: 1.3 s intelligent auto focus (differentiates between glassless and glass coated slides and adapts focusing automati-

cally) with manual override via remote control. Timer for automatic slide presentations. Equipped for Dissolve-Control unit via built in TRIAC. Automatic lamp changer. Swing-out single slide mechanism. Slide previewing. Separate appliance (mains) cable approx. 2 m (6 ft 6 in) long. High optical performance with:

- SUPER-COLORPLAN-P 2 2.5/90 mm
- COLORPLAN-P 2 2.5/ 90 mm
- Projection lenses with focal lengths from 60 to 250 mm
- Zoom projection lenses 70-120 and 100-200 mm.

LEICA Projectors

LEICA PRADOVIT P 600



Comfort projector with
autofocus, built-in
TRIAC, automatic

lamp changer, timer,
cable remote control,
2 lamps 24 V/250 W.

LEICA PRADOVIT P 600 with autofocus, 2 lamps
24 V/250 W and cable remote control

Order No. **30 950** _____

230 V/50 Hz

Order No. **30 926** _____

240 V/50 Hz

(The "P2" lenses do not fit the PRADOVIT 153 / 253 or
any earlier Pradovit projectors)

More lenses and accessories starting on page 8-18

Detailed product description page 8-33

**LEICA
PRADOVIT
P 600 IR**



Comfort projector with autofocus, built-in TRIAC, infrared remote control with integrated laser pointer

(9 V block and 2 micro 1,5 V batteries), automatic lamp changer, 2 lamps 24 V/250 W.

LEICA PRADOVIT P 600 IR with autofocus, 2 lamps 24 V/250 W and IR remote control (without battery)

230 V / 50 Hz

240 V / 50 Hz

Order No. **30 970** _____

Order No. **30 928** _____

(The "P2" lenses do not fit the PRADOVIT 153 / 253 or any earlier Pradovit projectors)

More lenses and accessories starting on page 8-18

Detailed product description page 8-33

LEICA Projectors

Lenses and Accessories

Projection lenses

(PRADOVIT P 600 models)

Order No. **37 510** _____
Order No. **37 511** _____
Order No. **37 512** _____
Order No. **37 515** _____
Order No. **37 516** _____
Order No. **37 520** _____
Order No. **37 521** _____
Order No. **37 518** _____
Order No. **37 524** _____

ELMARIT-P 2 f/2.8/ 60 mm
HEKTOR P 2 f/2.8/ 85 mm
COLORPLAN-P 2 f/2.5/ 90 mm
ELMARIT-P 2 f/2.8/120 mm
ELMARIT-P 2 f/2.8/150 mm
ELMARON-P 2 f/3.4/200 mm
ELMARON-P 2 f/4/250 mm *
VARIO-ELMARIT-P 2 f/2.8/70 – 120 mm *
VARIO-ELMARON-P 2 f/3.5/100 – 200 mm **

** only up to 24x36 mm format

(The "P 2" lenses do not fit on PRADOVIT 153 / 253 or any of the earlier PRADOVIT projectors)

Order No. **37 540** _____

P 2-lens-sleeve for P 2002

Case

Order No. **37 323** _____

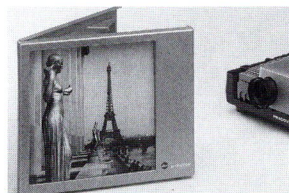


Case

sturdy hard cover case for easy transport and dust-free storage of projector and lens up to 150 mm focal length including zoom lenses 70-120 and 85-150 mm
Height: 355 mm
Width: 415 mm
Depth: 170 mm

Monitor

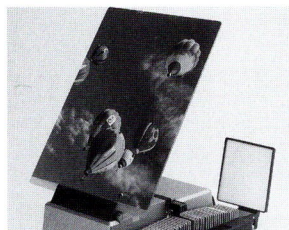
Order No. **37 331** _____



for slide viewing in daylight. Universally suitable for all common projectors. (picture 23 x 23 cm, 9 x 9 in)

Daylight attachment

Order No. **37 333** _____



Can be set on to the projector housing quickly and easily. Converts the PRADOVIT P 300 and P 600 units into daylight projectors. (picture 30 x 36 cm, 12 x 14 in)

Detailed accessory descriptions from page 8-39

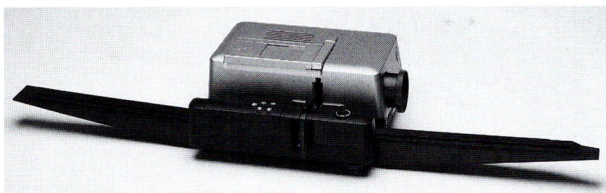
Versatile magnifying glass. Brilliant, sharp to the edges and free of distortions. For viewing transparent objects (slides) and surfaces (prints). Slide adapter with integrated film strip guide.



Universal-Magnifier 5x

in velour bag, complete with accessories incl. carrying cord
black anodized finish

Order No. **37 350** _____



Magazine track extension*

The magazine track extension is attached on to the front and the back of the projectors and permits the

consecutive viewing of several magazines without generator and cable remote-control (6- and 14-pin)

* for use with lenses from 120 mm

Order No. **37 329** _____

Detailed accessory descriptions from page 8-38

Range approx. 20 m (65 ft). Connecting cable 0.60 m (2 ft), with connecting plug for 14-pin socket on projector. Power supply via batteries 2 x micro 1.5 V.



Infrared remote-control IR PCM

Detailed accessory descriptions from page 8-40

Order No. **37 990** _____

Multiple connecting socket for simultaneous connection of e. g. sound impulse

Cable remote-control, separate with built-in light pointer (3 m, 10 ft)

Extension cable for separate cable remote-control (length approx. 10m, 33 ft)

Replacement lamp for light pointer

PRADOVIT P 600 / P 600 IR

PRADOVIT P 600 / P 600 IR

Detailed accessory descriptions from page 8-38

Order No. **37 631** _____

Order No. **37 320** _____

Order No. **37 319** _____

Order No. **37 307** _____

LEICA Projectors

Accessories

(PRADOVIT P 600 models)

Order No. **37 229** _____

Change condenser
for PRADOVIT P 600-
models with ELMARON P 2
3,4 / 200 mm and

a replacement for P 2
lenses 110 - 200 mm and
250 mm

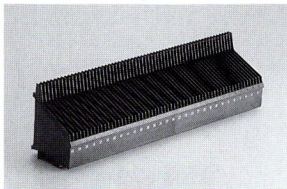
Slide-magazines

with 2 magazines for
60 slides each

Order No. **37 979** _____

with 2 magazines for
80 slides each

Order No. **37 980** _____



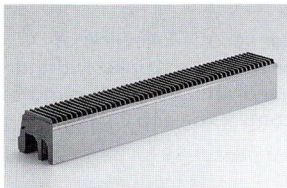
LKM stacking container

with 2 standard magazines
for 36 slides each

Order No. **37 844** _____

with 2 standard magazines
for 50 slides each

Order No. **37 855** _____



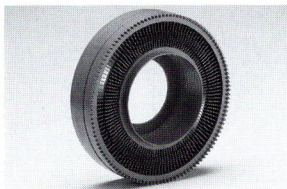
Stacking container
(standard magazines)



Round tray

for 120 slides
in an archive carton

Order No. **37 327** _____



Replacement parts

**Projection lamps,
reading-, autofocus- and light-
pointer lamps**

Replacement bulbs available
from Leica Camera's Custo-
mer Service Department,
or from your national Leica
Camera agency. (Please
give exact technical data.)

Detailed accessory descriptions from page 8-38

LEICA Projectors

Accessories

(PRADOVIT P 600 models)



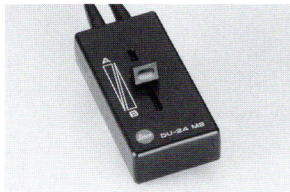
LEICA
DU-24 MT

For manual dissolve control with two projectors and without recording possibilities. With built-in timer that can be switched off.

Usage possibilities:
Home projection, presentations, advertising, educational and informational areas.

Detailed description on page 8-42.

Order No. **37 996** _____



LEICA
DU-24 M2

For manual dissolve control of two projectors without recording capability.

Recommended use:
Home projection; professional slide presentation; advertising, teaching and lectures.

Detailed product description on page 8-43.

Order No. **37 997** _____

Convenience and to avoid vibrations, three projectors can be installed above each other with this rack (suitable for all Leica projectors). The platforms can be swivelled out of their horizontal position by 5° up or down.

Height: 620 mm

Width: 545 mm

Depth: 377 mm

Weight: 15.5 kg



Dissolve projection console

Order No. **37 324** _____

for the space saving, safe set-up of two PRADOVIT P 300 or P 600 projectors on top of each other.

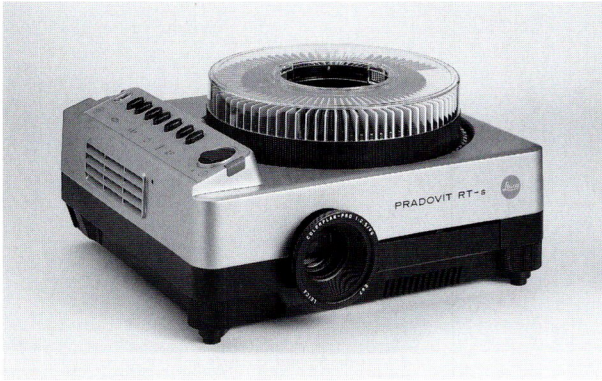


Dissolve console

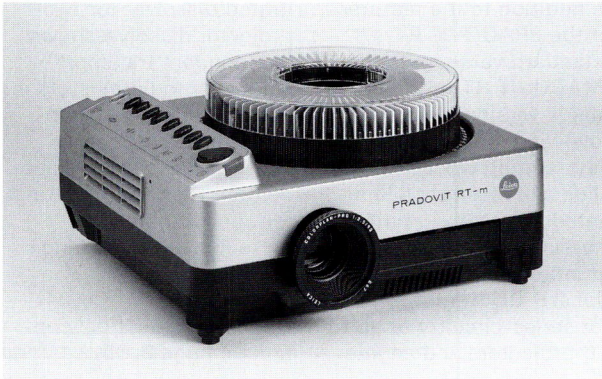
Order No. **37 325** _____

LEICA Projectors

LEICA PRADOVIT RT models



**LEICA PRADOVIT
RT-s**



**LEICA PRADOVIT
RT-m**

Microprocessor controlled, 35 mm format, round-tray projectors in a modern Leica design. Round trays for 80 or 140 slides, dust-free and spill-proof. Illuminated operation symbols for slide transport and focusing. Auto-focus button, stand-by button and timer. Slide change in 0.88 seconds. Lamp-saving switch. Modular illumination

system with automatic lamp change. Automatic baffle when the slide slot is empty (can be controlled for effects). Automatic reset function when the projector is switched on. "PRO" lenses with \varnothing 52.5 mm. "PRO" lens range from 35 – 300 mm. Height adjustment $>10^\circ$ via two setting rings.

LEICA PRADOVIT RT-s and PRADOVIT RT-m

110 – 240 v, 50-60 Hz, can be switched back and forth

8 pin connection socket for accessories.

P-BUS interface for digital control.

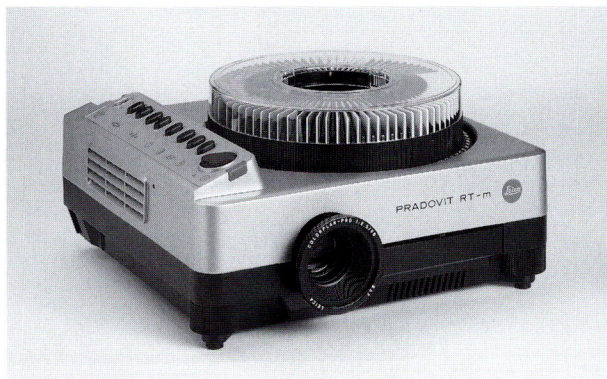
Complete with 2 lamps 82 V/300 W, connection cable and round tray

LEICA PRADOVIT RT-m
Additional equipment
see page 8-24

LEICA Projectors

LEICA PRADOVIT RT models

LEICA PRADOVIT RT-m



In addition to the features of the PRADOVIT RT-s (standard version), the PRADOVIT RT-m (multi-media version) offers the following: automatic tray zero-setting when the slide slot is empty (illuminated zero-setting button). AV slot for the integration of individual control solutions. P-BUS out interface for series-circuitry of up to 16 projectors and an inte-

grated dissolver for two-projector dissolve-shows. Independent transport control of the projectors in parallel operation. Auto-timer function (1 – 60 seconds) via the IR remote control. High-Light setting for approximately 20 % more light with flashing display.

Detailed product description on page 8-35.

8

Projection

Order No. **30 888** _____

LEICA PRADOVIT RT-s, housing with connection cable, round tray for 80 slides, 2 lamps 82 V/300 W

Order No. **30 890** _____

same as order number 30 888 but as **USA/CDN version**.

Order No. **30 889** _____

LEICA PRADOVIT RT-m, housing with connection cable, round tray for 80 slides, 2 lamps 82 V/300 W

Order No. **30 891** _____

same as order number 30 889 but as **USA/CDN version**

(PRADOVIT RT models)

ELMARIT-PRO	2.8/35 mm
ELMARIT-PRO	2.8/45 mm
COLORPLAN-PRO	2.5/90 mm
SUPER-COLORPLAN-PRO	2.5/90 mm
ELMARIT-PRO	2.8/120 mm
ELMARIT-PRO	2.8/150 mm
ELMARON-PRO	3.4/200 mm
VARIO-ELMARON-PRO	3.5/70-120 mm ³⁾
VARIO-ELMARON-PRO	3.5/100-300 mm ²⁾

PC-ELMARIT-PRO	2.8/60 mm ³⁾
PC-ELMARIT-PRO	2.8/90 mm ³⁾

Hard-cover case for PRADOVIT-RT models

for projector + tray +
1 lens from 35 - 300 mm +
accessories

Height: 365 mm

Width: 400 mm

Depth: 295 mm



Lense sleeve

Dissolve-cable

Lenses and accessories

Projection lenses PRO¹⁾

Order No. 37 352	_____
Order No. 37 353	_____
Order No. 37 354	_____
Order No. 37 355	_____
Order No. 37 356	_____
Order No. 37 357	_____
Order No. 37 358	_____
Order No. 37 363	_____
Order No. 37 360	_____

PC projection lenses PRO

Order No. 37 361	_____
Order No. 37 362	_____

Cases

Order No. 37 378	_____
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Order No. 37 375	_____
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Order No. 37 380	_____
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Detailed product description PC projection lenses
PRO on page 8-37

¹⁾ 52.5 mm, standard threaded
tube, filter thread 67 mm

²⁾ Lens sleeve:
order no. 37 380 is include

³⁾ Lens without filter thread

LEICA Projectors

Accessories

(PRADOVIT RT models)

Lens adapters P/P2 to RT

Order No. **37 366** _____

for P- and P2- lenses¹⁾ on
PRADOVIT RT projectors

¹⁾ P: 2,8/150; 3,4/200; 3,5/
60-110; 3,5/100-200, PC
2,8/60, PC 2,8/90.

P2: 2,5/90/CF; SupCol 2,5/90;
2,8/120; 2,8/150; 3,4/200;
4/250; 3,5/100-200; 4/85-150

Cable remote control

Order No. **37 370** _____

for RT projectors,
cable length: 4 m

Extension cable

Order No. **37 374** _____

for RT cable remote control and
infrared receiver, cable length: 8 m

IR remote control and IR receiver

Order No. **37 371** _____

for RT projectors
Functions:

- direct slide selection
- dissolve control function
(2 RT projectors)
- stand-by setting*
- auto-timer function*
- parallel control*

with laser-pointer

Order No. **37 372** _____

* PRADOVIT RT-m

IR receiver (separately)

Order No. **37 373** _____

for RT IR remote control

Lamp module (replacement)

Order No. **37 377** _____

for RT projectors

Halogen light bulb (EXR / L 85 82 V 35 h / 300 W)

Order No. **37 779** _____

for RT projectors

Round tray

Order No. **37 369** _____

for 80 slides for
round tray projectors

8

Projection

Important information:

For the application of demanding dissolve technique with PRADOVIT projectors we recommend Stumpfl SD control units and WINGS software. The longstanding cooperation between the companies Leica Camera AG and Stumpfl GmbH has proven to be worthwhile and brings additional advisory and service advantages. For information about the control units SD 102, SD 302, SD 404 POWER MEMORY and about WINGS for Windows, please contact:

Stumpfl GmbH
Mitterweg 46
A-4702 Wallern
Tel. +43 (0) 72 49/4 28 11
Fax +43 (0) 72 49/42 81 14
Internet:
<http://www.stumpfl.com>
E-mail:
Stumpfl@Stumpfl.com



**LEICA
PRADOVIT P 150
models**

***LEICA PRADOVIT
P 150
(Cable-
remote control)***



***LEICA PRADOVIT
P 150 IR
(Infrared-
remote control)***

Type:

Automatic 35 mm-slide projector.

Magazine systems:

LKM-magazines for 60 or 80 slides. Universal magazines for 36 or 50 slides. CS-magazine for 40 or 100 slides.

Lens:

High optical performance with COLORPLAN-P 2 f/2.5/90 mm

Body:

Modern design, upper body in metallic lacquer. Impact-resistant, high-quality synthetic with textured surface. Modular component system facilitates easy servicing. Secure three-point support, precise alignment through two height-adjustable, freely moving knurled screws. On / off switch. Appliance (mains) cable; neat roll-up facility on projector base; slide preview panel on upper surface.

Magazine guide and slide transport:

Free access to slide chamber. Convenient slide-in facility for LKM-magazine, straight magazines and CS-magazines. Smooth slide transport through positively guided slide-claw. Projection of differently mounted slides (according to DIN 103). Dark interval only 1.5 s. Random slide-magazine transport backwards and forwards with extended slide-claw. Quiet slide transport and slide change. Slide stage removable for easy editing and sorting.

Slide change through:

Remote-control for slide transport forward and reverse, focusing with autofocus override. Slide-change button on cable remote-control unit which can be mounted on the projector (P 150 models) or cable remote control or IR remote control (P 150 model).

Autofocus:

The autofocus function with override facility (override only for P 150) allows focusing adjustment via remote-control. The autofocus is automatically reset to standard after each slide change. The autofocus system is independent to the projector lamp's centering via an infrared focusing system. Optimal setting accuracy.

Illumination system:

24 V / 150 W halogen lamp – standard feature. Convenient bulb-change. Screen illumination performance in excess of 80 % (with HEKTOR-P 2 f/2.8/85 mm and image size 24 x 36 mm).

Effective light flux:

according to DIN 19 021; with image size 24 x 36 mm and with HEKTOR-P 2 f/2.8/85 mm: 620 lm.

Cooling system:

Direct ventilation fan for optimum cooling of slide, halogen lamp and projector. Additional infrared-ray absorption filter (Schott-glass) provides additional protection for slides. Quiet, reliable fan cooling performance.

Mains connection:

230 V / 50 Hz
240 V / 50 Hz
120 V / 60 Hz *)
depending on version

Slide-window temperature:

According to DIN 19 021: 60 °C (temperature rise 40 K).

Electric safety:

Insulation features: VDE and GS-, CE- and interference suppression symbol; also: SEMKO, NEMKO, DEMKO and SEV-approval. Easily accessible fuse-box.

Thermal safety system:

Built-in. Protection from thermal damage.

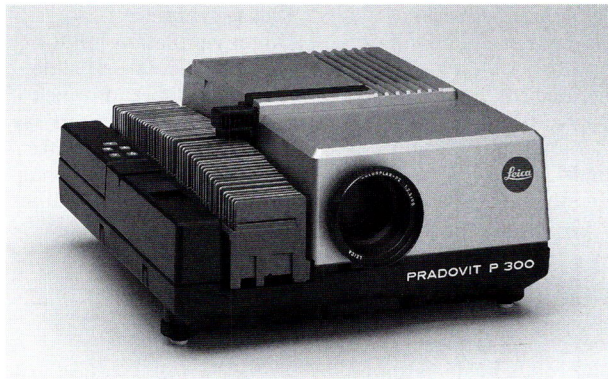
Variation of the P 150 IR model:

with infrared remote control but without manual focus override via remote control.

Dimensions and weight:

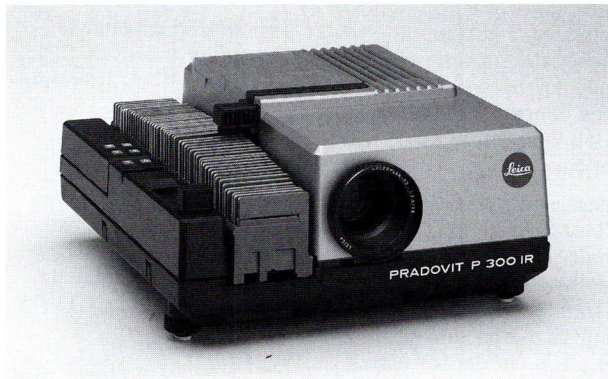
Length: 254 mm (10 in)
Width: 250 mm (9.8 in)
Height: 123 mm (4.8 in)
Weight: approx. 3.60 kg

*) only as PRADOVIT P 150 basic model



**LEICA
PRADOVIT P 300
models**

***LEICA PRADOVIT
P 300
(Cable remote control)***



***LEICA PRADOVIT
P 300 IR
(Infrared
remote control)***

Type of projector:

Automatic 35 mm slide projector with built-in TRIAC for a dissolve control unit.

Magazine systems:

LKM magazines (compact, spill-proof) for 60 or 80 slides. Standard magazines for 36 or 50 slides. CS magazines for 40 or 100 slides.

Lenses:

High optical performance with SUPER-COLOR-PLAN-P2 2.5/90 mm, COLORPLAN-P2 2.5/90mm, 2.5/90 mm (curved field) for glassless slides. Optimally

suited for regular cardboard frames. Projection lenses with focal lengths from 60 to 200 mm and the zoom projection lenses 70-120 and 85-150 mm.

Body:

Modern design. Sturdy high quality synthetic with structured surface and metallic lacquer. Stable three-point set-up, horizontal compensation with two low-friction knurled screws. On/off switch. Integrated appliance (mains) cable with the possibility to roll it up on the base of the projector. Integrated carrying handle.

Socket to attach a reading lamp which is available as an accessory. Slide pre-viewing on the top of the appliance. Dimmer switch for the lamp.

Socket:

Socket, 14 pin for:

- External remote control, extension cable (10 m, 33 ft) additionally applicable.
- Infrared remote control IR PCM (P300)
- Slide control unit (sound-track) via multiple socket
- Dissolve control unit (see page 8-21)

Magazine guide and slide transport:

Free access to the slide space of the projector. Handy insertion of the LKM, standard and CS magazines. Trouble-free slide transport thanks to the securely guided slide claw. Display of all, also varying kinds of mounts (mounts according to DIN 108). Dark interval between slides is only approx. 1.3 sec. When the slide claw is pulled out, the slide magazines can be moved fore or backwards at will. Slide transport and change occur with minimal sound. When the slide claw is in place, the picture stage can be swung out.

Slide change through:

Separate slide changing keys for forward and reverse transport. Autofocus with manual override. Remote control cable with built-in light pointer can be stored in the projector.

Autofocus set-up:

The autofocus allows optional correction per remote control (override), without changing the autofocus basic setting. This is effective again after each slide change. The autofocus set-up, due to a separate measuring system, is independent of the centring of the projection lamp. High focusing accuracy.

Illuminating system:

24 V/250 W tungsten halogen lamp. The unit is delivered complete with lamp. The projection lamps are easy to change. Built-in condenser with a focal length of up to 200 mm. Illumination performance of over 80% (in reference to COLORPLAN-P2 2.5/90 mm and a image size of 24 x 36 mm).

Effective light flux:

According to DIN 19 021, with image 24 x 36 mm and COLORPLAN-P2 2.5/90 mm lens: approx. 900 lm.

Cooling system:

Direct ventilation fan for optimum cooling of slide, halogen lamp and projector. Additional infrared-ray absorption filter (Schott-glass) provides additional protection for slides. Quiet reliable fan cooling performance.

Mains connection:

230 V / 50 Hz (euro voltage)
240 V / 50 Hz
120 V / 60 Hz *)

Slide window temperature:

According to DIN 19 021: average of 65 °C (temperature rise 45 K)

Electric safety:

Insulation features: VDE and GS and interference suppression symbol; also SEMKO, NEMKO, DEMKO and SEV. Easily accessible fuse box, FWU approved.

Thermal safety system:

Built-in, protection from thermal damage.

Dimensions and weight:

Length: 278 mm (11 in), width: 275 mm (10 in), height: 135 mm (5.3 in) weight: approx. 5 kg

*) only as P300 IR

LEICA PRADOVIT P 600 models

**LEICA PRADOVIT
P 600**
(Cable remote control)

**LEICA PRADOVIT
P 600 IR**
*(Infrared
remote control)*



Type of projector:

Automatic 35 mm slide projector with built-in TRIAC for a dissolve control unit.

Magazine systems:

LKM magazines (compact, spill-proof) for 60 or 80 slides. Standard magazines for 36 or 50 slides. CS magazines for 40 or 100 slides and round magazines for 120 slides.

Lenses:

High optical performance with SUPER-COLOR-PLAN-P 2 2.5/90 mm, COLORPLAN-P 2 2.5/90 mm

for glass-mounted slides, 2.5/90 mm (curved field) for glassless slides. Optimally suited for regular cardboard frames. Projection lenses with focal lengths from 60 to 250 mm and the zoom projection lenses 70 – 120 mm and 100 – 200 mm.

Body:

Chassis of solid diecast aluminum. Upper body of sturdy, high quality synthetic with structured surface and metallic lacquer. Stable three-point set up. Horizontal compensation with the handy knurled screws.

Separate connection cable.
On/off switch. Slide previewing on the top of the unit.
Dimmer switch for the lamp.

Socket:

Socket, 14 pin for:

- External remote control, extension cable (10 m, 33 ft) additionally applicable.
- Infrared remote control IR PCM (P 300)
- Slide control unit (sound-track) via multiple socket
- Dissolve control unit (see page 8-21)

Magazine guide and slide transport:

Free access to the slide space of the projector. Handy insertion of the LKM, standard, CS and round magazines.

Trouble-free slide transport thanks to the securely guided slide claw. Display of all, also varying kinds of mounts (mounts according to DIN 108). Dark interval between slides is only approx. 1.3 sec. When the slide claw is pulled out, the slide magazines can be moved fore or backwards at will. Slide transport and change occur with minimal sound. When the slide claw is in place, the picture stage can be swung out.

Slide change through:

Separate slide changing keys for forward and reverse transport. Autofocus with manual override. Remote control cable with built-in light pointer (P 600) can be stored in the projector. A **laser pointer** (laser class II) is built into the remote control of the P 600 IR.

Autofocus set-up:

The "intelligent" autofocus differentiates between glassless and glass covered slides and focuses accordingly. In addition, it allows optional correction per remote control (override), without changing the autofocus basic setting.

This is effective again after each slide change. The autofocus set-up, due to a separate measuring system, is independent of the centring of the projection lamp. High focusing accuracy. The autofocus can be switched off entirely for special slide shows (e.g. panorama).

Illuminating system:

Automatic lamp changer, with 2 24 V / 250 W halogen lamps. Use of the reserve lamp is signaled by a light diode on the back of the unit. The unit is delivered complete with lamps. The projection lamps are easy to change by simply removing the aspherical lens. Built-in change condenser for 60 - 150 mm lenses and focal lengths of over 150 mm. Illumination performance of over 80 % (in reference to COLORPLAN-P 2 2.5/ 90 mm and a image size of 24 x 36 mm).

Effective light flux:

According to DIN 19 021, with image 24 x 36 mm and COLORPLAN-P 2 2.5/90 mm lens: approx. 950 lm.

Cooling system:

Direct ventilation fan for optimum cooling of slide, halogen lamp and projector. Additional infrared-ray absorption filter (Schott-glass) provides additional protection for slides. Quiet reliable fan cooling performance.

Mains connection:

230 V / 50 Hz
(euro voltage)

240 V / 50 Hz

Slide window temperature:

According to DIN 19 021: average of 65 °C (temperature rise 45 K)

Electric safety:

Insulation features: VDE, CE and GS and interference suppression symbol; also SEMKO, NEMKO, DEMKO and SEV. Easily accessible fuse box, FWU approved.

Thermal safety system:

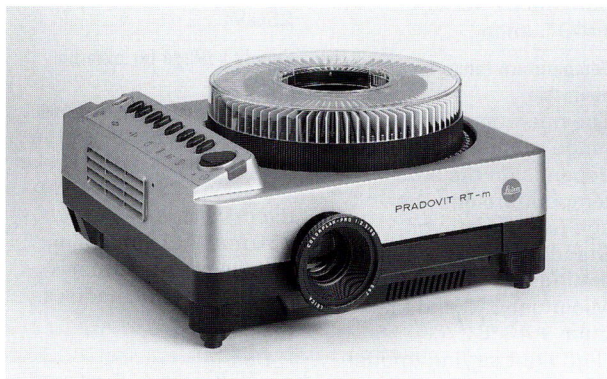
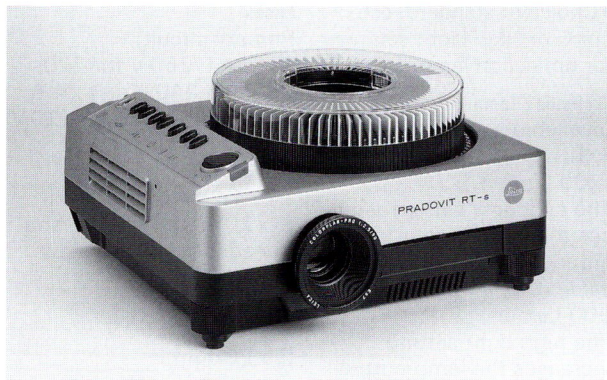
Built-in, protection from thermal damage.

Dimensions and weight:

Length: 310 mm (12 in),
width: 280 mm (11 in),
height: 135 mm (5.3 in)
Weight: approx. 6.50 kg

LEICA PRADOVIT RT models

LEICA PRADOVIT RT-s



LEICA PRADOVIT RT-m

Projector Measurements:

Length: 340 mm
Width: 336 mm
Height: 140 mm
Height with tray: 175 mm
Weight without tray:
approx. 9000 g
Weight of tray without
slides: 540 g

Slide formats:

24 x 36 mm

Slide Trays:

Round tray for holding 80
slides with maximum slide
mount thickness 3.2 mm.

Round tray for holding 140
slides with maximum slide
mount thickness of
1.6 mm.

Slide Gate:

Gravity-feed slide change
with registergate pressure
levers in two planes to
ensure good slide align-
ment.

Lens Mount:

For lenses with \varnothing 52.5 mm
thread tube.

Height setting:

Height setting to a maxi-
mum of 10°C via two turn-
able feet.

Levelling:

The projector may be operated at an angle of plus or minus 30°C from the horizontal along the projector axis.

Note: Tilting the projector side ways will adversely affect the lamp lifetime!

Housing:

Sturdy, fibre-glass reinforced housing (LEXAN). All important structural elements for the optical equipment such as slide gate, lamp module and base for the lens mount housing are in die-cast zinc assemblies.

Drive:

- 1 stepper motor for tray motion
- 1 stepper motor for slide lift and tray release mechanism
- 1 DC motor for fan cooling
- 1 DC motor for the mirror (automatic lamp changer)
- 1 rotary solenoid for the shutter

Noise Development:

approx. 57 dB (A)

Illumination:

82 V/35 h/300 W halogen lamp(s) with integrated cold light reflecting mirror. LEICA PRADOVIT RT-m/RT-s: Modular automatic lamp change system. In case of lamp failure the system automatically switches over to the second lamp (<0.3 sec). LED indicators showing defective lamps.

- No adjustment necessary.
- You can pull out the entire module out of the projector to replace a defective lamp

- Choice of standard, economy or High Light setting for projection lamp.

Projection lamps:

(available as accessories): EXR/L 85 82 V/35 h/300 W 1200 Lumen.

The economy setting reduces the lamp output to around 75 % of the normal value (tripling bulb life). 900 Lumen.

The high light setting increases the lamp output by 20 % (whilst reducing bulb life by 30 %).

1440 Lumen.

Temperature range for safe operation:

The operating temperature range of the projector depends on the ambient temperature and the voltage (see illustration). Standard and economy setting:

Minimum 0 °C and maximum +40 °C

High light setting (model RT-m):

Minimum 0 °C and maximum +35 °C

Should the projector overheat, e.g., due to lack of cooling air, the built-in thermal cutout automatically switches the lamp off and then switches it on again once it has cooled down.

Power voltage:

Different power voltages are adjustable via the removable fuse link. (120, 220, 230, 240 V)

Frequency:

approximately 380 W

Fuses:

Primary circuit:
1 x T2A L/250 V for 220, 230 and 240 V or 1 x 4 A slow blow/250 V for 120 V

Secondary circuit:

For 10 V:

1 x T 1.25 A L/250 V (5 x 20 mm) (For USA and Canada: 1 x 1.25 A slow blow/250 V)

For 24 V:

1 x T 2.0 A L/250 V (5 x 20 mm)

(For USA and Canada:

1 x T 2.8 A slow blow/250 V)

Supply voltage for external units:

Provision of 12 V/50 mA (DC direct voltage on the 8-pin remote control socket.

Provision of 24 V/750 mA direct voltage or 34 V/750 mA (AC) alternating voltage on the slot for external control modules.

External:

P-Bus-in:

9-pin Sub-D female connector (V.24/V.28 standard interface)

B-Bus-out:

9-pin Sub-D male connector (V.24/V.28 standard interface).

Slot for modules

8-pin remote socket (Mini-DIN)

Address switch:

Rotary switch to set projector address 1-16 (hex.-code 0-9 and A-H).

Slide Change Time:

0.88 sec (independent of mains voltage and frequency).

Slide Access Times:

<3.5 sec for the longest search run.

P-Bus-in and P-Bus-out:

The following pin connections are used for data transmission:

- Pin 2: Transmit Data TxD
- Pin 3: Receive Data RxD
- Pin 5: Signal ground

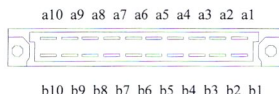
LEICA PRADOVIT RT-m projectors:

The P-Bus-in interface is used as exit to the RT-s projector. By setting of a transport command via IR-remote or via a built-in timer, a status call follows.

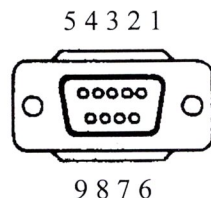
Slot for Module:

- Pin a1: SDA
- Pin a2: -
- Pin a3: SLOT-232-R
- Pin a5: SLOT_A
- Pin a6: SLOT_C
- Pin a8: 12 VDC
- Pin a9: 34 VDC
- Pin a10: 24 VAC-N

- Pin b1: SCL
- Pin b2: PPL-DISS
- Pin b3: SLOT-232-T
- Pin b4: STBY-DISS
- Pin b5: SLOT_B
- Pin b6: SL-DISS
- Pin b8: VSS 12
- Pin b9: VSS 34
- Pin b10: 24 VAC-L

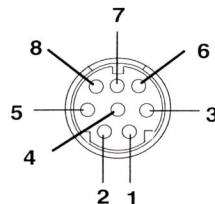


Connectors and Interfaces



8-pin Standard Projector Socket (For connecting the LEICA PRADOVIT RT Remote Systems)

- Pin 1: 12VDC
- Pin 2: Gnd
- Pin 3: Signal 1 (LSB)
- Pin 4: Signal 2
- Pin 5: Signal 3
- Pin 6: Signal 4
- Pin 7: Signal 5 (MSB)
- Pin 8: Interrupt



Application:

For lining-up projectors, parallel to the screen without having to swivel them back and forth. Edge and right-angled alignment is achieved by adjusting the lens. This makes congruent projection of slides possible, and enables excellent projection impression through the use of effects masks.

Techniques:

The image circle of the PC-ELMARIT-P and PRO-lenses is considerably larger than for conventional lenses with the same focal lengths. A special mount for perspective correction (PC) of the projected images shifts the optics

out of the regular symmetry setting-up to 3.8 mm – in every direction. LEICA PC-ELMARIT-P and PRO 60 mm and 90 mm have a tube diameter of 52.5 mm. The corresponding sleeve is included for adaptation to the projector.

Caution!

PC-ELMARIT-PRO lenses must not be used on P 2002 and previous models!

Technical Data:

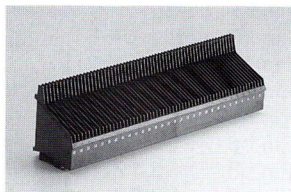
- 6 lens elements in 6 groups
- Largest diameter (not including catch screw): 73 mm
- Length: 111 mm (60 mm lens) 117 mm (90 mm lens)

PC-Projection lenses

- PC-ELMARIT-P f/2.8/60 mm**
- PC-ELMARIT-P f/2.8/90 mm**

- PC-ELMARIT-PRO f/2.8/60 mm**
- PC-ELMARIT-PRO f/2.8/90 mm**

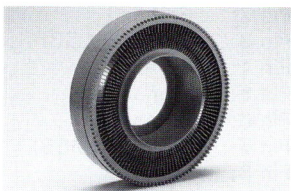
***LKM magazine system
for 60 and 80 slides***



The LKM system has five distinct advantages:

1. It can be used for all sort 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.

***Round magazine
(for PRADOVIT P 600)***

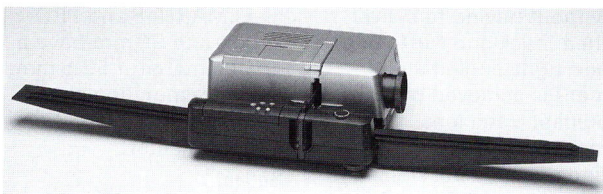


The round magazine can hold 120 slides of up to 2.4 mm thickness. It is ideal for larger presentations without magazine change or also for endless projection, e.g. for commercial use (only for P 600/P 600 IR and similar units).

8

Projection

***Magazine track
extension
(for PRADOVIT
P 300/P 600)***



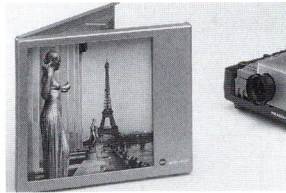
The two-piece magazine track extension is simply attached to the front and back of the projector's track. For use with lenses starting at 120 mm focal length. It permits magazine changes to be made without pressure or pause in between.

Dimensions:
front extension:
approx. 37 cm (14.5 in)
rear extension:
approx. 34.5 cm (13.6 in)

The monitor is a handy daylight screen for all common projectors. It can be used universally e.g.:

- for bright small -scale slide presentations even in daylight
- for comfortable, large format slide previewing
- for transferring slides or small film onto video.

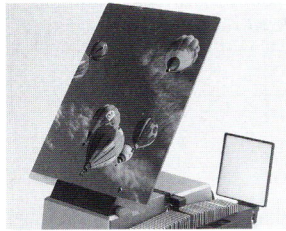
The monitor is a picture screen of approx. 23 x 23 cm (9 x 9 in), which is combined with a polished tilted mirror



Monitor

and housed in a flat body. Folded together, with a secured mirror, the unit can be transported comfortably. Dimensions (folded together) 325 x 275 x 35 mm.

The daylight attachment enables slide viewing without a screen and in daylight. It consists of a tilted mirror – that can be folded together – and a matte screen. Both parts can easily be mounted onto the projector. To achieve the optimum image size, it is recommendable to use an 85 or 90 mm lens.



Daylight attachment (for PRADOVIT P 300/P 600)

The size of the matte screen is approx. 30 x 36 cm (12 x 14 in). Can be used on LEICA P 155/P 255 and PRADOVIT P 300/P 300 IR as well as P 600/P 600 IR projectors

***Infrared
remote-control
IR PCM***



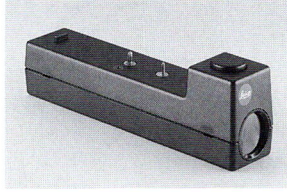
Range about 20 m (65 ft).
Detector in robust synthetic housing, modern design.
0.60 m (2 ft) cable link, with connecting plug for the projector's 14-pin remote-control socket.
Transmitter in handy, robust synthetic housing.
Powered by 2 batteries: 1.5 V IEC LR 03. Four

transmitting channels with a push-button each for slide transport forward, slide transport reverse and focusing forward and focusing reverse. Push-buttons conveniently arranged.

Dimensions and weight:

IR detector:
Length: 130 mm (5 in)
Width: 63 mm (2.5 in)
Height: 32 mm (1.3 in)
Weight: 0.140 kg.
IR transmitter:
Length: 119 mm (4.7 in)
Width: 57 mm (2.2 in)
Height: 26 mm (1 in)
Weight: 0.077 kg.

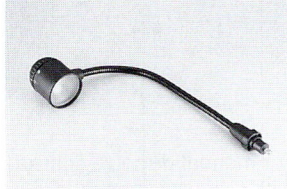
Light-pointer with sturdy synthetic housing.
Can be mounted on the cable remote-control unit.
Power supply via the projector. Focusing with lateral slider.
Lamp (Type E 10/13)
12 V/2.8 W.



Light-pointer¹⁾

¹⁾ not for P 150 IR model

Adjustable to any position, through rotation on socket connection and flexible neck.
On / off setting by turning the back of the reflector.
"I" = ON; "O" = OFF.
Halogenlamp 12 V/5 W.



Reading lamp

LEICA Dissolve- control units LEICA DU-24 MT

Specifications and Technical Data



For manual dissolve control with two projectors and with-out recording possibilities.

Description and functions:

- Compact housing with two handily arranged turning knobs and a dissolve button for alternative operating modes.

Automatic slide show

- (standing (from 3 to 30 s) and dissolve times (from CUT to 15 s) are selected with the turning knobs and released automatically), or

manual slide show

- (any standing time can be set via the manual release, with pre-selected dissolve time)
- Attachment of the control unit to the projectors via two marked connection cables (1.70 m, 5.6 ft each)

Combination possibilities of the projectors

- All automatic 35 mm projectors that are equipped with a TRIAC and a 14 pin socket (according to DIN IEC 574, part 18 A 1) can be used together with the DU-24 MT control unit; e.g. LEITZ PRADOVIT and LEICA projectors that are equipped for dissolve projection as well as PRADOVIT P 2002, LEICA P 2000, PRADOVIT COLOR 2, LEICA P 155 DU/P 255 DU, PRADOVIT P 300/P 300 IR, PRADOVIT P 600/P 600 IR
- A prerequisite for problem-free projection is the combination of units of the same type. The projectors cannot be intermixed.

Dimensions and weight:

Length: 131 mm (5.2 in)
Width: 67 mm (2.6 in)
Height: 26 mm (1 in)
Weight: approx. 200 g

**LEICA Dissolver-
control units
LEICA
DU-24 M 2**



For manual dissolve control of two projectors without recording capability.

Description and functions:

- Housing with slider.
- No dissolve time limits: The fade-in and fade-out of the projectors is set by the speed in which the slider is moved.
- Slide change of the "dark" projector is done through integrated switches in the end position of the control unit.
- The projectors are connected to the control unit with two marked 1.7 m (5'6") cables.

Compatible projectors:

- All automatic 35 mm projectors which have a TRIAC and a 14-pin socket according to DIN IEC 574, part 18 A 1 are compatible with the dissolve unit DU-24 M2. For instance, the LEITZ PRADOVIT and LEICA projectors which are equipped for dissolve such as the PRADOVIT P 2002, LEICA P 2000, PRADOVIT COLOR 2, LEICA P 155 DU, LEICA P 255 DU and PRADOVIT P 300/P 300 IR, PRADOVIT P 600/P 600 IR.
- A prerequisite for a problem-free projection is combining instruments only of the same type. The projectors cannot be "mixed".

Dimensions and weight:

Length: 100 mm (3.9 in)
Width: 50 mm (2 in)
Height: 26 mm (1 in)
Weight: approx. 180 g



M6 LEICA ELMARIT-M 1:2.8/24 ASPH f:2,8

Kodak-Kodachrome 64



LEICA Binoculars

LEICA Spotting scopes

LEICA Rangefinder

<i>Product Range</i>	LEICA binoculars _____	9- 3
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	LEICA TRINOVID 8 x 42 BN _____	9- 9
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	Accessories for LEICA TELEVID spotting scopes _____	9-25
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	Astro-Adapter 1/4" _____	9-26
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PHOTOADAPTER

Ever ready and carrying cases

Front and rear covers (replacement)

Protective covers (replacement)

Tripod connections (replacement)

<i>Specifications</i>	LEICA spotting scopes _____	9-28
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<i>Note</i>	Telescope-Ocular LEICA TO-R for LEICA R lenses _____	2-40
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LEICA Binoculars

Product Range of LEICA Binoculars

Model	Magnification	Lens diameter	Exit pupil	Twilight factor	Field of view at 1000 m/°	Approx. weight	Dimensions Width Depth Height	Order No.	Page
8 x 20 BC	8	20 mm	2.5 mm	12,6	115 m/6.6	225 g	60 mm 35 mm 92 mm	40 335	9- 4
8 x 20 BC titanium colored	8	20 mm	2.5 mm	12.6	115 m/6,6	225 g	60 mm 35 mm 92 mm	40 341	9- 4
8 x 20 BCA green	8	20 mm	2.5 mm	12.6	115 m/6.6	235 g	60 mm 35 mm 92 mm	40 337	9- 4
8 x 20 BCA black	8	20 mm	2.5 mm	12.6	115 m/6.6	235 g	60 mm 35 mm 92 mm	40 339	9- 4
10 x 25 BC	10	25 mm	2.5 mm	15.8	95 m/5.4	245 g	60 mm 36 mm 110 mm	40 336	9- 5
10 x 25 BCA green	10	25 mm	2.5 mm	15.8	95 m/5.4	255 g	60 mm 36 mm 110 mm	40 338	9- 5
10 x 25 BCA black	10	25 mm	2.5 mm	15.8	95 m/5.4	255 g	60 mm 36 mm 110 mm	40 340	9- 5

8 x 32 BN black	8	32 mm	4.0 mm	16.0	135 m/7.7	625 g	120 mm 45 mm 112 mm	40 016	9- 6
10 x 32 BN black	10	32 mm	3,2 mm	17.9	120 m/6.8	660 g	120 mm 45 mm 118 mm	40 015	9- 7
7 x 42 BN black	7	42 mm	6.0 mm	17.2	140 m/8	890 g	130 mm 57 mm 141 mm	40 018	9- 8
7 x 42 BN green	7	42 mm	6.0 mm	17.2	140 m/8	890 g	130 mm 57 mm 141 mm	40 249	9- 8
8 x 42 BN black	8	42 mm	5.25 mm	18.3	130 m/7.4	890 g	130 mm 57 mm 141 mm	40 017	9- 9
8 x 42 BN green	8	42 mm	5.25 mm	18.3	130 m/7.4	890 g	130 mm 57 mm 141 mm	40 250	9- 9
10 x 42 BN black	10	42 mm	4.2 mm	20.5	110 m/6.3	890 g	130 mm 57 mm 137 mm	40 019	9-10
10 x 42 BN green	10	42 mm	4.2 mm	20.5	110 m/6.3	890 g	130 mm 57 mm 137 mm	40 251	9-10
8 x 50 BN black	8	50 mm	6.25 mm	20.0	115 m/6.6	1150 g	135 mm 72 mm 181 mm	40 069	9-11
10 x 50 BN black	10	50 mm	5.0 mm	22.4	115 m/6.6	1150 g	135 mm 72 mm 178 mm	40 070	9-12
12 x 50 BN black	12	50 mm	4.2 mm	24.5	100 m/5.7	1150 g	135 mm 72 mm 182 mm	40 071	9-13

B = Viewing with eyeglasses C = Compact binoculars A = Rubber armored

7 x 42 BDA black	7	42 mm	6.0 mm	17.1	120 m/6,9	1490 g	178 mm 81 mm 206 mm	40 022	9-14
7 x 42 BD black	7	42 mm	6.0 mm	17.1	120 m/6,9	1350 g	178 mm 81 mm 206 mm	40 023 40 024*	9-15

B = Viewing with eyeglasses A = Azimuth Measurement *yard
D = Distance Meter C = Compact

LEICA Binoculars

LEICA TRINOVID 8 x 20 BC 8 x 20 BCA

Compact binoculars



LEICA TRINOVID
8 x 20 BC



LEICA TRINOVID
8 x 20 BCA

LEICA TRINOVID 8 x 20 BC

with neck cord

Order No. **40 335**

LEICA TRINOVID 8 x 20 BC titanium colored

with neck cord

Order No. **40 341**

LEICA TRINOVID 8 x 20 BCA green

with neck cord

Order No. **40 337**

LEICA TRINOVID 8 x 20 BCA black

with neck cord

Order No. **40 339**

Accessories

Soft nappa leather case

for 8 x 20 BC and
8 x 20 BCA

Order No. **42 198**

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:	12.6
Field:	6.6° = 115 m at 1000 m range
Close-range focus to:	3 m (10 ft)

Pentaprism system with special coating (P40). Central drive, true internal focusing.

Optical adjustment ± 3.5 diopters.

Adjustable eyecups, interchangeable soft rubber support. Leica HD lens coating.

Folding binoculars, eyebase adjustable from 32 mm to 83 mm (1.3 to 3.3 in).

Ribbed central section and tubes finished in leather

(BC) or in green or black rubber (BCA); exposed external metal parts black anodized titanium colored enamelled.

Dimensions (folded): 60 mm (2.4 in) wide, 35 mm (1.4 in) deep, 92 mm high (3.6 in)

Weight:
BC 225 g, BCA 235 g

Detailed product description on page 9-17.



LEICA TRINOVID
10 x 25 BC



LEICA TRINOVID
10 x 25 BCA

**LEICA
TRINOVID
10 x 25 BC
10 x 25 BCA**

Compact binoculars

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° = 95 m at 1000 m range
Close-range focus to:	5 m (16 ft)

Pentaprism system with special coating (P 40). Central drive, true internal focusing. Optical adjustment ± 3.5 diopters. Adjustable eyecups, interchangeable soft rubber support. Leica HD lens coating. Folding binoculars, eye-base adjustable from 32 mm to 83 mm (1.3 to 3.3 in). Ribbed central section and tubes finished in leather

(BC) or in green or black rubber (BCA); exposed external metal parts black anodized enamelled. Dimensions (folded): 60 mm (2.4 in) wide, 36 mm (1.4 in) deep, 110 mm (4.3 in) high. Weight: BC 245 g, BCA 255 g Detailed product description on page 9-17.

**LEICA TRINOVID
10 x 25 BC**

with neck cord

Order No. **40 336** _____

**LEICA TRINOVID
10 x 25 BCA green**

with neck cord

Order No. **40 338** _____

**LEICA TRINOVID
10 x 25 BCA black**

with neck cord

Order No. **40 340** _____

Accessories

Soft nappa leather case

for 10 x 25 BC and 10 x 25 BCA

Order No. **42 199** _____

LEICA Binoculars

LEICA TRINOVID 8 x 32 BN

All-purpose binoculars



LEICA TRINOVID 8 x 32 BA black

with carrying strap and non-slip pad, eyepiece cover, soft nappa leather ever ready case

Order No. **40 016** _____

Accessories

Ever ready case black Cordura

Order No. **42 211** _____

Holster

open, sturdy holster of black leather with soundless strap closure

Order No. **42 212** _____

Hard leather case

black, with wide carrying strap, anti-slip pad

Order No. **42 170** _____

Lightweight, handy precision binoculars with wide field of view (135/1000 m), good light transmission with

exceptional close focus to 2.20 m (7.22 ft). Sliding eyecup. Metal construction.

Magnification:	8 x
Lens diameter:	32 mm
Exit pupil:	4.0 mm
Twilight factor:	16.0
Field of view:	7.7° = 135 m at 1000 m range
Close-range focus to:	2.20 m (7.22 ft.)

Pentaprism system with special coating (P40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HD Lens coating.

Diopter adjustment ± 4.0 diopters.
Folding binoculars, eyebase adjustable from 56 mm to 74 mm (2.2 to 2.9 in).
Body fully enclosed in black polyurethane armoring.
Eyelets for carrying strap.

Dimensions:
Width: 120 mm (4.6 in),
depth: 45 mm (1.8 in),
height: 112 mm (4.4 in)

Weight: 625 g

Replacements and further accessories page 9-16.

Detailed product description on page 9-18.



**LEICA
TRINOVID
10 x 32 BN**

*Compact
high-performance
binoculars*

Compact, wide-angle binoculars of high-magnification and significant close up range TO 2.10 (6.89 ft).

Especially suited for daylight viewing (e.g. birds or also insects). Sliding eyecups.

Magnification:	10 x
Lens diameter:	32 mm
Exit pupil:	3.2 mm
Twilight factor:	17.9
Field of view:	6.8° = 120 m at 1000 m range
Close-range focus to:	2.10 m (6.89 ft)

Pentaprism system with special coating (P40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HDC lens coating. Diopter adjustment ± 4.0 diopters. Folding binoculars, eyebase adjustable from 56 mm to 74 mm (2.2 to 2.9 in). Body fully enclosed in black polyurethane armoring. Eyelets for carrying strap.

Dimensions:
Width: 120 mm,
depth: 45 mm,
height: 118 mm

Weight: 660 g

Replacements and further accessories page 9-16.

Detailed product description on page 9-18.

**LEICA TRINOVID
8 x 32 BA black**

with carrying strap and non-slip pad, eyepiece cover, soft nappa leather ever ready case

Order No. **40 015** _____

Accessories

Ever ready case
black Cordura

Order No. **42 211** _____

Holster

open, sturdy holster of black leather with soundless strap closure

Order No. **42 212** _____

Hard leather case

black, with wide carrying strap, anti-slip pad

Order No. **42 170** _____

LEICA Binoculars

LEICA TRINOVID 7 x 42 BN

*Hunting and
night binoculars*

LEICA TRINOVID 7 x 42 BN

with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

black

Order No. **40 018** _____

green

Order No. **40 249** _____

Watersport binocular set: LEICA TRINOVID 7 x 42 BN marine-blue,

with floating carrying strap, eyepiece cap, ever-ready case of marine-blue cordura (with belt loop)

Order No. **40 321** _____



Special wide-field hunting and night binoculars 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. Metal construction.

Magnification:	7 x
Lens diameter:	42 mm
Exit pupil:	6 mm
Twilight factor:	17.1
Field:	8° = 140 m at 1000 m range
Close-range focus to:	3.30 m (10.83 ft)

Accessories

Ever ready case black Cordura

Order No. **42 210** _____

Holster

open, sturdy holster of black leather with soundless strap closure

Order No. **42 213** _____

Hard leather case

black, with wide carrying strap, anti-slip pad

Order No. **42 168** _____

Pentaprism system with special coating (P40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HDC lens coating. Optical adjustment ± 4.0 diopters. Folding binoculars, eyebase adjustable from 56 mm to 74 mm (2.2 to 2.9 in). Body fully enclosed in black or green positive-grip polyurethane. Eyelets for carrying strap.

Dimensions:
130 mm (5 in) wide,
57 mm (2.2 in) deep,
141 mm (5.6 in) high.

Weight: 890 g

Replacements and further accessories page 9-16.

Detailed product description on page 9-18.



**LEICA
TRINOVID
8 x 42 BN**

Universal binoculars

Universal wide-field binoculars with medium magnification and large exit pupil. Enhanced performance

for daylight and twilight viewing. Metal construction.

Magnification:	8 x
Lens diameter:	42 mm
Exit pupil:	5.25 mm
Twilight factor:	18.3
Field:	7.4° = 130 m at 1000 m range
Close-range focus to:	3.10 m (10.17 ft)

Pentaprism system with special coating (P40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HDC lens coating. Optical adjustment ± 4.0 diopters. Folding binoculars, eyebase adjustable from 56 mm to 74 mm (2.2 to 2.9 in). Body fully enclosed in black or green positive-grip polyurethane. Eyelets for carrying strap.

Dimensions: 130 mm (5 in) wide, 57 mm (2.2 in) deep, 141 mm (5.6 in) high. Weight: 890 g. Replacements and further accessories page 9-16. Detailed product description on page 9-18.

**LEICA TRINOVID
8 x 42 BN**

with carrying strap and non-slip pad, eyepiece ever-ready case

black

Order No. **40 017** _____

green

Order No. **40 250** _____

Accessories

Ever ready case

black Cordura
Order No. **42 210** _____

Holster

open, sturdy holster of black leather with soundless strap closure
Order No. **42 213** _____

Hard leather case

black, with wide carrying strap, anti-slip pad
Order No. **42 168** _____

LEICA Binoculars

LEICA TRINOVID 10 x 42 BN

Universal binoculars

LEICA TRINOVID 10 x 42 BN

with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

black

Order No. **40 019** _____

green

Order No. **40 251** _____

Hunting binocular set LEICA TRINOVID

10 x 42 BN green,

with green Neoprene carrying strap, eyepiece cap, green cordura ever-ready case (with belt loop)

Order No. **40 323** _____



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. Metal construction.

Magnification:	10x
Lens diameter:	42 mm
Exit pupil:	4.2 mm
Twilight factor:	20.5
Field:	6.3° = 110 m at 1000 m range
Close-range focus to:	2.95 m (9.68 ft)

Accessories

Ever ready case

black Cordura

Order No. **42 210** _____

Holster

open, sturdy holster of black leather with soundless strap closure

Order No. **42 213** _____

Hard leather case

black, with wide carrying strap, anti-slip pad

Order No. **42 168** _____

Pentaprism system with special coating (P40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HDC lens coating. Optical adjustment ± 4.0 diopters. Folding binoculars, eyebase adjustable from 56 mm to 74 mm (2.2 to 2.9 in). Body fully enclosed in black or green positive-grip polyurethane. Eyelets for carrying strap.

Dimensions:
130 mm (5 in) wide,
57 mm (2.2 in) deep,
137 mm (5.4 in) high.

Weight: 890 g

Replacements and further accessories page 9-16.

Detailed product description on page 9-18.



**LEICA
TRINOVID
8 x 50 BN**

*High performance,
high speed binoculars*

Binoculars with high optical performance far into twilight. Thanks to the large

exit pupil of 6.25 mm, viewing is possible even when the support is unstable.

Magnification:	8 x
Lens diameter:	50 mm
Exit pupil:	6.25 mm
Twilight factor:	20
Field:	6.6° = 115 m at 1000 m (3280 ft) range
Close-range focus to:	3.60 m (10.83 ft)

Pentaprism system with special coating (P40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HDC lens coating. Optical adjustment ± 4 diopters. Folding binoculars, eyebase adjustable from 58 to 74 mm (2.2 to 2.9 in). Body fully enclosed in black positive grip polyurethane. Eyelets for carrying straps.

Dimensions: 135 mm (5.3 in) wide, 72 mm (2.8 in) deep, 181 mm (7 in) high.
Weight: 1150 g
Replacements and further accessories page 9-16.
Detailed product description on page 9-18.

**LEICA TRINOVID
8 x 50 BN black**
with Neoprene carrying-strap (40 mm, 1.6 in wide), eyepiece cover and a soft nappa leather ever ready case
Order No. **40 069** _____

**Hunting binocular set
LEICA TRINOVID
8 x 50 BN green,**
with green Neoprene carrying strap, eyepiece cap, green cordura ever-ready case (with belt loop)
Order No. **40 322** _____

Accessory

Hard leather case
black, with wide carrying strap, anti-slip pad
Order No. **42 171** _____

**LEICA
TRINOVID
10 x 50 BN**

*High magnification,
high performance
binoculars*



High performance, high magnification binoculars with top optical quality and the superb twilight performance of 22.36. The excep-

tional close focus of 3.35 m (10.99 ft) permits detailed viewing of objects in closer range.

Magnification:	10x
Lens diameter:	50 mm
Exit pupil:	5 mm
Twilight factor:	22.4
Field:	6.6° = 115 m (377 ft) at 1000 m (3280 ft) range
Close-range focus to:	3.35 m (10.99 ft)

**LEICA TRINOVID
10 x 50 BN black**

with Neoprene carrying-strap (40 mm, 1.6 in wide), eyepiece cover and a soft nappa leather ever ready case

Order No. **40 070** _____

Accessory

Hard leather case

black, with wide carrying strap, anti-slip pad

Order No. **42 171** _____

Pentaprism system with special coating (P 40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HDC lens coating.

Optical adjustment, ± 4 diopters. Folding binoculars, eyebase adjustable from 58 to 74 mm (2.2 to 2.9 in). Body fully enclosed in black positive grip polyurethane. Eyelets for carrying straps.

Dimensions:
135 mm (5.3 in) wide,
72 mm (2.8 in) deep,
178 mm (7 in) high.

Weight: 1150 g

Replacements and further accessories page 9-16.

Detailed product description on page 9-18.



**LEICA
TRINOVID
12 x 50 BN**

*High performance
binoculars with optimal
detail recognition*

High performance binoculars with top optical quality and the superb twilight performance of 24.5. The high magnification and twilight

performance and the favourable close-range of 3.25 m (10.66 ft) result in unsurpassable detail recognition, also at shorter distances.

Magnification:	12 x
Lens diameter:	50 mm
Exit pupil:	4.2 mm
Twilight factor:	24.5
Field:	5.7° = 100 m (328 ft) at 1000 m (3280 ft) range
Close-range focus to:	3.25 m (10.66 ft)

Pentaprism system with special coating (P 40). Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Leica HDC lens coating. Optical adjustment ± 4 diopters. Folding binoculars, eyebase adjustable from 58 to 74 mm (2.2 to 2.9 in). Body fully enclosed in black positive grip polyurethane. Eyelets for carrying straps.

Dimensions:
135 mm (5.3 in) wide,
72 mm (2.8 in) deep,
182 mm (7.1 in) high.

Weight: 1150 g

Replacements and further accessories page 9-16.

Detailed product description on page 9-18.

**LEICA TRINOVID
12 x 50 BN black**

with Neoprene carrying-strap (40 mm, 1.6 in wide), eyepiece cover and a soft nappa leather ever ready case

Order No. **40 071** _____

Accessory

Hard leather case

black, with wide carrying strap, anti-slip pad

Order No. **42 171** _____

LEICA Binoculars

LEICA GEOVID 7 x 42 BDA

*Multi-functional,
high-tech binoculars
with integrated infrared
distance meter and
electronic compass.*



CLASS 1
LASER PRODUCT

Optics:

Magnification: 7 x
Lens diameter: 42 mm
Exit pupil: 6 mm
Eye relief: 18.5 mm
Field of view: 120 m/1000 m
Multiple layer coating
Adjustable eye base from:
58.5 mm to 71.5 mm
(2.3 to 2.8 in)
Prism system: Porro
Focus range: individual eye-
piece ± 4 diopter setting
(from approx. 12.5 m [41 ft]
to ∞)
Diopter compensation for
difference between left and
right eyes: ± 4 diopters
Twilight factor: 17.15
Geometric light value: 36

Distance Meter:

Measuring range: 25 to
1000 m (with natural objects
in bright sunlight with
visibility up to 10 km)
Accuracy: ± 1 m
Measurement time:
max. 0.3 sec.

Azimuth measurement:

Measuring range: 360°
Measuring accuracy: 0.5°
(displayed in whole degrees)

Angle of tilt: $\pm 35^\circ$
Measuring time: 0.2 sec.
Declination: $\pm 90^\circ$ adjustable
Interference field compen-
sation: User-determined

Further Technical Data:

Sliding eye cups, metal body.
Spray water resistant
(DIN-standard)
Power supply: 6 V 2CR5
long-life lithium battery
Capacity: approx. 1000
distance/azimuth measu-
rements
Eye safety rating: Class 1
according to IEC
Operational temperature
range: -25° to $+55^\circ\text{C}$
Storage temperature
range: -35° to $+85^\circ\text{C}$
Tripod thread: 1/4"
Height: with retracted
eyecups: approx. 205.5 mm
(8 in)
Height: with extended
eyecups: approx. 217.0 mm
(8.5 in)
Width: approx. 177.5 mm
(7 in)
Depth: approx. 80.5 mm
(3 in)
Weight: approx. 1490 g

9

Observation

Detailed product descrip-
tion on page 9-19.

LEICA GEOVID 7 x 42 BDA

with Neoprene carrying
strap, eyepiece covers,
battery and nappa lea-
ther case

Order No. **40 022**

LEICA GEOVID 7 x 42 BD

*High-tech binoculars
with integrated
infrared
distance meter*



Optics:

Magnifications: 7 x
Lens diameter: 42 mm (1.7 in)
Exit pupil: 6 mm
Eye relief: 18.5 mm
Field of view: 120 m/1000 m
Multiple layer coating
Adjustable eye base from
58.5 mm to 71.5 mm
(2.3 to 2.8 in)
Prism system: Porro
Focus range: individual
eyepiece ± 4 diopter setting
(from approx. 12.50 m to ∞)
Diopter compensation for
difference between left and
right eyes: ± 4 diopters
Twilight factor: 17.15
Geometric light value: 36

Distance meter:

Measuring range: from 25
m to 1000 m (with natural
objects in bright sunlight
with visibility up to 10 km)
Accuracy: ± 1 m
Measurement time:
max. 0.3 sec.

Further technical data:

Sliding eyecups
Metal housing
Spray water resistant
(DIN standard)
Power supply: 6 V lithium
battery (type 2 Cr 5)
Capacity: approx. 1000
distance measurements
Eye safety rating: Class 1
according to IEC
Operational temperature
range: -25° to $+55^{\circ}$ C
Storage temperature
range: -35° to 85° C
Tripod thread: 1/4"
Height with retracted eye-
cups: approx. 205.5 mm (8 in)
Height with extended eye-
cups: approx. 217 mm (8.5 in)
Width: approx. 177.5 mm
(7 in)
Depth: approx. 80.5 mm (3 in)
Weight: approx. 1350 g

Detailed product descrip-
tion on page 9 - 19.

CLASS 1
LASER PRODUCT

LEICA GEOVID 7 x 42 BD

with Neoprene carrying
straps protective cover,
ever ready case and
battery

Order No. **40 023** _____

LEICA GEOVID 7 x 42 BD (yard)

Measurements in yards
with Neoprene carrying
straps, protective cover,
ever ready case and
battery

Order No. **40 024** _____

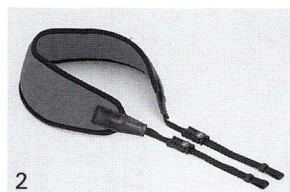
Accessories, Replacements

Carrying straps

Order No. **42 162** _____

Order No. **42 146** _____

Order No. **42 163** _____



Neoprene carrying strap, 40 mm wide, black (1), for all TRINOVID BA / BN binoculars

Neoprene carrying strap, contour formed, for all TRINOVID BA / BN binoculars

Floating carrying strap, orange (2), for all TRINOVID BA / BN binoculars

Carrying strap (replacement)

Order No. **42 159** _____

Black carrying strap out of perlon fabric, 16 mm wide, with non-slip pad for all TRINOVID BA/BN binoculars (replacement)

Cases

Order No. **42 198** _____

Order No. **42 199** _____

Soft leather case for TRINOVID 8 x 20 BC / BCA

Soft leather case for TRINOVID 8 x 20 BC / BCA

Ever-ready cases

Order No. **42 211** _____

Order No. **42 210** _____

Black cordura ever-ready case for TRINOVID 8/10 x 32 BA/BN

Black cordura ever-ready case for TRINOVID 8/10 x 32 BA/BN

Ever-ready cases

Order No. **42 172** _____

Order No. **42 166** _____

Order No. **42 205** _____

Order No. **42 164** _____

(replacements)

Black nappa leather case for TRINOVID 8/10 x 32 BA/BN

Black nappa leather case for TRINOVID 7/8/10 x 42 BA/BN

Black nappa leather case for TRINOVID 8/10/12 x 50 BA/BN for GEOVID 7 x 42 BDA

Holsters

Order No. **42 212** _____

Order No. **42 213** _____

Black leather, sturdy holster for TRINOVID 8/10 x 32 BA/BN

Black leather, sturdy holster for TRINOVID 7/8/10 x 42 BA/BN

Hard leather cases

Order No. **42 170** _____

Order No. **42 168** _____

Order No. **42 171** _____

Black hard leather case for TRINOVID 8/10 x 32 BA/BN

Black hard leather case for TRINOVID 7/8/10 x 42 BA/BN

Black hard leather case for TRINOVID 8/10/12 x 50 BA/BN

Eyepiece caps

Order No. **42 156** _____

Order No. **42 144** _____

Order No. **42 200** _____

(replacements)

for TRINOVID 8/10 x 32 BA/BN^{*)}

for TRINOVID 7/8/10x42 BA/BN and 8/10/12x50 BA/BN^{*)}

für GEOVID 7 x 42 BD and BDA

^{*)} With sliding eyecops

NEW! With the newly developed HDC™ (High Durable Coating) technology, Leica has succeeded in increasing the lens coating's scratch-resistancy.

Precision mechanical system:

Special space-saving design reduces the overall volume and folds to vest-pocket size.

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 with polyurethane armoring. Maintenance-free.

Their true internal focusing system makes these binoculars dust- and spray water-proof.

High-performance optics:

The special layout of the optical paths gives these binoculars their elegant flat shape.

All glass-to-air surfaces scratch-resistant Leica HDC lens coating for a brighter image to match the human eye's maximum sensitivity.

Pentaprisms made to extremely close angular tolerances with phase-correcting coating (P 40) to enhance contrast rendition.



Position for viewing



Position for carrying and storage

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 (P 40) to enhance contrast rendition.

The two optical systems produce the same magnification and are in perfect parallel alignment for fatigue- and headache-free long-term viewing.

LEICA TRINOVID

8 x 20 BC/BCA

10 x 25 BC/BCA

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 Binoculars *Specifications*

LEICA TRINOVID

- 8 x 32 BN**
- 10 x 32 BN**
- 7 x 42 BN**
- 8 x 42 BN**
- 10 x 42 BN**
- 8 x 50 BN**
- 10 x 50 BN**
- 12 x 50 BN**

Precision mechanical system:

The introduction of the new LEICA TRINOVID BN models represents a further improvement of the successful TRINOVID binoculars. These latest binoculars all include a significantly shorter closest focusing distance.

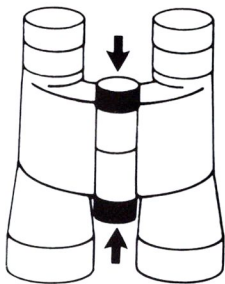
The close-focusing distances between 2.1 m (10 x 32 BN) and 3.6 m (8 x 50 BN), now allow you to employ the LEICA TRINOVID binoculars' outstanding optical quality even for very near subjects.

In addition, all lens elements in the TRINOVID BN binoculars receive the HDC™ (High Durable Coating)-treatment developed by Leica. This new type of multilayercoating results in higher scratch-resistance than ordinary multilayercoatings.

Functional, ergonomic design for fatigue-free viewing.

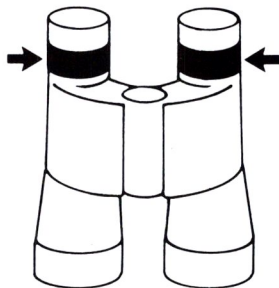
Central focusing and optical adjustment to user's visual acuity with multi-function central drive knob.

Strong all-metal body ensures perfect long-term retention of adjustment and



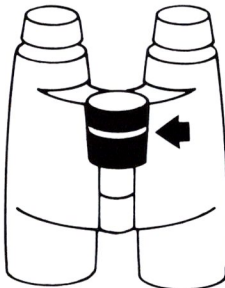
Conventional central drive:

Separate knob for optical adjustment



Single-eyepiece focusing:

No combined control of the two optical systems



Leica patent central drive knob:

Combined control of both optical systems

maximum protection of all optical and mechanical components. Fully enclosed

body covered in shock-absorbent, non-slip, sound-absorbent polyurethane armoring.

Special optical design and sliding eyecups also suitable for use with spectacles.

True internal focusing system, special sealing, and nitrogen gas filling make these binoculars absolutely dust and water spray proof. Maintenance-free.

Watertight to a depth of 5 m (according to DIN). Working temperature range from -25 °C to +55 °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. Scratch-resistant Leica HDC lens coating on all glass/air surfaces matched to the human eye's maximum sensitivity results in a brighter image. Pentaprisms made to extremely close angular tolerances with phase-correcting coating (P 40) to enhance contrast rendition. 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.



LEICA GEOVID
7 x 42 BDA
7 x 42 BD
7 x 42 BD (yard)

Multi-functional, high-tech binoculars with integrated infrared distance meter and electronic compass*. Sliding eyecups, metal housing.

Mechanical Precision:

Functional, ergonomic design for fatigue-free viewing. Focusing ability to adjust to the individual visual acuity of both eyes (diopter correction). Sturdy, all-metal housing guarantees long-lasting alignment and the best possible protection of all optics and mechanics. Shock absorbent, rust-proof and sound absorbent full-body rubber armoring. Unique optical design and rubberized sliding eyecups to optimally accommodate eyeglass wearers.

Electronic Compass:

Azimuth determination to an accuracy of 0.5 degrees due to its electronic, microprocessor-controlled solid-state compass. Additional

Through a special sealing technique, protected against the problems caused by dust and water. Spray and salt water resistant (DIN standard). Maintenance free. Working temperature range between - 25 °C to + 55 °C.

High-performance Optics:

Extraordinary care is taken with the selection of all optical elements as well as the pairing of lenses, prisms and eyepieces. Leica Multi-Coating on all glass/air surfaces enhances excellent contrast and brightness, and is matched to the maximum sensitivity of the human eye. Hard coating of exterior lens and eyepiece surfaces. The prism holders are

sensors determine the effects of gravity to compensate for a ± 35° binocular tilt. LED display in center of field of view adjusts to brightness of ambient light.

installed with perfectly aligned, shockproof mounted prisms. Fatigue free observation even for long time periods (without headaches) as the magnification of both optical systems are identical and absolutely parallel in alignment.

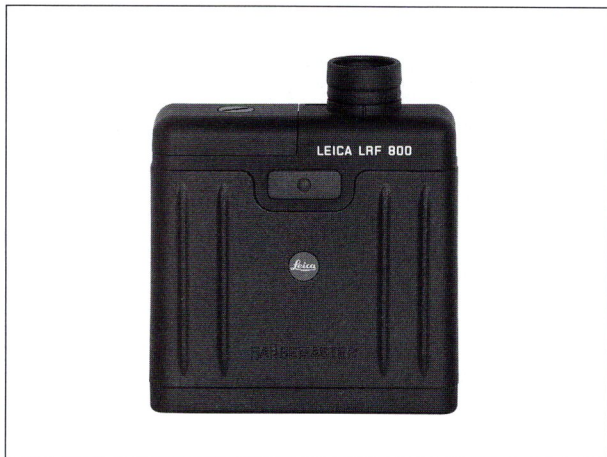
Distance Meter:

High precision infrared distance meter (accuracy to 1 m). Measuring range from 25 to 1000 m (with good visibility). LED display in center of field of view adjusts to brightness of ambient light. Microprocessor – controlled processing of infrared impulses.

*) only for LEICA GEOVID 7 x 42 BDA (A = Azimut)

Additionally for
LEICA GEOVID
7 x 42 BDA

LEICA LRF 800 RANGEMASTER



CLASS 1
LASER PRODUCT

LEICA monocular rangefinder LEICA LRF 800 RANGEMASTER

The new LEICA LRF 800 RANGEMASTER is a laser-based rangefinder for diverse applications such as hunting, surveying, forestry, and golf.

The LEICA LRF 800 RANGEMASTER is capable of measuring distances up to 800 meters (2625 feet) precisely and is equipped with an excellent 7x-optical system. The metered distance is displayed in the eyepiece in one-meter- or yard-steps. A switch allows the choice between a display in meters or yards.

The subject can be targeted precisely thanks to the almost perfectly parallel laser beam: At a distance of 100 meters, the beam is only 24 cm wide and 5 cm high (9 7/16" x 2"). In order to withstand

tough outdoor use, the binoculars are encased in shock-absorbing polyurethane armoring and water protected according to DIN (German industrial standards).

Its bright viewing optics and the LED whose brightness is matched to the ambient light means the LRF 800 is also well-suited for metering in twilight.

A Diopter adjustment allows those who otherwise wear eyeglasses to accommodate for up to ± 4 diopters of difference. But even when keeping the eyeglasses on, the LRF 800 RANGEMASTER ensures a completely unrestricted field of view.

9

Observation

**LEICA LRF 800
RANGEMASTER**
with case, neck cord
and batteries

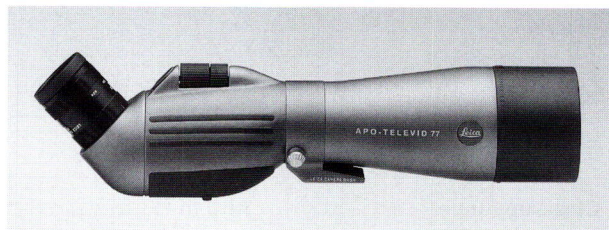
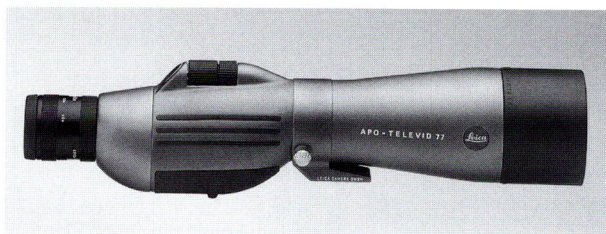
Order No. **40 510** _____

LEICA
Spotting scopes
The range of LEICA
spotting scopes

	LEICA APO-TELEVID 77 with		LEICA TELEVID 77 with	
	straight sight	angular sight	straight sight	angular sight
Order No.:	40 104	40 102	40 103	40 101
Lens diameter:	77 mm (3 in)		77 mm (3 in)	
Focal length:	440 mm (17.3 in)		440 mm (17.3 in)	
Close-up range:	3.90 m (13 ft)		3.90 m (13 ft)	
Length:	410 mm (16 in)		390 mm (15 in)	
Height:	105 mm (4 in)		105 mm (4 in)	
Depth:	93 mm (3.7 in)		93 mm (3.7 in)	
Weight:	1695 g		1495 g	

LEICA
Spotting scopes
LEICA
APO-
TELEVID 77

*High performance
spotting scope*



- Color neutral viewing due to special fluorite glass. Dual focusing for more convenient operation. Robust, waterpressure tight, aluminium alloy housing
- Dual focusing, a choice of two transmission ratios; 5 or 15 revolutions
 - Top optical performance
 - Defined close-up range of 3.90 meters (13 ft)
 - Water pressure tight (filled with nitrogen gas)

- up to a depth of 3 m (10 ft)
- Metal housing (aluminium alloy)
- Lens diameter 77 mm (3 in)
- Eyepiece bayonet
- Adjustable $\infty - 5$ dpt.
- Large, rotatable tripod socket (tripod thread 1/3")
- Elegant design

Detailed product description on page 9-28.

LEICA
APO-TELEVID 77
(with straight sight)
with front and rear covers, tripod thread 1/4"

Order No. **40 104**

LEICA
APO-TELEVID 77
(with angular sight)
with front and rear covers, tripod thread 1/4"

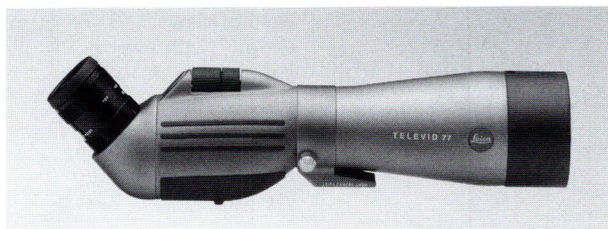
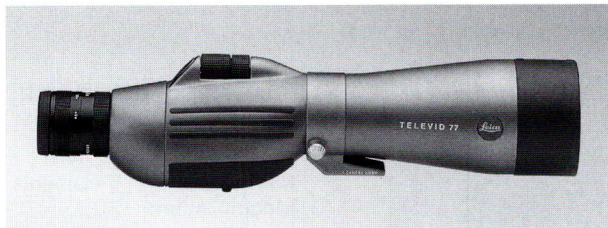
Order No. **40 102**

Lens diameter:	77 mm (3 in)
Focal length:	440 mm (17.3 in)
Close-up range:	3.35 m (11 ft)
Length:	410 mm (16 in)
Height:	105 mm (4 in)
Depth:	93 mm (3.7 in)
Weight:	1695 g

LEICA
Spotting scopes

LEICA
TELEVID 77

*High performance
spotting scope*



High optical quality. Dual focusing for more convenient operation. Robust, water-pressure tight, aluminium alloy housing.

- Dual focusing, a choice of two transmission ratios, 5 or 15 revolutions
- Top optical performance
- Defined close-up range of 3.90 meters (13 ft)
- Water pressure tight (filled with nitrogen gas) up to a depth of 3 m (10 ft)

- Metal housing (aluminium alloy)
- Lens diameter: 77 mm (3 in)
- Eyepiece bayonet
- Adjustable $\infty - 5$ dpt.
- Large, rotatable tripod socket (tripod thread 1/3")
- Elegant design

Detailed product description on page 9-28.

Lens diameter:	77 mm (3 in)
Focal length:	440 mm (17.3 in)
Close-up range:	3.90 m (13 ft)
Length:	335 mm (11 in)
Height:	105 mm (4 in)
Depth:	93 mm (3.7 in)
Weight:	1495 g

LEICA TELEVID 77
(with straight sight)
with front and rear covers, tripod thread 1/4"

Order No. **40 103** _____

LEICA TELEVID 77
(with angular sight)
with front and rear covers, tripod thread 1/4"

Order No. **40 101** _____

**Eyepieces for
LEICA TELEVID
spotting scopes**

**EYEPIECE
B 20 x WW**

B 20 x WW EYEPIECE
with bayonet cover and
protective cover, case

Order No. **41 002** _____



20 x eyepiece with top optical performance and exceptionally large field of view

Composition: 6 elements
Magnification: 20 x
Focal length: 22 mm
Exit pupil: 3.85 mm
Field of view: 3.45°, 60 m
Length (with eyecup pushed in): 68 mm (2.7 in)
Diameter: 53 mm (2 in)
Sliding eyecup: yes
Weight: 246 g

**EYEPIECE
B 32 x WW**

B 32 x WW EYEPIECE
with bayonet cover and
protective cover, case

Order No. **41 004** _____



32 x eyepiece with exceptional focus performance and excellent field of view.

Composition: 7 elements
Magnification: 32 x
Focal length: 14 mm
Exit pupil (EP 77): 2.41 mm
Field of view: 2.30°, 40 m
Length (with eyecup pushed in): 70 mm
Diameter: 54 mm
Sliding eyecup: yes
Weight: 285 g

**EYEPIECE
B 40 x**

B 40 x EYEPIECE
with bayonet cover and
protective cover, case

Order No. **41 003** _____



High magnification 40 x eyepiece with top optical performance and exceptionally compact construction.

Composition: 6 elements
Magnification: 40 x
Focal length: 11 mm
Exit pupil: 1.93 mm
Field of view: 1.25°, 22 m
Length (with eyecup pushed in): 46 mm (1.8 in)
Diameter: 45 mm (1.7 in)
Sliding eyecup: yes
Weight: 102 g

Zoom eyepiece with above average performance, universally usable rotatable eyecup.

Composition: 8 elements
Magnification: 20 to 60x
Focal length: 22 mm – 7,3 mm
Exit pupil: 3.85 mm to 1.28 mm
Field of view: 2.0° to 1.2°
34 to 20 m

Length (with eyecup pushed in): 80 mm (2.9 in)
Diameter: 53 mm (2 in)

Rotatable eyecup: yes
Weight: 280 g



LEICA Spotting scopes B 20 – 60 x ZOOM- EYEPIECE

**B 20 – 60 x
ZOOM-EYEPIECE**
with bayonet cover and protective cover, case
Order No. **41 005** _____



LEICA TELEVID PHOTO ADAPTER

For attachment of a standard mirror reflex camera to one of the LEICA TELEVID models.

(Note: To make the connection, a T2 adapter with the respective camera bayonet is needed.)

Composition: 7 elements
Focal length (with TELEVID): 800 mm (31.5 in)
Light factor: 10.4
Length: 129 mm (5.1 in)
Diameter: 58 mm (2.3 in)
Weight: approx. 215 g

PHOTO ADAPTER
with front and rear covers, case

Order No. **42 300** _____

T2-Adapter
for LEICA R / LEICA-FLEX / LEICAFLEX / -SL/SL2

Bestell-Nr. **42 305** _____

Astro-Adapter
1 1/4"

Astro-Adapter

Order No. 42 421 _____



For astronomical telescope
with 1 1/4" connection.

- Bayonet for LEICA TELEVID eyepieces
- Filter thread
- Thread for LEICA Photoadapter

LEICA

Spotting scopes

Accessories

Ever ready cases *Carrying cases*



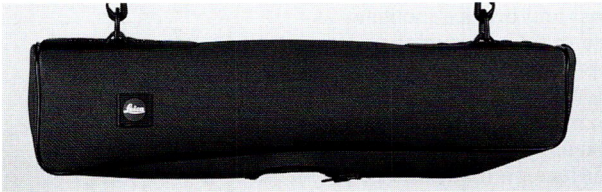
Ever ready cases
for LEICA TELEVID
models
with **angular sight**

Order No. **42 310** _____

Ever ready case
for LEICA TELEVID
models
with **straight sight**

Order No. **42 315** _____

Due to the special design, the spotting scope can also be used while it's in the ever ready case.



Carrying case
for all TELEVID
models

Order No. **42 316** _____

Tripod connection with 3/8" or 1/4" (replacement)

Order No. **42 340** _____

T 2 adapter for PHOTO ADAPTER
on LEICA R / LEICAFLEX / LEICAFLEX SL/SL 2

Order No. **42 305** _____

LEICA

Spotting scopes Specifications

LEICA TELEVID models

Precision-mechanics:

The full metal housing guarantees, optimum, long-lasting adjustment and a best possible protection of all the optical and mechanical components.

The partial rubber armouring guarantees sound-suppression and improves the grip. Specific scaling measures, as well as nitrogen gas fillings, offer excellent protection against dust or humidity on the inside. Water-pressure tight up to 0.3 bar (equivalent to a water depth of approx. 3 m, 10 ft). Unrestricted use, even with high temperature fluctuations. High operational comfort due to the fast and precise focusing via the dual focusing; option of 5 or 15 revolutions from 3.95 m (13 in) to ∞ .

Exceptionally large support surface on the tripod connection; rotatable in 45° steps. Changeable eyepieces with locking rotatable eyecups.

The eyepieces can be changed rapidly by the quick change bayonet. To find the viewed object faster, the lenshood has an integrated direction aid.

High performance optics:

Restrictive selection of all optical elements, careful co-ordination of lenses, prisms and eyepieces. The large lens diameter (77 mm, 3 in) guarantees high detail definition, even at twilight, with a comfortably large exit pupil, even with higher magnifications.

Complicated lens system with three special uncoated lens elements (fluorite glass) which heightens the color neutrality and transmission. All glass-air surfaces are hard coated, adjusted for the maximum sensitivity of the eye, to ensure contrast and brightness.

Technical information

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LEICA Program

LEICA Carrying straps, Chart and Description

Carrying strap	Order No.	Description	Delivered with	Recommended for use with
Carrying strap with slip-guard	14 312	Nylon strap vulcanised slip-guard	LEICA R-cameras LEICA M-cameras R 2.8/280 mm R 4/280 mm R 2/180 mm	LEICA R- and M-cameras with lenses up to approx. 180 mm; lenses with longer focal lengths and carrying eyelets
Carrying strap; wide version	14 235	Nylon with leather layer, 30 mm wide, adjustable slip-guard, Leica logo imprinted		More carrying comfort for heavier equipment, e. g. LEICA R-camera with drive or winder and a heavy lens, R 2.8/280 mm (attachment to lens)
Carrying strap for APO-TELYT-R Module lenses 280 to 800 mm and case	14 311	Wide Nylon strap, plastic snap lock	Lens head R 280/400/560 Lens head R 400/560/800	Vertically and horizontally on complete lens, on case containing complete lens
Neoprene carrying strap	42 162	Approx. 40 mm wide, flexible Neoprene, with worked-in fabric band, hooks included for attachment to camera/lens	LEICA GEOVID 7 x 42 BDA / BD BA / BN binoculars of the 50's series	Excellent carrying comfort, e. g. on BA / BN binoculars, LEICA R-camera with drive or winder and heavy lens up to approx. 180 mm focal length
Neoprene carrying strap	42 146	contour formed binoculars	for all TRINOVID BA / BN binoculars	
Floating carrying strap	42 163	Orange colored, floatable wide Neoprene version, without hooks		BA / BN binoculars when used near water
Binocular carrying strap with slip-guard	42 159	Nylon strap with vulcanised slip-guard	BA / BN binoculars (32, and 42 versions)	BA / BN binoculars (32, and 42 versions)

LEICA Program

LEICA equipment, Battery chart

<p>LEICA R-cameras (2 required, 4 for LEICA R 7)</p> <p>LEICA M6, M6 TTL (2 required)</p> <p>Databack R4/DB 2 (2 required)</p>	<p>Silver oxide button cells (1.5 V):</p> <p>Duracell D 357 Duracell 10 L 14 Eveready EPX 76 Kodak KS 76 Maxell SR 44 National SR 44 Panasonic SR 44 Philips 357 Ray-o-vac 357 Sony SR 44 Ucar EPX 76 Varta V 76 PX</p>	<p>LEICA mini LEICA mini II LEICA mini zoom C 1 LEICA Z2X LEICA minilux (1 required) LEICA SF 20 (2 required)</p>	<p>Lithium cells (3 V):</p> <p>Duracell DL 123 A Kodak K 123 LA Panasonic CR 123 A Sanyo CR 123 A Ucar EL 123 A Varta CR 123 A</p>
<p>LEICA R 8 (camera battery compartment) (2 required)</p> <p>LEICA R 3 - R 7 cameras (1 required, 2 for LEICA R 7)</p> <p>LEICA M6, M6 TTL (1 required)</p>	<p>Lithium cells (3 V):</p> <p>Duracell DL CR 2 Panasonic CR 2 Sanyo CR 2 Duracell DL 1/3 N Kodak K 58 L Philips CR 1/3 N Ucar 2L 76 Varta CR 1/3 N</p>	<p>LRF 800 RANGEMASTER Remote control RC-R8 Remote control IR PCM, PRADOVIT P 150 IR LEICA P 155/255 IR PRADOVIT P 300 IR PRADOVIT P 600 IR (1 required)</p>	<p>Alkali manganese batteries (9 V):</p> <p>Duracell MN 1604 Kodak K 9V Ucar 522 Varta 4022</p>
<p>LEICAFLEX / SL LEICA M5, LEICA CL LEICAMETER MR (1 required)</p> <p>LEICAFLEX SL 2 (2 required)</p>	<p>Mercury button cells (1.35 V):</p> <p>Duracell PX 625 Ucar EPX 625 Varta V 625 PX</p>	<p>Remote control for P-CONTROL/DU-24 IR/PC Remote control for PRADOVIT-RT (4 required)</p>	<p>Alkali manganese cells (Micro 1.5 V):</p> <p>Duracell MN 2400 Kodak K 3A Philips LR 03 Ucar E 92 Varta V 2400 PX Varta 4003</p>
<p>LEICA AF-C1 LEICA C2-ZOOM (1 required)</p> <p>GEOVID 7 x 42 BDA GEOVID 7 x 42 BD / BD (yards) (1 required)</p>	<p>Lithium batteries (6 V):</p> <p>Duracell DL 245 Eveready EL 2 CR 5 Kodak KL 2 CR 2 Panasonic 2 CR 5 M Philips 2 CR 5 Sanyo 2 CR 5 Sony 2 CR 5 Ucar 2 CR 5 Varta 2 CR 5</p>	<p>Databack for LEICA AF-C1, LEICA mini/II LEICA mini zoom LEICA minilux (1 required)</p>	<p>Lithium button cells (3 V):</p> <p>Maxell CR 2025 Panasonic CR 2025 Sony CR 2025 Varta CR 2025</p>
		<p>MOTOR-WINDER-R/R3/R4 (6 required)</p> <p>MOTOR-DRIVE-R/R4, Motor for LEICAFLEX SL/SL2 mot (10 required)</p> <p>MOTOR-WINDER-M/M4-2/M4-P (4 required)</p> <p>LEICA CF 20 (2 required)</p>	<p>Alkali manganese cells (Mignon 1.5 V):</p> <p>Duracell MN 1500 Kodak KAA Ucar E 91 Varta 4006 Varta V 1500 PX</p> <p>Alternative: NC-rechargeable batteries</p>
		<p>IR remote exposure release for LEICA C2-ZOOM (2 required, can only be changed by Service department)</p>	<p>Lithium button cells (3 V):</p> <p>Sony CR 1220 Ucar CR 1220 Varta CR 1220 Panasonic CR 1220</p>

LEICA R and M Cameras

Flash synchronization

Type of flash		R 6 / R 6.2	R 5* / R-E	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 (1/60) 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", unless "X" or "100" is used.

With system compatible electronic flash units on LEICA R 4 / R 5 / R-E models automatic switchover of the camera electronics to "X" (1/100 sec.), when the units 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	⚡ = 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.

LEICA R and M Cameras

Flash- synchronization

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		B red  (= 1/30) Q (= 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
AG 1 AG 3 cube M 2		B red  (= 1/30)	-		-		-	
AG 1 AG 3 cube		-	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
XM 1 PF 1		B → 1/60 *	1/15	2	1/15 - 1/20	9	1/20	14
			1/20	5	1/30	3	1/30	13
			1/50	10				
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		-	B, T		B, T		T, 1 → 1/8	
			1 → 1/10		1 → 1/10		B	
		* except setting red or black arrow respectively						

For T, 1 - 1/15 Set high-speed button  (beside 30 - 1).

LEICA R and M Cameras

Filter sizes*

* also see charts on pages
2-38/39 and 5-19!

for LEICA M and C lenses and discontinued lenses with screw mount

Examples: A 36 = Slip-on filter, external lens mount diameter 36 mm, E 39 = screw in filter thread,
7 = diameter 39 mm, Series filter size 7

Lens		Filter size
ELMARIT-M	f/2.8/	21 mm
SUPER-ANGULON	f/3.4/	21 mm
SUPER-ANGULON	f/4 /	21 mm
ELMARIT	f/2.8/	28 mm
ELMARIT-M (from Serial No. 3 585 865)	f/2.8/	28 mm
SUMMARON	f/5.6/	28 mm
HEKTOR	f/6.3/	28 mm
SUMMILUX	f/1.4/	35 mm
SUMMILUX (from Serial No. 2 166 701)	f/1.4/	35 mm
SUMMILUX-M Aspherical	f/1.4/	35 mm
SUMMILUX-M ASPH.	f/1.4/	35 mm
SUMMICRON	f/2 /	35 mm
SUMMICRON (from Serial No. 2 307 451)	f/2 /	35 mm
SUMMICRON (from Serial No. 2 483 504)	f/2 /	35 mm
SUMMICRON (from Serial No. 2 974 251)	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 Serial No. 1423 141)	f/3.5/	35 mm
SUMMARON (bayonet)	f/3.5/	35 mm
SUMMICRON-C	f/2 /	40 mm
NOCTILUX	f/1 /	50 mm
NOCTILUX (from No. 2 919 657)	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 (screw-thread)	f/3.5/	50 mm
ELMAR	f/3.5/	65 mm
ELMAR (from Serial No. 2 378 901)	f/3.5/	65 mm
SUMMILUX-M	f/1.4/	75 mm
SUMMAREX	f/1.5/	85 mm
SUMMICRON	f/2 /	90 mm
SUMMICRON-M (from Serial No. 2 813 801)	f/2 /	90 mm
SUMMICRON-M (from Serial No. 3 177 201)	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. 1 573 001)	f/4 /	90 mm
ELMAR (bayonet)	f/4 /	90 mm
ELMAR-C	f/4 /	90 mm
HEKTOR	f/2.5/125 mm	
ELMARIT	f/2.8/135 mm	
ELMARIT (from Serial No. 2 788 927)	f/2.8/135 mm	
ELMAR	f/4 /135 mm	
TELE-ELMAR	f/4 /135 mm	
TELE-ELMAR-M (from Serial No. 3 595 960)	f/4 /135 mm	
ELMAR	f/4.5/135 mm	
HEKTOR (screw-thread)	f/4.5/145 mm	
HEKTOR (screw-thread, from No. 1 416 001)	f/4.5/135 mm	
HEKTOR (bayonet)	f/4.5/135 mm	
TELYT	f/4 /200 mm	
TELYT	f/4.5/200 mm	
TELYT	f/4.8/280 mm	
TELYT (from Serial No. 2 340 953)	f/4.8/280 mm	
TELYT	f/5 /400 mm	
TELYT	f/5.6/400 mm	
TELYT	f/6.8/400 mm	
TELYT	f/5.6/560 mm	
TELYT	f/6.8/560 mm	

Dimensions of the filter threads:

E 39	M 39 x 0.5	E 46	M 46 x 0.75	E 58	M 58 x 0.75
E 41	M 41 x 0.5	E 48	M 48 x 0.75	E 60	M 60 x 0.75
E 43	M 43 x 0.5	E 49	M 49 x 0.75	E 85	M 85 x 0.75
		E 55	M 55 x 0.75		

**LEICA R and
M Cameras
WINDER
for LEICA M
Cameras**

Winder type	Camera type				
	LEICA M 6 TTL	LEICA M 6	LEICA M 4-P	LEICA M 4-2	LEICA MD-2
LEICA WINDER M	yes	yes	yes	yes	yes
LEICA WINDER M 4-P	yes	yes	yes	yes	yes
LEICA WINDER M 4-2 ab Fabr.-Nr. 10 350	yes	yes	yes	yes	yes
LEICA WINDER M 4-2 up to Serial No. 10 349	no	no	yes apart from Serial No. 1 552 500 – 1 552 884 and 1 563 000 – 1 588 536 (can be adapted by Technical Service)	yes	yes

LEICA lenses

Adaptation of lenses

Conversion of LEICAFLEX lenses for use on LEICA R models

Existing LEICAFLEX lenses can be fitted with an additional cam for the full utilization of the LEICA R exposure facilities.

The use of modified lenses on all LEICAFLEX models remains unrestricted.

Modification by the Leica Camera Service Center or authorized workshops of Leica Camera agencies. When the contact ledge for electronic exposure compensation (LEICA R 8) is added, use on LEICAFLEX models is no longer possible.

Conversion of LEICA R lenses to filter thread E 55:

MACRO-ELMARIT
f/2.8/60 mm
ELMARIT-R f/2.8/90mm
SUMMICRON-R f/2/90 mm
MACRO-ELMAR f/4/100 mm
(for Focusing Bellows R)
ELMARIT-R f/2.8/135 mm

up to Serial No. 3 013 650
up to Serial No. 2 809 000
up to Serial No. 2 770 950

up to Serial No. 2 933 350
up to Serial No. 2 772 618

Conversion of LEICA R lenses to filter thread E 60:

APO-TELYT-R f/3.4/180 mm

Modification by the Leica Camera Service Center or

up to Serial No. 2 947 024

authorized workshops of Leica agencies.

Conversion of LEICA R lenses for additional use on LEICAFLEX models

The Leica Camera Service Center or any authorized workshop can fit the control cams to permit the use of most lenses on LEICA-FLEX cameras.¹⁾

When control cams are applied, the contact ledge for electronic exposure compensation (LEICA R 8) can no longer be used. Please inquire at the Leica information service about the modification possibilities for your lens stating the serial number.

Conversion of LEICA R lenses for additional electronic compensation with LEICA R 8²⁾

see pages 10-9, 10-10

¹⁾ Bayonet-exchange on R-lenses for use on LEICAFLEX-bodies

²⁾ If control cams for use on LEICAFLEX models are present, they must be removed.

LEICA R-lenses, Modifications

Lens model	Order No.	ROM modification
SUPER-ELMAR-R f/3.5/15	11 213	possible
FISHEYE-ELMARIT-R f/2.8/16	11 222	possible
ELMARIT-R f/2.8/19	11 225	possible
ELMARIT-R f/2.8/19	11 258	possible
ELMARIT-R f/2.8/19	11 329	already with ROM
ELMARIT-R f/3.4/21	11 803	not possible
ELMARIT-R f/4/21	11 813	possible
ELMARIT-R f/2.8/24	11 221	possible
ELMARIT-R f/2.8/24	11 257	possible
ELMARIT-R f/2.8/24	11 331	already with ROM
ELMARIT-R f/2.8/28	11 204	possible
ELMARIT-R f/2.8/28	11 247	possible
ELMARIT-R f/2.8/28	11 812	possible
ELMARIT-R f/2.8/28	11 259	possible
ELMARIT-R f/2.8/28	11 333	already with ROM
PC-SUPER-ANGULON-R f/2.8/28	11 812	not possible
SUMMILUX-R f/1.4/35	11 143	possible
SUMMILUX-R f/1.4/35	11 144	possible
SUMMILUX-R f/1.4/35	11 337	already with ROM
SUMMICRON-R f/2/35	11 227	possible
SUMMICRON-R f/2/35	11 115	possible
SUMMICRON-R f/2/35	11 339	already with ROM
ELMARIT-R f/2.8/35	11 101	possible
ELMARIT-R f/2.8/35	11 201	possible
ELMARIT-R f/2.8/35	11 231	possible
ELMARIT-R f/2.8/35	11 251	possible
PA-CURTAGON-R f/4/35	11 202	not possible
SUMMILUX-R f/1.4/50	11 875	possible
SUMMILUX-R f/1.4/50	11 777	possible
SUMMILUX-R f/1.4/50	11 343	already with ROM
SUMMILUX-R f/1.4/50	11 344	already with ROM
SUMMICRON-R f/2/50	11 228	possible
SUMMICRON-R f/2/50	11 215	possible
SUMMICRON-R f/2/50	11 216	possible
SUMMICRON-R f/2/50	11 345	already with ROM
ELMARIT-R f/2.8/60	11 205	possible
ELMARIT-R f/2.8/60	11 212	possible
ELMARIT-R f/2.8/60	11 253	possible
ELMARIT-R f/2.8/60	11 347	already with ROM
ADAPTER f/1	14 198	not possible
ADAPTER f/1	14 256	not possible
ADAPTER f/1	14 299	with data transfer
SUMMILUX-R f/1.4/80	11 880	possible
SUMMILUX-R f/1.4/80	11 881	possible
SUMMILUX-R f/1.4/80	11 349	already with ROM
SUMMICRON-R f/2/90	11 219	not possible
SUMMICRON-R f/2/90	11 254	not possible
ELMARIT-R f/2.8/90	11 229	possible
ELMARIT-R f/2.8/90	11 154	possible
ELMARIT-R 2.8/90	11 239	possible
ELMARIT-R f/2.8/90	11 806	possible
APO-MACRO-ELMARIT-R f/2.8/100	11 210	possible
APO-MACRO-ELMARIT-R f/2.8/100	11 352	already with ROM
MACRO-ELMAR-R f/4/100	11 232	possible
ELMARIT-R f/2.8/135	11 211	possible

LEICA lenses

Lens model	Order No.	ROM modification
APO-SUMMICRON-R f/2/180	11 271	possible
APO-SUMMICRON-R f/2/180	11 354	already with ROM
ELMARIT-R f/2.8/180	11 919	possible
ELMARIT-R f/2.8/180	11 923	possible
ELMARIT-R f/2.8/180	11 356	already with ROM
APO-ELMARIT-R f/3.4/180	11 273	already with ROM
APO-TELYT-R f/3.4/180	11 242	possible
APO-TELYT-R f/3.4/180	11 358	already with ROM
ELMAR-R f/4/180	11 992	possible
TELYT-R f/4/250	11 920	possible
TELYT-R f/4/250	11 925	possible
APO-TELYT-R f/2.8/280	11 245	possible
APO-TELYT-R f/4/280	11 261	possible
APO-TELYT-R f/4/280	11 360	already with ROM
TELYT-R f/4.8/350	11 915	possible
APO-TELYT-R f/2.8/400	11 260	possible
TELYT-R f/5.6/400 and 560	11 146	not possible
TELYT-R f/6.8/400	11 960	not possible
TELYT-R f/6.8/400 mit NOVOFLEX	11 970	not possible
MR-TELYT-R f/8/500	11 243	not possible
TELYT-R f/6.8/560	11 865	not possible
TELYT-R f/6.8/560 mit NOVOFLEX	11 971	not possible
TELEVIT-R für f/5.6/400 und 560	14 146	not possible
APO-TELYT-R f/2.8/280 Modul	11 846	already with ROM
APO-TELYT-R f/2.8/400 Modul	11 847	already with ROM
APO-TELYT-R f/4/400 Modul	11 857	already with ROM
APO-TELYT-R f/4/560 Modul	11 848	already with ROM
APO-TELYT-R f/5.6/560 Modul	11 858	already with ROM
APO-TELYT-R f/5.6/800 Modul	11 849	already with ROM
TELYT-S f/6.3/800	11 921	not possible
VARIO-ELMAR-R f/3.5-4.5/28-70	11 265	not possible
VARIO-ELMAR-R f/3.5-4.5/28-70	11 364	already with ROM and sensor*
VARIO-ELMAR-R f/3.5/35-70	11 244	not possible
VARIO-ELMAR-R f/3.5/35-70	11 248	not possible
VARIO-ELMAR-R f/4/35-70	11 277	already with ROM and sensor*
ANGENIEUX-ZOOM f/2.8/45-90		not possible
VARIO-APO-ELMARIT-R f/2.8/70-180	11 267	possible but without sensor*
VARIO-APO-ELMARIT-R f/2.8/70-180	11 279	already with ROM without sensor*
VARIO-ELMAR-R f/4.5/75-200	11 226	not possible
VARIO-ELMAR-R f/4/70-210	11 246	not possible
VARIO-ELMAR-R f/4.5/80-200	11 224	not possible
VARIO-ELMAR-R f/4/80-200	11 280	only possible through exchange for
VARIO-ELMAR-R f/4/80-200	11 281	already with ROM and sensor*
VARIO-ELMAR-R f/4.2/105-280	11 268	already with ROM without sensor*
APO-EXTENDER-R 1.4 x	11 249	not possible
EXTENDER-R 2 x	11 236	not possible
APO-EXTENDER-R 2 x	11 262	not possible
APO-EXTENDER-R 2 x	11 269	already with data transfer
FOCUSING BELLOWS R	16 860	not possible
FOCUSING BELLOWS BR 2	16 880	not possible
RING COMBINATION-R	14 159	not possible
Adapter	11 127	not possible
Adapter	11 167	not possible

*) sensor for focal length recognition and motor zoom reflector movement for flash units that are so equipped and have SCA 3501 operation. For lenses without sensor, the reflector remains in the angle corresponding to the shortest focal length.

LEICA lenses

Adaptation of lenses

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 range-finder coupling roller only moves in and out. For a more compact and light-weight 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 range-finder. For this reason we do not recommend the use of the CL lenses on the LEICA M Cameras.

CL lenses for use on LEICA M cameras

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 TTL (only 0.72). With lenses of earlier produc-

tion 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 28 mm lenses on the LEICA M4-P and 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.

To ensure that the proper viewfinder frame appears and that the distance measurement occurs correctly, existing 35 mm lenses to the LEICA M3 – i. e. with finder glass – must also be used with finder glass on all other M-cameras.

Existing M lenses on the LEICA M6

LEICA lenses

Adaptation of lenses

LEICA M lenses on the LEICA CL

The bayonet lens mount of the LEICA CL is identical to that of the LEICA M models. Hence numerous M lenses are usable on the

LEICA CL. Due to the different camera composition however, the following restrictions apply.

Not usable

- All lenses with a view finder attachment can not be mounted onto the CL, as the attachment bumps the speed setting knob. Besides that, the finder attachment is too large for the LEICA CL, whose view finder windows are closer together.
- Lenses whose rear mount enter too far into the camera body (SUPER-ANGULON-M 21 mm and ELMARIT-M 2.8/28 mm below serial no. 2314921) can not be used because they damage the measuring cell.

Usable, but in danger of damaging the camera

- Collapsible lenses need protective tape to limit the retraction of the lens barrel. This tape (available internationally from the Dymo company) is to surround the lens barrel, this can be applied by the owner.

Required tape width	ELMAR	f/3.5/50 mm
9.5 mm (3/8 in):	ELMAR	f/2.8/50 mm
	SUMMAR	f/2/50 mm
	SUMMITAR	f/2/50 mm
	SUMMICRON	f/2/50 mm
	ELMAR	f/4/90 mm

Required tape width		
12.7 mm (1/2 in):	HEKTOR	f/2.5/50 mm

Usable, but with other restrictions

- Since the range finder of the LEICA CL operates starting from a distance of 0.8 m, lenses with distances shorter than 0.8 m can not be focused in the view finder of the LEICA CL.
- The measuring cell can not quite register the extremely wide cone of light of aperture stops larger than f/2.0 and shorter focal lengths. For this reason, the exposure meter only functions correctly as of f/2.0.

Adaptation of lenses

- With some of the lenses, the respective view finder field is blocked out, especially when the lens hood is used. This applies to the following lenses:

SUMMICRON	2/35 mm
SUMMILUX	1.4/35 mm
SUMMILUX	1.4/35 mm ASPH.
SUMMILUX	1.4/50 mm
NOCTILUX	1/50 mm und 1,2/50 mm
ELMARIT	2.8/90 mm

- Since the LEICA CL only has viewfinder fields for 40 mm, 50 mm, and 90 mm, the image frame is not shown clearly in the finder.

All lenses with LEICA bayonet mount, and, with a suitable bayonet adapter, the earlier, screw-thread versions of LEICA lenses can be used on the LEICA M 5.

With minor exceptions or restrictions they can also be fully utilized for selective light metering through the lens.

Existing interchangeable lenses on the LEICA M 5

Exceptions:

1. When a lens is **collapsible**, collapsibility must be limited to the permissible amount by means of a protective tape. **The lens does not need 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:

ELMAR	f/3.5/50 mm	} Required width of type 9.5 mm
ELMAR	f/2.8/50 mm	
SUMMAR	f/2 /50 mm	
SUMMITAR	f/2 /50 mm	
SUMMICRON	f/2 /50 mm	
ELMAR	f/4 /90 mm	
HEKTOR	f/2.5/50 mm	} Required width of tape 12.7 mm

Adaptation of lenses

Existing interchangeable lenses on the LEICA M 5

2. Lenses to be returned to the Leica Camera Technical Service Center, National Agency, or authorized workshop for adaptation:

- a) 21 mm and 28 mm wide-angle lenses, parts of whose mounts enter into the camera body too deeply. A recess in the lens bayonet prevents the swinging-in of the photo resistor. The lenses can be subsequently attached – but exposure measurement through the lens is not possible.

SUPER-ANGULON f/4 /21 mm	with screw thread. The bayonet adapter has to be modified. (Code No. 14 097) Please state: for 21 mm
-----------------------------	---

SUPER-ANGULON f/4 /21 mm	with bayonet mount
SUPER-ANGULON f/3.4/21 mm	with bayonet mount (below Serial No. 2 473 251)
ELMARIT f/2.8/28 mm	with bayonet mount (below Serial No. 2 314 921)

- b) lenses whose detachable viewfinder attachments ruin the cover plate of the LEICA M 5. Lens bayonet and viewfinder attachment must be re-machined.

SUMMARON f/3.5/35 mm	with detachable viewfinder attachment
SUMMICRON f/2 /50 mm	with near-focusing range

In addition the VISOFLEX 1 and 3 and the Universal Focusing Bellows can be used with the LEICA M 5. With these accessories, selective light metering is also possible with photography from 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 M 5.

Attention:

In the LEICA M 5 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 M 5 engages in the drive lugs facing the camera baseplate.

Projection Lamps

Projectors	Projector lamps												Light pointer lamps	AF-lamp				
PRADO S/M 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 R150/RA150 PRADOVIT RA152																		
PRADOVIT C/CA1500 PRADOVIT C/CA2500																		
PRADOVIT S/SAF PRADOVIT CA2502																		
PRADOVIT COLOR, LEICA P2000 PRADOVIT P2002																		
PRADOVIT 153/153 IR/153 DU LEICA P153/153 IR/153 DU																		
PRADOVIT P253/253 IR/253 DU LEICA P253/253 IR/253 DU																		
PRADOVIT P150/P150 IR/P150 DU LEICA P155/155 IR/155 DU																		
LEICA P255/255 IR/255 DU/P300 PRADOVIT P300 IR																		
PRADOVIT P600 PRADOVIT P600 IR																		
PRADOVIT RT-m PRADOVIT RT-s																		

Order No.	Watt	Volt	Base
038-101.93-000	150	24	G 6,35-15 ¹⁾
038-101.098-000	250	24	G 6,35-15 ¹⁾
038-101.092-000	100	12	GY 6,35-13 ¹⁾
038-101.128-000	75	12	GZ 6,35 ¹⁾
038-127.003-013 ²⁾	150	220	P 28 s
038-127.003-002 ²⁾	150	110	P 28 s
038-127.004-013	250	220	P 28 s
038-127.004-002	250	110	P 28 s
038-127.005-013	300	220	P 28 s
038-127.005-001	300	110	P 28 s
038-127.007-013	500	220	P 28 s
038-127.007-002 ²⁾	500	110	P 28 s
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 ²⁾	300	110	G 17 q
038-127.008-013	500	220	G 17 q
038-127.004-002	500	110	G 17 q
038-101.090-000	100	12	BA 15 s
038-101.091-000	152	24	G 17 q
37779	300	82	
302-053.018-011	2,5	12	BA 9 s
038-101.129-000	0,45A	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	
038-101.075-000	6	6	BA 9 s
37304	2,8	12	
37307	2	12	
031-049.076-011	3	12	Sofittienlampe
031-201.004-022	3	24	Sofittienlampe

1) = halogen lamp
2) = no longer available

Projection

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.

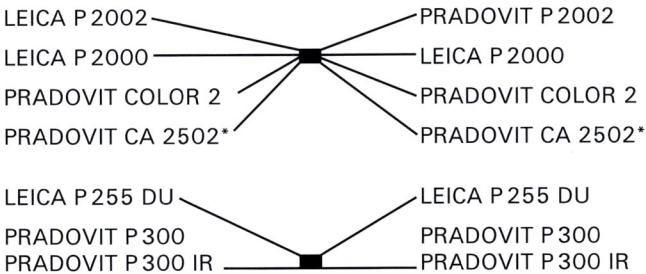
For the projection of 40 x 40 mm slides the given values must be increased by about 10%.

		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	

Projection

**The versatile possibilities of combination in the projector range in fade projection
LEICA DU-24 IR and
LEICA DU-24 IR PC,
LEICA P-CONTROL PC,
LEICA P-CONTROL IR**

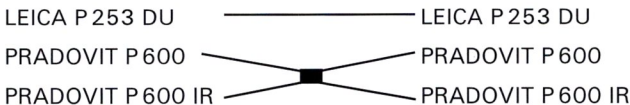
Projectors, equipped with 250 W halogen lamps that can be combined freely:



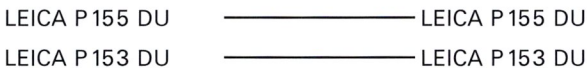
* from Serial-no. 145 758

PRADOVIT CA 2502 with lower serial numbers can be adapted by the technical service department of Leica Camera AG.

Projectors that can only be combined with units of the same type (250 W):



Projectors that can only be combined with units of the same type (150 W):



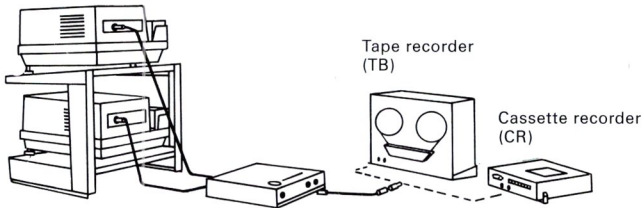
Older projectors cannot perform all of the functions of the new control units.

Projection

Connection of the Dissolve Control Unit to a tape recorder or cassette recorder

Projectors

LEICA DU-24 IR / DU-24 IR PC / LEICA P-CONTROL IR / P-CONTROL PC
 ↓
 tape recorder (TB) / cassette recorder (CR)



Projector	Dissolve control unit	Connection	Sound recorder
Two projectors of the same type with built-in TRIAC and 14-pin AV-plug For example two of one of the following types PRADOVIT P2002 LEICA P2000 PRADOVIT COLOR 2 PRADOVIT CA 2502 (as of serial no. 145 758) LEICA P155/P255 DU PRADOVIT P153/P253 DU PRADOVIT P300/P300 IR PRADOVIT P600/P600 IR	LEICA DU-24 IR	Connection cable 6 pin on 3.5 mm mono phone plug** 379-980.801-000**	NOKIA SL 837 AV (CR)
		6 pin connecting cable** 031-049.159	UHER CR 1600 (CR) UHER CR 4000 (CR) Report Monitor AV
		Please consult the technical customer service department of the Revox company in 79843 Löffingen	REVOX B 77 FH (TB)
		Connection cable Cinch plug* Adapter Cinch plug and 6.3 mm phone plug*	All units with 3 and more tracks which can record separately FOSTEX X 18 (CR) FOSTEX X 28 H (CR) FOSTEX 280 (CR) FOSTEX GT 10 (CR) YAMAHA MT120 S (CR) TASCAM 424 (CR) TASCAM 464 (CR) TASCAM 134 (CR) TASCAM 34 B (TB)
		Please consult the technical customer service department of the Revox company in 79843 Löffingen	REVOX B 77 DHA (TB)

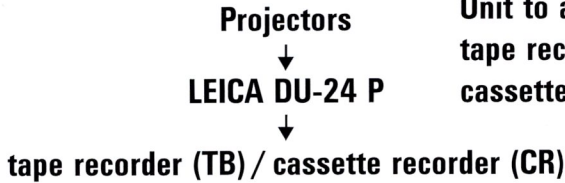
This list does not claim to be complete

* Part of the dissolve control unit outfit

** Available for the customer service department of Leica Camera AG, Solms

Projection

Connection of the Dissolve Control Unit to a tape recorder or cassette recorder



Projector	Dissolve-control unit	Connection	Sound recorder
Two projectors of equal light intensity with built-in TRIAC and 14-pin AV-plug. For example two projectors of one of the following types PRADOVIT P 2002, LEICA P 2000, PRADOVIT CA 2502 (as of serial no. 145 758) PRADOVIT P 300 / P 300 IR, LEICA P 155 / P 255 DU PRADOVIT P 153 / P 253 DU or one each of the following projectors PRADOVIT P 2002, LEICA P 2000, PRADOVIT CA 2502 (as of serial no. 145 758) COLOR 2 PRADOVIT P 600 / P 600 IR, PRADOVIT P 300 / P 300 IR, LEICA P 255 DU and PRADOVIT 253 DU	DU-24 P	Connecting cable Cinch plug 5 pin plug (available in radio shops)	FOSTEX x 15 (CR)* TASCAM PORTA 05 (CR)*
		Solder-over the included 6 pin connection cable (that goes into the tape recorder); pin 6 to pin 2	REVOX B 77 FH (TB)
		Connecting cable Cinch plug 5 pin plug (available in radio shops)	TASCAM 133 (CR) TASCAM 134 (CR)
		Connecting cable available in radio shops	All units with 3 and more tracks which can record separately TASCAM 424 (CR) TASCAM PORTA ONE (CR)* TASCAM 234 L (CR)* FOSTEX x 18 (CR) FOSTEX x 26 (CR)* FOSTEX x 28 H (CR) FOSTEX x 30 (CR)* YAMAHA MT 120 S

This list does not claim to be complete.
* No longer in production.

Recording and play-back possibilities with new and older dissolve control units

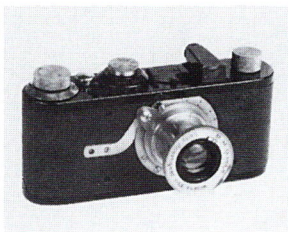
Recording	Play-back				
	LEITZ DU-24 A/P	LEICA DU-24 IR	P-CONTROL IR	LEICA DU-24 IR PC	P-CONTROL PC
LEITZ DU-24 A/P*	●				
LEITZ DU-24 A/P**	●			●	
LEICA DU-24 IR*		●			
LEICA DU-24 IR**		●	●	●	●
LEICA DU-24 IR PC**				●	●

* Free-Head ** Multi-track recording

List of the LEICA models

LEICA I (non-interchange- able lens)

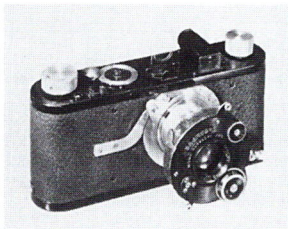
Available from 1925



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.

Compur LEICA

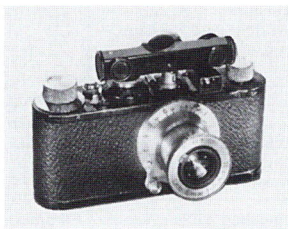
Available from 1926



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.

LEICA I (with changing mount)

Available from 1930



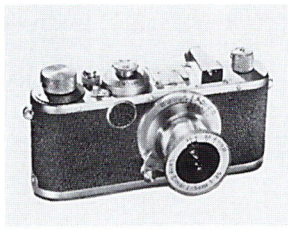
Camera with **screw mount for interchangeable lenses**.

Lens flange and lens screw mount not yet standardized.

Lens flange and lens mount standardized in models from Serial No. 60 500 onward.

Standard LEICA

Available from 1932



Black enamelled or chromium finished, screw mount for interchangeable lenses, slip-on rangefinder, focal plane shutter $1/20$ to $1/500$ sec., pull-out rewind knob. Serial No. from 100 000.

LEICA II

Available from 1932



Black enamelled or chromium finished, with built-in coupled rangefinder, focal plane shutter $1/20$ to $1/500$ sec. and time exposure. Serial No. from 71 500.

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 No. from 109 000.



List of the LEICA models LEICA III

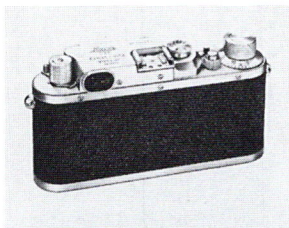
Available from 1933

As model III, but with additional shutter speed $\frac{1}{1000}$ sec. Serial No. from 156 201.

LEICA III a

Available from 1935

As model III a, but with eye lenses for viewfinder and rangefinder closer together. The lever for adjusting the rangefinder telescope is next to the rewind knob. Serial No. from 240 017.



LEICA III b

Available from 1938

With enlarged cassette spaces (cassettes for 10 m (33ft) film) for reporters, otherwise as III a.

LEICA 250

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 No. from 455 000.

LEICA I c

Available from 1949

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 No. from 440 000.

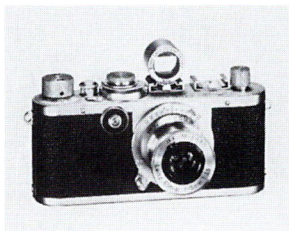
LEICA II c

Available from 1948

**List of the
LEICA models**

**LEICA I f
(black synchronizing
dial)**

Available from 1952



As model I c, but fully synchronized, film indicator built into the film winding knob.
Serial No. from 562 000.

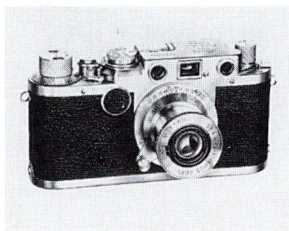
**LEICA I f
(red synchronizing
dial)**

Available from 1952

As above, but international shutter speeds $\frac{1}{25}$, $\frac{1}{50}$ sec. etc.
Serial No. from 536 001.

**LEICA II f
(black synchronizing
dial)**

Available from 1951



As model II c, but with built-in full flash synchronization, film indicator built into the film winding knob.
Serial No. from 451 000.

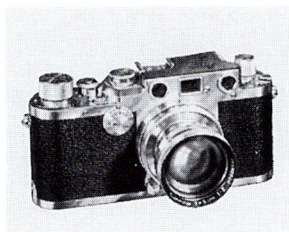
**LEICA II f
(red synchronizing
dial)**

Available from 1952

As above, but with international shutter speeds $\frac{1}{25}$, $\frac{1}{50}$ to $\frac{1}{1000}$ sec. and time exposure.
Serial No. from 574 401.

LEICA III c

Available from 1940.



As model II c, but with extended range of shutter speeds from 1 to $\frac{1}{1000}$ sec. and time exposure.
Serial No. from 360 000.

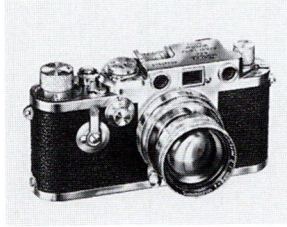
**LEICA III f
(black synchronizing
dial without self-timer)**

Available from 1950

As model III c, but with built-in full flash synchronization and film indicator built into film winding knob.
Serial No. from 525 000.

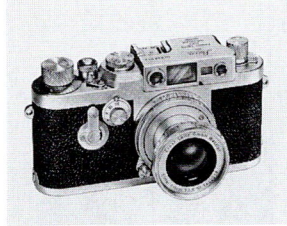
As before, but international shutter speeds.
Serial No. from 615 000.

As model III f with red synchronizing dial, but with self-timer of approximately 12 seconds delay.
Serial No. from 685 000.

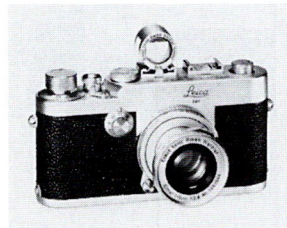


The LEICA III g differs from the LEICA III f in the following technical features:

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 No. from 825 001.



basically the same design as that of the LEICA III g. Has no rangefinder or self-timer.
Serial No. from 887 001.



List of the LEICA models

LEICA III f

(red synchronizing
dial without self-timer)

Available from 1952

LEICA III f

(with self-timer)

Available from 1954

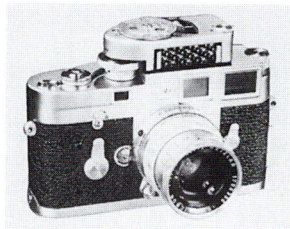
LEICA III g

Available from 1957

LEICA I g

Available from 1957

List of the
LEICA models
LEICA M 3



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 No. from 700 001.

Available from 1954

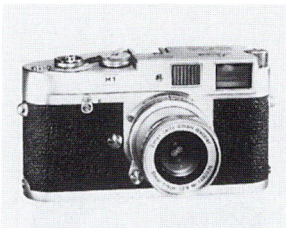
LEICA M 2



As LEICA M 3, 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 No. from 926 001.

Available from 1958

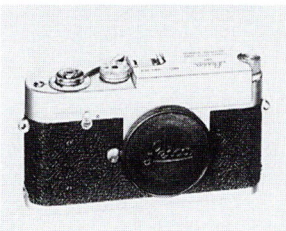
LEICA M 1



Without rangefinder. Fields of view for 35 and 50 mm lenses are shown parallax-free and permanently superimposed into bright-line finder. Otherwise as M 2. Serial No. from 950 001.

Available from 1959

LEICA MD



As LEICA M 1, but without viewfinder, equipped for the use of the marking device. Serial No. from 1 102 501.

Available from 1965

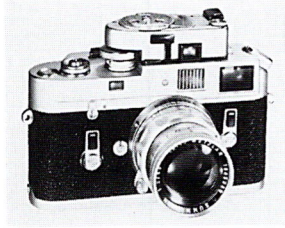
Single-lens-reflex camera, focusing screen with micro-prism measuring field, built-in CdS exposure meter, lens bayonet mount, focal plane shutter 1 to $\frac{1}{2000}$ sec. and B, electronic flash $\frac{1}{100}$ sec., automatic frame counter under magnifier. Serial No. from 1080 114.



List of the LEICA models LEICAFLEX (Type 1)

Available from 1965

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.



LEICA M 4

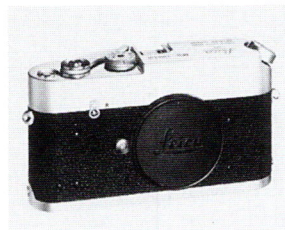
Attachable exposure meter coupled directly with the shutter knob.

Rapid film loading system for all standard 35 mm films and LEICA cassettes. Automatic film counter under magnifier. Hinged back.

Serial No. from 1 175 001.

as LEICA M 4, but without viewfinder. Designed for the use of the marking device.

Serial No. from 1 159 001.

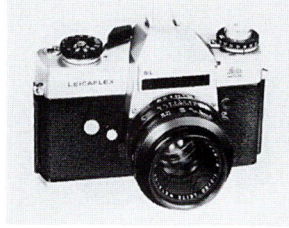


Available from 1967

LEICA MD a

Available from 1967

List of the
LEICA models
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 No. from 1 173 005.

Available from 1968

LEICA M 5



as LEICA M 4, 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 No. from 1 287 001.

Available from 1971

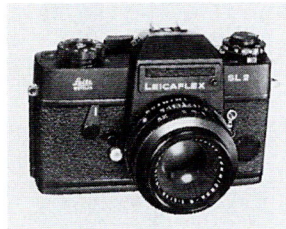
List of the LEICA models LEICA CL

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 No. from 1 300 001.



Available from 1973

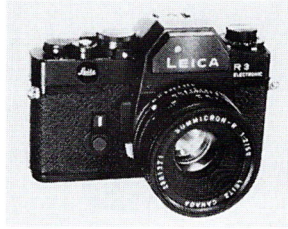
As LEICAFLEX SL but with additional split-image rangefinder for positive focusing. Combined shutter speed and lens stop indication in the viewfinder. Sensitivity of exposure meter increased by 3 steps. Illuminated measuring read-out for poor lighting conditions. Additional accessory-shoe contact.
Serial No. from 1 385 001.



LEICAFLEX SL 2

Available from 1974

**List of the
LEICA models
LEICA R 3**



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 $\frac{1}{1000}$ sec., B, X = $\frac{1}{90}$ sec. (electronic-flash synchronization). Focusing screen with finest-grain micro-prisms throughout the viewfinder field. Central micro-prisms ring with additional split-image rangefinder and film wind control. Film cartridge window, rapid film change. Serial No. from 1 446 001.

Available from 1976

LEICA M 4-2



As LEICA M 4, but with connection for motor winder M 4-2. Additional accessory-shoe contact for electronic flash unit. Without self-timer. Serial No. from 1 468 001.

Available from 1977

LEICA MD-2



As LEICA M 4-2 but without viewfinder. Suitable for the use of recording strips. Serial No. from 1 468 723.

Available from 1977

LEICA R 3-MOT



As LEICA R 3, but with connection for motor winder R 3. Display of the selective or averaging measuring mode in the viewfinder above the shutter speed scale. Serial No. from 1 492 251.

Available from 1978

List of the LEICA models LEICA R 4

Single lens reflex camera with electronically-controlled metal-blade focal-plane shutter. Two exposure measuring methods (Leitz selective measurement and Leitz largefield integral 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 R 4-MOT ELECTRONIC". Serial No. from 1 533 351.

Available 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. Serial No. from 1 532 377.



Available from 1980

LEICA R 4 s

As LEICA R 4, but with shutter speed priority and manual operating modes combined with the two exposure measuring methods (Leitz selective measurement and Leitz largefield integral measurement). Serial No. from 1 632 551.



Available from 1983

LEICA M 6

As LEICA M 4-P, but with selective exposure measurement through the lens (TTL). Exposure meter display as light balance in the viewfinder. Serial No. from 1 657 251.



Available from 1984

List of the LEICA models LEICA R 4 s MOD. 2

Available from 1986



As LEICA R 4 s, but with override for single-hand operation and optimised mode selection switch. Serial No. from 1 655 485.

LEICA R 5

Available from 1987



Single-lens reflex camera with electronically controlled metal-blade focal-plane shutter. Two exposure measuring methods (selective and integral) 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. Diopter setting from +2 to -2 diopters. Interchangeable focusing screens. Removable camera back and connection for cable-free Data Back. Automatic-frame counter. Film cartridge window. Serial No. from 1 696 451.

LEICA R 6

Available from 1988



Compact single-lens reflex camera with mechanically controlled metal-blade focal-plane shutter. Through-the-lens exposure metering. Instant change-over between selective and integral wide-field exposure-

meter mode. Manual shutter and aperture control. Shutter range $\frac{1}{1000}$ s to 1 s, "X" = $\frac{1}{100}$ s, B. TTL flash-exposure control with dedicated flash unit and SCA 351 or SCA 551 adapter. Interchangeable focusing screens. Diopter setting from +2 to -2 diopters. Independent mirror release. Supplementary viewfinder light. Camera back interchangeable with cable-free data back. Automatic exposure counter. Film-cartridge window. Serial No. from 1 728 451.

List of the LEICA models LEICA R-E

Electronically controlled, compact single-lens reflex camera; two modes: aperture priority with selective or full-field integral exposure metering; exposure metering memory; and manual mode with selective metering. TTL-flash exposure control with system-compatible flash units. Exposure times from $1/2000$ s to $1/2$ s (manual mode), or to 15 s in automatic mode. Interchangeable focusing



screens. Eyepiece diopter setting from -2 to $+2$ diopters. Hinged camera back with connection for Data Back without cable.

Available from 1990

As LEICA R 6, but with mechanically controlled shutter speeds from $1/2000$ to 1 s. Improved, easier-to-read frame counter with magnifyer-window.



LEICA R 6.2

Available from 1992

Compact, microprocessor-controlled 35 mm single lens reflex camera, with multi-mode automatic (aperture and shutter priority and a variable automatic program), and manual programs. TTL flash metering with system compatible flash units (SCA 351/551), depending on program, includes fill-in flash. In the automatic modes, the shutter speeds are formed electronically and infinitely variably from 16 sec. to $1/2000$ sec., in the manual and shutter priority modes, the shutter speeds are in half values from 4 sec. to $1/2000$ sec. Mechanically formed shutter speeds $1/100$ sec. for flash synchronisation and "B". Film



speed range: manual from ISO $6/9^\circ$ to ISO 12 800/ 42° , DX from ISO 25/ 50° to ISO 5000/ 38° . Viewfinder LED display with automatic brightness adjustment. Supplementary lens aperture illumination. Interchangeable focusing screens. Eyepiece adjustment from $+2$ to -2 diopters. Removable rear cover with connection for a cable-free data back.

LEICA R 7

Available from 1992

LEICA R 8



Micro processor controlled, 35 mm, SLR camera in timeless, new, elegant Leica design. Selective, large field integral and multiple field metering; override ± 3 exposure values. Multiple automatic "A", "P", "T", "m" for manual shutter speed and aperture setting. TTL flash exposure

Available from 1996

LEICA M 6 TTL



Further development of the LEICA M 6 with selective exposure metering and center-weighted integral metering for TTL flash exposure metering. A flash symbol and a round LED (between the triangular LED's) were added in the light balance. The shutter speed dial was enlarged and the rotating direction was matched to the direction display of the triangular LED's.

TTL flash exposure metering: Modern flash control that enables new application possibilities for LEICA M photography. The corres-

Available from 1998

ponding system flash unit and adapter SCA 305. "F" for metering flash before the exposure (e.g. also with studio flash set ups). Flash sync. $x = 1/250$ s. Electronically formed shutter speeds variably from 32 s to $1/8000$ s, manually from 16 s to $1/8000$ s in half values. Lucid LCD displays in the viewfinder and on the rear cover for all important functions. High-eyepoint viewfinder. Motorized gears MOTOR-WINDER R 8 and MOTOR-DRIVE R 8 that harmonize with the camera design, are available as accessories.

ponding system flash unit, LEICA SF 20, appears. Camera operation has been made easier – even in unfavorable conditions – due to the new light balance and the corresponding shutter speed dial. All of the excellent characteristics of the LEICA M 6 remain unchanged in the new LEICA M 6 TTL. The world-wide unique range of high performance lenses was increased to 14 and improved even further.

Also 1998:

LEICA M 6 0.85, same as LEICA M 6 but viewfinder magnification. The viewfinder image, which is enlarged by about 20 percent, includes the brilliant frames starting from 35 mm and is especially suited for work with long focal lengths. The LEICA M 6 TTL 0.85 will also be introduced.

Accessories for items no longer in the current product range

*Please ask the customer
service department of
Leica Camera AG about
items no longer listed in
chapter 10.*

Accessories for R 4-R 7 models _____	11 - 3
Accessories for R 3 models _____	11 - 4
Accessories for LEICAFLEX SL / SL 2 models _____	11 - 5
Accessories for earlier R lenses _____	11 - 6
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Accessories for PRADOVIT-COLOR _____	11-13
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Accessories for PRADOVIT 153 / 253, LEICA P 155 / P 255 _____	11-14
Accessories for PRADOVIT P 2002 _____	11-15
Accessories for earlier TRINOVID binoculars _____	11-17

Accessories for LEICA R 4-R 7 models

see page 2-1 onwards

LEICA R lenses

For connection of external power supply; with 1 m long, attached cable and screw-on connection plug ¹⁾. (The adapter for the MD-R external power supply is pushed into the drive in place of the battery housing).

Connection possibilities

Battery housing, when – due to cold – batteries need to be kept at body temperature and must be stored elsewhere.

Mains voltage up to a maximum of 15 DC voltage.

Adapter for MD-R external power supply

see page 3-3 onwards

Near-focusing devices

see page 1-6 onwards

All other accessories

¹⁾ suitable is either a coupling socket 302-013.154-011 or a built-in socket 042-813.155-008 (2 pin), available from Leica Camera AG, customer service.

Accessories for LEICA R 3 models

LEICA R lenses see page 2-1 onwards

Correction lenses R with adapter, locks into position *)
for LEICA R 3 models
(Spherical)
see page 1-8

**Eyecup R
locks in position *)**

can also be used in conjunction with correction lenses

*) The Leica Camera Service Centre can fit a catch for locking the eyecup in position on the eyepiece mount of any LEICA R 3 camera, but modification of the eyepiece mount is not essential for the use of correction lenses and eyecup R.

Eyecup
for LEICA R 3 models

Order No. **14 215** _____

**Replacement parts
for cameras**

Order No. **14 103** _____

Camera body cover,
R-bayonet for all R-cameras.

Order No. **14 312** _____

Carrying strap
with non-slip pad

Near-focusing devices see page 3-3 onwards

**Recommended
accessories** see page 1-6 onwards

Accessories for LEICAFLEX SL / SL 2 models

see page 2-1

¹⁾ The Leica Camera 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 Camera Service Centre, for fitting to the correction-lens mount.

with adapter ¹⁾
for LEICAFLEX SL 2
models (Spherical)
see page 1-8

²⁾ The Leica Camera 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.

can be used in conjunction
with correction lenses

LEICA R lenses

Correction lenses

Eyecup R locks in position²⁾

Eyecup
for LEICAFLEX SL 2
models

Order No. **14 215** _____

Camera body cover,
R-bayonet for all R-cameras

Spare parts for cameras

Order No. **14 103** _____

Carrying strap
with non-slip pad

Order No. **14 312** _____

Twin flash-socket cover

*

see page 3-3 onwards

Near-focusing devices

see page 1-6 onwards

Recommended accessories

Cover
for 1:1 adapter and near-
focusing ring: Rear cover

Order No. **14 162** _____

Adapter for the use of
VISOFLEX 2 / 3 lenses on:
LEICAFLEX SL / SL 2,

LEICA R (at working
aperture)

Adapter

Order No. **14 167** _____

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

Accessories for earlier LEICA R lenses

ELPRO near-focusing attachments for earlier LEICA R lenses

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

Camera AG Technical Service Center. Series 7 filters continue to be suitable for use with the aid of the Adapter No. 14 225, available as an accessory.

Lens	ELPRO	Distance scale at	Distance in cm		Object-field in mm	Reproduction scale
	Order No.		Object to film	Object to front lens		
SUMMICRON-R f/2/50 mm (M 44 x 0.75) 11 228	Via *	∞ 0.5	50 31	41 21	184 x 276 91 x 137	1 : 7.7 1 : 3.8
	2 ¹⁾ *	∞ 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⁾ *	∞ 0.7	74 44	61 30	161 x 241 72 x 108	1 : 6.7 1 : 3.0
SUMMICRON-R f/2/90 mm up to No. 2 770 950 (M 54 x 0.75), 11 219	3 ²⁾ *	∞ 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⁾ *	∞ 1.5	76 58	61 42	107 x 160 66 x 99	1 : 4.5 1 : 2.8
	4 ²⁾ *	∞ 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 *	80 mm/ ∞ 200 mm/1.8	82 66	61 45	177 x 266 50 x 75	1 : 7.4 1 : 2.1
	4 *	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 *	75 mm/ ∞ 200 mm/1.2	82 60	61 38	187 x 281 41 x 62	1 : 7.8 1 : 1.7
	4 *	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

Accessories for earlier LEICA R lenses

*Lens hood**

for APO-TELYT-R f/2.8/400 mm

Cover for lens hood

*Pistol stock**

for APO-TELYT-R f/2.8/280 mm

*Case**

for APO-TELYT-R f/2.8/280 mm

for APO-TELYT-R f/2.8/400 mm

*Leather case**

for one close focus attachment

*Leather cover**

for TELYT-R f/6.8/400 mm

for TELYT-R f/6.8/560 mm

*Leather case**

for TELYT-R f/4/250 mm

for TELYT-R f/4.8/350 mm

*Soft leather case**

for ELMARIT-R f/2.8/35 mm

for SUMMILUX-R f/1.4/50 mm

for ELMARIT-R f/2.8/90 mm

for MACRO-ELMAR-R f/4/100 mm

for ELMARIT-R f/2.8/135 mm

for ELMARIT-R f/2.8/180 mm

for APO-TELYT-R f/3.4/180 mm

for ELMAR-R f/4/180 mm

*Carrying strap**

for APO-TELYT-R f/2.8/400 mm and
case order No. 14 584 + 14 595

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

R-lens:	Internal lens thread	Lens cap diameter in mm	Lens hood	Lens cap	Rear cover	Filter-size 2)	Adapter Series filters	ELPRO ³⁾ near focusing attachm.	Soft leather case
ELMARIT-R 2.8/19 11 225	M 82 x 0.75	88	4)	4)	14 162	–	–	–	4)
SUPER- ANGULON-R 3.4/21 11 803	M 67 x 0.75	70	4)	14 232	4)	Series 8	Lens hood	–	4)
ELMARIT-R 2.8/28 11 247	M 48 x 0.75	51	4)	4)	14 162	Series 7	Lens hood	–	14 735
SUMMICRON-R 2/35 11 227 up to No. 2 791 416	M 48 x 0.75	51	4)	4)	14 162	Series 7	Lens hood	–	4)
ELMARIT-R 2.8/35 11 101 up to No. 2 517 850	M 44 x 0.75	47	4)	–	14 162	Series 6	4)	–	4)
up to No. 2 928 900	M 48 x 0.75	51	4)	4)	14 162	Series 7	Lens hood	–	4)
Order No. 11 251	M 55 x 0.75	63	built-in	14 289	14 162	E 55	14 225 for series 7	–	4)
PA-CURTAGON-R 4/35 11 202	M 60 x 0.75	63,7	4)	14 290	14 162	Series 8	Lens hood	–	4)
SUMMILUX-R 1.4/50 11 875 up to No. 2 806 500	M 48 x 0.75	51	4)	4)	14 162	Series 7	Lens hood	–	4)
SUMMICRON-R 2/50 11 228 up to No. 2 777 650	M 44 x 0.75	47	–	–	14 162	Series 6	4)	16 531 16 542	4)
MACRO-ELMARIT-R 2.8/60 11 203 up to No. 3 013 650	M 60 x 0.75	63.7	4)	14 290	14 162	Series 8	Lens hood	–	4)
SUMMICRON-R 2/90 11 219 up to No. 2 770 950	M 54 x 0.75	70	built-in	14 232	14 162	Series 7	4)	3)	4)
up to No. 3 381 676	M 55 x 0.75	70	built-in	14 289	14 162	E 55	4)	3)	4)
ELMARIT-R 2.8/90 11 239 up to No. 2 809 000	M 54 x 0.75	65	built-in	–	14 162	Series 7	4)	3)	4)
up to No. 3 260 100	M 55 x 0.75	65	built-in	14 289	14 162	Series 7	4)	16 543	4)
MACRO-ELMAR 4/100 11 230 up to No. 2 933 350	M 54 x 0.75	65	built-in	–	14 162	Series 7	4)	–	4)
ELMARIT-R 2.8/135 11 211 up to No. 2 772 618	M 54 x 0.75	65	built-in	–	14 162	Series 7	4)	3)	4)
ELMARIT-R 2.8/180 11 919 up to No. 2 939 700	M 72 x 0.75	78	built-in	4)	14 162	Series 8	4)	–	4)
APO-TELYT-R 3.4/180 11 240 up to No. 2 947 023	M 59 x 0.75	65	built-in	–	14 162	Series 7.5	4)	–	4)
TELYT-R 4/250 11 920 up to No. 3 050 600	M 72 x 0.75	78	built-in	4)	14 162	Series 8	4)	–	4)
TELYT-lens unit 5.6/400 (TELEVIT-R)	–	98	built-in	4)	4)	Series 7	Filter-slot	–	4)
TELYT-lens unit 5.6/560 (TELEVIT-R)	–	120	built-in	4)	4)	Series 7	Filter-slot	–	4)
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	4)	–	4)
VARIO-ELMAR-R 4.5/80–200 11 224	M 55 x 0.75	72	built-in	–	14 162	E 55	4)	4)	4)
VARIO-ELMAR-R 4.5/75–200 11 226	M 55 x 0.75	70	built-in	14 289	14 162	E 55	4)	4)	4)

1) Leather case for same: 14 621

2) Filter see page 2-39

3) see page 11-6

4) Replacement may be obtainable from

the Leica Camera AG Service Center local Leica agency: please enquire.

Accessories for earlier Camera Bodies and Lenses

Flash socket cover

LEICA M body

Order no. **15 526** _____

see page 5-1 onwards

LEICA M lenses

see page 4-4 onwards-4

Recommended M-accessorios

see page 5-4 onwards

Brilliant Finder

**Accessorios 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	–	14 290	14 269	E 60
ELMARIT-M f/2.8/21 up to No. 11 134	M 60 x 0.75	62	1)	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)	1)	Series 7 with lens hood or E 48
ELMARIT-M f/2.8/28 up to No. 2 977 551	M 49 x 0.75	51	1)	14 001	14 269	E 49
SUMMILUX-M f/1.4/35 up to No. 2 166 700	M 41 x 0.5	46.5	1)	–	14 269	E 41
SUMMILUX-M f/1.4/35 Aspherical	M 46 x 0.75	49	1)	14 231	14 269	E 46
SUMMICRON-M f/2/35 up to No. 2 307 450 up to No. 2 483 503 up to No. 2 974 250 Order No. 11 310 / 11 311	M 39 x 0.5	42	1)	14 268	14 269	E 39
	–	42	1)	14 268	14 269	Series 7 in lens hood
	M 39 x 0.5	42	1)	14 268	14 269	E 39 or Series 7
	M 39 x 0.5	42	1)	14 268	14 269	E 39
SUMMARON-M f/2.8/35	M 39 x 0.5	42	–	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

Soft leather cases¹⁾

for SUMMICRON-M 2/90 mm

for TELE-ELMAR-M 1:4/135 mm

¹⁾ Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

1)

1)

Accessories for earlier Camera Bodies and Lenses

Accessories for earlier LEICA M and CL lenses

M-lens	Internal thread	Lens cap diameter in mm	Lens hood	Lens cap	Rear cover	Filter	Nappa soft leather case
NOCTILUX-M f/1.50 up to No. 2 919 656 up to No. 3 220 708 Order No. 11 821	M 58 x 0.75	61	1)	–	14 269	E 58	1)
	M 60 x 0.75	62	1)	14 290	14 269	E 60	14 694
NOCTILUX-M f/1.2/50	–	52.5	1)	1)	14 269	Series 8 in lens hood	1)
SUMMILUX-M f/1.4/50 Order No. 11 114	M 43 x 0.5	45	1)	1)	14 269	E 43	1)
SUMMICRON-M f/2/50 up to No. 2 915 800 Order No. 11 819 11 825	M 39 x 0.5	42	–	14 268	14 269	E 39	1)
			1)				14 699
ELMAR-M f/2.8/50	M 39 x 0.5	42	–	14 268	14 269	E 39	1)
SUMMILUX-M f/1.4/75 up to No. 3 223 300	M 60 x 0.75	62	1)	14 290	14 269	E 60	1)
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	1)
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	1)
ELMARIT-M f/2.8/90	M 39 x 0.5	42	–	14 268	14 269	E 39	1)
TELE-ELMARIT-M f/2.8/90	M 39 x 0.5	42	–	14 268	14 269	E 39	1)
ELMAR-C f/4/90	M 39 x 0.75	42	1)	1)	14 269	Series 5.5 with lens hood	1)
ELMAR-M f/4/90	M 39 x 0.5	42	–	14 268	14 269	E 39	1)
ELMARIT-M f/2.8/135 up to No. 2 788 926	M 54 x 0.75	63.7	built-in	1)	14 269	1)	1)
ELMAR-M f/4/135 Order No. 11 851	M 39 x 0.5	42	–	14 268	14 269	E 39	1)
HEKTOR-M f/4.5/135	M 39 x 0.5	42	–	14 268	14 269	E 39	1)

1) Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

Accessories for earlier Camera Bodies and Lenses

Accessories for VISOFLEX lenses

M-lens	Internal thread	Lens cap diameter in mm	Lens hood	Lens cap	Rear cover	Filter size
ELMAR-M f/3.5/65 up to No. 2 378 900 from No. 2 378 901	M 41 x 0.5	56	built-in	–	–	E 41
	M 44 x 0.75	56	built-in	–	–	Series 6 with Adapter 14 160
TELYT-M f/4/200	M 58 x 0.75	72	built-in	–	14 050	E 58
TELYT-M f/4.8/280 up to No. 2 340 952 from No. 2 340 953	M 58 x 0.75	76	built-in	1)	14 269	E 58
	M 66 x 0.75	76	built-in	–	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	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	14 269	Series 7 in filter slot
TELYT-S f/6.3/800	–	152	built-in	1)	14 269	Series 7 in filter slot

Filters

Filter	Screw-in filter					
	E 32	E 39	E 41	E 48	E 49	E 55
UVa	–	13 131	–	13 330	13 328	13 373
Yellow	–	–	1)	–	–	–
Yellowgreen	–	–	–	–	–	1)
Orange	–	–	–	–	–	–
Red	13 401	–	–	–	–	–

	Screw-in filters			Series filters		
	E 58	E 60	E 77	6	7	8
UVa	13 270	13 381	–	1)	1)	13 018
Yellow	–	–	–	1)	–	–
Yellowgreen	–	1)	–	1)	1)	1)
Orange	–	1)	–	1)	1)	–
Pol.-circ.	–	–	13 334	–	–	–

1) Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency; please enquire.

Accessories for Compact-Cameras

*LEICA AF-C1**

Leather ever-ready case
Carrying strap

LEICA mini/mini II/mini 3

Order No. **18 503** _____

Leather ever-ready case

Order No. **18 805** _____

Soft leather case for mini 3

Carrying strap*

Wrist strap*

Order No. **14 320** _____

Mini tripod with ball and socket joint

LEICA C2-ZOOM

Leather ever-ready case*

IR-remote release*

Carrying strap*

Order No. **14 320** _____

Mini tripod with ball and socket joint

LEICA mini zoom

Order No. **18 505** _____

Leather ever-ready case

Order No. **18 516** _____

Carrying strap

Order No. **18 517** _____

Wrist strap

Order No. **14 510** _____

Panorama-Adapter

Accessories for FOCOMAT V 35*

Slide holder 5 x 5

Negative holder 24 x 36 mm with 2 glass plates

Negative holder 24 x 36 mm with 1 glass plate

Negative holder 24 x 36 mm, glassless

Negative holder 28 x 28 mm

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

Accessories for FOCOMAT V 35*

Negative holder 13 x 17
Film tray (2 pieces)
Black-white module
Color module
VARIO CONTRAST module
Diffusion disc
Intermediate ring to change
the reproduction scale
Enlargement frame 24 x 30
Red filter

Accessories for the PRADOVIT A

see page 8-24, 25

*Projector lenses
and accessories*

Macro attachment

Order No. **32 825** _____¹⁾

Film guide

Order No. **32 868** _____¹⁾

Accessories for the PRADOVIT- COLOR

*Projector lenses
and lens sleeves*

¹⁾ Please enquire at Leica customer service, Solms

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).

see page 8-24, 25

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

**Accessories for the
PRADOVIT
C / CA 1500 / 2500,
CA 2502**

Hood and case see page 8-24
Macro attachment

Order No. **32 825** _____ 1)

¹⁾ Please enquire at Leica customer service, Solms

Film guide

Order No. **32 868** _____ 1)

*Projector lenses
and accessories* see page 8-24

Magazines see page 8-20

*Replacement parts**

Mains connection cable

**Accessories for the
PRADOVIT
R / RA 152**

*Projector lenses
and accessories* see page 8-24

**Accessories for
PRADOVIT 153 / 253**

*Projector lenses
and accessories* see page 8-24, 25

**Accessories for
PRADOVIT 153 / 253***

Multiple Connecting socket (cassette rewriter/tape
(6- and 14 pin), e.g. for con- connection).
necting slide control unit

Extension cable
for remote-control, 10 m (33 ft)

Magazines

see page 8-20

* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

(up to unit no. 213 050)

for automatic slide projection with a choice of

intervals from approx. 5 to 35 sec.

see page 8-11

separate, with built-in light pointer (3 m)

for separate cable remote control (approx. 10 m)

Accessories for LEICA P 155 / P 255*

*Timer-P**

Projection lenses and accessories

*Cable remote control**

*Extension cable**

Accessories for the PRADOVIT P 2002

Projection lenses

- ELMARON-P f/2.8/ 35 mm¹⁾
- ELMARIT-P f/2.8/ 50 mm²⁾³⁾
- ELMARON-P f/3.4/200 mm
- ELMARON-P f/4 /250 mm
- EPNOR-P f/4.3/300 mm
- VARIO-ELMARON-P 2 f/3.5/100 – 200 mm^{3) 4)}

*) only in connection with lens sleeve for P 2002 (37540)

P 2-lens sleeve for P 2002

PC-ELMARIT-P f/2.8/ 60 mm⁴⁾⁵⁾

PC-ELMARIT-P f/2.8/ 90 mm⁴⁾

Order No. **37 041** _____

Order No. **37 011** _____

Order No. **37 009** _____

Order No. **37 082** _____

Order No. **34 837** _____

Order No. **37 524** _____

Order No. **37 540** _____

*PC-Projection lenses**)*

Order No. **37 508** _____

Order No. **37 509** _____

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 and 60 slides in the LKM-magazine or 36 slides in the standard magazine.

³⁾ Can be used with the standard condenser 50 – 200.

⁴⁾ Only up to 24 x 36 mm format.

⁵⁾ Only up to 68 slides in the LKM-magazine or 42 slides in the standard magazine

*) obtainable from Leica service center or local Leica agency.

***) Detailed description about PC-lenses on page 8-37.

Accessories for the PRADOVIT 2002

Lenze sleeves

*

Order No. **37 130** _____

Order No. **34 640** _____

for 35 – 200 mm focal
length and lenses of
42.5 mm diameter

for 250 mm focal length

for 300 mm focal length

Interchangeable condensers (24 x 36)

Order No. **37 223** _____

Order No. **37 224** _____

Order No. **37 225** _____

for 35 mm

for 50 – 200 mm
(standard condenser)

for 250 – 300 mm

Interchangeable condensers (40 x 40)

Order No. **37 227** _____

Order No. **37 228** _____

Order No. **37 226** _____

for 60 – 120 mm, usable
for 60 mm to 200 mm

for 250 – 300 mm

Aspherical lens for 40x40

Bright-Light-Kit

Order No. **37 633** _____

Spare parts

Cable remote control*

Mains cable*

**Projector lamps,
light pointer and AF lamps**

Infrared Remote-Control IR PCM

**complete, without
9 V battery**

Order No. **37 990** _____

Range about 20 m (65 ft).

0.60 m (2 ft) cable link, plug for projector's 14-pin
remote-control socket. Power supplied by 2 batteries
micro 1.5 V.

* Replacement may be obtainable from the Leica Camera AG Service Center
or locale Leica agency; please enquire.

Accessories for the PRADOVIT 2002

*Magazine track
extension**

Detailed description from
page 8–38

Order No. **37 632** _____

LEICA
DU-24 MT

Detailed description on
page 8–42

Order No. **37 996** _____

LEICA
DU-24 M 2

Detailed description on
page 8–43

Order No. **37 997** _____

Accessories for TRINOVID Binoculars

Rubber rain guard*)

Eye piece caps*)

Nappa leather case*)

Spase carrying strap*)

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* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

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* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

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* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

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* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

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* Replacement may be obtainable from the Leica Camera AG Service Center or local LEICA agency: please enquire.

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