

Leica

HANDBOOK OF THE LEICA SYSTEM

PHOTOGRAPHY

PROJECTION

ENLARGING

OBSERVATION



Handbook of the Leica System

(Edition September 1995)

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Hendrik Hösel

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Illustrations, descriptions, and
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All specifications are also valid
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the Leitz trademark.

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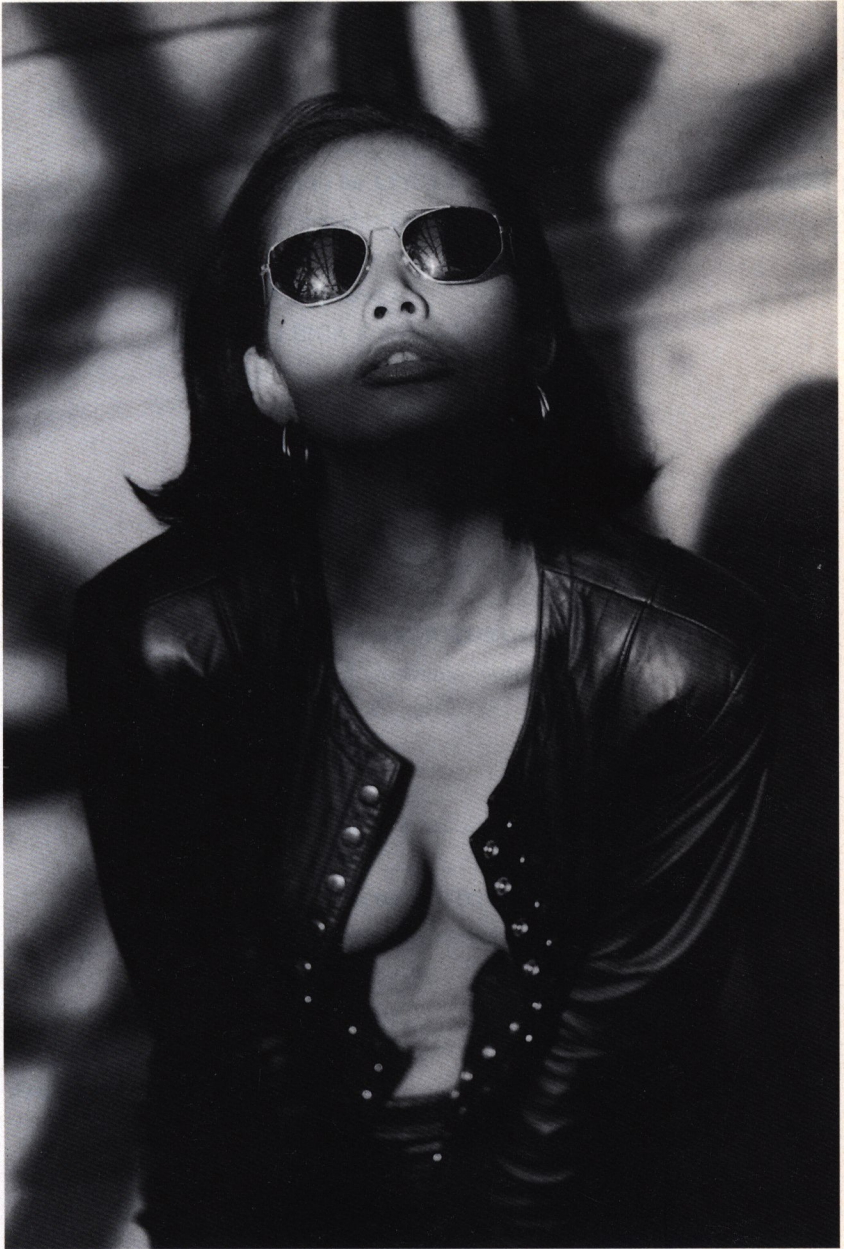
The names used in this catalog and those used in conjunction with goods that can be acquired from Leica:

COLORPLAN
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GEOVID
HEKTOR

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PRADOVIT
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SUMMARIT
SUMMICRON
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TELYT
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LEICA R7
SUMMICRON-R f/2.90 mm
Antonius

LEICA R Models

Product Range	LEICA R 7	1- 2
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	Interchangeable focusing screens	
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	Universal handgrip	
	Other accessories	

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LEICA R7

*Multi-Mode System.
Compact, single-lens
microprocessor-
controlled 35 mm
reflex camera*

Photography



Alternative dual exposure
metering through the lens:

- selective metering
- full-field integral metering

Multi-mode programs:

- aperture priority
- shutter priority
- variable automatic
program

Manual setting of shutter
speed and aperture.

TTL flash metering with
system-compatible flash
units (SCA 351/551);
depending on program,
includes fill-in flash.

Supplementary viewfinder
light, mirror lock-up,
DX-coding, built-in diopter
compensation.

Available as accessories:
Interchangeable focusing
screens, data back, rapid
motor wind, angle view
finder, eyecup, additional
diopter correction lenses.

Detailed product descrip-
tion on page 1-19.

Use of earlier LEICA R-lenses

All LEICA R-lenses can be
used on the R7 without
modification.

LEICAFLEX lenses can-
not be mounted on the
LEICA R7 as this could
damage the camera. For
use with LEICA R cameras,
they must be fitted with
a control cam. Modified
lenses can be used on both
LEICA R and LEICAFLEX
cameras.

LEICA R7

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

Order No. **10 068** _____

LEICA R7

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

Order No. **10 067** _____

¹⁾ 6 V (4 silver oxide button cells
1.5 V or 2 lithium cells 3 V,
Ø 11,6 mm)

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 wind.

Detailed product description on page 1-23.

Use of earlier LEICA R lenses

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

Lenses of the LEICAFLEX models must not be used on the LEICA R 6.2 as this may lead to damage. For use on the LEICA R cameras, 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

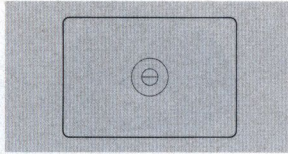
silver chrome finish
complete with carrying strap, body cap, batteries¹⁾ and base plate cover

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

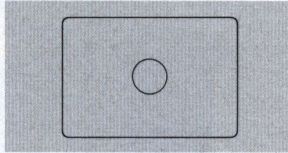
Universal screen
(replacement)
in container with dust brush
and tweezers



*Interchangeable
focusing screens*

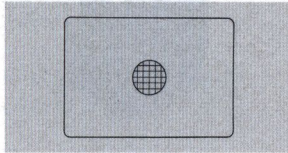
Order No. 14 303 _____

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



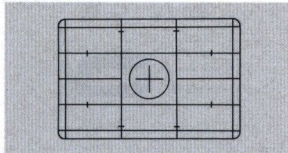
Order No. 14 304 _____

Microprism screen
in container with dust brush
and tweezers



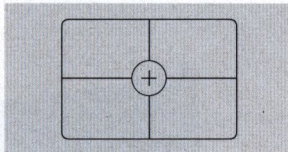
Order No. 14 305 _____

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



Order No. 14 306 _____

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



Order No. 14 307 _____

Accessories

Eyecup R

Order No. 14215 _____



Eyecup R, can be locked in place ¹⁾, can also be used with correction lenses

Angle viewfinder R

Order No. 14300 _____

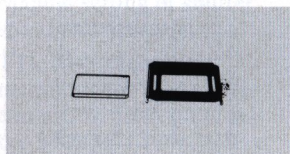


Angle viewfinder R with single and double magnification for viewing from above, also for candid photography "round the corner" or over the heads of a crowd.

Angle viewfinder R 90°, can be locked in place, vertically and laterally correct image, adjustable eyepiece, switch for single/double magnification.

Correction lenses R

	Order No.
+ 0,5	14330 _____
+ 1,0	14331 _____
+ 1,5	14332 _____
+ 2,0	14333 _____
+ 3,0	14334 _____
- 0,5	14335 _____
- 1,0	14336 _____
- 1,5	14337 _____
- 2,0	14338 _____
- 3,0	14339 _____



Correction lenses R with adapter (spherical), can be locked in place ¹⁾.

Attachment possible with eyecup 14215 (see page 1-5)

¹⁾ The Leica Camera Service Center can fit a locking catch on the eyepiece mount of any LEICA R4 with a serial number below 1662952 and of LEICA R4s. R correction lenses and eyecups may be used without modification of the eyepiece mount.

Camera body cover

Order No. 14103 _____

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

Flash socket cover

Order No. 14315 _____

Flash socket cover
for LEICA R models (replacement)

Accessories

1

Photography

DB 2 LEICA R Data Back



**DB 2 LEICA R
Data Back**
for LEICA R models ¹⁾
The DB 2 LEICA R is a
camera back for printing
data onto the film.

Replaces the back of the
camera.

Detailed description
page 1-27.

Order No. **14 216** _____

¹⁾ not for LEICA R3/R4 models
(see page 11-3).



Camera back R
for LEICA R cameras
(not for LEICA R3/R3 Mot)

***Camera back R
with thumbhold***

Order No. **14 411** _____

Accessories

**Ever Ready Cases
for LEICA R models²⁾**
(without Motor-Winder,
Motor-Drive
or Data Back)

Ever Ready Case
with standard front
for LEICA R models³⁾

Order No. **14 510** _____

Ever Ready Case
with standard front
for LEICA R 7

Order No. **14 518** _____



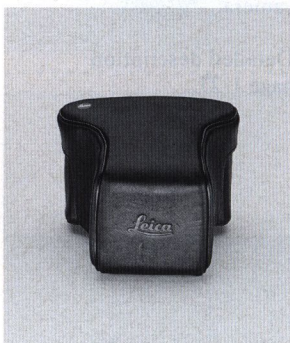
Ever Ready Case
black leather with standard
front for the following
lenses: f/4/21 mm¹⁾,
f/2.8/24 mm¹⁾, f/2.8/28 mm¹⁾,
f/2.8/35 mm, f/4/35 mm¹⁾,
f/1.4/50 mm¹⁾, f/2/50 mm

Ever Ready Case
with large front
for LEICA R models³⁾

Order No. **14 515** _____

Ever Ready Case
with large front
for LEICA R 7

Order No. **14 517** _____



Ever Ready Case
black leather with large front
for 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
for all LEICA R models

Order No. **14 520** _____



Ever Ready Case
black leather for LEICA R
with VARIO-ELMAR-R
f/3.5-4.5/28-70 mm

¹⁾ without lens hood/without
screw-in filter

²⁾ not for LEICA R 3

³⁾ not for R 7

Accessories

Small combination bag R
for LEICA R models ¹⁾
(without Motor-Winder /
Motor-Drive) holding:
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

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



**Small combination
bag R**
(compact version)

**Small combination
bag R**

black leather

Order No. 14 843 _____

Coupling ring
(replacement)

Order No. 14 836 _____

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

Bag (about 31 x 18 x 23 cm
or 12.2 x 7 x 9 in) with

- coupling ring to fasten
2 lenses together
- 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 _____

Coupling ring
(replacement)

Order No. 14 836 _____

¹⁾ not for LEICA R3

Accessories

Hold-all R

Hold-all R

black leather

Order No. **14846** _____

Coupling ring (replacement)

Order No. **14836** _____



Hold-all R

for LEICA R models ¹⁾ with
or without Motor-Winder /
Motor-Drive holding:
2 cameras and up to 6 lenses

Hold-all R

(external dimensions
approx. 36 x 21 x 24 cm
or 14.2 x 8.3 x 9.4 in) with

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

Reporter's bag without compartments



Reporter's bag

External measurements:
approx. 38 x 21 x 30 cm
or 14.9 x 8.3 x 11.8 in
black leather with two
additional outer pockets

Order No. **14830** _____

Ball-and-socket head



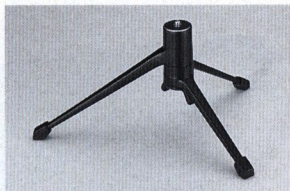
Large ball-and-socket head
with tripod thread A $\frac{1}{4}$,
DIN 4503 ($\frac{1}{4}$ in)

Order No. **14110** _____

¹⁾ not for LEICA R3

Accessories

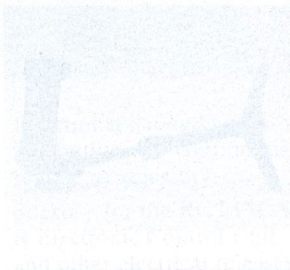
Tabletop tripod
with folding legs, tripod
thread A 1/4, DIN 4503
(1/4 in)



Tabletop tripod

Order No. **14 100** _____

Cable releases
for all camera models with
conical thread



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** _____

Mirror lock-up release R
for separate attachment
below the lens bayonet lock
for LEICA R 6, R 6.2 and R 7



Mirror lock-up release

Order No. **14 087** _____

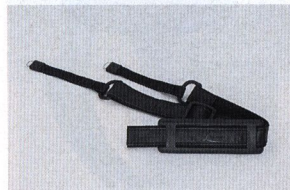
Carrying strap
with antislip pad
(replacement)



Carrying straps

Order No. **14 312** _____

Wide carrying strap
with antislip pad for heavy
equipment. Width: 30 mm



Order No. **14 235** _____

LEICA R Models

Accessories

Carrying straps



Neopren 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. Thread A $\frac{1}{4}$, DIN 4503 ($\frac{1}{4}$ in), for attaching the carrying strap 14 130.

Detailed description
page 1-29



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



Compact, handy motor-winder for film transport and shutter wind, for LEICA R models (except LEICA R3/R3 mot). 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 1-30.

MOTOR-WINDER R

with cover

Order No. 14 208 _____

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/R 7 for hand-held exposures

Handgrip R ²⁾

Order No. 14 308 _____

Handgrip R 7 ²⁾

Order No. 14 317 _____

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

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

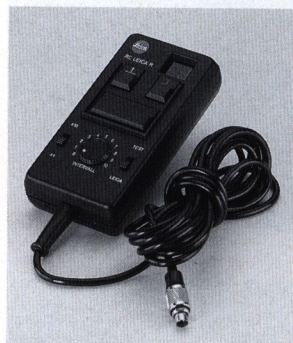
Accessories

for
MOTOR-WINDER R

RC LEICA R
Electronic
Control Unit

Remote-Control
LEICA R (RC LEICA R)

Order No. **14 277**



RC LEICA R

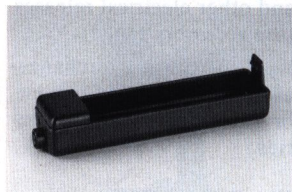
Electronic control unit for remote release.

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 1-34.

Holder for the MW-R
battery housing



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 501 RS, by Varta AG in the battery housing MW-R.

Order No. **14 279**

MW-R battery housing



MW-R battery housing for the MOTOR-WINDER R, as replacement. For heavy-duty operation (prolonged use, low temperatures, expeditions) a second housing, loaded with new or recharged batteries, offers additional reliability. Single action change within seconds.

Order No. **14 280**

Accessories

Tripod holder R

with thread A 1/4, DIN 4503
(1/4 in) for photographic
tripods.

For the use of the LEICA R
models¹⁾ combination with
long-focal-length lenses on
a photographic tripod or for
the attachment of the uni-
versal camera holder for the
REPROVIT IIa and the
REPROVIT-R. The univer-
sal handgrip can also be
attached for horizontal



pictures. Sturdy design with
two conveniently-located
screws for the tripod threads
of the MOTOR-WINDER R
or MOTOR-DRIVE R.

Tripod holder R

Order No. 14 284 _____

Electric Release Switch R

with trigger switch for
switching on the LEICA R
models²⁾ for the universal
handgrip with cable,
length 30 cm or 11.8 in, and
screw-on coupling plug:



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 release
switch R***

Order No. 14 237 _____

Electric cable release 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
(14 274) for electric remote
release up to 100 m or 328 ft.

Electric cable release R

Order No. 14 238 _____

25 m extension cable

(for electric remote release)
with coupling screw plugs.

25 m extension cable

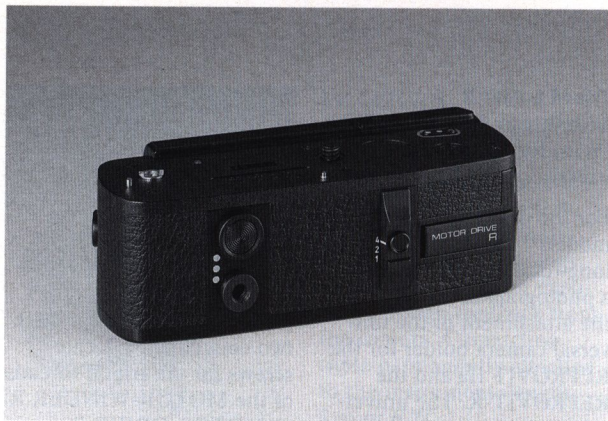
Order No. 14 274 _____

¹⁾ not for LEICA R3

²⁾ not for LEICA R3 models.

Storing of the measuring values
(selective) only through camera
release.

MOTOR- DRIVE R



Compact, handy motor-drive for film transport and shutter wind, for LEICA R models.¹⁾

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.

Socket²⁾ 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 1-32.

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.

MOTOR-DRIVE R

with cover

Order No. 14310 _____

Handgrip R/R 7 for hand-held exposures

Handgrip R³⁾

Order No. 14308 _____

Handgrip R 7³⁾

Order No. 14317 _____



¹⁾ not for LEICA R 3.

²⁾ the 5-pin coupling for single connection plug 302-013.154-004 is suitable. Available from Leica Camera Service Center.

³⁾ 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.

Accessories

RC LEICA R

Electronic control unit for remote release.
Timing pulse generator for automatic release built in.
Seven integrated circuits (IC) in C-MOS technology.
Digital display of the exposure through feedback from the camera.
Connecting cable permanently attached to the instrument, length 2 m or 6' 6".

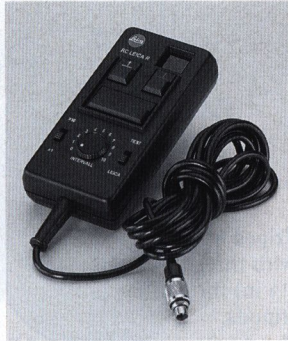
Exclusively for the LEICA R with motor film transport
Detailed description
page 1-34.

Battery housing MD-R

for the MOTOR-DRIVE R as replacement.

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

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



for
MOTOR-DRIVE R

RC LEICA R
Electronic
Control Unit

Remote-Control
LEICA R (RC LEICA R)

Order No. 14 277



Battery housing
MD-R

Order No. 14 322

Accessories

Tripod holder R



Tripod holder R
with thread A 1/4, DIN 4503
(1/4 in) for photographic
tripods.

For the use on the LEICA R²⁾
in combination with

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

Order No. 14 284 _____

Electric release switch R



Electric Release Switch R
with trigger switch for
switching on the LEICA R
models¹⁾²⁾ for the universal

handgrip with 30 cm or
11.8 in cable and screw-on
coupling plug:

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

Order No. 14 237 _____

Electric cable release R

Electric Cable Release R
for remote release, with 5 m
cable and screw-on coupling
plug. In conjunction with

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

Order No. 14 238 _____

25 m extension cable

25 m extension cable
(for electric remote release)
with coupling plugs.

Order No. 14 274 _____

¹⁾ Storing of the metering values
with LEICA R 4 / R 5, R 7 and R-E
(selective) only through camera
release.

²⁾ not for LEICA R 3

LEICA R7



Camera type:

Microprocessor-controlled 35 mm single-lens reflex camera with electronic multi-blade focal plane shutter and multi-mode automatic functions.

Lens mount:

LEICA R-Bayonet.

Lenses:

More than thirty LEICA R-Lenses with focal lengths from 15 mm to 800 mm.

Switching on the camera:

Turn shutter speed dial from "OFF" position and either slightly press shutter release button or mode selector button. With shutter cocked, the viewfinder LEDs remain lit for about 12 s after you release whichever button had been pressed to switch on the camera.

Exposure meter:

Selective and integral through-the-lens modes, combined with camera modes to form programs. Exposure meter works at

full aperture with LEICA R-lenses with automatic spring-back diaphragm, and at working aperture with lenses and accessories without automatic diaphragm.

Selective exposure metering:

Measuring field 7 mm diameter (approx. 4.5 % of 35 mm format), marked in viewfinder.

Integral exposure metering:

Center-weighted full-field integral metering.

Program modes:

Set via program selector:

- Ⓜ Manual setting of shutter speed and aperture, selective metering.
- Ⓐ Aperture Priority, selective metering.
- Ⓐ Aperture Priority, full-field integral metering.
- Ⓣ Shutter Priority, full-field integral metering.
- Ⓟ Variable automatic program mode with full-field integral metering.

Exposure metering memory:

in aperture priority mode with selective metering, by

pressing shutter release button to pressure point, memory active as long as finger is held in position.

Exposure override:

From +3 to -3 exposure values, with half value click stops.

Film speed range:

manual setting: from ISO 6/9° to ISO 12800/42°;
DX coding: from ISO 25/15° to ISO 5000/38°.

Photocell:

Silicium photodiode, protected from stray light in lower part of camera. In selective mode, the program selector automatically places a condenser lens in front of the photodiode.

Metering range:

with selective metering from 0.5 cd/m² to 125000 cd/m² at f/1.4, i. e. from Ev +2 to +20 for ISO 100/21° film or from 1/2 s at f/1.4 to 1/2000 s at f/22.

With integral metering from 0.125 cd/m² to 125 000 cd/m² at f/1.4, i. e. from Ev 0 to +20 for ISO 100/21° film, or from 2 s at f/1.4 to 1/2000 s at f/22.

Power supply:

6 volt. 2 lithium cells (Ø 11.6 mm x 10.8 mm) à 3 V, or four silver oxide button cells (Ø 11.6 mm x 5.4 mm) à 1.5 V.

Battery check:

Automatic display in viewfinder.

Viewfinder system:

Built-in pentaprism. 5 interchangeable focusing screens.

Viewfinder eyepiece:

Setting ring for adjustment from +2 to -2 diopters. Built-in eyepiece curtain. Eyepiece mount for supplementary correction lenses, eyecup, and 90° angle finder attachment.

Viewfinder field:

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

Viewfinder magnification:

0.8 x at 0 diopter with 50 mm lens.

LED displays in viewfinder:

- program symbols,
- automatically set or manually set shutter speed (7 segment display),
- automatically set aperture for shutter priority and automatic program modes,
- flash readiness and flash exposure control with system-compatible flash equipment,
- fill-in flash indicator,
- activation of exposure metering memory, in aperture priority mode with selective metering, the symbol goes out and the stored metered value continues to be displayed,
- light-balancing meter for setting manual exposure.

Automatic brightness adjustment:

of all LED displays.

Data reflected into viewfinder:

set lens aperture.

Supplementary viewfinder light:

for illuminating lens aperture scale.

LED-warning indicators in viewfinder:

- plus/minus exposure override,
- low light warning,
- over- or underexposure,
- limited aperture range in automatic program and shutter priority (lens aperture not set to smallest value),
- correction of preset shutter speed in shutter priority,
- discrepancy between manually set and DX-coded film speed,
- in DX-setting with non-DX coded film or no film (additional warning symbol via external LED next to film speed dial),
- low battery warning.

Flash connection:

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

TTL flash exposure metering control:

with system SCA 300 or 500 dedicated flash units and SCA 351 or 551 adapters.

Flash as main light source:

in manual mode: all shutter speeds from 4 s to 1/90 s, with faster shutter speeds, automatic switchover to 1/100 s. In aperture priority mode: automatic switchover to 1/100 s.

In "B" and "100 $\frac{1}{2}$ " settings.

Flash as fill-in:

In shutter priority: all shutter speeds from 4 s to 1/90 s, with faster shutter speeds automatic switchover to 1/100 s.

Automatic switchover between flash as main light source and fill-in flash:

In automatic program mode: automatic switchover to 1/100 s. Flash intensity dosaged via TTL flash exposure metering, depending on ambient light (flash as main light source, fill-in flash or no flash effect).

Flash exposure metering method:

center-weighted, integral.

Photocell for TTL-flash exposure metering:

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

Film speed range for TTL flash exposure metering:

ISO 12/12° to ISO 3200/36°. **Exposure override for flash exposure metering:** plus/minus 3 Ev in half-values (restrictions to the limit of the ISO setting range).

Shutter:

Electronically controlled focal-plane blade shutter, vertical action.

Shutter speed dial:

easy-reach 6.5 mm height; centrally positioned exposure release button.

Electronically computed shutter speeds:

for automatic programs, continuous from 16 s to 1/2000 s. Manual settings from 4 s to 1/2000 s in half values.

Mechanical shutter-speed settings:

„100 $\frac{1}{2}$ “ = 1/100 s flash synchronization, or in case of battery failure. "B" for time exposure of any length. (Exposures in "B" setting electronically controlled when using drive in 4 fps setting).

Swing mirror system:

Semi-transparent, swing mirror, reflects 70 % and transmits 30 % light, backed by Fresnel reflector (1345 micro-reflectors) to concentrate light on exposure meter's photocell).

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).

Frame counter:

frame count in ascending values. Automatic reset to "0" when camera back is opened. Built-in reading magnifier.

Multiple exposures:

press rewind locking button. Automatic reset when shutter is cocked; exposure counter does not move forward. Any number of exposure possible. Multiple exposures also possible with motorized film advance units.

Film rewind:

via hinged crank lever at top left of camera.

Shutter release:

Shutter release button with standard thread for cable release. Press down 0.3 mm to first pressure point to switch on (viewfinder LEDs light up, exposure meter switched on). Press down approx. 0.9 mm to second pressure point to activate memory for exposure metering value. Press down approx. 1.35 mm for electromagnetic shutter release for electronically computed exposures. Press down approx. 2 mm for mechanical release ("B" and "100 $\frac{1}{2}$ ").

Mirror lock-up:

via separate cable-release connection.

Self-timer:

approx. 10 s countdown; flashing red LED on front of camera indicates that self-timer is set. Repeat countdown by pressing exposure release button again; cancel by turning self-timer dial.

Film plane:

Mark on top of camera.

Camera housing:

Body: Die-cast aluminium.
Camera top: 1 mm die-cast zinc. Base plate: 0.8 mm brass. Black or silver chrome finish.

Camera back:

with thumb grip and film cartridge window; interchangeable with Data Back.

Depth of field lever:

to the right of lens bayonet, enables visible assessment of depth of field.

Tripod thread:

A 1/4 (1/4", according to DIN 4503).

Standard thread for cable release connection:

for cable release and independent mirror release.

Dimensions and weight (without lens):

Height: 94.8 mm or 3.73 in,
Length: 138.5 mm or 5.45 in,
Total depth: 62.2 mm or 2.45 in (depth of camera housing only: 32.2 mm or 1.27 in),
Weight: 670 g (23 oz).

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

Independent mirror release:

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

Electromagnetic self-timer:

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

Film transport:

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

Film plane:

Mark at top of camera.

Exposure counter:

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

Multiple exposures:

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

Rewind lever:

Hinged crank at top left of camera.

Exposure meter:

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

Photocell:

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 full-field 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 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 or lithium battery. 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".

Viewfinder system:
Built-in pentaprism. Five interchangeable focusing screens: No. 1 universal screen (included with delivery), No. 2 uniform ground-glass screen, No. 3 micropism screen, No. 4 uniform ground-glass screen with grid divisions and TV markings, No. 5 clear glass screen with crosslines.

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°.

LEICA R Models *Specifications and Technical Data*

1

Photography

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 DB2 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 chromium 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



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 part of the standard equipment of the 400 mm TELYT-R f/6.8.

It is recommended also in conjunction with the 250 mm TELYT-R f/4, the 280 mm APO-TELYT-R f/2.8, the 350 mm TELYT-R f/4.8, and the Focusing Bellows R, both 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 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



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 models¹⁾. The motor winder automatically takes over the current supply of the camera (camera batteries must remain in the camera).²⁾

The motor-winder can be used with all programs.

Current supply:

By six commercially available 1.5 v alkali manganese batteries or 6 NiCd rechargeable batteries, e. g. 501 RS of Varta AG in an easily interchangeable battery housing. Capacity: about

150 films of 36 exposures at 20 °C. During recharging, the batteries remain in the battery housing with the holder for the MW-R battery housing (see Page 14).

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.

¹⁾ not for LEICA R 3

²⁾ not for 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:

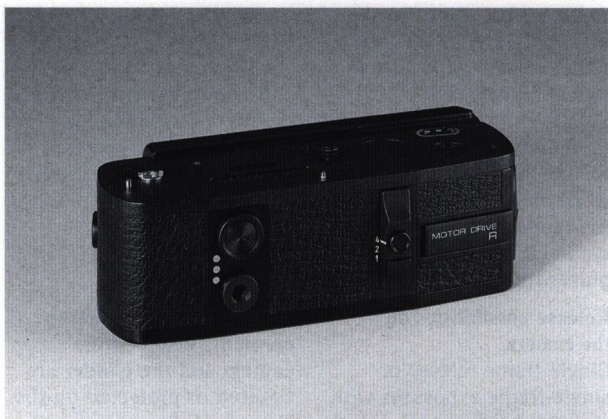
Die-cast magnesium. The coupling and connecting elements between the camera and the winder are covered or protected on the bottom of the camera and the top of the winder. Locating pins simplify attachment to the bottom of the camera. Winder connected via a screw with a hinged toggle with the tripod bush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

**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 models¹⁾. The MOTOR-DRIVE automatically takes over the current supply of the camera (batteries must remain in the camera).²⁾

The MOTOR-DRIVE can be used with all programs.

Current supply:

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

During recharging, the batteries remain in the battery housing, which has sockets for the connection of a charger (see Page 1-17).

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.

¹⁾ not for LEICA R 3

²⁾ not for 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.

RC LEICA R Electronic Control Unit



Type of instrument:

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

Housing:

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

Functions:

Broad push-button (\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 (\uparrow) for indicating the number of exposures made at any time. After a touch, the digital display lights up for about two seconds.

Input key (\downarrow) 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 ($\uparrow + \downarrow$).

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.

LEICA R lenses

*Product range,
Specifications and
Technical Data*

SUPER-ELMAR-R	f/3.5/15 mm	2- 5
FISHEYE-ELMARIT-R	f/2.8/16 mm	2- 6
ELMARIT-R	f/2.8/19 mm	2- 7
ELMARIT-R	f/2.8/24 mm	2- 8
ELMARIT-R	f/2.8/28 mm	2- 9
PC-SUPER-ANGULON-R	f/2.8/28 mm	2-10
SUMMILUX-R	f/1.4/35 mm	2-11
SUMMICRON-R	f/2/35 mm	2-12
ELMARIT-R	f/2.8/35 mm	2-13
PA-CURTAGON-R	f/4/35 mm	2-14
SUMMILUX-R	f/1.4/50 mm	2-15
SUMMICRON-R	f/2/50 mm	2-16
MACRO-ELMARIT-R	f/2.8/60 mm	2-17
SUMMILUX-R	f/1.4/80 mm	2-18
SUMMICRON-R	f/2/90 mm	2-19
ELMARIT-R	f/2.8/90 mm	2-20
APO-MACRO-ELMARIT-R	f/2.8/100 mm	2-21
ELMARIT-R	f/2.8/135 mm	2-22
APO-SUMMICRON-R	f/2/180 mm	2-23
ELMARIT-R	f/2.8/180 mm	2-24
APO-TELYT-R	f/3.4/180 mm	2-25
ELMAR-R	f/4/180 mm	2-26
APO-TELYT-R	f/2.8/280 mm	2-27
APO-TELYT-R	f/4/280 mm	2-28
APO-TELYT-R	f/2.8/400 mm	2-29
TELYT-R	f/6.8/400 mm	2-30
TELYT-R (NOVOFLEX Syst.)	f/6.8/400 mm	2-31
MR-TELYT-R	f/8/500 mm	2-32
TELYT-R (NOVOFLEX Syst.)	f/6.8/560 mm	2-33
TELYT-S	f/6.3/800 mm	2-34
VARIO-ELMAR-R	f/3.5-4.5/28-70 mm	2-35
VARIO-ELMAR-R	f/3.5/35-70 mm	2-36
VARIO-ELMAR-R	f/4/70-210 mm	2-37
APO-EXTENDER-R		2-38
Accessories for LEICA R lenses		2-40

The range of LEICA R lenses

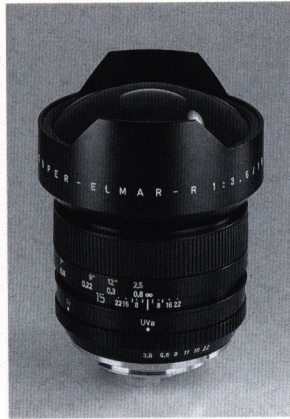
Description	Speed	Focal length (in mm)	Angel of view (°)	Filter (Ø)	Order No.
SUPER-ELMAR-R	f/3.5	15	110	built-in	11 213
FISHEYE-ELMARIT-R	f/2.8	16	180	built-in	11 222
ELMARIT-R	f/2.8	19	96	built-in	11 258
ELMARIT-R	f/2.8	24	84	S 8	11 257
ELMARIT-R	f/2.8	28	76	E 55	11 259
PC-SUPER-ANGULON-R	f/2.8	28	73/93	67 EW	11 812
SUMMILUX-R	f/1.4	35	64	E 67	11 144
SUMMICRON-R	f/2	35	64	E 55	11 115
ELMARIT-R	f/2.8	35	64	E 55	11 251
PA-CURTAGON-R	f/4	35	64/78	S 8	11 202
SUMMILUX-R	f/1.4	50	45	E 55	11 777
SUMMICRON-R	f/2	50	45	E 55	11 216
MACRO-ELMARIT-R	f/2.8	60	39	E 55	11 253
SUMMILUX-R	f/1.4	80	30	E 67	11 881
SUMMICRON-R	f/2	90	27	E 55	11 254
ELMARIT-R	f/2.8	90	27	E 55	11 154
APO-MACRO-ELMARIT-R	f/2.8	100	25	E 60	11 210
MACRO-ELMAR-R	f/4	100	25	E 55	11 232
MACRO-ELMAR ¹⁾	f/4	100	25	E 55	11 230
ELMARIT-R	f/2.8	135	18	E 55	11 211
APO-SUMMICRON-R	f/2	180	14	E 100, S 6	11 271
ELMARIT-R	f/2.8	180	14	E 67	11 923
APO-TELYT-R	f/3.4	180	14	E 60	11 242
ELMAR-R	f/4	180	14	E 55	11 922
APO-TELYT-R	f/2.8	280	8,5	E 112, S 5.5	11 263
APO-TELYT-R	f/4	280	8,5	S 5.5	11 261
APO-TELYT-R	f/2.8	400	6	S 5.5	11 260
TELYT-R	f/6.8	400	6	S 7	11 953
TELYT-R (NOVOFLEX Syst.)	f/6.8	400	6	³⁾	11 926
MR-TELYT-R	f/8	500	5	E 77 ²⁾	11 243
TELYT-R (NOVOFLEX Syst.)	f/6.8	560	4,3	³⁾	11 927
TELYT-S	f/6.3	800	3	S 7	11 921
VARIO-ELMAR-R	f/3.5 - 4.5	28 - 70	76-34	E 60	11 265
VARIO-ELMAR-R	f/3.5	35 - 70	64-34	E 67	11 248
VARIO-ELMAR-R	f/4	70 - 210	35-12	E 60	11 246
Extender R Accessories for LEICA R lenses Filters, lens hoods					

¹⁾ for Focusing Bellows R BR 2 only

²⁾ 5 special filters from part of the outfit.

³⁾ Special NOVOFLEX and HELIOPAN filters

- Angle of view: 110°
- Number of elements: 13 (12 components)
- Floating elements correct optical aberrations
- Built-in turret with four filters: UVa, yellow, orange, blue (conversion filter)
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 0.16 m (6 in)
- Smallest object field: 70 x 106 mm (2.7 x 4.2 in) (about 1:3)
- Rubber-covered focusing ring
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in lens hood
- Lens cap diameter: 83.5 mm (3.3 in)
- Length from bayonet flange: 92.5 mm (3.6 in)
- Diameter: 83.5 mm (3.3 in)
- Weight: 0.910 kg



High speed, ultra wide angle lens

SUPER-ELMAR-R f/3.5/15 mm

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

SUPER-ELMAR-R f/3.5/15 mm

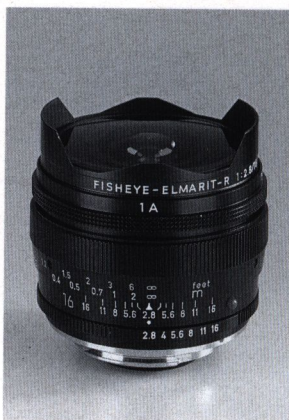
In a soft leather case,
with lens cap and rear
cover

(Replacement soft leather case
and lens cap, see page 2-42)

Order No. 11 213 _____

FISHEYE- ELMARIT-R f/2.8/16 mm

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



Fisheye lens for special
imaging effects

FISHEYE-ELMARIT-R f/2.8/16 mm

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

(Replacement soft leather case
and lens cap, see page 2-42)

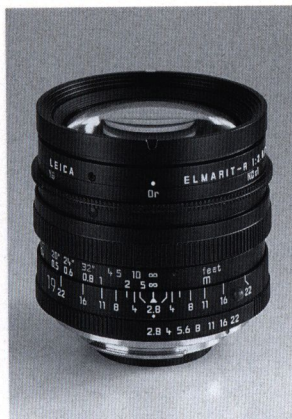
Order No. 11 222 _____

- 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
- 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

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
Fisheye-Elmarit-R f/2.8 is set to
its smallest aperture of f/16. This
does not affect the camera func-
tions, but is due to the camera's
design. We therefore recommend
using aperture priority and setting
the shutter speed manually.

LEICA R lenses

- 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
- 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



High speed ultra-wide-angle lens

ELMARIT-R f/2.8/19 mm

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

ELMARIT-R f/2.8/19 mm

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

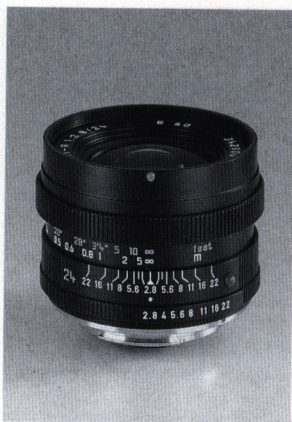
(Replacement soft leather case,
lens hood, lens cap, rear cover,
and accessories:
see page 2-42 to 44)

Order No. **11 258** _____

LEICA R lenses

ELMARIT-R f/2.8/24 mm

*for LEICA R models
(all modes)¹⁾*



Lens of very wide angle of view

- Angle of view: 84°
- Number of elements: 9 (7 components)
- Floating elements correct optical aberrations
- Filter size: series 8 (attached with lens hood)
- Internal thread: M 60 x 0.75
- Fully automatic 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: 250 x 374 mm (10 x 15 in) (about 1:10.5)
- LEICA R quick change bayonet
- 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

ELMARIT-R f/2.8/24 mm

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

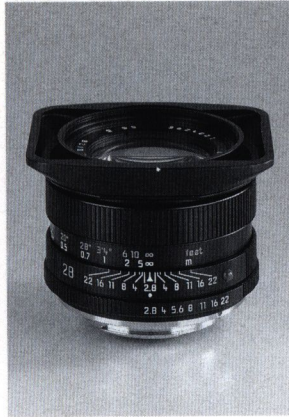
(Replacement soft leather case,
lens hood, lens cap, rear cap,
and accessories
see from page 2-42 to 44)

Order No. 11 257 _____

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

LEICA R lenses

- Angle of view: 76°
- Number of elements: 8
(7 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/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
- 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



Wide-angle lens

ELMARIT-R f/2.8/28 mm

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

ELMARIT-R f/2.8/28 mm

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

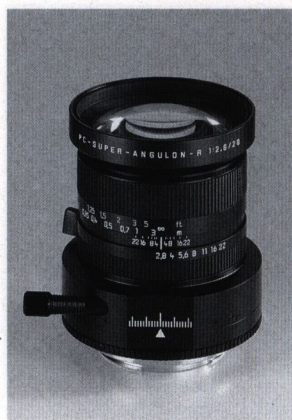
(Replacement soft leather case,
lens cap, rear cover and
accessories see page 2-42 to 44)

Order No. **11 259** _____

LEICA R lenses

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 ele-
ments (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 Fil-
terfabrik, Postfach 24 63,
D-55513 Bad Kreuznach,
and its distributors)
- Internal thread: M 67 x 0.75
- 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
- Lens barrel: Black anodized
- Lens hood: Screw-in type,
also doubles as special
67 EW filter holder
- Front lens diameter:
70 mm (2.8 in)
- Length to bayonet flange:
84 mm (3.3 in)
- Maximum diameter:
75 mm (3 in)
- Weight: 0.600 kg

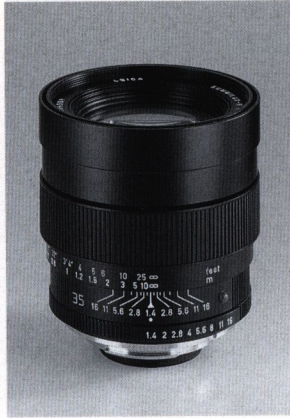
PC-SUPER- ANGULON-R f/2.8/28 mm

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

(soft leather case, lens hood, lens
cap and rear cover as replace-
ment, see page 2-42 to 44)

Order No. 11 812 _____

- 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
- 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



Ultra-high-speed wide-angle lens

SUMMILUX-R f/1.4/35 mm

*for LEICA R models
(all modes)*

2
Photography

SUMMILUX-R f/1.4/35 mm

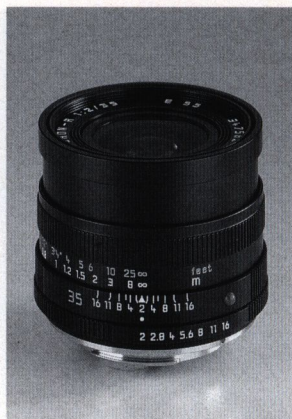
In a soft leather case,
with lens cap and rear
cover

(Replacement soft leather case,
lens cap, rear cover and
accessories see page 2-42 to 44)

Order No. 11 144 _____

SUMMICRON-R f/2/35 mm

*for LEICA R models
(all modes)*



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
- 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

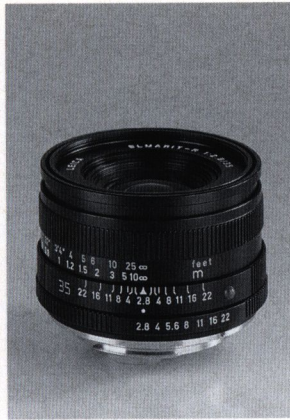
SUMMICRON-R f/2/35 mm

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

(Replacement soft leather case, lens cap, rear cover, and accessories see page 2-42 to 44)

Order No. **11 115**

- Angle of view: 64°
- Number of elements: 7
(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/22
- Combined meter/feet scale
- Focusing range: ∞ to 0,30 m (12 in)
- Smallest object field: 140 x 210 mm (5 1/4 x 8 1/2 in) (ca. 1:6)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 63 mm (2.5 in)
- Length from bayonet flange: 41.5 mm (1.6 in)
- Diameter: 66 mm (2.6 in)
- Weight: 0.310 kg



Wide-angle lens

ELMARIT-R f/2.8/35 mm

*for LEICA R models
(all modes)¹⁾*

ELMARIT-R f/2.8/35 mm

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

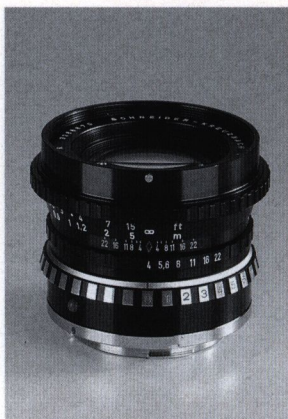
(Replacement soft leather case,
lens cap and rear cover
see page 2-42 to 44)

Order No. 11 251 _____

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

PA-CURTAGON -R f/4/35 mm

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



Wide-angle lens without
preset diaphragm with
perspective compensation

PA-CURTAGON-R f/4/35 mm

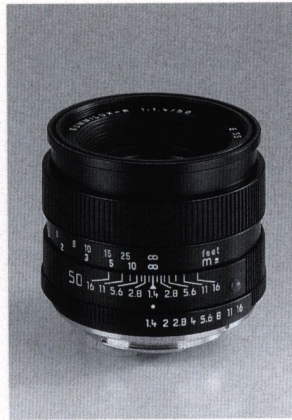
In a soft leather case,
with lens hood, lens cap
and rear cover

(Replacement lens hood, lens
cap rear cover, and accessories
see page 2-42 to 44)

Order No. **11 202** _____

- Displacement from the optical axis: 7 mm in each direction
- Radial adjustment: clickstops at 90° intervals
- Angle of view: 64° - 78°
- Number of elements: 7 (6 components)
- Filter size: 8, attachment through lens hood
- Internal thread: M 60 x 0.75
- Aperture setting ring with clickstops
- Smallest aperture: f/22
- 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
- Black anodized finish, with bright decorative ring
- Locking lens hood, also as adapter for Series 8 filters
- Lens cap diameter: 63.7 mm (2.5 in)
- Length from bayonet flange: 51 mm (2 in)
- Diameter: 70 mm (2.8 in)
- Weight: 0.330 kg

- Angle of view: 45°
- Number of elements: 7
(6 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Fully automatic spring back with clickstops (including half values)
- Aperture setting ring
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.50 m (20 in)
- Smallest object field: 180 x 270 mm (7.1 x 10.6 in) (about 1:7.5)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 63 mm (2.5 in)
- Length from bayonet flange: 50.6 mm (2 in)
- Diameter: 66.5 mm (2.6 in)
- Weight: 0.400 kg



Ultra-high-speed lens

SUMMILUX-R f/1.4/50 mm

*for LEICA R models
(all modes)¹⁾*

2
Photography

SUMMILUX-R f/1.4/50 mm

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

(Replacement soft leather case,
lens cap, rear cover and
accessories see page 2-42 to 44)

Order No. **11 777** _____

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

SUMMICRON-R f/2/50 mm

for LEICA R models
(all modes)¹⁾



- 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
- 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

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)

SUMMICRON-R f/2/50 mm

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 2-42 to 44)

Order No. 11 216

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

ELPRO achromats near-focusing attachment

Order No. 16 541

Order No. 16 542

ELPRO 1

ELPRO 2

Order No. 16 553

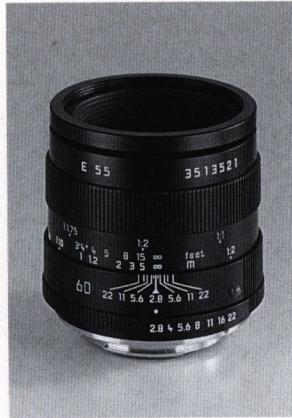
Leather case for 1 near-focusing attachment

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.

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

- Angle of view: 39°
- Number of elements: 6 (5 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Fully automatic 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
- 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-ELMARIT-R f/2.8/60 mm

for LEICA R models
(all modes)¹⁾

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

MACRO-ELMARIT-R f/2.8/60 mm

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 2-42 to 44)

Order No. 11 253

MACRO-ADAPTER-R

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

Length: 30 mm
Diameter: 62 mm
Weight: 0.13 kg



MACRO-ADAPTER-R²⁾

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

Order No. 14 256

Covers for the MACRO-ADAPTER-R:

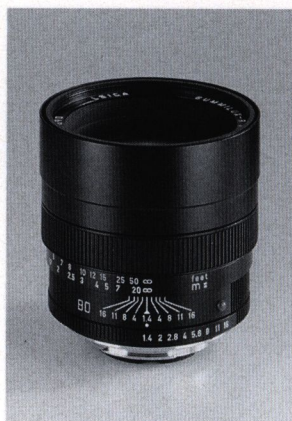
Front cover
(camera body cover)
Rear cover
(same as for lenses)

Order No. 14 103

Order No. 14 162

SUMMILUX-R f/1.4/80 mm

for LEICA R models
(all modes)¹⁾



Ultra-high-speed lens of
long focal length

SUMMILUX-R f/1.4/80 mm

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

(Replacement soft leather case,
lens cap, rear cover and
accessories see page 2-42 to 44)

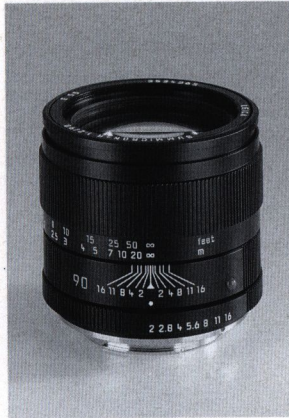
Order No. 11 881 _____

- 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
- 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

¹⁾ Cannot be modified.

High-speed reportage lens

- Angle of view: 27°
- Number of elements: 5 (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 0.70 m (28 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
- Black anodized finish



- Built-in, telescopic lens hood
- Lens cap diameter: 67 mm (2.6 in)
- Length from bayonet flange: 61 mm (2.4 in)
- Diameter: 69 mm (2.7 in)
- Weight: 0.520 kg

SUMMICRON-R f/2/90 mm

*for LEICA R models
(all modes)¹⁾*

SUMMICRON-R f/2/90 mm

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 2-42 to 44)

Order No. 11 254

ELPRO (achromatic) near-focusing attachment

Order No. 16 543

ELPRO 3

Leather case for near-focusing attachment

Order No. 14 553

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/2/90 mm	3	∞	74	61	161 x 241	1 : 6.7
		0.7	44	30	72 x 108	1 : 3.0

All values rounded off.

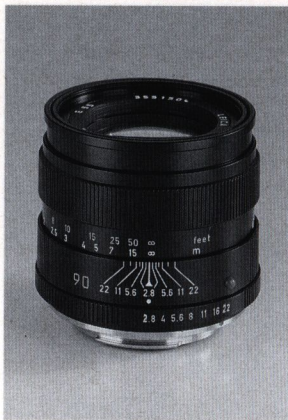
¹⁾ The Leica Camera Service Center or the authorized workshop of any Leica Camera agency can modify this lens for use on all LEICAFLEX models.

LEICA R lenses

ELMARIT-R

f/2.8/90 mm

*for LEICA R models
(all modes)¹⁾*



Universal lens of medium focal length

- Angle of view: 27°
- Number of elements: 4 (4 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)

- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 0.70 m (28 in)
- Smallest object field: 140 x 210 mm (5.5 x 8.3 in) (about 1:6)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 63 mm (2.5 in)
- Length from bayonet flange: 57 mm (2.2 in)
- Diameter: 67 mm (2.6 in)
- Weight: 0.450 kg

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

ELMARIT-R f/2.8/90 mm

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 2-42 to 44)

Order No. **11 154** _____

ELPRO (achromat) near-focusing attachment

Order No. **16 543** _____

ELPRO 3

Order No. **14 553** _____

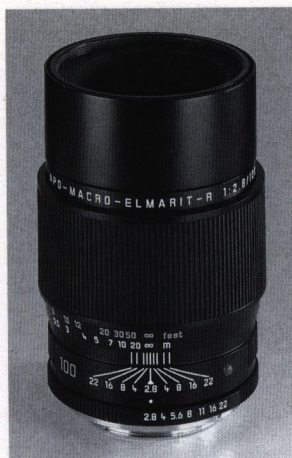
Leather case for near-focusing attachment

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

All values rounded off.

Multi-purpose lens of medium focal length for photography from ∞ to the macro range (1:2) and corrected for extended spectral range

- Angle of view: 25°
- Number of elements: 8 (6 components)
- Filter size: E 60
- Internal thread: M 60 x 0.75
- Fully automatic 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
- 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)
- Widest diameter: 73 mm (2.9 in)
- Weight: 0.760 kg

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

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

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

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 2-42 to 44)

Order No. 11 210 _____

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

(further details on page 2-38)

APO-EXTENDER-R 2x

with protective covers

Order No. 11 262 _____

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

replacement lens hood
replacement lens cap
replacement rear cover

ELPRO 1:2-1:1

Order No. 16 545 _____

Order No. 12 528 _____

Order No. 14 290 _____

Order No. 14 251 _____

STA 1 tripod adapter
for attaching the
APO-MACRO-ELMARIT-R

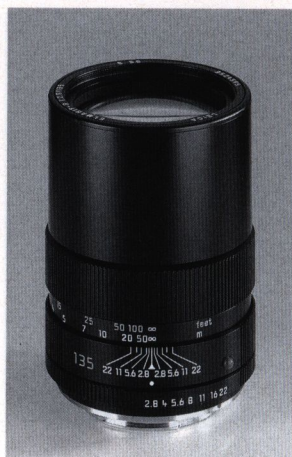
f/2.8/100 mm to a tripod or to the universal handgrip

STA 1 tripod adapter

Order No. 14 636 _____

ELMARIT-R f/2.8/135 mm

for LEICA R models
(all modes)
LEICAFLEX models



Telephoto 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 1.50 m (5 ft)
- Smallest object field: 220 x 330 mm (8.7 x 13.0 in) (about 1:9)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 65 mm (2.6 in)
- Length from bayonet flange: 93 mm (3.7 in)
- Diameter: 67 mm (2.6 in)
- Weight: 0.730 kg

ELMARIT-R f/2.8/135 mm

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 2-42 to 44)

Order No. 11 211

- Angle of view: 18°
- Number of elements: 5 (4 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75¹⁾

ELPRO (achromatic) near-focusing attachments

Order No. 16 543

Order No. 16 544

ELPRO 3

ELPRO 4

Order No. 14 553

Leather case for near-focusing attachment

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

All values rounded off.

¹⁾ up to No. 2 772 618 internal thread of lens M 54 x 0.75

- Angle of view: 14°
- Number of elements: 9
(6 components)
- Filter size: series 6
(in filter drawer)
- Filter thread (front):
E 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 focus-
ing correction
- Smallest object field:
160 x 240 mm (6.3 x 9.4 in)
(about 1 : 6.7)
- LEICA R quick change
bayonet
- Black anodized finish
- Built-in, rubber-armored,
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



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

- Front lens 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- SUMMICRON-R f/2/180 mm

*for LEICA R models
(all modes)*

Photography

2

APO-SUMMICRON-R f/2/180 mm

In a hard leather case, with
lens cap and rear cover, fil-
ter drawer with 6 ND x 1
series filter, carrying straps
(Replacement hard leather case,
lens cap, rear cover and carrying
straps see page 2-42 - 44)

Order No. 11 271

APO-EXTENDER-R for LEICA R models

(further details on
page 2-38)

APO-EXTENDER-R

APO-EXTENDER-R 1.4x (all modes)

with protective covers

Order No. 11 249

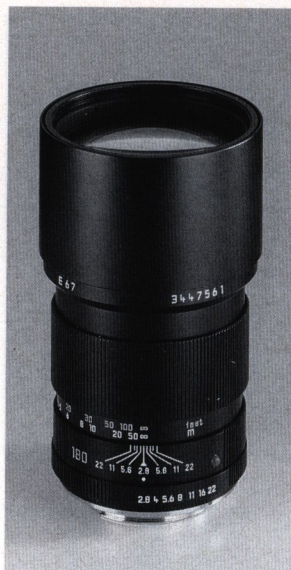
APO-EXTENDER-R 2 x (with aperture priority and manual modes)

with protective covers

Order No. 11 262

ELMARIT-R f/2.8/180 mm

*for LEICA R models
(all modes)
LEICAFLEX models*



High-speed telephoto lens

- Angle of view: 14°
- Number of elements: 5 (4 components)
- Filter size: E 67
- Internal thread: M 67 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range: ∞ to 1.80 m (6 ft)
- Smallest object field: 193 x 290 mm (7.6 x 11.4 in) (about 1:8)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 75 mm (3 in)
- Length from bayonet flange: 121 mm (4.8 in)
- Diameter: 75 mm (3 in)
- Weight: 0.810 kg

ELMARIT-R f/2.8/180 mm

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 2-42 to 44)

Order No. **11 923**

LEICA R lenses

- Angle of view: 14°
- Number of elements: 7
(4 components)
- Filter size: E 60
- Internal thread:
M 60 x 0.75¹⁾
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops
(including half values)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 2.50 m (8 ft 4 in)
- Smallest object field:
276 x 414 mm (10.9 x 16.3 in)
(about 1:11.5)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Front lens diameter:
66 mm (2.6 in)
- Length from bayonet flange: 135 mm (5.3 in)
- Diameter: 68 mm (2.7 in)
- Weight: 0.750 kg



High-speed telephoto lens

APO-TELYT-R f/3.4/180 mm

*for LEICA R models
(all modes)
LEICAFLEX models*

APO-TELYT-R f/3.4/180 mm

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

(Replacement soft leather case,
lens cap, rear cover and
accessories see page 2-42 to 44)

Order No. **11 242** _____

APO-EXTENDER-R 2 x
for LEICA R models
(with aperture priority
and manual modes)
(further details on page
2-39)

APO-EXTENDER-R 2 x

APO-EXTENDER-R 2 x
with protective covers

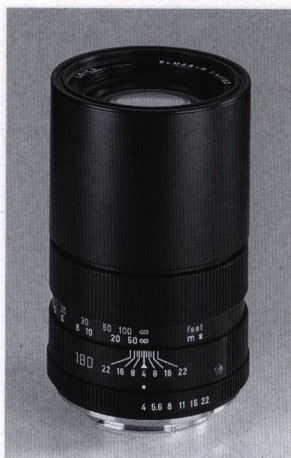
Order No. **11 262** _____

¹⁾ up to Serial No. 2 947 023 internal
thread M 59 x 0.75

ELMAR-R

f/4/180 mm

*for LEICA R models
(all modes)
LEICAFLEX models*



Handy telephoto lens

ELMAR-R f/4/180 mm

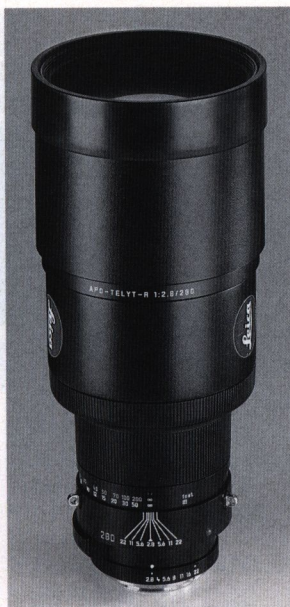
In a soft leather case,
with lens cap and rear
cover

(Replacement soft leather case,
lens cap, rear cover and
accessories see page 2-42 to 44)

Order No. **11 922** _____

- Angle of view: 14°
- Number of elements: 5
(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/22
- Combined meter/feet scale
- Focusing range: ∞ to 1.80 m (6 ft)
- Smallest object field: 175 x 262 mm (6.9 x 10.3 in) (about 1 : 7)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 65 mm (2.6 in)
- Length from bayonet flange: 100 mm (3.9 in)
- Diameter: 65.5 mm (2.6 in)
- Weight: 0.540 kg

- Angle of view: 8.8°
- Number of elements: 8 (7 components)
- Filter size: series 55 (in filter drawer) and E 112
- Internal thread: M 112 x 1.5
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values except between f/2.8 and f/4)
- Smallest aperture: f/22
- Combined meter/ foot scale
- Focusing range: ∞ to 2.5 m (8.2 ft)
- Can be focused beyond ∞
- Can be used for infrared exposures without focusing correction
- Smallest object field: 195 x 293 mm (7.7 x 11.5 in) (approx. 1:8)
- LEICA R quick change bayonet
- Black anodized finish
- Built-in telescopic lens hood with edge protection
- Eyelets for attachment of carrying strap
- Tripod thread: A 1/4, DIN 4503, (1/4 in), tilting for vertical and horizontal pictures, with clickstops
- Pistol stock
- Filter ND x 1 with edge protection
- Filter drawer with series 5.5 ND x 1



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

- Carrying strap
- Case with attachable carrying strap
- Front lens diameter: 125 mm (4.9 in)
- Length from bayonet flange: 261 mm (10.3 in)
- Widest diameter: 125 mm (4.9 in)
- Weight: 2.800 kg

APO-TELYT-R f/2.8/280 mm

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

Photography

2

APO-TELYT-R f/2.8/280 mm

with lens cap and rear cover, filter drawer with series 5.5 ND x 1, pistol stock, ND x 1 protection filter, carrying strap, and case

(Replacement lens cap, rear cover, pistol stock, filter, carrying strap see page 2-42 to 44)

Order No. 11 263 _____

APO-EXTENDER-R for LEICA R models

(further details on
page 2-38)

APO-EXTENDER-R

APO-EXTENDER-R 1.4x (all modes)

with protective covers

Order No. 11 249 _____

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

with protective covers

Order No. 11 262 _____

APO-TELYT-R f/4/280 mm

for LEICA R models
(all modes)



- 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
- Black anodized finish
- Built-in, rubber-armoured, 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
- Diameter: 90 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

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

- Angle of view: 8,8°
- Number of elements: 7 (6 components)
- Filter size: series 5.5 (in filter drawer)
- Filter thread (front): E 77

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 straps

(Replacement leather case, lens cap, rear cover and carrying straps see page 2-42 to 44)

Order No. 11 261

APO-EXTENDER-R

APO-EXTENDER-R 1.4x (all modes)

with protective covers

Order No. 11 249

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

with protective covers

Order No. 11 262

APO-EXTENDER-R for LEICA R models

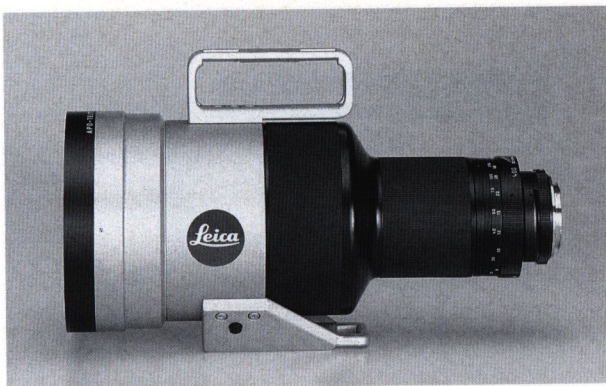
(further details on page 2-38)

APO-TELYT-R f/2.8/400 mm

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

Photography

2



High-speed telephoto lens with internal focusing and apochromatic correction for extended spectral range (IR-range)

- Angle of view: 6°
- Number of elements: 11 (9 components)
- Filter size: series 5.5 (in filter drawer)
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values, except between f/2.8 and f/4)
- Smallest aperture: 22
- Combined meter/feet scale
- Focusing range: ∞ to 4.70 m (15.4 ft)
- Can be focused beyond ∞
- Suitable for exposures in IR-range without focus adjustment
- Smallest object field: 28 cm x 42 cm (11 x 16.5 in) (approx. 1 : 11.5)
- Pre-setting of shortest focusing distance possible from 4.70 m to ∞
- LEICA R quick-change bayonet
- Lens black anodized/silver lacquer
- Lens hood: detachable, with rim guard (can be locked in two positions)
- Carrying handle with attachments for carrying strap
- Tripod attachment: A 1/4 and A 3/8, DIN 4503 (1/4" and 3/8"), rotatable for vertical and horizontal formats, with click stops
- Front lens diameter: 166 mm (6.5 in) (with lens hood)
- Length to bayonet flange: with lens hood, in transport setting: 365 mm (14.4 in) without lens hood: 350 mm (13.8 in)
- Weight: 5.50 kg (with lens hood)

APO-TELYT-R f/2.8/400 mm

with lens hood, lens cap and rear cover, filter drawer, series filter 5.5 ND x 1, with carrying strap and case

(Lens hood, lens cap and rear cover, filter turret, series filter 5.5 ND x 1, carrying strap and case as replacement, as well as accessories, see page 2-42 - 44)

Order No. 11 260

(all modes)
with protective covers

APO-EXTENDER-R 1,4 x

Order No. 11 249

(with aperture priority and manual modes)
with protective covers

APO-EXTENDER-R 2 x

Order No. 11 262

LEICA R lenses

TELYT-R

f/6.8/400 mm

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



Follow-focus lens of long focal length

- Angle of view: 6°
- Number of elements: 2 (1 component)
- Filter size: Series 7 (in filter slot)
- Internal thread: M 72 x 0.75
- Aperture setting ring with clickstops (including half values between f/8 and f/16)
- Smallest aperture: f/32
- Focusing range: ∞ to 3.60 m (12 ft)
- From Serial No. 3 066 826 can be focused beyond ∞
- Follow-focus device (adjustable front part of lens with parallel guide, push-button to release the focusing mechanism)
- Smallest object field: 158 x 236 mm (6.2 x 9.3 in) (about 1 : 6.5)
- Built-in, telescopic lens hood
- Rotatable swivelling device for upright and horizontal format with clickstops
- Lens can be dismantled for convenient transport
- LEICA R quick change bayonet
- Slot with cover for Series 7 filters
- Black anodized finish
- Tripod thread: A 1/4 and A 3/8, DIN 4503 (1/4 + 3/8 in)
- Universal handgrip with shoulder stock, detachable, can be used as mini tripod
- Leather case
- Lens cap diameter: 89 mm (3.7 in)
- Length from bayonet flange: 384 mm (15.1 in)
- Diameter: 89 mm (3.7 in)
- Weight: 1.830 kg (complete)

TELYT-R

f/6.8/400 mm,
complete, with lens covers

(Replacement lens covers and accessories see page 2-42 to 44)

Order No. **11 953**

consisting of

Lens unit

Order No. **11 903**

Lens tube

Order No. **11 906**

Universal handgrip with shoulder stock

Order No. **14 239**

Leather case

Order No. **14 582**

Accessories

Extension tube

(60 mm) for the TELYT-R f/6.8/400 mm lens also suitable for the TELYT-R f/6.8/560 mm) to extend the operating range (near focusing).

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

Electric cable release

for insertion in the universal handgrip for LEICA R

models with MOTOR-WINDER R/MOTOR-DRIVE R.

Order No. **14 237**

TELYT-R f/6.8/400 mm with NOVOFLEX Rapid Follow- Focus Grip

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

Photography

2



Lens of long focal length.
Focusing mechanism with
rapid follow-focus grip and
integrated close-focusing
tube.

- Angle of view: 6°
- Number of elements: 2
(1 component)
- Filter slot for special
Novoflex and Heliopan
filters
- Aperture setting ring with
clickstops
- Smallest aperture: f/32
- Focusing range: with
rapid follow-focus grip
approx. 7.5 m (25 ft) – ∞
with near-focusing tube
approx. 2.40 m (7.9 ft)
- Smallest object fields:
with rapid follow-focus
grip 377 x 566 mm
(14.8 x 22.3 in) reproduc-
tion scale approx. 1:16
with close-focusing tube
90 x 135 mm (3.5 x 5.3 in)
reproduction scale approx.
1:3.8
- Built-in telescopic lens
hood
- Rotatable swivelling
device for upright and
horizontal format, with
clickstops
- LEICA R quick-change
bayonet
- Black anodized finish
- Tripod thread A 1/4",
DIN 4503 (1/4")
- Universal stock, adaptable
as chest- or shoulder
stock, detachable
- Lens cap diameter: 89 mm
(3.5 in)
- Length to bayonet flange:
406 mm (16 in)
- Height with rapid follow-
focus grip: 200 mm (7.9 in)
- Weight: 2.930 kg
(complete)

TELYT-R f/6.8/400 mm with NOVOFLEX Rapid Follow-Focus Grip

Order No. 11 926 _____

consisting of:
TELYT-R f/6.8/400 mm
lens unit
complete with lens hood,
lens cap and rear cover,
universal stock, carrying
strap and cable release
(Replacement lens covers and
accessories see page 2-42 to 44)

TELYT-R f/6.8/400 mm lens unit

Order No. 11 970 _____

Accessories

Order No. 14 589 _____

Order No. 14 085 _____

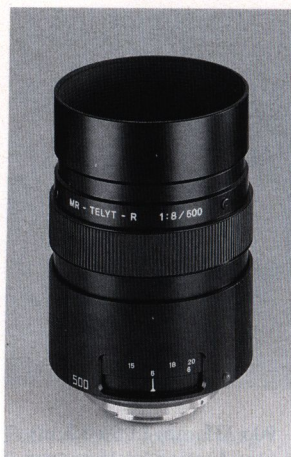
Leather sheath

Electric cable release
for LEICA R models with
motorized film advance

MR-TELYT-R

f/8/500 mm

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



Catadioptric telephoto lens
(reflecting-lens construction)

- Angle of view: 5°
- Number of elements: 5; 2 of them back mirror coated, with one special filter
- Filter size on the front ring of the lens: E 77
- Internal thread: M 77 x 0.75
- Combined meter/feet scale
- Focusing range: ∞ to 4 m (13 ft 4 in)
- Can be focused beyond ∞
- Smallest object field: 180 x 270 mm (7.1 x 10.6 in) (about 1:7,5)
- Covered helical focusing mount for hand support
- Rubber-armoured focusing ring
- LEICA R quick change bayonet
- Black anodized finish
- Screw-in lens hood
- Four further special screw-in filters M 32 x 0.5: UVa, neutral density 4x, yellow, orange (to be screwed into the rear mount of the lens)
- Leather case
- Lens cap diameter: 83.5 mm (3.3 in)
- Length from bayonet flange: 121 mm (4.8 in)
- Diameter: 87 mm (3.4 in)
- Weight: 0.750 kg

MR-TELYT-R f/8/500 mm

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

(Replacement lens cap, rear cover, special filters, leather case see page 2-42 to 44)

Order No. **11243** _____



Lens of long focal length. Focusing mechanism with rapid follow-focus grip and integrated close-focusing tube.

- Angle of view: 4.3°
- Number of elements: 2 (1 component)
- Filter slot for special Novoflex and Heliopan filters
- Aperture setting ring with clickstops
- Smallest aperture: f/32
- Focusing range: with rapid follow-focus grip approx. 13 m (43 ft) – ∞ with close-focusing tube approx. 4.15 m (13.6 ft)
- Smallest object fields: with rapid follow-focus grip 512 x 768 mm (20.3 x 30.2 inches) with close-focusing tube

124 x 187 mm (4.9 x 7.4 inches) reproduction scale approx. 1:5.2

- Built-in telescopic lens hood
- Rotatable swivelling device for upright and horizontal format, with clickstops
- LEICA R quick-change bayonet
- Black anodized finish
- Tripod thread A 1/4, DIN 4503 (1/4")
- Universal stock, adaptable as chest- or shoulder stock, detachable
- Lens cap diameter: 98 mm (3.9 in)
- Length to bayonet flange: 534 mm (2.1 in)
- Height with rapid follow-focus grip: 205 mm (8 in)
- Weight: 3.2 kg (complete)

Leather sheath

Electric cable release for LEICA R models with motorized film advance

TELYT-R f/6.8/560 mm with NOVOFLEX Rapid Follow- Focus Grip

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

TELYT-R f/6.8/560 mm with NOVOFLEX Rapid Follow-Focus Grip

Order No. 11 927 _____

consisting of:
TELYT-R f/6.8/560 mm
lens unit
complete with lens cap
and rear cover, universal
stock, carrying strap and
cable release

(Replacement lens covers and
accessories see page 2-42 to 44)

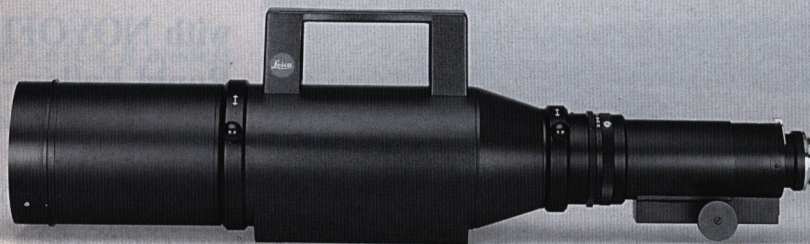
TELYT-R f/6.8/560 mm lens unit

Order No. 11 971 _____

Accessories

Order No. 14 589 _____

Other No. 14 085 _____



TELYT-S f/6.3/800 mm

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

Extreme telephoto lens with Leica special glasses for maximum optical performance

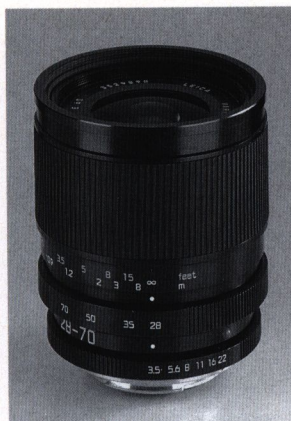
- Angle of view: 3°
- Number of elements: 3
- Filter size: Series 7 (in filter slot)
- Aperture setting ring with clickstops (including half values between f/6.3 and 22)
- Aperture preselection
- Smallest aperture: f/32
- Focusing range: ∞ to 12.50 m (41 ft)
- Smallest object field: 320 x 480 mm (1 ft 0.6 in – 1 ft 7 in) (about 1:13)
- Rapid focusing by means of an easy-grip rotary knob and parallel guide
- Lens can be dismantled into 5 parts for transport in a special metal case
- Assembly and dismantling by means of bayonet and marked locking rings with lever
- Sturdy carrying handle for assembled lens

- Lining-up device in the shape of a sports finder with rear and front sight and field-of-view orientating device for upright and horizontal format, protected against damage by integration with the carrying handle
- Detachable and lockable lens hood
- Slot with cover for Series 7 filters
- Tripod thread A ¼ and A ⅜, DIN 4503, (¼ and ⅜ in) for sturdy tripods
- Support ring, rotatable with tripod thread A ¼ DIN 4503 (¼ in) for additional monopod
- Black anodized finish
- LEICA R quick change bayonet
- Rotatable swivelling device for upright and horizontal format with clickstops
- Lens cap diameter: 152 mm (6 in)
- Length from bayonet flange: 790 mm (31 in)
- Diameter: 152 mm (6 in)
- Weight: 6.860 kg

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

Order No. 11 921 _____

- Angular field: 76° to 34°
- Number of elements: 11 (8 components)
- Filter size: E 60
- Inside 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: ∞ to 0.5 m
- Smallest object field: 28 mm focal length: 336 mm x 504 mm (13.2 x 19.8 in) (image scale about 1:14) 70 mm focal length: 144 mm x 216 mm (5.7 x 8.5 in) (image scale about 1:6)
- Separate setting ring for focal length
- LEICA R quick-change bayonet
- Black anodized finish
- Lens hood: built-in, telescopic
- Lens-cap diameter: 74.5 mm (2.9 in)
- Length to bayonet flange: 84 mm (3.3 in)
- Diameter: 74.8 mm (2.9 in)
- Weight: 0.465 kg



Lens of variable focal length

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

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

Photography

2

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

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

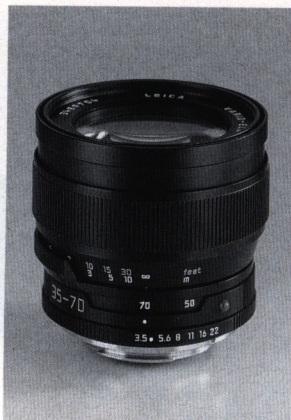
(Replacement soft leather case,
lens cap, rear cover and
accessories: see page 2-42 to 44)

Order No. **11 265** _____

VARIO-ELMAR-R

f/3.5/35-70 mm

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



Lens of variable focal length

- Angle of view: 64° - 35°
- Number of elements: 8 (7 components)
- Filter size: E 67
- Internal thread: M 67 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values)
- Smallest aperture: 22
- Combined meter / feet scale
- Focusing range: ∞ - 1 m
- Smallest object field:
 - 35 mm focal length: 632 x 947 mm (24.9 x 37.3 in) (about 1:26)
 - 70 mm focal length: 338 x 507 mm (13.3 x 20 in) (about 1:14)
- Parallel guided focusing mount
- LEICA R quick change bayonet
- Lens anodized in black
- Lens hood: built-in, telescopic
- Front lens diameter: 75 mm (3 in)
- Length to bayonet flange: 66.5 mm (2.6 in)
- Maximum diameter: 76.5 mm (3 in)
- Weight: 0.450 kg

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

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

(Replacement soft leather case, lens cap, rear cover and accessories: see page 2-45)

Order No. **11 248**

- Angle of view: 35° – 12°
- Number of elements: 12 (9 components)
- Filter size: E 60
- Internal thread: M 60 x 0.75
- Fully automatic spring-back diaphragm
- Aperture setting ring with clickstops (including half values except between f/4 and f/5.6)
- Smallest aperture: f/22
- Combined meter/feet scale
- Focusing range: ∞ to 1.10 m
- Smallest object field:
70 mm length: 264 x 396 mm (10.4 x 15.6 in) (about 1:11)
210 mm length: 96 x 144 mm (3.8 x 5.7 in) (about 1:4)
- Rubber-armoured focusing mount for focusing and zooming
- LEICA R quick change bayonet
- Black anodized finish
- Built-in, telescopic lens hood
- Lens cap diameter: 73.5 mm (3 in)
- Length from bayonet flange: 157 mm (6.2 in)
- Diameter: 73.5 mm (3 in)
- Weight: 0.720 kg



Zoom lens



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

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

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

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

(Replacement soft leather case,
lens cap, rear cover and
accessories see page 2-42 to 44)

Order No. 11 246 _____

APO-EXTENDER-R 1.4x for LEICA R models (all modes)

APO-EXTENDER-R 1.4x

In a soft leather case,
with protective covers

Order No. **11 249**

Replacement soft leather
case:

Order No. **14 792**

Replacement covers:

Rear cover
(lens rear cover)

Order No. **14 162**

Front cover

Order No. **14 252**



Focal length extending lens
attachment

- Focal length extension:
1.4x
- For LEICA R lens
compatibility:
see table page 2-40
- Aperture reduction:
1 f-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 2x for LEICA R models (preferably with aperture priority and manual)

APO-EXTENDER-R 2x

In a soft leather case,
with protective covers

Order No. **11 262**

Replacement soft leather
case:

Order No. **14 793**

Replacement covers:

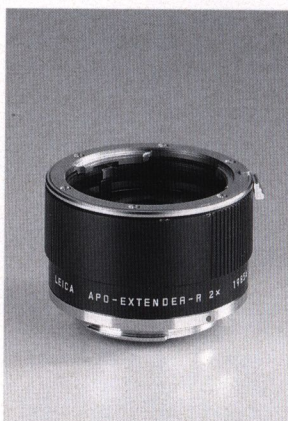
Rear cover
(lens rear cover)

Order No. **14 162**

Front cover

(camera body cover)

Order No. **14 103**



Focal length extending lens
attachment

- Focal length extension:
2x
- For LEICA R lens com-
patibility see table on
page 2-40
- Aperture reduction:
2 f-stops
- Number of elements: 7
(5 components)
- Aperture range: from f/2
- Fully automatic spring-
back diaphragm for aper-
ture 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
- Black anodized finish
- Length from bayonet
flange: 35.4 mm (1.4 in)
- Widest diameter: 62 mm
(2.4 in)
- Weight: 0.245 kg

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

Compatible LEICA R lenses	With APO- EXTENDER-R 2 x	With APO- EXTENDER-R 1.4 x
f/2/50 mm	f/4/100 mm	-
f/2.8/60 mm	f/5.6/120 mm	-
f/2/90 mm	f/4/180 mm	-
f/2.8/90 mm	f/5.6/180 mm	-
f/4/100 mm	f/8/200 mm	f/5.6/140 mm
f/2.8/100 mm APO	f/5.6/200 mm APO	-
f/2.8/135 mm	f/5.6/270 mm	-
f/2/180 mm APO	f/4/360 mm APO	f/2.8/250 mm APO *)
f/2.8/180 mm	f/5.6/360 mm	f/4/250 mm
f/3.4/180 mm APO	f/6.8/360 mm APO	-
f/4/180 mm	f/8/360 mm	-
f/4/250 mm	f/8/500 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/4.8/350 mm	f/9.6/700 mm	-
f/2.8/400 mm APO	f/5.6/800 mm APO	f/4/560 mm APO
f/8/500 mm	f/16/1000 mm	-
f/6.3/800 mm	f/12.6/1600 mm	f/8.8/1120 mm
f/3.5/35-70 mm	f/7/70-140 mm	-

*) Since the APO-Extender-R 1.4 x is constructed for lenses from speed 1:2,8, the SUMMICRON-R 1:2/180 mm must be stopped down 1-2 steps.

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**

Nappa leather case
(replacement)

Order No. **14 797**

Lens tube cover
(replacement)

Order No. **14 103**

Eyepiece protective cover
(replacement)

Order No. **14 678**

R-lens accessory for
observation

- Number of elements: 3
(2 components)
- Ocular focal length:
12.5 mm
- Ocular magnification: 20 x
- Roof prism system:
Schmidt-Pechan
- Diopter correction:
 ± 3 diopters
- Exit pupil diameter:
dependent on the set lens
aperture and the limita-
tion of the prism system:
maximum diameter
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 rub-
ber eyecups folded down)
- Diameter: 62 mm (2.4 in)
- Weight: 0.136 kg (approx.
4.8 oz.)
- Lens table on page 2-41

LEICA R lenses

Accessories

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

Photography

2

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
SUMMICRON-R f/2/90 mm ELMARIT-R f/2.8/90 mm	7.2 x 27	3.8	14	133 m
APO-MACRO-ELMARIT-R f/2.8/100 mm	8 x 30	3.8	15.5	120 m
MACRO-ELMAR-R f/4/100 mm	8 x 25	3.1	14	120 m
ELMARIT-R f/2.8/135 mm	11 x 41	3.8	21	89 m
APO-SUMMICRON-R f/2/180 mm ELMARIT-R f/2.8/180 mm APO-TELYT-R f/3.4/180 mm	14.5 x 55	3.8	28	67 m
ELMAR-R f/4/180 mm	14.5 x 45	3.1	25.5	67 m
APO-TELYT-R f/2.8/280 mm	22.5 x 85	3.8	44	43 m
APO-TELYT-R f/4/280 mm	22.5 x 70	3.1	40	43 m
APO-TELYT-R f/2.8/400 mm	32 x 120	3.8	62	30 m
TELYT-R f/6.8/400 mm	32 x 59	1.8	43	30 m
MR-TELYT-R f/8/500 mm	40 x 63	1.6	50	24 m
TELYT-R f/6.8/560 mm	45 x 82	1.8	61	21 m
TELYT-S f/6.3/800 mm	64 x 127	2.0	90	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/3.5-4.5/35-70 mm	2.8 x 10 - 5.6 x 20	3.6	5.3 - 10.6	343 - 171 m
VARIO-ELMAR-R f/3.5-4.5/70-210 mm	5.6 x 17.5 - 17 x 52.5	3.1	10 - 30	171 - 57 m

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

All values rounded-off.

Leica R-lens	Order-no.	A Ø in mm	Lenshood ¹⁰⁾ „-“ = built-in	Lenshood cover ¹⁰⁾	Front lens cover ¹⁰⁾	Filter size ¹⁾
3.5/15	11213	83.5	-	-	14 294	-
2.8/16	11222	65	-	-	14 089	-
2.8/19	11258	68	12 546	14 302	14 301	-
2.8/24	11257	63.7	12 523	-	14 290	Series 8
2.8/28 form no. 3 664 831	11259	67.5	-	-	14 289	E 55
PC 2.8/28	11812	70	12 540	-	14 232	67 EW ⁸⁾
1.4/35	11144	75	-	-	14 291	E 67
2/35 from no. 2 791 417	11115	63	-	-	14 289	E 55
2.8/35 from no. 2 928 901	11251	63	-	-	14 289	E 55
PA 4/35	11202	63.7	12 514	-	14 290	Series 8
1.4/50 from no. 2 806 501	11777	63	-	-	14 289	E 55
2/50 from no. 2 777 651	11216	63	-	-	14 289	E 55
2.8/60 from no. 3 013 651	11253	63	-	-	14 289	E 55
1.4/80	11881	75	-	-	14 291	E 67
2/90 from no. 3 381 677	11254	67	-	-	14 289	E 55
2.8/90 from no. 3 260 101	11154	63	-	-	14 289	E 55
2.8/100	11210	68	-	-	14 290	E 60
4/100 for R BR2	11270	65	-	-	14 289	E 55
2.8/135 from no. 2 772 619	11211	65	-	-	14 289	E 55
2/180	11271	116	-	-	14 298	S 6 + E 100
2.8/180 from no. 2 939 701	11923	75	-	-	14 291	E 67
3.4/180 from no. 2 947 024	11242	66	-	-	14 290	E 60
4/180	11922	65	-	-	14 289	E 55
2.8/280	11263	125	-	-	14 012	S 5.5 + E 112
4/280	11261	90	-	-	14 319	S 5.5 + E 77
2.8/400	11260	166	12 545	14 086	-	Series 5.5
6.8/400	11953	89	-	-	14 152 ⁴⁾	Series 7 ⁵⁾
6.8/400 (NOVOFLEX system)	11926	89	-	-	14 670	Series 8.5 ⁹⁾
8/500	11243	83.5	-	-	14 294	E 77 ⁶⁾
6.8/560 (NOVOFLEX system)	11927	98	-	-	14 295	Series 8.5 ⁹⁾
6.3/800	11921	152	-	-	7)	Series 7
3.5-4.5/28-70	11265	74.5	-	-	14 233	E 60
3.5/35-70 from no. 3 393 301	11248	75	-	-	14 291	E 67
4/70-210	11246	73.5	-	-	14 290	E 60

¹⁾ Filter see chart on page 2-44

²⁾ 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

⁴⁾ The rear cover for the lens head no. 028-861.017 and the front cover for the lens tube no. 028-861.049 can be obtained from the customer service of Leica Camera GmbH.

⁵⁾ or series 8 with adapter 14 165

(D)rawer/ (A)apter ²⁾ for series filter (L)enshood serves as adapter	ELPRO ³⁾ near focusing attachments	Leather cases: SLC = soft leather case ¹⁰⁾ LCA = leather case ¹⁰⁾ LCO = leather cover CAS = case ¹⁰⁾	Carrying straps ¹⁰⁾	A Ø in mm	Order- No.	LEICA R-Lens
-	-	SLC, 14 725	-	83.5	11 213	3.5/15
-	-	SLC, 14 727	-	65	11 222	2.8/16
-	-	SLC, 14 729	-	68	11 258	2.8/19
(L)	-	SLC, 14 733	-	63.7	11 257	2.8/24
-	-	SLC, 14 736	-	67.5	11 259	2.8/28 from no. 3 664 831
-	-	SLC, 14 738	-	70	11 812	PC 2.8/28
(A) 14 264 S8	-	SLC, 14 740	-	75	11 144	1.4/35
(A) 14 225 S7	-	SLC, 14 742	-	63	11 115	2/35 from no. 2 791 417
(A) 14 225 S7	-	SLC, 14 744	-	63	11 251	2.8/35 from no. 2 928 901
(L)	-	SLC, (upon request)	-	63.7	11 202	PA 4/35
(A) 14 225 S7	-	SCL, 14 747	-	63	11 777	1.4/50 from no. 2 806 501
(A) 14 225 S7	16 541/-42	SLC, 14 749	-	63	11 216	2/50 from no. 2 777 651
(A) 14 225 S7	-	SLC, 14 751	-	63	11 253	2.8/60 from no. 3 013 651
(A) 14 264 S8	-	SLC, 14 753	-	75	11 881	1.4/80
(A) 14 225 S7	16 543	SLC, 14 755	-	67	11 254	2/90 from no. 3 381 677
(A) 14 225 S7	16 543	SLC, 14 756	-	63	11 154	2.8/90 from no. 3 260 101
(A) 14 263 S7.5	16 545	SLC, 14 758	-	68	11 210	2.8/100
(A) 14 225 S7	-	SLC, 14 756	-	65	11 270	4/100 for R BR2
(A) 14 225 S7	15 543/-44	SLC, 14 762	-	65	11 211	2.8/135 from no. 2 772 619
(S) 14 592 S6	-	LCA, 14 594	14 312	116	11 271	2/180
(A) 14 264 S8	-	SLC, 14 764	-	75	11 923	2.8/180 from no. 2 939 701
(A) 14 263 S7.5	-	SLC, 14 766	-	66	11 242	3.4/180 from no. 2 947 024
(A) 14 225 S7	-	SLC, 14 768	-	65	11 922	4/180
(S) 14 591 S5.5	-	CAS, 14 595	14 312	125	11 263	2.8/280
(S) 14 591 S5.5	-	LCA, 14 597	-	90	11 261	4/280
(S) 14 591 S5.5	-	CAS, 14 584	14 311 ¹¹⁾	166	11 260	2.8/400
(S), built-in	-	LCO, 14 582	-	89	11 953	6.8/400
-	-	LCO, 14 589	-	89	11 926	6.8/400 (NOVOFLEX system)
(L)	-	LCA, 14 559	-	83.5	11 243	8/500
-	-	LCO, 14 589	-	98	11 927	6.8/560 (NOVOFLEX system)
(S), built-in	-	CAS (upon request)	-	152	11 921	6.3/800
(A) 14 263 S7.5	-	SLC, 14 780	-	74.5	11 265	3.5-4.5/28-70
(A) 14 264 S8	-	SLC, 14 783	-	75	11 248	3.5/35-70 from no. 3 393 301
(A) 14 263 S7.5	-	SLC, 14 786	-	73.5	11 246	4/70-210

⁵⁾ 5 special filters M 32 x 0,5 are included in the package (can be screwed into the rear lens mount)

⁷⁾ Available from the customer service of Leica Camera GmbH

⁸⁾ Filter glass Ø 74 mm for special wide-angle holder with diaphragm and pol.filter 67 EW; available from B + W.

⁹⁾ Built-in filter drawer for filters from the companies NOVOFLEX and HELIOPLAN

¹⁰⁾ Replacement

¹¹⁾ Replacement, suitable for both the lens and the case

LEICA R lenses

Accessories

Tripod Adapter



STA 1 for R f/2.8/100 mm
for an optimal, secure
mount of a long telephoto
lens on a tripod

Order No. **14 636** _____

Pistol Stock *

Order No. **14 632** _____

for APO-TELYT-R
f/2.8/280 mm

Lens covers *

Order No. **14 162** _____

Order No. **14 671** _____

Order No. **14 672** _____

Rear cover

Rear cover

for lens heads: f/6.8/400 mm

Lens tube cover

for LEICA R lenses

and 6.8/560 mm

(NOVOFLEX system)

for Rapid-Follow Focus

Grip (NOVOFLEX system)

* replacement

Filters /

Filter adaptation

Screw-in filters	UVa	Circular polarizing	Yellow	Yellow-green	Orange	ND x1	Neutral grey 4x
E 32 ¹⁾	13 400	-	13 403	-	13 402	-	13 405
E 55	13 373	13 335	-	13 391	13 312	-	-
E 55	13 373	13 335	-	13 391	13 312	-	-
E 60	13 381	13 406	-	13 392	13 383	-	-
E 67	13 386	13 407	-	13 393	13 388	-	-
E 77	13 337	13 336	-	13 333	-	-	-
E 112	-	-	-	-	-	13 003	-
Series filters ²⁾	UVa	Circular polarizing	Yellow	Yellow-green	Orange	ND x1	Filter (d)rawer / (a)dapter
5,5	-	13 338 ³⁾	-	-	-	13 026 ⁴⁾	(s)14 591 ⁴⁾
6	13 012	13 340 ³⁾	13 013	13 014	13 011	13 028 ⁴⁾	(s)14 592 ⁴⁾
7	13 007	13 370	-	13 007	13 008	-	(a)14 225
7,5	-	-	-	-	-	-	(a)14 263
8	13 018	13 372	-	13 021	13 017	-	(a)14 264
8,5	-	-	-	-	-	-	-

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

²⁾ Filter attachment
see page 2-43

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

⁴⁾ Replacement

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
Ring combination for the close-focus range	3- 6
Focusing Bellows-R BR 2	3- 7
100 mm MACRO-ELMAR f/4	3- 8
PHOTAR lenses for the Focusing Bellows-R BR 2	3- 8
R-lenses on the Focusing Bellows-R BR 2	3- 9
Angle viewfinder	3-10

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

for LEICA R lenses

Thread measurements

External thread for screwing
the ELPRO on the lens:

in ELPRO 1 and 2:

M 55 x 0.75 and M 44 x 0.75

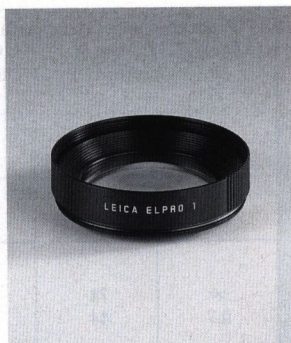
in ELPRO 3 and 4:

M 55 x 0.75

Internal thread for mounting
filters and attachments

in ELPRO 1, 2, 3 and 4:

M 55 x 0.75



ELPRO close-focus attachments (achromatic)

Order No.

ELPRO 1 16 541 _____

ELPRO 2 16 542 _____

ELPRO 3 16 543 _____

ELPRO 4 16 544 _____

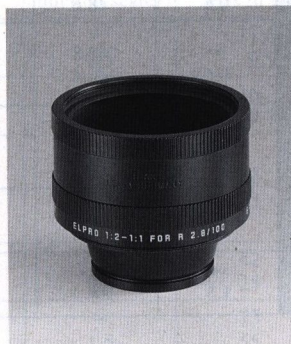
Leather case

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 (spare)

Order No. 12 528 _____

Front cover (spare)

Order No. 14 290 _____

Rear cover (spare)

Order No. 14 251 _____

Soft leather case (spare)

Order No. 14 799 _____

Close-Focus Equipment for the LEICA R System

3

Photography

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
SUMMICRON-R f/2/90 mm from Serial No. 2 770 951 ¹⁾ (E 55)	3 16 543	∞ 0.7	74 44	61 30	161 x 241 72 x 108	1 : 6.7 1 : 3.0
ELMARIT-R f/2.8/90 mm from Serial No. 2 809 001 ¹⁾ (E 55)	3 16 543	∞ 0.7	74 44	61 30	161 x 241 72 x 108	1 : 6.7 1 : 3.0
MACRO- ELMAR-R f/4/100 mm (E 55)	3 16 543	∞ 0.6	75.5 41.6	61 24	145 x 218 48 x 72	1 : 6 1 : 2
	+ MACRO- ADAPTER-R 14 256	∞ 0.6	42 37.4	24 17	49 x 73 29 x 44	1 : 2 1 : 1.2
	4 16 544	∞ 0.6	150.5 48.6	136 31	323 x 484 61 x 92	1 : 13 1 : 2.5
	+ MACRO- ADAPTER-R 14 256	∞ 0.6	48.8 40.4	31 20	63 x 94 34 x 51	1 : 2.6 1 : 1.4
APO-MACRO- ELMARIT-R f/2.8/100 mm	16 545	∞ 1 : 2	35.4 30.5	16 10	49 x 73 22 x 33	1 : 2 1.1 : 1
ELMARIT-R f/2.8/135 mm from Serial No. 2 772 619 ¹⁾ (E 55)	3 16 543	∞ 1.5	76 58	61 42	107 x 160 66 x 99	1 : 4.5 1 : 2.8
	4 16 544	∞ 1.5	150 84	135 68	237 x 355 106 x 159	1 : 9.9 1 : 4.4

All values rounded off.

¹⁾ ELPRO near-focusing attachments
for earlier LEICA R lenses see
page 11-9.

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

For LEICA R lenses with fully automatic spring-back diaphragm transfer for aperture priority and manual setting of shutter speed and aperture.

- Length from bayonet flange: 30 mm (1.7 in)
- Diameter: 62 mm (2.4 in)
- Weight: 0.130 kg



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

MACRO-ADAPTER-R

Order No. 14 256 _____

Covers for the
Macro-Adapter-R:
Front cover
(= camera body cover)

Order No. 14 103 _____

Rear cover
(= rear lens cover)

Order No. 14 162 _____

Photography

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
SUMMICRON-R f/2/90 mm ELMARIT-R f/2.8/90 mm	∞ 0.7	32 23	1: 3 1: 2	72 x 108 48 x 72
MACRO-ELMAR-R f/4/100 mm	∞ 0.6	42 25	1: 3.3 1: 1.6	80 x 120 39 x 59
ELMARIT-R f/2.8/135 mm	∞ 1.5	75 55	1: 4.5 1: 3	108 x 162 72 x 108
ELMARIT-R f/2.8/180 mm	∞ 1.8	124 78.4	1: 6 1: 3.4	144 x 216 82 x 123
APO-TELYT-R f/3.4/180 mm	∞ 2.5	133 95.6	1: 6 1: 3.9	144 x 216 95 x 142
TELYT-R f/4/250 mm	∞ 1.7	256 99.1	1: 8.4 1: 2.9	202 x 303 70 x 105
TELYT-R f/4.8/350 mm	∞ 3.0	477 178	1: 11.6 1: 4.1	278 x 417 97 x 146

All values rounded off.

Close-Focus Equipment for the LEICA R System Ring Combination for the Close- Focus Range

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



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

- 1) Earlier models without R-control-
cam on bayonet inside can be
modified by Leica Camera's Ser-
vice Center.
2) Ring combination:
2 = 2-part
(height 25 mm or 1 in, 14158)
3 = 3-part
(height 50 mm or 2 in, 14159)

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

All values rounded off.

Ring combination for the close-focus range

Two-part ring
(height 25 mm or 1 in)

Order No. **14158**

Centre ring

(height 25 mm or 1 in)
to increase the reproduc-
tion scale

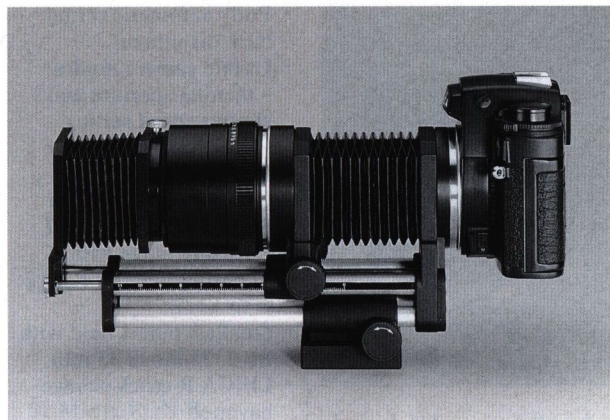
Order No. **14135**

Combination complete,
weight: 0.175 kg

Order No. **14159**

Twin cable release

Order No. **16494**



Close-Focus Equipment for the LEICA R System Focusing Bellows-R BR2

*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 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 exten-
sion: 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 1/4 and
A 3/8 (DIN 4503, 1/4" and
3/8")
- Weight: 570 g (without
compendium)
650 g (with compendium)

Focusing Bellows-R BR2

with compendium,
compendium connecting
ring, front and rear caps

Order No. **16 880**

Special **MACRO-ELMAR**
f/4/100 mm for focusing
distances from ∞ to a
reproduction ratio of
1.1:1 (see page 3-8)

Order No. **11 270**

Universal Handgrip with
shoulder stock for hand-
held photography with
the Focusing Bellows-R
BR2 (see page 1-12)

Order No. **14 239**

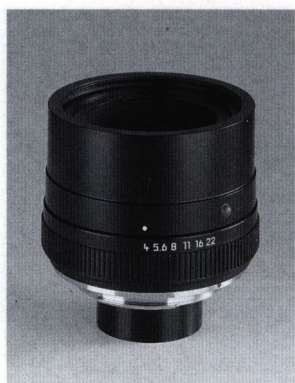
Close-Focus Equipment for the LEICA R System MACRO- ELMAR f/4/100 mm

**MACRO-ELMAR
f/4/100 mm**
in a soft leather case, with
lens cap and rear cover
Order No. 11 270 _____

Lens cap (spare)
Order No. 14 289 _____

Rear cover (spare)
Order No. 14 318 _____

Soft leather case (spare)
Order No. 14 289 _____



Lens for use on the
Focusing Bellows-R BR 2

- Angle of view: 25°
(at ∞ setting)
- Number of elements: 4
(3 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75

- Fully automatic spring
back diaphragm
- Usable camera modes:
– manual aperture and
shutter speed setting
– aperture priority
- Aperture clickstops
(including half values)
- Smallest aperture: f/22
- Focusing range with
Focusing Bellows-R BR 2:
∞ to 1.1 : 1
- Smallest object field with
BR 2: 22 mm x 33 mm
- LEICA R quick change
bayonet
- Black anodized finish
- Lens hood: built-in
- Front lens diameter:
63 mm
- Diameter: 66 mm
- Length from bayonet
flange: 48.5 mm
- Weight: 0.290 kg

PHOTAR Lenses for 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 _____



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

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
SUMMICRON-R f/2/90 mm ELMARIT-R f/2.8/90 mm	1:1.7 - 2:1	21 - 10	41 x 61 - 12 x 18
MACRO-ELMAR f/4/100 mm (lens head)	1:∞ - 1.1:1	∞ - 15	∞ - 22 x 33
ELMARIT-R f/2.8/135 mm	1:2.6 - 1.3:1	48 - 23	62 x 94 - 18 x 28
ELMARIT-R f/2.8/180 mm	1:3.4 - 1:1	77 - 33	82 x 122 - 24 x 36
APO-TELYT-R f/3.4/180 mm	1:3.4 - 1:1	86 - 43	82 x 122 - 24 x 36

All values rounded off.

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

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

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



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

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

Order No. **14300**
(see also page 1-6)

LEICA M Models

Product Range

LEICA M6 4- 3

Accessories for LEICA M models 4- 4

LEICA winder M

Correction lenses

Cases

Table-top tripod

Ball-and-socket head

Other accessories

Specifications and Technical Data

LEICA M6 4- 8

LEICA winder M 4-11

LEICA M 6

*35 mm rangefinder
system camera*



Selective exposure metering through the lens (TTL). Interchangeable lenses from 21 to 135 mm focal length. Rangefinder with bright-line frames for the focal lengths 28¹⁾ and 90 mm, 35 and 135 mm, 50 and 75 mm, split-image and coincident-image rangefinder.

Available as an accessory: The LEICA WINDER M motorized winding mechanism (LEICA WINDERS M4-P and M4-2 from Serial No. 10350 can also be used on the LEICA M6).

Detailed description on page 4-8.

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. 2314921.
SUMMICRON f/2/50 mm with close focusing device must be set to infinity when the lens is changed.

LEICA M 6

black chrome finish

complete with camera body cap, carrying strap and batteries²⁾

Order No. **10 404** _____

LEICA M 6

silver chrome finish

complete with camera body cap, carrying strap and batteries²⁾

Order No. **10 414** _____

LEICA M 6

titanium finish

complete with camera body cap, carrying strap and batteries²⁾

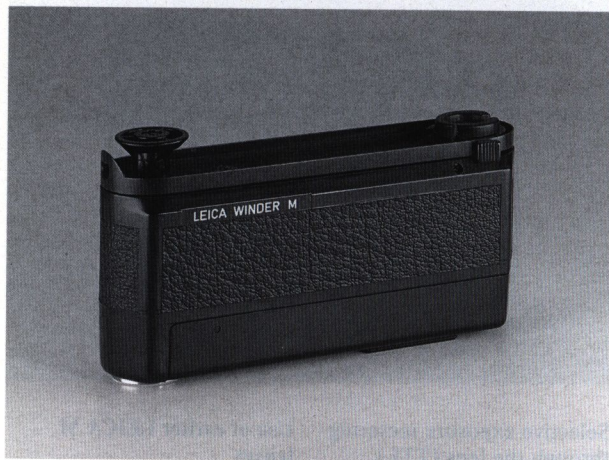
Order No. **10 412** _____

¹⁾ 28 mm lenses from Serial No. 2411001.

²⁾ 3 V (2 silver oxide button cells 1.5 V or 1 lithium cell 3 V, Ø 11.6 mm)

Accessories

**LEICA winder M
for LEICA M6,
LEICA M4-P,
LEICA M4-2,
LEICA MD-2**



LEICA winder M

Order No. 14 403 _____

**Housing for regular and
rechargeable batteries
(replacement)**

Order No. 14 402 _____

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

Detailed description see
page 4-11.

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.

Carrying straps

**Carrying strap
with anti-slip pad
(replacement)**

Order No. 14 312 _____

Neoprene carrying strap

Order No. 42 162 _____



Neoprene carrying strap

Accessories

Camera body cap
M-bayonet (replacement)

Camera body cap

Order No. **14 195** _____

Flash socket cover
for LEICA M models
(replacement)

Flash socket cover

Order No. **15 526** _____

Ever ready case
black leather for 21, 28, 35,
50 f/2 or 50 f/1.4 lenses

Ever ready case
for LEICA M6
(without
LEICA winder)



Order No. **14 505** _____

Small combination bag M
for LEICA M6 without
Winder and without Lens
Carrier-M (suitable for
all M models apart from
LEICA M5, without
LEICAMETER) to hold:
1 LEICA M6 with lens
attached, 1 LEICA M6
camera body, and up to
2 other lenses.

Small combination
bag M
(compact version)



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

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

Small combination bag M

black leather (cowhide)

Order No. **14 845** _____

Coupling ring
(replacement)

Order No. **14 838** _____

Accessories

Large combination bag M (standard version)



Large combination bag M for LEICA M6 with or without Winder and Lens Carrier-M (suitable for all M models apart from LEICA M5, without LEICAMETER) to hold: 1 LEICA M6 with or without Winder and 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

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

Large combination bag M

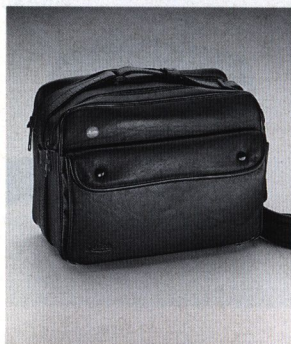
in black leather

Order No. 14 842 _____

Coupling ring (replacement)

Order No. 14 838 _____

Holdall M



Holdall M for LEICA M with or without winder and Lens Carrier-M (suitable for all M models apart from LEICA M5, with LEICAMETER) to hold: 1 LEICA M with or without winder and Lens Carrier-M or LEICAMETER attached, with lens attached, as well as up to 4 other lenses.

Holdall (external dimensions approx. 31 x 18 x 23 cm, 12 x 7 x 9 in) with

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

Holdall

in black leather (cowhide)

Order No. 14 827 _____

Coupling ring (replacement)

Order No. 14 838 _____

Accessories

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



Tabletop tripod

Order No. 14 100

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



Ball-and-socket head

Order No. 14 110

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



Lens carrier-M

Order No. 14 404

Cable releases
for all camera models with
conical thread

Cable releases

Cable release,
length 25 cm, (10 in.),
with arresting screw

Order No. 14 067

Cable release,
length 50 cm, (20 in.),
with arresting screw

Order No. 14 076

LEICA M 6



Type of camera:

35 mm rangefinder system camera. Selective exposure metering through the lens (TTL). Interchangeable lenses. Motorized rapid wind through attachable LEICA winder M or LEICA winder M4-P or LEICA winder M4-2 (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, silver chrome or titanium finish. Rangefinder. Stainless-steel carrying eyelets on both sides. Mechanical connection for motorized wind. Standard tripod thread A $\frac{1}{4}$ ($\frac{1}{4}$ in). Quick change bayonet for LEICA M lenses and accessories. Accessory hot-shoe with central contact. Field of view frame selector. For the LEICA M6 titanium version: camera top of 0.8 mm brass, housing covered with leather (Emu-print).

Lens system:

LEICA M lenses with quick change bayonet from 21 to 135 mm focal length. With VISOFLEX attachment (discontinued) from 65 to 800 mm.

Rangefinder:

- Bright high-contrast viewfinder image with bright-line frames for: 28 mm and 90 mm or 35 mm and 135 mm or 50 mm and 75 mm with automatic parallax compensation. When a lens is being inserted the associated image frame is automatically blended in¹⁾. With the aid of the field-of-view selector any required pair of frames can be preselected. The image field corresponds to that of the lens at a short focusing distance. Even spectacle wearers are able to survey the field of view fully. Correction lenses, of which ten are available

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

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 49.9 mm (measuring base 69.25 mm x 0.72 viewfinder magnification). This ensures quick, reliable focusing even in poor lighting conditions with all lenses of up to 135 mm focal length.
- Exposure meter display by light balance (two LEDs) at the bottom edge of the viewfinder image when the exposure meter is switched on.

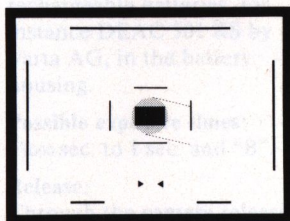
Exposure metering:

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.

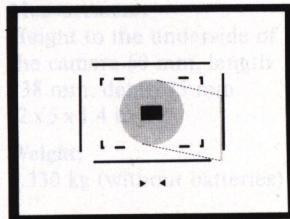
The metering field consists of a 12 mm Ø white patch in the center of the shutter curtain. The measurement takes place with shutter cocked.

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.:



135 mm



50 mm

Measuring range of exposure meter:

0.063 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 -1 to +20 exposure values at ISO 100/21° (ASA 100/21 DIN), corresponding to aperture/shutter speed combinations from f/1 2 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 (♣), 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.

LEICA M Models *Specifications and Technical Data*

Flash synchronisation:

Synchronisation for electronic flash (X contact) from "B" to $\frac{1}{50}$ sec. (Z).

Standard X contact as well as separate center contact (X) in the accessory shoe. Two flash units can be fired simultaneously through the two contacts.

Flash table see "Technical Information".

Film insertion:

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

Film transport:

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

Forward counting automatic film counter under a magnifier. Automatic reset to start (-2 frames) when the camera is 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: 77 mm, length: 138 mm, depth: 38 mm (3 x 5 x 1.5 in.)

Weight:

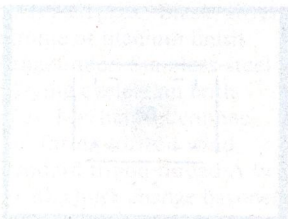
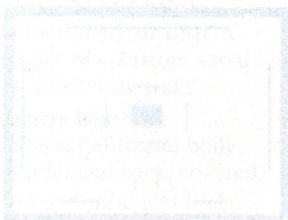
Camera body without lens:

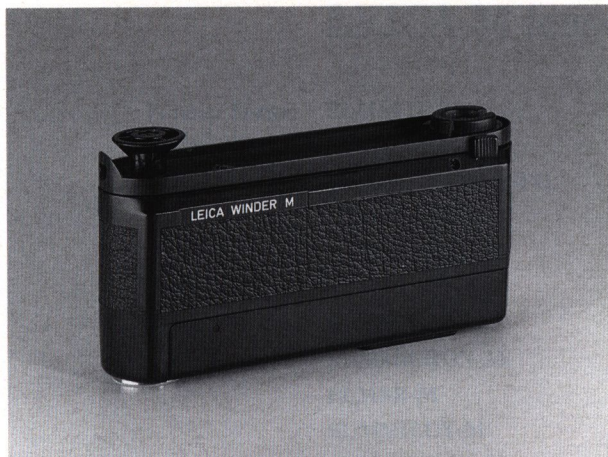
0.560 kg

Camera body with

SUMMICRON-M f/2.50 mm:

0.755 kg





LEICA WINDER M

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

Type of instrument: Winder

Compact, handy winder. Single-frame release through the camera release button. Series exposures are possible. Consecutive exposures with normal continual pressure on the release button. Frequency up to 3 fps. Extremely quiet gearing and motor action.

Body:

Sturdy, fibreglass-reinforced plastic body, easy-grip covered with textured PVC. Driven by DC micromotor with air-core rotor. The winder is attached to the camera in place of the baseplate. It is mechanically controlled exclusively by the camera.

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

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

Power supply through:

Four 1.5 v alkaline-manganese batteries in the battery housing. Capacity according to Leica test conditions: about 150 36-exposure films at 20°C or four NiCd rechargeable batteries, for instance DEAC 501 RS by Varta AG, in the battery housing.

Possible exposure times:

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

Release:

Through the camera release button.

Measurement:

Height to the underside of the camera 60 mm, length 138 mm, depth 35 mm. (2 x 5 x 1.4 in.)

Weight:

0.330 kg (without batteries)

LEICA M lenses

Product Range, Specifications and Technical Data

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

Accessories for M lenses

- Brilliant finders
- Lens hoods
- Screw-in and series filters

5-18

The Range of LEICA M lenses

Designation of lens	Speed	Focal length mm	Image angle (°)	Filter dia.	Order No.
ELMARIT-M	f/2.8	21	92	E 60	11 134
ELMARIT-M	f/2.8	28	76	E 46	11 809
SUMMILUX-M ASPH.	f/1.4	35	64	E 46	11 874
SUMMILUX-M	f/1.4	35	64	S 7	11 870/- 60 ¹⁾
SUMMICRON-M	f/2	35	64	E 39	11 310/- 11 ²⁾
NOCTILUX-M	f/1	50	45	E 60	11 822
SUMMILUX-M	f/1.4	50	45	E 46	11 868/- 69 ¹⁾
SUMMICRON-M	f/2	50	45	E 39	11 826/- 16 ²⁾
ELMAR-M	f/2.8	50	45	E 39	11 831/- 23 ²⁾
SUMMILUX-M	f/1.4	75	31	E 60	11 815
SUMMICRON-M	f/2	90	27	E 55	11 136/- 37 ²⁾
ELMARIT-M	f/2.8	90	27	E 46	11 807
ELMARIT-M	f/2.8	135	18	E 55	11 829
TELE-ELMAR-M	f/4	135	18	E 46	11 861

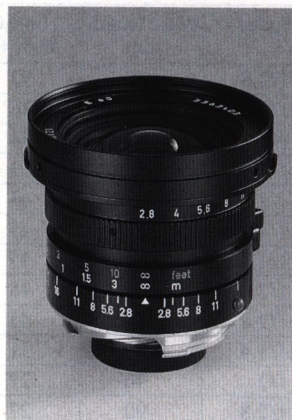
¹⁾ Second Order No.: titanium finish

²⁾ Second Order No.: silver chrome finish

LEICA M lenses

ELMARIT-M f/2.8/21 mm

*for all
LEICA M models*



- Angle of view: 92°
- Number of elements: 8 (6 components)
- Filter size: E 60
- Internal thread: M 60 x 0.75
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.70 m (28 in)
- Smallest object field: 705 x 1058 mm (28 x 42 in) (about 1:30)
- Parallel guided focusing mount
- Separate brilliant finder
- LEICA M quick change bayonet
- Black anodized finish
- Push-on lens hood
- Front lens diameter: 62 mm (2.4 in)
- Length from bayonet flange: 46.5 mm (1.8 in)
- Diameter: 62 mm (2.4 in)
- Weight: 0.290 kg



Lens of extremely wide angle

ELMARIT-M f/2.8/21 mm

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

Order No. 11 134 _____

Brilliant finder with case

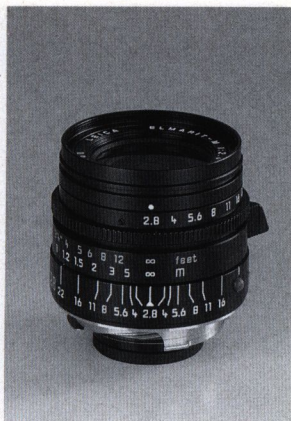
Order No. 12 008 _____

Replacement case

Order No. 14 628 _____

(Spare lens cap, rear cover, lens hood, soft leather case and accessories see page 5-18)

- 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 M6 and the
LEICA M4-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



Wide-angle lens

ELMARIT-M f/2.8/28 mm

*for all
LEICA M models*

ELMARIT-M f/2.8/28 mm

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

Order No. 11 809 _____

Brilliant finder with case ²⁾

Order No. 12 009 _____

Replacement case

Order No. 14 628 _____

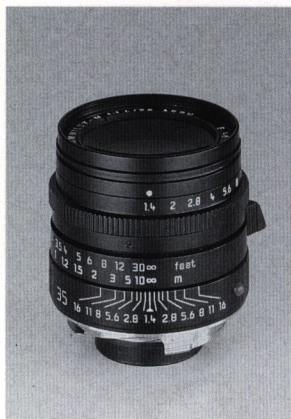
(Replacement soft leather case,
lens cap, rear cover, lens hood,
and accessories see page 5-18)

¹⁾ All LEICA M-Cameras, except the
LEICA M3 and LEICA MP, can
be equipped with the 28 and
75 mm bright-line frames by the
Leica Service Department.

²⁾ Brilliant finder not required with
LEICA M6 and LEICA M4-P.

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 metre/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 finder
- LEICA M quick change bayonet
- Black anodized finish
- Push-on 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: 0.310 kg

SUMMILUX-M f/1.4/35 mm ASPH.

black anodized finish

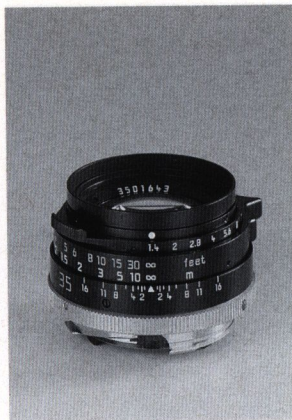
In a soft leather case, with lens hood, lens cap and rear cover

(Spare lens cap, rear cover, lens hood, soft leather case and accessories see page 5-18)

Order No. **11 874**

SUMMILUX-M f/1.4/35 mm

*for all
LEICA M models*



Ultra-high-speed wide-angle lens

- Angle of view: 64°
- Number of elements: 7 (5 components)
- Filter size: Series 7, for insertion into the lens hood, which can be dismantled
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 1 m (40 in)
- Smallest object field: 630 x 950 mm (25 x 37.5 in) (approx. 1:26)
- Parallel guided focusing mount
- Camera viewfinder¹⁾
- LEICA M quick change bayonet
- Black anodized or titanium finish
- Lens hood designed as a filter holder, can be dismantled for accepting the Series 7 filters
- Front lens diameter: 48 mm (1.9 in)
- Length from bayonet flange: 28 mm (1.1 in)
- Diameter: 53 mm (2.1 in)
- Weight: 0.195 kg

SUMMILUX-M f/1.4/35 mm

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

black anodized finish

Order No. **11 870** _____

titanium finish

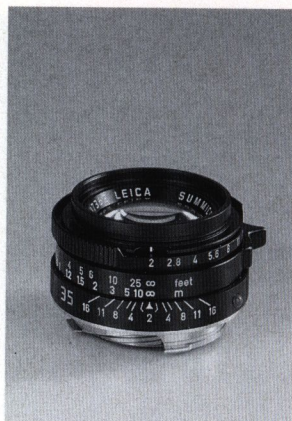
Order No. **11 860** _____

(Replacement soft leather case, lens cap, rear cover, lens hood, and accessories see page 5-18)

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

SUMMICRON-M f/2/35 mm

*for all
LEICA M models*



High-speed wide-angle lens

- Angle of view: 64°
- Number of elements: 7 (5 components)
- Filter size: E 39
- Internal thread: M 39 x 0.5
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/feet scale
- Focusing range: ∞ to 0.70 m (28 in)
- Smallest object field: 430 x 640 mm (17 x 25 in) (approx. 1 : 18)
- Parallel guided focusing mount
- Camera viewfinder¹⁾
- LEICA M quick change bayonet
- Black anodized or silver chrome finish
- Push-on lens hood
- Front lens diameter: 42 mm (1.7 in)
- Length from bayonet flange: 26 mm (1 in)
- Diameter: 52 mm (2 in)
- Weight: 0.160 kg/0.250 kg²⁾

SUMMICRON-M f/2/35 mm

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

black anodized finish

Order No. 11 310

silver chrome finish

Order No. 11 311

(Replacement soft leather case, lens cap, rear cover, lens hood, and accessories see page 5-18)

High-speed wide-angle lens

Weight: 0.160 kg/0.250 kg²⁾

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

²⁾ black anodized finish / silver chrome finish.

- 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 620 mm (16 x 24 in) (about 1:17)
- Parallel guided focusing mount
- Camera viewfinder
- LEICA M quick change bayonet
- Black anodized finish
- Retractable lens hood
- Front lens: rectangular 71.5 x 68 mm (2.8 x 2.7 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

NOCTILUX-M f/1.50 mm

*for all
LEICA M models*

NOCTILUX-M f/1.50 mm

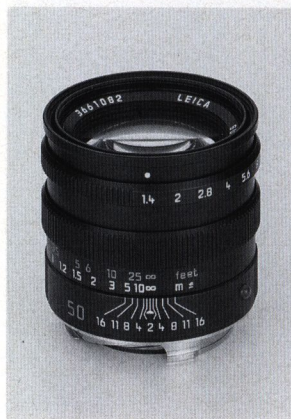
In a soft leather case, with lens cap and rear cover

(Spare lens cap, rear cover, soft leather case and accessories see page 5-18)

Order No. 11 822 _____

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 (27.5 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
- Black anodized finish / Titanium finish
- Built in, teleopic 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** _____

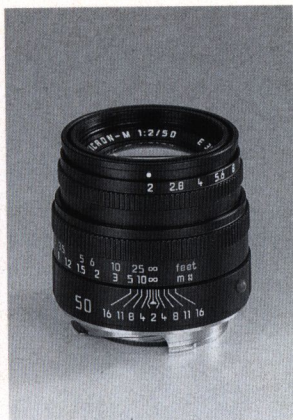
titanium finish

Order No. **11 869** _____

(Spare lens cap, rear cover,
lens hood, and accessories see
page 5-18)

¹⁾ Black anodized finish /
titanium finish

- 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
- Black anodized or silver chrome finish
- Retractable 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 / 0.335 kg¹⁾



High-speed universal lens

SUMMICRON-M f/2.50 mm

*for all
LEICA M models*

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** _____

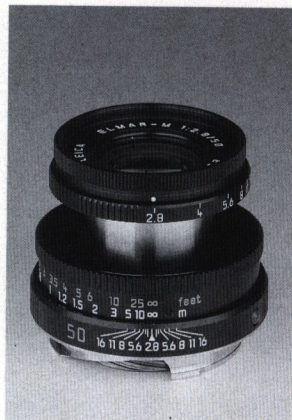
(Replacement soft leather case,
lens cap, rear cover and
accessories see page 5-18)

¹⁾ black anodized finish / silver chrome finish

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
- Black anodized²⁾ or silver
chrome finish
- Lens hood: with screw
mount M 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 kg /
0.245 kg¹⁾

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

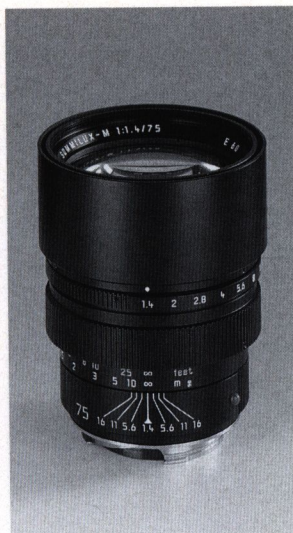
Order No. 11 823 _____

(Replacement lens cap, rear
cover, lens hood, and accessories
see page 5-18)

¹⁾ Black anodized finish / silver
chrome finish

²⁾ Tube: Brass, silver chrome finish

- Angle of view: 31°
- Number of elements: 7
(5 components)
- Filter size: E 60
- Internal thread: M 60 x 0.75
- 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: 0.600 kg



Ultra-high-speed, medium
focal-length lens

SUMMILUX-M f/1.4/75 mm

*for all
LEICA M models*

SUMMILUX-M f/1.4/75 mm

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

Order No. **11 815**

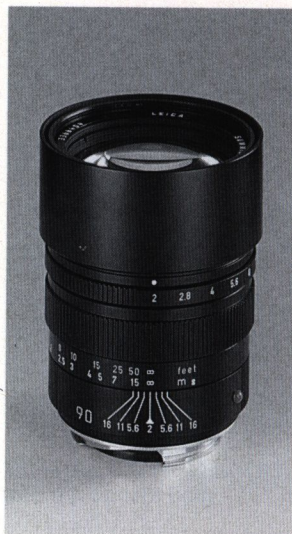
(Spare lens cap, rear cover, soft
leather case and accessories see
page 5-18)

¹⁾ All LEICA M-cameras, except
the LEICA M3 and LEICA MP,
can be equipped with the 28 and
75 mm bright line frames key the
Leica Service Department.

SUMMICRON-M

f/2/90 mm

*for all
LEICA M models*



High-speed lens for photo-
journalism and reportages

- Angle of view: 27°
- Number of elements: 5
(4 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Clickstops (including half values)
- Smallest aperture: f/16
- Combined meter/
feet scale
- Focusing range: ∞ to 1 m
(40 in)
- Smallest object field:
220 x 330 mm (8.7 x 13 in)
(approx. 1:9)
- Parallel guided focusing
mount
- LEICA M quick change
bayonet
- Black anodized or silver
chrome finish
- Built-in telescopic lens
hood
- Front lens diameter:
62.5 mm (2.5 in)
- Length from bayonet
flange: 77 mm (3 in)
- Diameter: 62.5 mm
(2.5 in)
- Weight: 0.475 kg /
0.690 kg ¹⁾

SUMMICRON-M f/2/90 mm

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

black anodized finish

Order No. 11 136

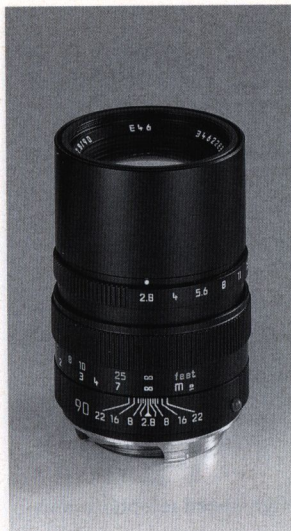
silver chrome finish

Order No. 11 137

(Replacement soft leather case,
lens cap, rear cover and
accessories see page 5-18)

¹⁾ black anodized finish / silver
chrome finish

- 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
- Black anodized finish
- 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



Universal lens of medium focal length

ELMARIT-M f/2.8/90 mm

*for all
LEICA M models*

ELMARIT-M f/2.8/90 mm

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

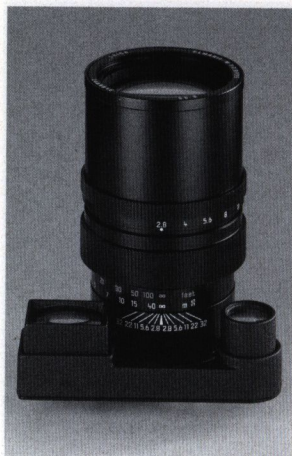
(Spare lens cap, rear cover, soft leather case and accessories see page 5-18)

Order No. **11 807** _____

LEICA M lenses

ELMARIT-M f/2.8/135 mm

*with viewfinder
front attachment
for all
LEICA M models*



High-speed telephoto lens

- Angle of view: 18°
- Number of elements: 5 (4 components)
- Filter size: E 55
- Internal thread: M 55 x 0.75
- Clickstops (including half values)
- Smallest aperture: f/32
- Combined meter/feet scale
- Focusing range: ∞ to 1.50 m (5 ft)
- Smallest object field: 220 x 330 mm (8.7 x 13 in) (about 1 : 9)
- Parallel guided focusing mount
- Camera viewfinder
- LEICA M quick change bayonet
- Black anodized finish
- Lens unit can be unscrewed
- Built-in telescopic lens hood
- Front lens diameter: 63.7 mm (2.5 in)
- Length from bayonet flange: 114 mm (4.5 in)
- Diameter: 66 mm (2.6 in)
- Weight: 0.780 kg

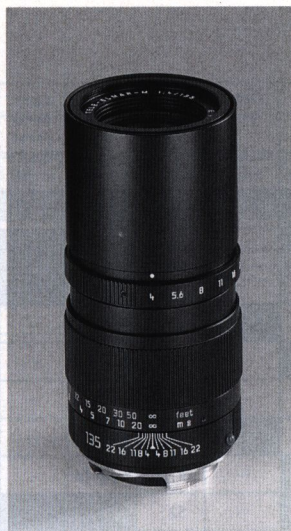
ELMARIT-M f/2.8/135 mm

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

(Spare soft leather case, lens cap,
rear cover and accessories see
page 5-18)

Order No. **11 829** _____

- Angle of view: 18°
- Number of elements: 5 (3 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 1.50 m (5 ft.)
- Smallest object field: 220 x 330 mm (8.7 x 13 in) (approx. 1:9)
- Parallel guided focusing mount
- Camera viewfinder
- LEICA M quick change bayonet
- Black anodized finish
- Lens hood: built-in
- Front lens diameter: 56 mm (2.2 in)
- Length from bayonet flange: 107 mm (4.2 in)
- Diameter: 57.5 mm (2.3 in)
- Weight: 0.550 kg



Telephoto lens

TELE-ELMAR-M f/4/135 mm

*for all
LEICA M models *)*

TELE-ELMAR-M f/4/135 mm

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

(Replacement soft leather case, lens cap, rear cover and accessories see page 5-18)

Order No. **11 861** _____

*) Except LEICA M2: adaptation of the viewfinder possible by the Leica Service Department.

Accessories

LEICA M lens	Order No. black anodized	Order No. silver chrome	Order No. titanium finish	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 ²⁾	Filter size screw-in or series ¹⁾
f/2.8/21 mm from No. 3 363 300	11 134	—	—	62	12 543	—	14 290	14 269	14 682	E 60
f/2.8/28 mm from No. 3 585 865	11 809	—	—	48	12 547	14 013	14 231	14 269	14 686	E 46
f/1.4/35 ASPH.	11 874	—	—	49	12 588	14 039	14 231	14 269	14 688	E 46
f/1.4/35 mm from No. 2 166 701	11 870	—	11 860	42	12 504	—	14 268	14 269	14 690	Series 7 ³⁾
f/2/35 mm from No. 2 974 251	11 310	11 311	—	42	12 524	—	14 268	14 269	14 692	E 39
f/1/50 from No. 3 220 709	11 822	—	—	62	built in	—	14 290	14 269	14 695	E 60
f/1.4/50 mm	11 686	—	11 869	45	built in	—	14 231	14 269	14 700	E 43
f/2/50 mm from No. 3 649 976	11 826	11 816	—	47.5	built in	—	14 038	14 269	14 700	E 39
f/2.8/50 mm	11 831	11 823	—	52	12 550 12 549	14 285 14 321	14 321	14 269	14 701	E 39
f/1.4/75 mm from No. 3 223 301	11 815	—	—	62	built in	—	14 290	14 269	14 703	E 60
f/2/90 mm from No. 3 177 201	11 136	11 137	—	62.5	built in	—	14 289	14 269	14 705	E 55
f/2.8/90 mm from No. 3 462 071	11 807	—	—	54	built in	—	14 231	14 269	14 707	E 46
f/2.8/135 mm from No. 2 788 927	11 829	—	—	63.7	built in	—	14 289	14 269	14 709	E 55
f/4/135 mm from No. 3 595 960	11 861	—	—	57.5	built in	—	14 231	14 269	14 711	E 46

¹⁾ as accessory

²⁾ replacement

³⁾ adaptation with lens hood

Photography

5

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 21 mm lenses

Upright, brilliant image.
Superimposed bright picture
frame.

Reproduction scale 0.3,
with parallax compensation
markings below 2 m, with
case.

Brilliant viewfinder for 28 mm lenses

with case

Order No. **12 009** _____

Case (replacement)

Order No. **14 628** _____



Brilliant viewfinder for 28 mm lenses

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

Accessories

Filters

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

LEICA Compact Cameras

<i>Product range</i>	LEICA mini II _____	6- 2
	Accessories _____	6- 2
	LEICA mini zoom _____	6- 3
	Accessories _____	6- 3
	LEICA minilux _____	6- 4
	Accessories _____	6- 5

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	LEICA minilux _____	6-12

LEICA

Compact Cameras

LEICA mini II



LEICA mini II *

Order No. 18 013 _____

Leica mini II * with Data Back

(As LEICA mini II, but with Data Back for imprinting day and time, or date onto the film)

Order No. 18 014 _____

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

Super compact, fully automatic 35 mm range finder camera with LEICA ELMAR f/3.5/35 mm lens. UVA protection filter built-in. Infrared autofocus with focus memory. Adjustable infinity setting. Center-weighted integral metering. Automatic exposure program with memory. Manual exposure correction + 2 Ev. Built-in flash unit with rapid flash sequence; automatic

flash activation in poor lighting conditions. Manual on/off flash setting possible. Pre-flash for reducing the red eye effect is possible. Long time exposure "B" up to 5 s. Automatic film speed setting (DX-code) and loading; motorized film transport. Series frame release.

Detailed description on page 6-6.

Accessories

Order No. 18 503 _____

Order No. 18 516 _____

Order No. 18 517 _____

Ever ready case for LEICA mini II

Carrying strap for LEICA mini II (replacement)

Wrist strap for LEICA mini II (replacement)

Order No. 14 320 _____



Mini tripod
with ball and socket joint.

LEICA

Compact Cameras

LEICA mini zoom



Super compact, fully automatic 35 mm range finder camera with LEICA VARIO-ELMAR f/4-7.6/35-70 mm lens. Automatic lens cover. Infrared autofocus with focus memory. Adjustable infinity setting. Center-weighted integral metering. Automatic exposure program with memory. Manual exposure correction +2 Ev. Built-in flash unit with rapid flash sequence; automatic flash activation in poor lighting conditions. Manual on/off

flash setting possible. Pre-flash for reducing the red eye effect is possible. Unrestricted long time exposures "B". Automatic film speed setting (DX-code) and loading; motorized film transport and automatic rewind. Series frame release. Panorama adapter available as accessory.

Detailed description on page 6-9.

LEICA mini zoom *

Order No. **18 004** _____

LEICA mini zoom * with Data Back

(As LEICA mini zoom, but with Data Back for imprinting day and time, or date onto the film)

Order No. **18 005** _____

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

Accessories

Order No. **18 505** _____

Order No. **18 510** _____

Order No. **18 516** _____

Order No. **18 517** _____

Ever ready case for LEICA mini zoom

Panorama-Adapter

Carrying strap for LEICA mini zoom (replacement)

Wrist strap for LEICA mini zoom (replacement)

Mini tripod

with ball and socket joint.



Order No. **14 320** _____

LEICA

Compact Cameras

LEICA minilux



High quality, compact 35 mm range finder camera with high speed LEICA SUMMARIT f/2.4/40 mm lens. Elegant titanium housing 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. Series frame function.

Detailed product description on page 6-12

LEICA minilux

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

Order No. 18 006 _____

Accessories

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
and brief instructions.



Order No. **18 507** _____

Ever-ready case of sturdy
leather (with removable
front)



Order No. **18 506** _____

Panorama adapter with case

Carrying strap
(length approx. 50 cm, 20 in.)

Wrist strap (replacement)

Viewfinder correction lenses:

+ 1 dptr.

- 1 dptr.

Electric cable release

Order No. **18 511** _____

Order No. **18 518** _____

Order No. **18 519** _____

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 mini II

Specifications and Technical Data



Type:

Ultra-compact, fully automatic 35 mm rangefinder camera with autofocus, automatic program mode and automatic flash.

Lens:

LEICA ELMAR $f/3.5/35$ mm (4 lens elements in 3 groups). UVa protection filter built onto front lens element.

Focus range:

From 65 cm (25 in) to infinity. Separate "fixed infinity" setting.

Smallest object field:

440 x 660 mm (17.3 x 26.0 in) - approx. 1 : 18.

Autofocus system:

Active infrared autofocus activated from pressure on the shutter release which immediately sets the focus. Thus, the time-parallax between the first touch to the shutter release and actual photograph is minimized.

Exposure control:

Automatic program mode, center weighted integral metering with automatic flash activation.

Memory:

Of autofocus and exposure metering values; activated by light pressure on the exposure release button.

Exposure override:

+ 2 EV, in manual and fixed infinity modes.

Metering range:

From 8 cd/m² to 125 000 cd/m².

Meter working range:

With ISO 100/21° from exposure value EV 6 ($1/6$ s and $f/3.5$) to EV 16 ($1/250$ s and $f/16$). Automatic flash activation with exposure values of less than EV 10.

Shutter speeds:

$1/6$ s to $1/250$ s; in "B" setting - up to 5 seconds.

LEICA

Compact Cameras

Specifications and Technical Data

Film speed setting:

Automatic film speed setting for DX-coded films with ISO 50/18°, 100/21°, 200/24°, 400/27°, 800/30°, 1000/31°. Films without DX-coding are set to ISO 100/21°.

Automatic flash:

In poor lighting conditions, the flash is automatically activated. Manual on/off flash is possible at any time. Pre-flash to reduce the red eye effect can be switched on both in the automatic and manual settings.

Flash range:

With ISO 100/21° from 0.65 m to 4.0 m (2.9 to 13 ft).
With ISO 400/27° from 0.65 m to 8.0 m (2.1 to 26 ft).

Viewfinder:

Telescopic viewfinder (Galilei) with autofocus measuring field and markings for close range. Confirmation and flash mode indicated by green light diode (LED).

Viewfinder magnification:

0.45 x, equivalent to 85 % of the film format.

Film transport:

Automatic film threading and advance to first frame. Motorized film transport after each exposure. Series exposures when the release button is pressed and held down. Motorized rewind occurs automatically at the end of the film. The film is rewound into the cartridge completely. Rewinding a partially exposed film is also possible.

Data field:

LCD (liquid crystal) displays symbols for battery status, frame count, flash activation and fixed infinity setting.

Self-timer

10 second countdown; flashing red LED on the front of the camera indicates when the countdown is running. Release via a separate switch on the camera top.

Power supply:

Long lasting 3 V (CR 123 A) lithium battery.

Switching the camera on/off:

With the main switch on the top of the camera. Lens moves into ready or transportation position. The flash electronics switch off automatically after about 5 minutes when not in use (Sleep mode). Activate anew by pressing the release button.

Mode control:

Universal program with automatic flash activation

⚡ = Universal program with automatic flash and pre-flash activation

+ EV = Universal program with automatic flash activation and exposure correction + 2 EV

⚡ ON = Manual flash activation

⚡ ON = Manual flash activation with pre-flash

⚡ OFF = Manual flash activation. For exposure times longer than 1/6 s, the camera automatically switches over to long time exposure "B". Long time exposures are possible for a max. of 5 seconds

∞ = Focusing distance is fixed at infinity

+ EV ∞ = Focusing distance is fixed at infinity with exposure correction

The chosen modes remain activated until another is chosen or the camera is switched back on, it automatically goes into the universal program with automatic flash activation.

Compact Cameras

Housing:

Closed camera body in elegant LEICA design. Noose on the side of the camera to attach the carrying strap or wrist strap. Tripod thread A 1/4 DIN 4503 (1/4").

Data back:

Optionally with or without data back. For printing the day and time or date on the film. Quartz controlled clock and automatic calendar to the year 2019. Imprint intensity controlled by the camera's automatic film speed setting.

Specifications and Technical Data**Dimensions:**

Without data back approx.:

length 118 mm / height
65 mm / Width 38.5 mm
(4.6/2.6/1.5 in).

With data back approx.:

length 118 mm / height
65 mm / width 41 mm
(4.6/2.6/1.6 in).

Weight:

Without data back 160 g

(without batteries)

With data back 175 g

(without batteries)

Accessories:

Ever-ready case

(Order No. 18 503)

Mini tripod

(Order No. 14 320)

LEICA Compact Cameras LEICA mini zoom



Camera type:

Very compact 35 mm range finder camera with autofocus, automatic program and built-in flash.

Lens:

LEICA VARIO-ELMAR
f/4 - 7.6/35 - 70 mm
(7 lenses in 6 components).

Focusing range:

From infinity to 60 cm
(23.6 in). Separate "infinity"-
setting e. g. for landscape
pictures and pictures taken
through glass.

Autofocus system:

Active infrared autofocus
which measures and focuses
when the release is pressed.

Exposure control:

Automatic program mode,
with automatic flash activation.

Exposure metering:

Integral-center weighted.

Memory:

The storage of focus and
exposure values occurs
when the release button is
pressed.

Working range:

(All values for ISO 100/21°).

For the control modes:
universal program and uni-
versal program with pre-flash
as well as for the infinity set-
ting and exposure correction:

For 35 mm focal length
setting:

From Ev 9 (1/30 s and f/4) to
Ev 17 (1/300 s and f/20). For
70 mm focal length. From
Ev 11,6 (1/50 s and f/7,6) to
Ev 17 (1/200 s and f/25).

For values below Ev 9
(35 mm) or Ev 11 (70 mm),
the flash is activated auto-
matically when in the
universal program.

For the control modes:
manual flash activation,
manual flash activation
with pre-flash and manual
flash-off:

For 35 mm focal length
setting:

From Ev 6 (1/4 s and f/4)
to Ev 17 (1/300 s and f/20).
For 70 mm focal length.
From Ev 7,9 (1/4 s and f/7,6)
to Ev 17 (1/200 s and f/25).

Compact Cameras

Specifications and Technical Data

For values below Ev 9 (35 mm) or Ev 11 (70 mm), the flash is activated automatically when in the universal program.

Exposure times:

1/4 to 1/300 seconds, manual long time exposures in the "B" setting.

Exposure correction:

+2 Ev, manually, also adjustable in the infinity mode.

Automatic flash:

In poor lighting conditions, the flash is automatically activated. Manual on/off flash is possible at any time. Pre-flash to reduce the red eye effect can be switched on both in the automatic and manual settings.

Flash range: (ISO 100/21°):

For 35 mm from 0.60 m to 4.7 m (23.6 in to 15.5 feet). For 70 mm from 0.60 m to 3.3 m (23.6 in to 11 feet).

Flash loading time:

With fresh batteries, approx. 5 seconds.

Film speed setting:

Automatic film speed setting for DX-coded films with ISO 50/18°, 100/21°, 200/24°, 400/27°, 800/30°, 1600/33°, 3200/36°. Films without DX-coding are set to ISO 100/21°.

Viewfinder:

Albada viewfinder with autofocus measuring field and markings for close range and panorama pictures. Flash confirmation indicated by a red light diode (LED), confirmation for autofocus and exposure metering indicated by a green light diode (LED).

Viewfinder magnification:

0.33 x for 35 mm focal length, 0.61 x for 70 mm focal length, equivalent to 85 % of the film format.

Film transport:

Automatic film threading and advance to first frame when the rear cover is closed after inserting the film cartridge. Motorized film transport after each exposure. Automatic frame-counter, ascending, in the display. Series exposures when the release button is pressed and held down. Motorized rewind occurs automatically at the end of the film. The film is rewound into the cartridge completely. Rewinding a partially exposed film is also possible.

Data field:

LCD (liquid crystal) displays symbols for battery status, frame count, Ev exposure correction, long time exposure, self-timer, film insertion and rewind, flash and pre-flash activation, flash-off and fixed infinity setting. Display remains on for approximately 60 seconds after battery removal.

Self-timer:

10 second countdown; flashing red LED on the front of the camera indicates when the camera is running. Release via a separate switch.

Power supply:

Long lasting 3 V (CR 123 A) lithium battery.

Switching the camera on/off:

With the main switch on the top of the camera. Lens moves into ready or transportation position. The flash electronics and the displays switch off automatically after about 5 minutes when not in use (Stand-by mode). Activate anew by pressing the release button.

Mode control:

Universal program with automatic flash activation

⚡	Universal program with automatic flash and pre-flash activation
+ EV	Universal program with automatic flash activation and exposure correction +2 EV
⚡ ON	Manual flash activation
⚡ ON	Manual flash activation with pre-flash
⚡ OFF	Manual flash-off
∞	Fixed infinity
⚡ OFF	setting with manual flash-off
∞ EV	Fixed infinity
⚡ OFF	setting with exposure correction and manual flash-off
B	Long time exposure "B" with
⚡ OFF	manual flash-off

LEICA

Compact Cameras

Specifications and Technical Data

The chosen modes remain activated until another is chosen or the camera is switched off.

Housing:

Closed camera body in elegant LEICA design. Noose on the side of the camera to attach the carrying strap or wrist strap. Tripod thread A 1/4 DIN 4503 (1/4").

Rear cover:

Available with or without data print out.

Data back:

For printing the day and time or date on the film. Quartz controlled clock and automatic calendar to the year 2019. Imprint intensity controlled by the camera's automatic film speed setting.

Dimensions:

With and without data back:
length 123 mm / height
71.5 mm / width 43 mm
(4.8 / 2.8 / 1.7 in).

Weight:

approx. 230 g (without batteries).

Accessories:

Leather ever-ready case (Order No. 18 505), Mini tripod (Order No. 14 320), Panorama adapter (Order No. 18 510).

LEICA

Compact Cameras

LEICA minilux

Specifications and Technical Data



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.

Aperture 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 ∇ , AUTO ∇ ,

∇ ON, ∇ 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 ∇ ON, SLOW ∇ ON, ∇ OFF, ∇ 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 universal AUTO mode.

LEICA

Compact Cameras

Specifications and Technical Data

Shutter speeds:

1 to 1/400 s, „B“ setting for exposure times longer than 1 s in the operation modes SLOW ∇ ON, SLOW ∇ ON, ∇ OFF, ∇ 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:

- Universal mode with automatic flash activation AUTO ∇
- Universal mode with automatic flash and pre-flash activation AUTO ∇
- Manual flash activation ∇ ON
- Manual flash and pre-flash activation ∇ ON

Compact Cameras

- Manual flash activation and long exposure time (SLOW ∇ ON)
 - Manual flash and pre-flash activation with long exposure time (SLOW ∇ ON)
 - Manual flash off (∇ OFF)
 - Manual flash off (∇ OFF) and long exposure time B
- 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. 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").

*Specifications and Technical Data***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.

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).

Accessories:

Data back for the LEICA minilux (order no. 18 525)

Carrying strap, length approx. 50 cm (19.7 in.) (order no. 18 518)

Wrist strap (included - replacement) (order no. 18 519)

Soft leather case with belt strap and additional inner compartment for panorama adapter and brief instructions (order no. 18 507)

Ever-ready case of leather with removable front and carrying strap with non-slip pad (order no. 18 506)

Mini tripod that is easy to stow away (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 - length approx. 30 cm, 11.8 in. (order no. 18 540).

Enlarging /
Projection



LEICA M6
SUMMICRON-M f/2/35 mm
Axel Nordmeier

LEICA Enlarger

Product range LEICA FOCOMAT V 35 Autofocus **7- 3**

Accessories **7- 4**

Modules for conversion

Negative holders / slide holder

Diffusion disc

Masking frames **7- 6**

Footswitch

Other accessories

Specifications and Technical Data LEICA FOCOMAT V 35 **7- 7**

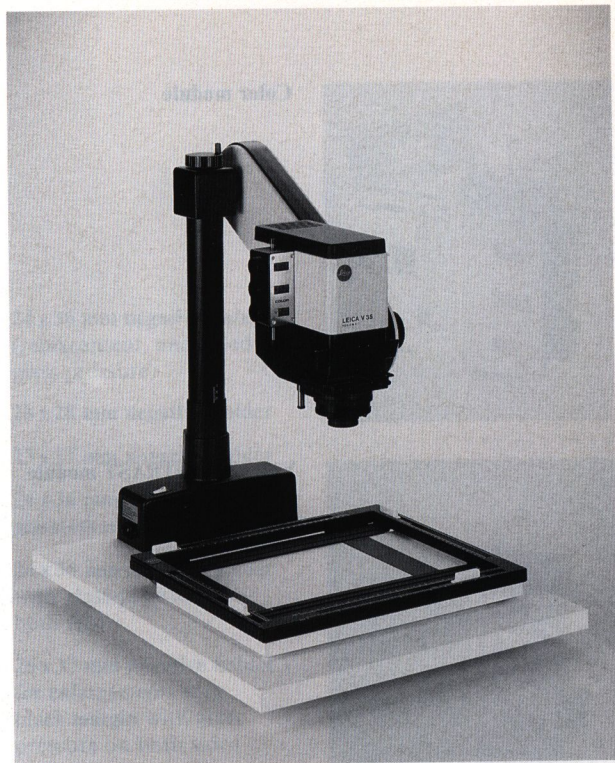
LEICA FOCOMAT V 35 is a compact enlarger for colour and black and white with automatic focusing and 40 mm W.A. FOCOTAR P2.2 wide-angle lens, for Negative holders 24 x 36 mm, 24 x 36 mm, 13 x 17 mm, 24 x 36 mm slides (external mount 36 x 36 mm) with 40 W tungsten halogen lamp with cold-light mirror. Extremely long automatic focusing range 1 to 16x with the 40 mm W.A. FOCOTAR P2.2.

25% more enlargement and 25% more picture area compared with a 50 mm lens.

LEICA FOCOMAT V 35 complete with built-in transformer, mains cable, 40 W tungsten halogen lamp, cold-light mirror, 24 x 36 mm negative holder, diffusion disc, interchangeable module.

Detailed description see page 7-7

LEICA FOCOMAT V 35



Compact enlarger for color and black and white with automatic focusing and 40 mm WA-FOCOTAR f/2.8 wide-angle lens, for: Negative formats 24 x 36 mm, 28 x 28 mm, 13 x 17 mm, 35 mm slides (external format 50 x 50 mm) with 12 v/75 W tungsten halogen lamp with cold-light mirror.

Extremely long, automatic enlarging range 3 to 16x with the 40 mm WA-FOCOTAR f/2.8.

30% more enlargement and 70% more picture area (compared with a 50 mm lens).

LEICA FOCOMAT V 35 complete with built-in transformer, mains cable, 12 v/75 W tungsten halogen lamp, cold-light mirror, 24 x 36 mm negative holder, adjusted lens, interchangeable module.

Detailed description see page 7-7.

LEICA FOCOMAT V 35 with LEICA WA-Focotar f/2.8/40 mm

Color version
110 - 250 v (with module)
Order No. 17 411

Black-and-white version
110 - 250 v
(with black and white module)
Order No. 17 407

**VARIOCONTRAST
version**
110 - 250 v
(with VARIOCONTRAST module)
Order No. 17 412

**Mains cable
(replacement)**
Order No. 37 644

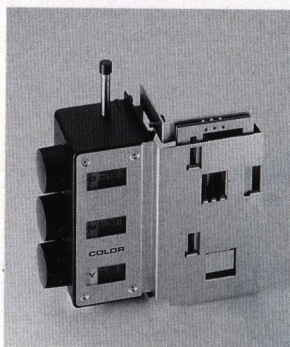
LEICA Enlarger

Accessories

LEICA FOCOMAT V35 Conversion modules

Color module

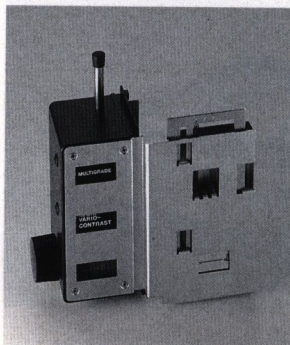
Order No. 17 428 _____



Color module

VARIOCONTRAST module

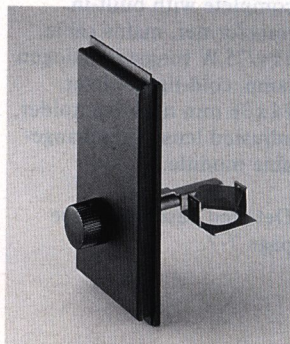
Order No. 17 441 _____



VARIOCONTRAST module

Black-and-white module

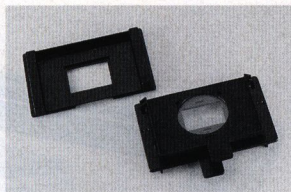
Order No. 17 427 _____



Black-and-white module

Accessories

*Negative holders /
Slide holder
Film trays
Diffusion disc*



24 x 36 mm negative holder
(replacement, one-sided
glass pressure)

28 x 28 mm negative holder

13 x 17 mm negative holder

**24 x 36 mm
glassless negative holder**

24 x 36 mm negative holder
with glass-pressure on
both sides

25 x 37 mm negative holder
for enlargements with
black margin with glass
pressure on both sides

Holder
for 35 mm slide
(external format 50 x 50 mm)

Two film trays
for the enlargement
of uncut films

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



Order No. 17 003 _____

Order No. 17 007 _____

Order No. 17 424 _____

Order No. 17 009 _____

Order No. 17 002 _____

Order No. 17 012 _____

Order No. 17 419 _____

Order No. 17 425 _____

Diffusion disc

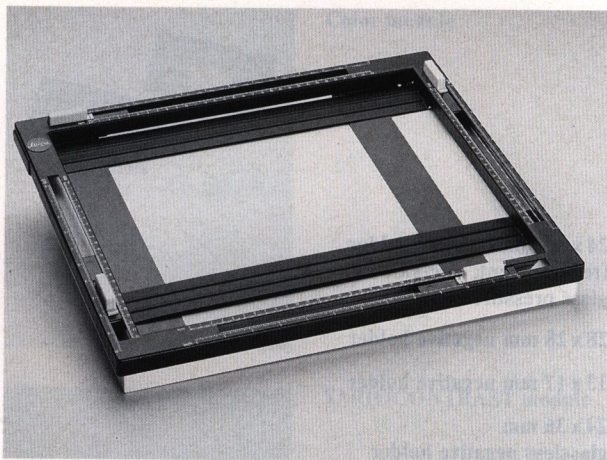
Order No. 17 430 _____

Accessories

Masking frames

24 x 30 cm (10 x 12 in)
universal masking frame
(height 25 mm or 1 in)
with 4 adjustable masking
strips, combined foot/
metre scale

Order No. 17 584 _____



Red filter

Red filter

(to be swivelled in front of
the lens, can also be used
together with the diffusion
disk)



Dust cover

for the enlarger

Dust cover

Order No. 17 429 _____

Intermediate ring

Intermediate ring

for 1:1.3 reproduction scale
(8 mm)
(up to three intermediate
rings can be combined,
reproduction scale up to
1.15:1)

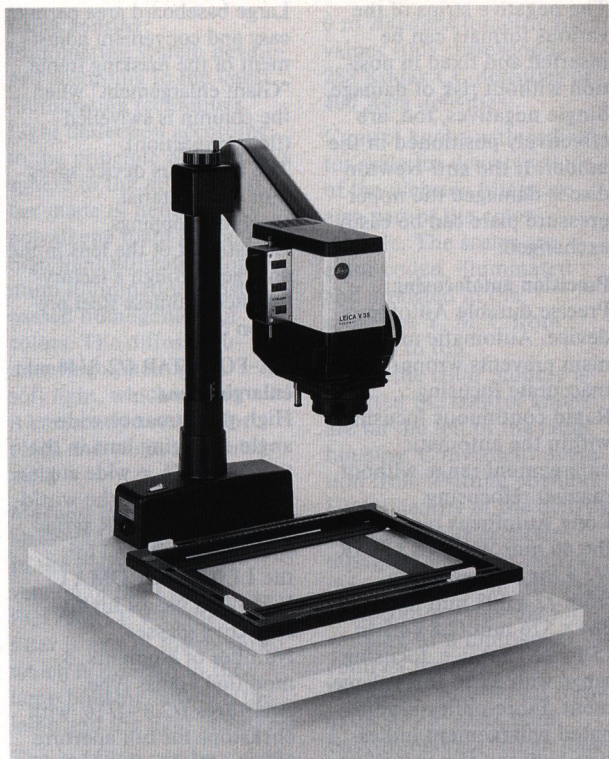
Order No. 17 439 _____

Footswitch

Footswitch

for FOCOMETER

Order No. 17 434 _____



Type of instrument:

Compact enlarger for color and black-and-white with automatic focusing and 40 mm WA-FOCOTAR f/2.8 wide-angle lens for: Negative formats 24 x 36 mm, 28 x 28 mm, 13 x 17 mm, 35 mm slides (external format 50 x 50 mm) with 12 v/75 W tungsten halogen lamp with cold-light mirror.

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

30% more enlargement and 70% more picture area is offered by the 40 mm WA-FOCOTAR compared with a 50 mm lens at the same working distance from the baseboard.

Negative stage:

for negative holder with glassless support exerting one-sided glass pressure (with anti-Newton surface) interchangeable for the formats: 24 x 36 mm* (contained in the basic outfit), 28 x 28 mm, 13 x 17 mm, 25 x 37 mm

* = with film number windows

LEICA FOCOMAT V35

for the 24 x 36 mm glassless negative holder

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

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

Technical description of the film stage:

The cast part is screwed on to the chassis of the enlarger head. Film stage aligned parallel to the baseboard at right angles to the optical axis.

Maximum transmission 28 x 36 mm (1.1 x 1.4 in). Swinging pressure plate exerts spring pressure on the negative or slide holder. Rapid and easy insertion of the negative or slide holders in the lamp housing when the pressure plate is raised. The pressure plate is raised for effortless movement of the inserted film strips to the next frame. Convenient arrangement of the controls on the left and right. Integrated format masking, continuously adjustable with rotary knobs on the front. Adjustment facility: from about 37 mm to 3 mm in the x-direction and from about 28 mm to 6 mm in the y-direction.

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

Precision autofocus:

Precise durable Autofocus device. Automatic mechanism prevents wrong/inaccurate focusing. Rapid continuous focusing within the automatic enlargement range without manual refocusing. Long Autofocus range with the 40 mm WA-FOCOTAR f/2.8 for enlargements from 72 x 108 mm to 384 x 576 mm (2.8 x 4.3 to 15.1 x 22.7 in), i.e. focusing range with 3x to 16x enlargement. Fibre-optics-illuminated enlargement indication between the swivelling arm and lamp housing. Can be switched for separate indication of the enlarging ratios of 40 or 50 mm lenses. Convenient arrangement of this indication permits reading of the enlarging scale also from a sitting position.

Adjustment range of the focal plane from 0 to 60 mm, for the adaption of the automatic focusing mechanism to different heights of masking frames. Raising of the column to 60 mm (2.4 in) = 17.5x enlargement (manual on the baseboard).

Large baseboard area permits easy and convenient adjustment of the masking frame. "Giant enlargement" when the column is swivelled (floor projection). The autofocus device saves time and material. Ideal for croppings. Adjustment of the lens in the enlarger through a factory-adjusted stainless steel precision cam.

WA-FOCOTAR f/2.8/40 mm enlarging lens:

High-performance wide-angle enlarging lens in the top class (WA = wide angle). Enlarging lens of the world-famous FOCOTAR series specially computed for the LEICA FOCOMAT V 35, with use of highly refractive glasses. Number of elements: 5, modified Gauss type. Apertures f/2.8 - f/16, with clickstops for full aperture values, can be switched to continuous adjustment. Illuminated aperture scale can be read from the front. High contrast, high resolving power, very good illumination and excellent color differentiation ensure brilliant reproduction. Optimum correction up to 11x magnification. Optimum reproduction already from f/5.6 means shorter exposure times and reduced risk of vibration when making giant enlargements. Helical focusing mount on the instrument ensures easy focusing outside the automatic range:

Lamp housing:

Illuminating system developed according to the latest illuminating techniques. Light deflection according to the principle of Ulbricht's sphere in the mixing chamber made of neutral-color polyalkene foam guarantees: high light utilization, optimum illumination, unsurpassed homogeneity of colors. The diffuse illuminating system gives soft light, which makes it eminently suitable for black and white and color work.

Modules for color and black-and-white:

In the black-and-white version of the LEICA FOCOMAT V 35 the red filter is part of the module, which is inserted in the lamp housing between the lamp and the light chamber. The red filter can be swivelled into and out of the optical path with a rotary knob. Rapid and simple exchange of the black-and-white module against the color module.

Color module with cam-controlled dichroic filters. The subtractive color correction filters can be continuously adjusted. All three filters (Y, M, C) can be swivelled from the optical path simultaneously with preservation of the programmed filter values, and, of course, be swivelled back into it in the programmed state.

The filter density range for Y, M and C extends from

0 to 200 densitometric filter values (this corresponds to 288 Kodak CC densities or 400 Agfa densities).

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

When the color module is inserted the control knobs are on the left of the lamp housing. Convenient operation from a sitting position. High linearity of the density curves permits accurate dosage of the filter values throughout the entire range. Variocontrast module for working with multigrade contrast paper. Gradation adjustment from extra soft to extra hard. Easy-to-operate "single-button" for gradation change.

Excellent cooling system:

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

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

This cooling ring prolongs the life of the lamp.

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

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

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

Great stability:

Robust steel column, circular cross section, in reflection-reducing black chromium finish rotatably mounted in the large foot of the instrument. Diameter 60 mm (2.4 in). Total height baseboard to swivelling arm 600 mm (23.6 in).

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

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

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

Diecast column foot:

The foot of the column contains the transformer, fuse, on/off switch, voltage selector, mains plug and the mechanism for the vertical adjustment. The column can be raised continuously up to 60 mm (2.4 in). Setting by means of a scale.

Large, rigid baseboard:

Professional baseboard with effective white area of 540 x 590 mm (1' 9" x 1' 11"). Shock-absorbing 4-point support.

Additional stabilization of the baseboard through profile steel on the underside. Space for a large package of enlarging paper under the baseboard.

Electrical data / safety:

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

The only cable outside the instrument is the mains cable. Low-voltage transformer built into the foot of the enlarger, hence no separate part to be set up. Transformer input maximum: 100 W

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

Fuses: T 630 mA

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

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

Dimensions and weights:

Height: 600 mm (23.6 in)

Width: 540 mm (21.3 in)

Depth: 700 mm (27.6 in)

LEICA FOCOMAT V 35

Autofocus = 21.8 kg

Color module = 0.475 kg

LEICA Projectors and Dissolve-Control Units

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**LEICA
PRADOVIT P150
models**

**LEICA PRADOVIT
P 150
(Cable-
remote control)**



**LEICA PRADOVIT
P 150 IR
(Infrared-
remote control)**



**LEICA PRADOVIT
P 150 DU-Set
(for dissolve
projection)**



LEICA PRADOVIT P150



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-P2 f/2.5/90 mm. Accessories from page 8-6 Detailed description page 8-27

LEICA P150 with autofocus (220 V / 50 Hz) complete with 24 V / 150 W halogen lamp, cable remote-control and lens:

ELMARIT-P2 f/2.8/60 mm 230 V / 50 Hz

HEKTOR-P2 f/2.8/85 mm 230 V / 50 Hz

240 V / 50 Hz

120 V / 60 Hz

115 V / 60 Hz

COLORPLAN-P2 f/2.5/90 mm 230 V / 50 Hz

COLORPLAN-P2 CF f/2.5/90 mm 230 V / 50 Hz

Projector, complete with halogen lamp and cable remote-control, **without** lens

230 V / 50 Hz

240 V / 50 Hz

120 V / 60 Hz

115 V / 60 Hz

* Not suitable with the ELMARIT-P2 f/2.8/60 mm

(Projection lenses marked "P2" are not compatible with LEICA P153 / P253 / P2000 or any earlier Pradovit projectors)

Order No. 30 499

Order No. 30 421

Order No. 30 453

Order No. 30 498

Order No. 30 913

Order No. 30 422

Order No. 30 423

Order No. 30 420

Order No. 30 452

Order No. 30 497

Order No. 30 912

LEICA PRADOVIT P 150 IR



Technical outfit is the same as PRADOVIT P 150 except:

- with **additional** IR remote control (integrated into the housing)

- without manual focus override via the IR or cable remote control

Accessories from page 8-6

Detailed description page 8-27

LEICA P 150 IR with autofocus, complete with 24V/150W lamp, cable and IR remote controls (without 9 V block alkali manganese battery), with lens.

Order No. **30 841** _____

230 V/50 Hz

ELMARIT P2 f/2.8/60 mm

Order No. **30 842** _____

230 V/50 Hz

HEKTOR P2 f/2.8/85 mm

Order No. **30 911** _____

240 V/50 Hz

HEKTOR P2 f/2.8/85 mm

Order No. **30 915** _____

115 V/60 Hz

HEKTOR P2 f/2.8/85 mm

Order No. **30 843** _____

230 V/50 Hz

COLORPLAN P2

f/2.5/90 mm

Order No. **30 844** _____

230 V/50 Hz

COLORPLAN P2 CF

f/2.5/90 mm

Projector, complete with lamp, cable and IR remote controls (without battery), **without** lens

Order No. **30 840** _____

230 V/50 Hz

Order No. **30 910** _____

240 V/50 Hz

Order No. **30 914** _____

115 V/50 Hz

(„P2“ lenses do not fit on PRADOVIT 153 / 253, P 2002 or any previous Pradovit projector)

LEICA Projectors

LEICA PRADOVIT P 150 DU-Set*)



Technical outfit of both projectors is the same as PRADOVIT P 150 except:

- with additional DU (Dissolve Unit) connection socket for dissolve projection
- without manual focus override via the cable remote control*)

- with **LEICA DU-24 M2 dissolve control unit** for manual dissolve projection with the slider

- with **dissolve console** for stacking the projectors on top of each other

Accessories from page 8-6

Detailed description page 8-27

*) LEICA PRADOVIT P 150 DU projectors are only available in the set!

LEICA PRADOVIT P 150 DU-Set, consists of:

2 LEICA PRADOVIT P 150 units with autofocus and connection socket for dissolve projection, complete with 2 24 V/150 W lamps, with HEKTOR P2 f/2.8/85 mm lenses,

1 LEICA DU-24 M2 dissolve control unit;

1 dissolve console in a handy box set.

230 V / 50 Hz

240 V / 50 Hz

115 V / 60 Hz

Order No. **30 852** _____

Order No. **30 854** _____

Order No. **30 853** _____

(„P2“ lenses do not fit on PRADOVIT 153 / 253, P 2002 or on any of the previous projectors!)

8

Projection

LEICA Projectors

Accessories

Case

Order No. 37 321 _____



(PRADOVIT P 150 models)

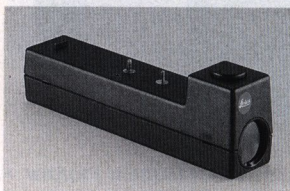
for dust-free storage of projector and lens

Light pointer*)

Order No. 37 310 _____

Replacement bulb
for light-pointer

Order No. 37 304 _____

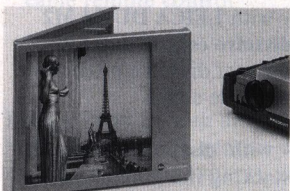


attachable to cable remote-control unit; power supply via projector.

*) not for
LEICA PRADOVIT P 150 IR

Monitor

Order No. 37 331 _____



for slide viewing in daylight. Universally suitable for all common projectors.
(picture 23 x 23 cm, 9 x 9 in)

Projection lenses

Order No. 37 511 _____

Order No. 37 511 _____

Order No. 37 512 _____

Order No. 37 513 _____

ELMARIT-P2
HEKTOR-P2
COLORPLAN-P2
COLORPLAN-P2 CF

f/2.8/60 mm
f/2.8/85 mm
f/2.5/90 mm
f/2.5/90 mm

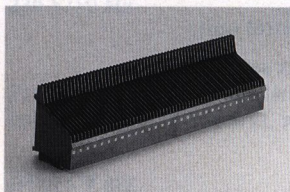
Slide-magazines

with 2 60-slide
magazines

Order No. 37 979 _____

with 2 80-slide
magazines

Order No. 37 980 _____



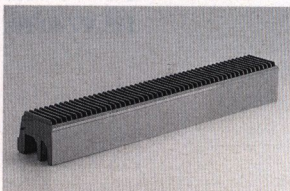
LKM-stacking box

with 2 36-slide
standard magazines

Order No. 37 844 _____

with 2 50-slide
standard magazines

Order No. 37 855 _____



Stacking box
(standard magazines)



LEICA PRADOVIT P 300 models



**LEICA PRADOVIT
P 300**
(Cable remote control)



**LEICA PRADOVIT
P 300 IR**
(Infrared
remote control)

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 pointer. 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
- COLORPLAN-P 2 CF 2.5/90 mm
- Projection lenses with focal lengths from 85 to 200 mm
- Zoom projection lens 70 - 120 mm.

FWU approved, GS and international examination symbols.

Detailed product description on page 8-31

* Not suitable with the ELMARIT-P 2 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.

LEICA PRADOVIT P 300



Comfort projector with cable remote control, lamp 24 V/250 W, autofocus, built-in TRIAC,

LEICA PRADOVIT P 300 with autofocus (230 V/50 Hz) complete with lamp 24 V/250 W, cable remote control and lens:

Order No. 30 829	_____
Order No. 30 821	_____
Order No. 30 822	_____
Order No. 30 823	_____
Order No. 30 824	_____
Order No. 30 825	_____
Order No. 30 826	_____
Order No. 30 827	_____
Order No. 30 828	_____

ELMARIT-P2	f/2.8/ 60 mm
HEKTOR-P2	f/2.8/ 85 mm
COLORPLAN-P2	f/2.5/ 90 mm
COLORPLAN-P2 CF	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

Projector complete **with** lamp 24 V/250 W and cable remote control, **without** lens

Order No. 30 820	_____
Order No. 30 919	_____
Order No. 30 918	_____

230 V/50 Hz
240 V/50 Hz
115 V/60 Hz

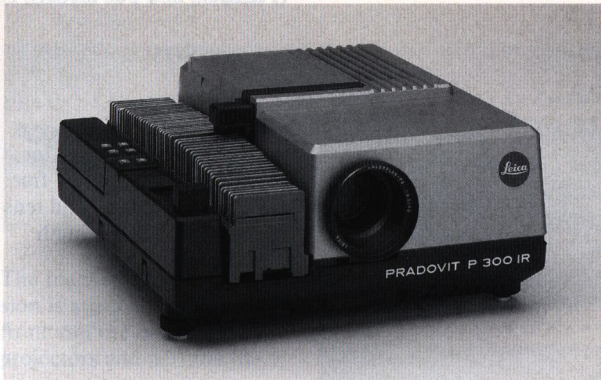
(The "P2" lenses do not fit the PRADOVIT 153 / 253 / P 2002 or any earlier Pradovit projectors)

Accessories starting on page 8-10

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 IR with autofocus (230 V/50 Hz)
complete with lamp 24 V/250 W, IR remote control
(without battery) and lens:

ELMARIT-P2	f/2.8/ 60 mm
HEKTOR-P2	f/2.8/ 85 mm
COLORPLAN-P2	f/2.5/ 90 mm
COLORPLAN-P2 CF	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

Projector, complete with lamp 24 V/250 W and IR remote
control (without battery), **without** lens

(The "P2" lenses do not fit the
PRADOVIT 153 / 253 / P 2002 or any
earlier Pradovit projectors)

Accessories starting on page 8-10

Detailed product description page 8-31

Order No.	30 839
Order No.	30 831
Order No.	30 832
Order No.	30 833
Order No.	30 834
Order No.	30 835
Order No.	30 836
Order No.	30 837
Order No.	30 838

Order No.	30 830
Order No.	30 921
Order No.	30 920

LEICA Projectors

Accessories

Dissolve projection

(PRADOVIT P 300 models)

see page 8-23

Carrying case

Carrying case

for projector with lens: for easy transport and dust-free storage of projector and lens up to 90 mm focal length

Order No. 37 312 _____



Reading lamp

to be plugged in

Order No. 37 313 _____

Replacement lamp

for reading lamp

Order No. 37 308 _____



Monitor

for slide viewing in daylight. Universally suitable for all common projectors. (picture 23 x 23 cm, 9 x 9 in)

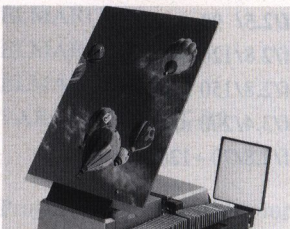
Order No. 37 331 _____



Daylight attachment

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 _____



Laser pointer

Modern, laser based light pointer. Bundling of the laser beam makes the light point clear and easy to see even in large rooms and daylight.

Order No. 37 337 _____



Detailed accessory descriptions from page 8-29

Accessories

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 pause.

Order No. 37 329

Sturdy synthetic housing. Interval setting dial (variable between 3 and 30 s. Figures engraved and inlaid in white. 0.60 m (2 ft) connecting cable, with connecting plug for 14-pin connecting socket on projector (from Serial No. 213 091).



Timer*

* Detailed description page 8-35

Timer complete

Order No. 37 986

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 9 V battery IEC 6 F 22.



Infrared remote-control IR PCM*

* Detailed description page 8-35

Order No. 37 990

Multiple connecting socket for simultaneous connection 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

LEICA Projectors

Accessories

(PRADOVIT P 300 models)

Order No. 37 307 _____

Replacement lamp for
light pointer

Projection lenses

Order No. 37 512 _____
Order No. 37 510 _____
Order No. 37 513 _____
Order No. 37 514 _____
Order No. 37 515 _____
Order No. 37 516 _____
Order No. 37 520 _____
Order No. 37 518 _____

ELMARIT-P 2 f/2.8/ 60 mm
COLORPLAN-P 2 f/2.5/ 90 mm
COLORPLAN-P 2 CF f/2.5/ 90 mm
SUPER-COLORPLAN-P 2 f/2.5/ 90 mm
ELMARON-P 2 f/2.8/120 mm
ELMARIT-P 2 f/2.8/150 mm
ELMARIT-P 2 f/3.4/200 mm
VARIO-ELMARIT-P 2 f/2.8/70 - 120 mm

(Projection lenses marked "P 2" are not compatible with
LEICA P 153 / P 253 / P 2002 or any earlier Pradovit projectors)

Timer-P

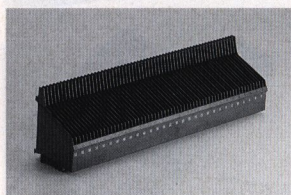
Order No. 37 316 _____



for automatic slide change
with variable change inter-
vals from approx. 5 s to
approx. 35 s
(for projectors up to Serial
No. 213 050)

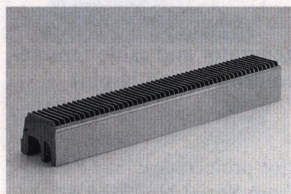
Slide-magazines

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)



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 descrip-
tion from page 8-29

LEICA PRADOVIT P 600 models

LEICA PRADOVIT P 600 (Cable- remote control)



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 automatically) 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 pre-viewing. Separate appliance (mains) cable approx. 2 m (6 ft 6 in) long. High optical performance with:

- SUPER-COLORPLAN-P2 2.5/90 mm
- COLORPLAN-P2 2.5/ 90 mm
- COLORPLAN-P2 CF 2.5/90 mm
- Projection lenses with focal lengths from 60 to 250 mm
- Zoom projection lenses 70-120 mm and 110-200 mm.

LEICA PRADOVIT P 600 IR (Infrared remote control)

FWU approved, GS and international examination symbols.

Detailed product description on page 8-37

* Not suitable with the ELMARIT-P2 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.

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 (230 V/50 Hz)
complete with 2 lamps 24 V/250 W, cable remote control
and lens:

Order No.	30 951	_____
Order No.	30 952	_____
Order No.	30 953	_____
Order No.	30 954	_____
Order No.	30 955	_____
Order No.	30 956	_____
Order No.	30 957	_____
Order No.	30 958	_____
Order No.	30 960	_____

ELMARIT-P 2	f/2.8/ 60 mm
HEKTOR-P 2	f/2.8/ 85 mm
COLORPLAN-P 2	f/2.5/ 90 mm
COLORPLAN-P 2 CF	f/2.5/ 90 mm
SUPER-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
VARIO-ELMARIT-P 2	f/2.8/70 - 120 mm *

* only up to 24 x 36 mm format

Projector complete with 2 lamps 24 V/250 W and cable
remote control, **without** lens

Order No.	30 950	_____
Order No.	30 926	_____
Order No.	30 925	_____

230 V/50 Hz
240 V/50 Hz
115 V/60 Hz

(The "P 2" lenses do not fit the PRADOVIT 153 / 253 /
P 2002 or any earlier Pradovit projectors)

Accessories starting on page 8-16

Detailed product description page 8-37

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 (230 V / 50 Hz) complete with 2 lamps 24 V / 250 W, IR remote control (without battery) and lens:

ELMARIT-P2	f/2.8/ 60 mm
HEKTOR-P2	f/2.8/ 85 mm
COLORPLAN-P2	f/2.5/ 90 mm
COLORPLAN-P2 CF	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 *

* only up to 24 x 36 mm format

Projector, complete with 2 lamps 24 V / 250 W and IR remote control (without battery), **without** lens

(The "P2" lenses do not fit the PRADOVIT 153 / 253 / P 2002 or any earlier Pradovit projectors)

Accessories starting on page 8-16

Detailed product description page 8-37

230 V / 50 Hz

240 V / 50 Hz

115 V / 60 Hz

Order No.	30 971	_____
Order No.	30 972	_____
Order No.	30 973	_____
Order No.	30 974	_____
Order No.	30 975	_____
Order No.	30 976	_____
Order No.	30 977	_____
Order No.	30 978	_____
Order No.	30 980	_____

Order No.	30 970	_____
Order No.	30 928	_____
Order No.	30 927	_____

LEICA Projectors

Accessories

Dissolve projection

Carrying case

Order No. 37 322 _____



(PRADOVIT P 600 models)

see page 8-23

Carrying case

for projector with lens: for easy transport and dust-free storage of projector and lens up to 90 mm focal length

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)

Laser pointer

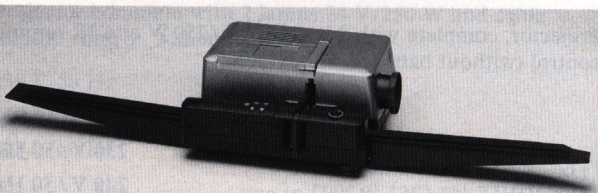
Order No. 37 337 _____



Modern, laser based light pointer. Bundling of the laser beam makes the light point clear and easy to see even in large rooms and daylight.

Magazine track extension

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

Detailed accessory descriptions from page 8-29

LEICA Projectors

Accessories

Infrared remote-control IR PCM



(PRADOVIT P 600 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.

Detailed description
page 8-35

Multiple connecting socket
for simultaneous connec-
tion of e.g. sound impulse

generator and cable remote-
control (6- and 14-pin)

Cable remote-control,
separate with built-in light
pointer (3 m, 10 ft)

PRADOVIT P 600 / P 600 IR

**Extension cable for separate
cable remote-control**
(length approx. 10 m, 33 ft)

PRADOVIT P 600 / P 600 IR

**Replacement lamp for
light pointer**

Bestell-Nr. 37 990 _____

Order No. 37 631 _____

Order No. 37 320 _____

Order No. 37 319 _____

Order No. 37 307 _____

Projection lenses

ELMARIT-P 2	f/2.8/ 60 mm
COLORPLAN-P 2	f/2.5/ 90 mm
COLORPLAN-P 2 CF	f/2.5/ 90 mm
SUPER-COLORPLAN-P 2	f/2.5/ 90 mm
ELMARON-P 2	f/2.8/120 mm
ELMARIT-P 2	f/2.8/150 mm
ELMARON-P 2	f/4/250 mm *
ELMARIT-P 2	f/3.4/200 mm
VARIO-ELMARIT-P 2	f/2.8/70 - 120 mm *
VARIO-ELMARON-P 2	f/3.5/110 - 200 mm *

* only up to 24 x 36 mm format

(Projection lenses marked "P 2" are not compatible with
LEICA P 153 / P 253 / P 2002 or any earlier Pradovit projectors)

Order No. 37 510 _____
Order No. 37 512 _____
Order No. 37 513 _____
Order No. 37 514 _____
Order No. 37 515 _____
Order No. 37 516 _____
Order No. 37 521 _____
Order No. 37 520 _____
Order No. 37 518 _____
Order No. 37 522 _____

LEICA Projectors

Accessories

Mains part for the PRADOVIT P 600 IR remote control

Order No. 37 335 _____

As an alternative power supply for the IR remote control when the use of

(PRADOVIT P 600 models)

batteries can be avoided e.g. fixed installation.

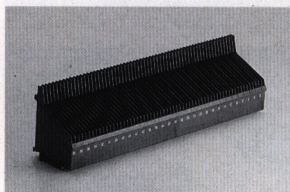
Slide-magazines

with 2 magazines for
60 slides each

Order No. 37 979 _____

with 2 magazines for
80 slides each

Order No. 37 980 _____



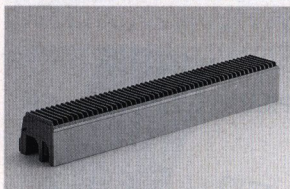
LKM stacking container

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 magazine

for 120 slides
in an archive carton

Order No. 37 327 _____



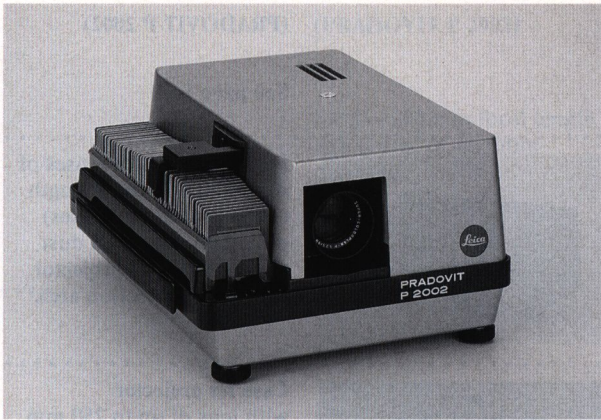
Replacement parts

**Projection lamps,
reading-, autofocus- and
light-pointer lamps**

Replacement bulbs available from Leica Camera's Customer Service Department, or from your national Leica Camera agency. (Please give exact technical data.)

Detailed accessory descriptions from page 8-29

LEICA PRADOVIT P 2002



Automatic 35 mm slide projector in modern design for two magazine systems:

- LKM magazines (compact, spill-proof) for 60 or 80 slides.
- Standard magazines for 36 or 50 slides.

For projection of the 40 x 40 mm format, see page 8-21.

Automatic lamp changer.

Autofocus with manual override via remote control.

Autofocus can be switched off.

Rapid slide change: 1 s.

Economy switch. High optical performance with:

- SUPER-COLORPLAN-P 2.5/90 mm
- COLORPLAN-P 2.5/90 mm for glass-mounted slides
- COLORPLAN-P CF 2.5/90 mm for other slides.
- Projection lenses with focal lengths from 35 to 300 mm
- Zoom projection lenses 60 - 110 mm and 110 - 200 mm.

FWU approved, GS and international examination symbols.

Detailed product description on page 8-41.

LEICA PRADOVIT P 2002 (can be switched over 110 - 240 V/50 - 60 Hz), autofocus, with built-in TRIAC and 14 pin plug according to DIN IEC 571, part 18 A 1, for dissolve control unit, complete with 2 lamps 21 V/250 W, appliance (mains) cable, cable remote control, change condenser, support and lens:

ELMARON-P	f/2.8/ 35 mm ¹⁾
ELMARIT-P	f/2.8/ 50 mm ²⁾⁴⁾
ELMARON-P	f/2.8/ 60 mm ³⁾
ELMARON-P	f/2.8/ 85 mm
COLORPLAN-P	f/2.5/ 90 mm
COLORPLAN-P CF	f/2.5/ 90 mm
SUPER-COLORPLAN-P	f/2.5/ 90 mm
ELMARON-P	f/2.8/120 mm
ELMARIT-P	f/2.8/150 mm
ELMARON-P	f/3.4/200 mm
ELMARON-P	f/4 /250 mm
EPNOR-P	f/4.3/300 mm

Projector **without** lens, **but with** support 35 - 200, cable remote control, appliance (mains) cable, change condenser 50 - 200 and 2 lamps 24 V/250 W

Extension cable, 8 pin for remote control (10 m, 33 ft)

^{1) 2) 3) 4):} see page 8-20

Order No.	30 875	_____
Order No.	30 876	_____
Order No.	30 877	_____
Order No.	30 878	_____
Order No.	30 879	_____
Order No.	30 880	_____
Order No.	30 881	_____
Order No.	30 882	_____
Order No.	30 883	_____
Order No.	30 884	_____
Order No.	30 885	_____
Order No.	30 886	_____

Order No.	30 698	_____
Order No.	37 957	_____

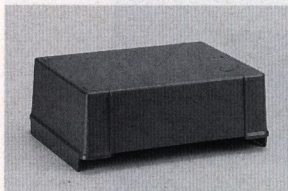
Accessories

Dissolve projection

(PRADOVIT P 2002)

See page 8-23

Hood



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

Order No. 37 985 _____

Case



Case for projector
with lens of up to 250 mm focal length

Order No. 37 961 _____

Projector lenses

Order No. 37 041 _____
Order No. 37 011 _____
Order No. 37 004 _____
Order No. 37 003 _____
Order No. 37 005 _____
Order No. 37 015 _____
Order No. 37 085 _____
Order No. 37 022 _____
Order No. 37 017 _____
Order No. 37 009 _____
Order No. 37 082 _____
Order No. 34 837 _____
Order No. 37 026 _____
Order No. 37 027 _____

ELMARON-P	f/2.8/ 35 mm ¹⁾
ELMARIT-P	f/2.8/ 50 mm ^{2) 4)}
ELMARON-P	f/2.8/ 60 mm ³⁾
ELMARON-P	f/2.8/ 85 mm
COLORPLAN-P	f/2.5/ 90 mm
COLORPLAN-P CF	f/2.5/ 90 mm
SUPER-COLORPLAN-P	f/2.5/ 90 mm
ELMARON-P	f/2.8/120 mm
ELMARIT-P	f/2.8/150 mm
ELMARON-P	f/3.4/200 mm
ELMARON-P	f/4 /250 mm
EPNOR-P	f/4.3/300 mm
VARIO-ELMARON-P	f/3.5/ 60 – 110 mm ^{4) 5)}
VARIO-ELMARON-P	f/3.5/110 – 200 mm ^{4) 5)}

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

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

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

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

⁵⁾ Only up to 24 x 36 mm format.

LEICA Projectors

Accessories

Lens sleeves

Order No. 37 119 _____
Order No. 37 130 _____
Order No. 34 640 _____

Interchangeable condensers (24 x 36)

Order No. 37 223 _____
Order No. 37 224 _____
Order No. 37 225 _____

Interchangeable condensers (40 x 40)

Order No. 37 227 _____
Order No. 37 228 _____
Order No. 37 226 _____

Spare parts

Order No. 37 939 _____
Order No. 37 644 _____

Leica Camera agency.
Please state technical details
in full.

Timer

Timer complete

Order No. 37 986 _____

(PRADOVIT P 2002)

for 35 – 200 mm focal length
and lenses of 42.5 mm
diameter

for 250 mm focal length
for 300 mm focal length

for 35 mm
for 50 – 200 mm
(standard condenser)
for 250 – 300 mm

for 60 – 120 mm, usable
for 60 mm to 200 mm
for 250 – 300 mm
Aspherical lens for 40 x 40

3 m (10 ft), with light pointer

Replacements obtainable
from the Leica Camera
Service Center or the local



Cable remote control
Mains cable

**Projector lamps,
light pointer and AF lamps**

Sturdy synthetic body.
Interval-setting wheel,
adjustable from about 3 to
about 30 seconds, figures
engraved and inlaid in white
0.60 m (2 ft) cable, 10-pin
plug. For use with any
PRADOVIT fitted with
14-pin (10 pins in use)
socket.

Accessories

Infrared Remote-Control IR PCM

complete, without
9 V battery (IEC 6 F 22)

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 9 V IEC
6 F 22 battery.

Laser pointer

Order No. 37 337



Modern, laser based light
pointer. Bundling of the
laser beam makes the light
point clear and easy to see
even in large rooms and
daylight.

Magazine track extension

Order No. 37 312

Magazine track extension
The magazine track exten-
sion is attached on to the
front and the back of the

projectors and permits the
consecutive viewing of
several magazines without
pause.

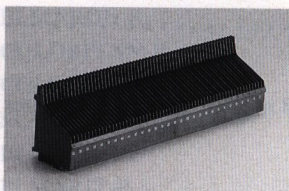
Magazines

with 2 60-slide
magazines

Order No. 37 979

with 2 80-slide
magazines

Order No. 37 980



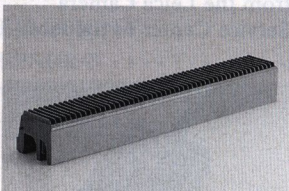
LKM stacking box

with 2 36-slide standard
magazines

Order No. 37 844

with 2 50-slide standard
magazines

Order No. 37 855



Stacking box (standard magazines)



Detailed accessory descriptions from page 8-29

LEICA Dissolve-control units

LEICA DU-24 IR PC



For two projectors which are equipped with TRIAC and 14-pin socket according to DIN IEC 574, part 18 A 1. Recording capability of data signals onto cassette and tape. Edit RS-232 for the programming of the dissolve show with an IBM compatible PC. Synchronization with programmable SYNC-marks. Several

DU-24 IR PC dissolve-control units can be combined for controlling up to 6 projectors.

Recommended use:

Home projection, professional slide presentation; advertising, teaching and lectures.

Detailed product description on page 8-46.

Dissolve-control unit
LEICA DU-24 IR PC
with IR PC REMOTE CONTROL (incl. batteries), projector coupling cables, cinch-cables and 6.3 mm RCA adapter

Order No. 37 999

TIME-CODE

Accessory for the LEICA DU-24 IR PC together with LEICA DCP software.

Detailed product description on page 8-48.

TIME-CODE

as 37 999, but with
TIME-CODE

Order No. 37 995

TIME-CODE-MODULE
for DU-24 IR PC

Order No. 37 952

Slider

Slider, works digitally for the LEICA DU-24 IR PC for manual presentation and recording on tape or cassette recorder.

Detailed product description on page 8-49



Slider for DU-24 IR PC

Slider for DU-24 IR PC

Order No. 37 994

LEICA Dissolve- control units

Software LEICA DCP

with PC connection cable
and PC adapter

Order No. 37 992 _____

Dissolve projection console

Order No. 37 972 _____

Dissolve console

Order No. 37 325 _____



The software LEICA DISSOLVE CONTROL PROGRAM can be used to program a dissolve show with up to 3 dissolve-control units and 6 projectors directly via an IBM compatible personal computer (PC).

Detailed product description on page 8-48.

For convenience and to avoid vibrations, two projectors can be installed above each other with this console (suitable for all LEICA projectors).

Detailed product description on page 8-49.

for the space saving, safe set-up of two PRADOVIT P 300 or P 600 projectors on top of each other.

Detailed accessory descriptions from page 8-29

LEICA Dissolve-control units LEICA DU-24 IR



For two projectors which are equipped with TRIAC and 14-pin socket according to DIN IEC 574, part 18 A 1. Recording capability of data signals onto cassette and tape as well as AV units in free head versions.

Recommended use:

Home projection; professional slide presentation; advertising, teaching and lectures.

Detailed product description on page 8-50.

Dissolve-control unit

LEICA DU-24 IR with IR REMOTE CONTROL (incl. batteries), projector coupling cables, cinch-cables and 6.3 mm RCA adapter.

Order No. 37 998 _____



For manual dissolve control with two projectors and without recording possibilities. With built-in timer that can be switched off.

Usage possibilities:

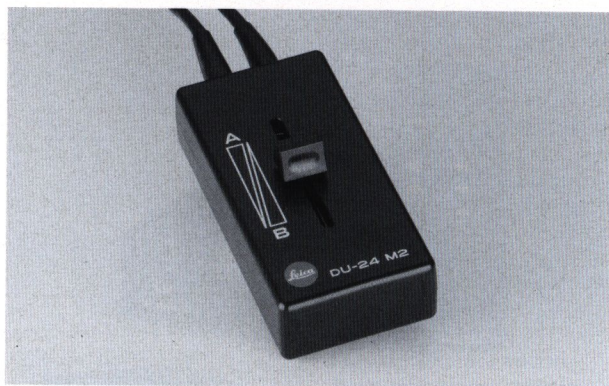
Home projection, presentations, advertising, educational and informational areas.

Detailed description on page 8-52

LEICA DU-24 MT

Order No. 37 996 _____

LEICA DU-24 M2



For manual dissolve control
of two projectors without
recording capability.

Recommended use:

Home projection; profes-
sional slide presentation;
advertising, teaching and
lectures.

Detailed product description
on page 8-53.

Order No. 37 997 _____



LEICA PRADOVIT P150 models

***LEICA PRADOVIT
P150
(Cable-
remote control)***



***LEICA PRADOVIT
P150 IR
(Infrared-
remote control)***



***LEICA PRADOVIT
P150 DU-Set
(for dissolve
projection)***

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-P2 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 108). 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 and P 150 DU models) or cable remote control or IR remote control (P 150 model).

Autofocus:

The autofocus function with override facility 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-P2 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-P2 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
115 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- 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.

Variation of the P 150 DU model:

with connection socket for dissolve projection (built in TRIAC) but without manual focus override via remote control.

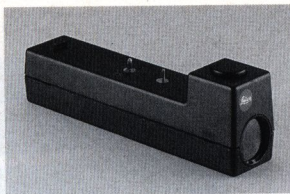
Dimensions and weight:

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

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.



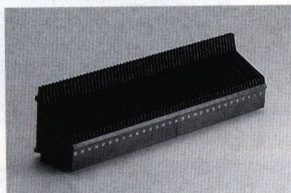
Light-pointer^{*)}

PRADOVI P 300
models

^{*)} not for P 150 IR model

The new LKM system has five distinct advantages:

1. It can be used for all sorts of slide frames up to 2 mm thickness.
2. It's spillproof.
3. It is compact and space-saving.
4. Its stacking containers easily fit the stacking containers of the standard magazine system, thus facilitating slide storage.
5. Slides can easily be removed from the magazine, even when it's in the projector.



LKM magazine system for 60 and 80 slides

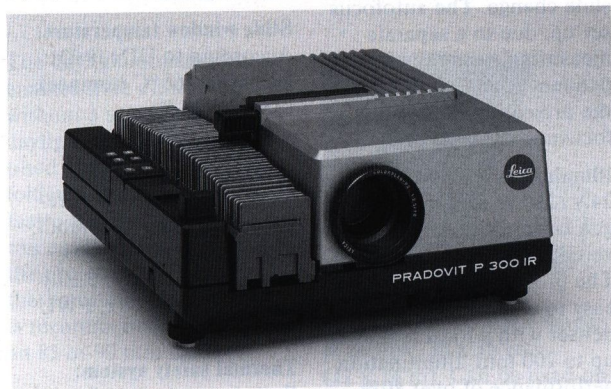
P 300
14 cable remote control

LEICA PRADOVI
P 150 IR
14 cable remote control



**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 2.5/90 mm for glass-mounted slides, COLORPLAN-P2 CF, 2.5/90 mm (curved field) for

other slides, projection lenses with focal lengths from 85 to 200 mm and the zoom projection lens 70-120 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 (P 300)
- Slide control unit (sound-track) via multiple socket
- Dissolve control unit DU-24 (see page 8-46)
- Timer for automatic slide presentations with time intervals that can be set (see page 8-35)

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-P 2 2.5/ 90 mm and a image size of 24 x 36 mm).

Effective light flux:

According to DIN 19021, with image 24 x 36 mm and COLORPLAN-P 2 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
115 V / 60 Hz

Slide window temperature:

According to DIN 19021: 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:

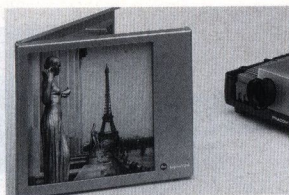
Length: 278 mm (11 in),
width: 275 mm (10 in),
height: 135 mm (5.3 in)

Monitor

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



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.



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

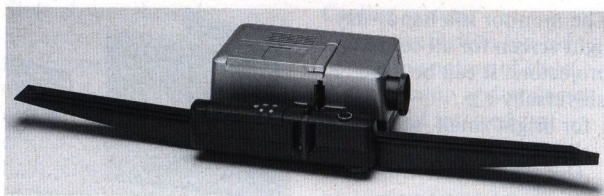
Daylight attachment

Modern, laser based light pointer (laser class II) in full metal version. The light point remains bright and clearly visible even in daylight due to the bundling of the laser beam. With a range of 50 m (164 ft), it is also suitable for large rooms.



Laser pointer

Magazine track extension



The two-piece magazine track extension is simply attached to the front and back of the projector's track. It permits magazine changes to be made without pressure or pause in between.

Dimensions:

front extension:
approx. 34 cm (13.4 in)
rear extension:
approx. 33 cm (13 in)

For use with any projector fitted with a 14-pin socket according to DIN 45351.

Robust synthetic body with black grained surface. Interval-setting wheel, adjustable from about 3 s to 30 s, figures engraved and inlaid in white. 0.60 m (2 ft) cable, 10-pin plug. The cable is long enough for any desired set-up next to the projector. The Timer is suitable for the following projectors: PRADOVIT 2002, LEICA P 2000, PRADOVIT COLOR 2, PRADOVIT CA 2502, and PRADOVIT 2500 equipped for fade control, LEICA P 155 / P 255 models, LEICA P 153 / P 253 models,



and for PRADOVIT 153 / 253 models and PRADOVIT P 300 / P 300 IR. Please contact the Leica Camera Service Centre or your national Leica Camera agency for information on connecting other PRADOVIT projectors.

Dimensions:

Length: 65 mm (2.6 in)

Width: 50 mm (2 in)

Height: 23.5 mm (1 in).

Range about 20 m (65 ft). Detector in robust plastic 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 9 v IEC TT 6 LF 22 battery. Four transmitting channels with a push-button each for slide transport forward, slide transport reverse, and focusing forward and focusing reverse. Push-buttons conveniently arranged.



Dimensions and weight:

IR detector:

Length: 130 mm (5.1 in)

Width: 63 mm (2.5 in)

Height: 32 mm (1.3 in)

Weight: 0.140 kg.

IR transmitter:

Length: 140 mm (5.5 in)

Width: 52 mm (2 in)

Height: 27 mm (1 in)

Weight: 0.080 kg.

Timer C

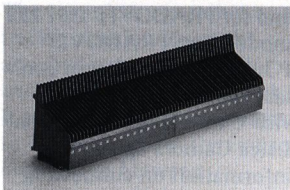
Infrared remote-control IR PCM

Reading lamp



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.

LKM magazine system for 60 and 80 slides



The new 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.

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, COLORPLAN-P 2 CF,

2.5/90 mm (curved field) for other slides, projection lenses with focal lengths from 60 to 250 mm and the zoom projection lenses 70 - 120 mm and 110 - 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 DU-24 (see page 8-23)

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 glass-less 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
115 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: 310 mm (12 in),
width: 280 mm (11 in),
height: 135 mm (5.3 in)
Weight: approx. 6.50 kg

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 9 v IEC TT 6 LF 22 battery.
 Four transmitting channels with a push-button each for slide transport forward, slide transport reverse, and focusing forward and focusing reverse. Push-buttons conveniently arranged.



***Infrared
 remote-control
 IR PCM***

Dimensions and weight:

IR detector:

Length: 130 mm (5.1 in)

Width: 63 mm (2.5 in)

Height: 32 mm (1.3 in)

Weight: 0.140 kg.

IR transmitter:

Length: 140 mm (5.5 in)

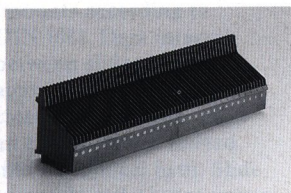
Width: 52 mm (2 in)

Height: 27 mm (1 in)

Weight: 0.080 kg.

The new 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.

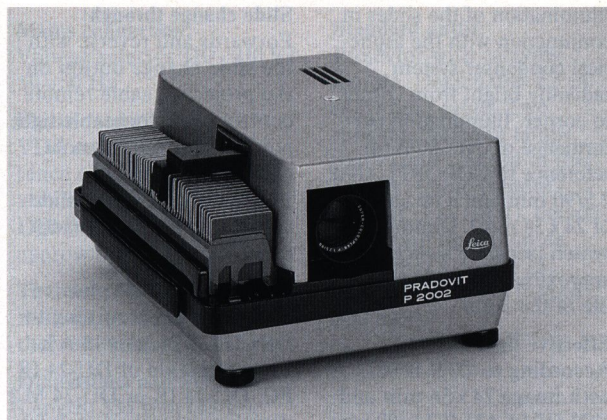


***LKM magazine system
 for 60 and 80 slides***

Round magazine



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).



LEICA PRADOVIT P 2002

Type of projector:

Automatic 35 mm slide projector with built-in TRIAC for a dissolve control unit.

Slide formats:

Optimised for the 24 x 36 mm format. For projection of the 40 x 40 mm format a special condenser and aspherical 40 x 40 mm illuminating lens should be used.

Magazine systems:

LKM magazines (compact, spill-proof) for 60 or 80 slides. Standard magazines for 36 or 50 slides.

Magazine guide and slide transport:

Free access to the slide space of the projector. Handy insertion of both the LKM and standard magazines. Easy switching between LKM and standard magazine with swivelling arm on the slide claw. It is simple to guide the slide magazine in the magazine trough. Good sliding properties. Trouble-free slide transport thanks to the securely guided

slide claw and sliding elements made of stainless steel. Display of all, also varying kinds of mounts (mounts according to DIN 108). Dark interval between slides is only approx. 1 sec. Automatic closure of the slide when an empty claw is moved into the optical path. Slide transport and change occur with minimal sound. When the slide claw is pulled out, the slide magazines can be moved fore or backwards at will.

Body:

High-quality aluminium die cast of stylish design and optimum stability. Silver grey metallic finish and dark centre band lend an elegant appearance. Quiet high precision function. Exceptionally stable three-point set-up, precise horizontal compensation with two knurled screws. Socket for mains cable. On/off switch. Economy switch for the lamp. Slide change button. Carrying handle.

Lenses:

High optical performance and optimum image quality with SUPER-COLORPLAN-P 2.5/90 mm, COLORPLAN-P 2.5/90 mm for glass-mounted slides, COLORPLAN-P CF 2.5/ 90 mm (curved field) for other slides, as well as projection lenses with focal lengths from 35 to 300 mm. Meeting all requirements from wide angle projection to the bridging of long distances.

Illuminating system:

Automatic lamp changer. Light diode (at the rear of the projector) warns when the reserve lamp is in use. Two 24 V/250 W tungsten halogen lamps. The unit is delivered complete with lamps. Optimum lamp centering carried out in the factory. The projection lamps are easy to change. Lamp housing with additional shield housing. Modern aspherical illumination system, optimised for the 35 mm format. Replaceable condenser lens elements – for 24 x 36 mm format: 35 mm lens, 50 – 200 mm lenses, 250 – 300 mm lenses. At request, format 40 x 40 mm is also possible – by exchanging the aspherical condenser lens and the interchangeable condenser for 60 – 200 mm lenses and 250 – 300 mm lenses.

Illumination of the slides in conjunction with the aspherical condenser system radiantly bright from corner to corner. Illumination performance of over 80 % (in reference to COLORPLAN-P 2.5/90 mm and a image size of 24 x 36 mm). Dimmer switch (separate switch) approximately doubles the life of the lamp.

Effective light flux:

According to DIN 19021, with image 24 x 36 mm and COLORPLAN-P 2.5/90 mm lens: 950 lm.

Slide window temperature:

According to DIN 19021: average of 69 °C (temperature 49 K).

Autofocus set-up:

Automatic focusing with override. Motorised focusing can be switched off. Rapid response sensitivity due to the silicium photo elements. High focusing accuracy. Autofocus override allows any correction per remote control, without any change in the basic setting, which is fully restored after each slide change. Autofocus device is independent of the centering of the projector lamp due to it's own light source. Focusing takes place already in the dark phase (dissolve projection).

Slide change through:

Forwards and reverse with the slide change button on the projector, cable remote control (with focusable light pointer), infrared remote control IR PCM.

Forwards with timer, slide control units (soundtrack), dissolve control units.

Sockets:

Socket, 14 pin according to DIN IEC 374, part 18 A 1, for connection of DU-24 IR PC, DU-24 IR or DU-24 M 2 dissolve control units, infrared remote control IR PCM and timer. Socket, 8 pin for cable remote control. Socket, 6 pin wired according to DIN standards. Facility for connecting soundtrack or slide control units. Simultaneous use of the cable remote control and slide control unit (without additional twin plugs) through these two sockets. Built-in TRIAC for lamp modulation.

Cooling system:

2 channel blower for optimum cooling. Separate cooling air streams for slide gate and lamp via two channel radial blower. Additionally, a 2.7 mm thick infrared-ray absorption filter (KGI-glass) provides additional protection for slides. Extremely quiet blower performance.

Mains connection:

Voltage selector 110–210 V/
50–60 Hz.

Electric safety:

VDE and GS and interference suppression symbol;
also SEMKO, NEMKO,
DEMKO and SEV. FWU
approved.

Thermal safety system:

Built-in, protection from
thermal damage.

Dimensions and weight:

Length: 335 mm (13 in),
width: 270 mm (10 in),
height: 165 mm (6.5 in)
Weight: depending on
equipment approx. 9.0 kg.

Standard outfit:

Projector with carrying
handle. Detachable 2.5 m
(8 ft) long cable. Two
tungsten halogen lamps,
main lamp centred in the
factory. Cable remote
control, 3 m (10 ft), detach-
able, with light pointer.
Customer's choice of
projector lens (35 mm to
300 mm).



LEICA Projectors *Specifications and Technical Data*

Timer



For use with any projector fitted with a 14-pin socket according to DIN 45 351.

Robust synthetic body, with black grained surface. Interval-setting wheel, adjustable from about 3 s to 30 s, figures engraved and inlaid in white. 0.60 m (2 ft) cable, 10-pin plug. The cable is long enough for any desired set-up next to the projector.

The Timer is suitable for the following projectors: PRADOVIT P 2002, LEICA P 2000, PRADOVIT COLOR 2, PRADOVIT CA 2502, and PRADOVIT 2500 equipped for fade control, LEICA P 155 / P 255 models, the LEICA P 153 / P 253 and for PRADOVIT 153 / 253 models as well as PRADOVIT P 300 / P 300 IR. Please contact the Leica Service Centre or your national Leica agency for information on connecting other PRADOVIT projectors.

Dimensions:

Length: 65 mm (2.6 in)
Width: 50 mm (2 in)
Height: 23.5 mm (1 in).

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 9 v IEC 6 F 22 battery. Four

transmitting channels with a push-button each for slide transport forward, slide transport reverse and focusing forward and focusing reverse. Push-buttons conveniently arranged.

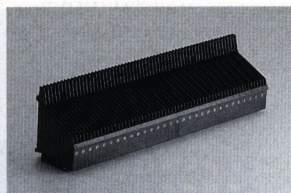
Dimensions and weight:

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: 140 mm (5.5 in)
Width: 52 mm (2 in)
Height: 27 mm (1 in)
Weight: 0.080 kg.

Specifications and Technical Data **LEICA Projectors**

The new 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.



LKM magazine system for 60 and 80 slides

The modern, laser based light pointer (laser class II) in full metal version. The light point remains bright and clearly visible even in daylight due to the bundling of the laser beam. With a range of 50 m it is also suitable for large rooms.



Laser pointer

The two-piece magazine track extension is simply attached to the front and back of the projector. It permits magazine changes to be made without pressure or pause in between.

Dimensions:
front extension:
approx. 275 mm
rear extension:
approx. 275 mm

Magazine track extension

LEICA Dissolve- control units LEICA DU-24 IR PC

Specifications and Technical Data



For two projectors which are equipped with TRIAC and 14-pin socket according to DIN IEC 574, part 18 A.1. Recording capability of data signals onto cassette and tape. Edit RS-232 for the programming of the dissolve show with an IBM compatible PC. Synchronization with programmable SYNC-marks. Several dissolve-control units DU-24 IR PC can be combined for controlling up to 6 projectors. Dissolve shows which have been recorded with the dissolve units Leitz DU-24 A and LEICA DU-24 P on **multichannel tape or cassette recorders** can be replayed.

Description and functions:

- Control unit for soft and hard dissolves.
- 9 selectable dissolve times: CUT (hard dissolve), 1, 2, 3, 4, 6, 10, 18 and 30 seconds.
- Timer operation for dissolves with 5 different intervals.
- 24 V power supply through projectors with built-in TRIAC for lamp control.
- Standardized digital data signal controls the dissolve of the projectors.
- A signal can be recorded on a compatible multichannel cassette or multichannel tape recorder without difficulty.
- The connection to the multichannel cassette or multichannel tape recorder is done via a cinch cable.
- Two marked cables [each 1.70 m (5'6")] connect control unit and projectors.
- Edit "RS-232" for the direct connection of an IBM compatible PC.
- LED display shows sequence of functions and status display of projectors.
- Display to indicate the slide magazine position and for the input confirmation shown as a respective code number.

Control buttons and functions:

- “LINE UP” / “RESET”-button: For basic focus setting, to line up projectors and reset the projectors to the starting position (Reset).
- “DISS” button (dissolve): To start two different dissolve times.
- When “DISS” and “LINE UP” / “RESET” are pressed simultaneously, a reverse dissolve follows.
- “SYSTEM”-switch: For the adaptation of the projectors being used and for the replay of dissolve shows which have been recorded with dissolve-control units LEITZ DU-24 A or LEICA DU-24 P.
- “ADDRESS” / “REC”-switch: For recording and replay. For the assigning of the control unit to selected address in the software when programming with PC and several projectors.

Infrared remote control:

- Cable free remote control up to a range of approx. 20 m (66 ft).
- Nine buttons for the different dissolve times; with subsequent slide change.
- “REV” button for a reverse step of the slide magazine and subsequent reverse dissolve.

- “FREEZE” button to interrupt an ongoing dissolve process.
- “PULSE” button to create a pulsing projection image.
- “PRESET A” and “PRESET B” buttons for selection of the projector.
- Transport button for the individual forward or reverse transport of the slide magazines for special effects.
- Focus button for manual focus correction (Override) of the projecting projector.
- “AUX” 1, 2, and 3 Button allows the control of electric peripheral instruments, e. g., additional projector for a title fade-in.

Cable remote control:

- A 3 m (9.8 ft) separate cable remote control from the projectors PRADOVIT P 300 / P 300 IR (code no. 37 318)
- Distances of up to 50 m (164 ft) are possible with 10 m (33 ft) extension cords (code no. 37 319).
- Three dissolve times and reverse.
- Focus button for manual focus correction (Override) of the projecting projector.
- Lightpointer.

Compatible projectors:

- All automatic 35 mm projectors which have a TRIAC and a 14-pin socket are compatible with the control unit DU-24 IR PC. 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 153 DU / P 253 DU, LEICA P 155 DU and LEICA P 255 DU, 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 weights:

Dissolve unit:

Length: 176 mm (6.9 in)
Width: 210 mm (8.3 in)
Height: 44 mm (1.7 in)
Weight: approx. 978 g

IR-remote control:

Length: 134 mm (5.3 in)
Width: 57 mm (2.2 in)
Height: 22 mm (0.9 in)
Weight: approx. 110 g

LEICA Dissolve- control units

Specifications and Technical Data

TIME-CODE

Accessory for the LEICA DU-24 IR PC in conjunction with LEICA DCP software. Precise synchronisation between the dissolve program and sound. It is fast and easy to check the finished

programs. Time referral is perfectly in rhythm. Already built-in to the new unit, or available as an accessory for already existing DU-24 IR PC control unit (order numbers on page 8-23).

Software LEICA DCP

The programming of a dissolve show can also be done with the software LEICA DISSOLVE CONTROL PROGRAM directly via the edit RS 232 with an IBM compatible personal computer (PC). When transferring the data signals onto tape or cassette, the synchronization is done with programmable SYNC-marks.

Multivisual shows can be arranged by connecting several LEICA DU-24 IR PC control units together. Up to six projectors can be controlled by up to three dissolve units. The programming of a multivisual show is also done with the LEICA DISSOLVE CONTROL PROGRAM software and an IBM compatible PC.

LEICA Dissolve-control units

Specifications and Technical Data

Digitally functioning slider for DU-24 IR PC as of version number 1.10 (older units can be modified by the Leica Camera Service Center). To be connected via the REMOTE socket. "FLIP" key for fast image change. Separate slide transport keys, "forwards" and "reverse". Effects, such as freezing a fade-over, rocking between two images. Free choice of fade-cover times by varying the sliding speed. Reverse fade-overs are possible. All dissolving effects can be recorded with a multi-channel soundtrack or cassette recorder. This



makes synchronisation of sound with the projectors easy. Connection cable 1.70 m (5 ½ ft) long. Extension is not possible.

Dimensions and weight:

Length: 165 mm (6.5 in)

Width: 60 mm (2.4 in)

Height: 25 mm (1 in)

Weight: 280 g.

Slider for DU-24 IR PC

With this console, two projectors are set up vibration-free above one another. This saves space and moves the optical axis of the dissolve projectors as closely together as possible (optimal registration of the projected image). Two rubber strips ensure secure installation.

Dimensions and weight:

Length: 325 mm (12.8 in)

Width: 355 mm (14 in)

Height: 300 mm (11.8 in)

Weight: 4.2 kg



Dissolve projection console

LEICA Dissolve-control units

LEICA DU-24 IR

Specifications and Technical Data



For two projectors which are equipped with TRIAC and 14-pin socket according to DIN IEC 574, part 18 A 1. Recording capability of data signals onto cassette and tape.

Description and functions:

- Control unit for soft and hard dissolves.
- Selectable dissolve times: (CUT (hard dissolve), 2 s and 6 s, or 1 s, 3 s and 10 s.
- Timer operation with 2 different dissolve times and 3 different intervals.
- 24 V power supply through the projectors with built-in TRIAC for lamp control.
- Standardized digital data signal controls the dissolve of the projectors.
- A signal can be recorded on a compatible multi-channel tape or cassette recorder without difficulty. Also, the recording can be done with AV tape or cassette recorder (free-head).
- The connection is done via a 6-pin socket or cinch socket.
- Two marked cables [each 1.70 m (5'6'')] connect control unit and projectors.
- LED display shows sequence of functions and status display of projectors.

Control unit buttons and functions:

- “LINE-UP” / “RESET” button: For basic focus setting, to line up the projectors and to reset the projectors to the starting position.
- “DISS” button (dissolve): To start the dissolve process, six different dissolve times can be selected.
- When “DISS” and “LINE UP” / “RESET” are pressed simultaneously, a reverse dissolve follows.
- “SYSTEM” switch: for the adaptation of the projectors being used.
- “PRESET” switch: for the selection of one of the two dissolve time-series.
- “MODE” switch: for recording (“REC”), replay (“PLAY”), to pre-magnatize and erase with free-head recording instruments (“ERASE”), in addition it is used for the selection of 3 different slide intervals in timer operation.

Infrared remote control:

- Cable free remote control up to a range of approx. 20 m (66 ft).
- Three buttons for the different dissolve times of the selected dissolve time-series; with subsequent slide change.
- Focus button for manual focus correction (Override) of the projecting projector.
- “REV” button for a reverse step of the slide magazine and subsequent reverse dissolve.

Cable remote control:

- A 3 m (9.8 ft) long separate cable remote control from the projectors LEICA P 155 and LEICA P 255 (code no. 37 318).
- Distances of up to 50 m (164 ft) are possible with 10 m (33 ft) extension cords (code no. 37 319).
- Six dissolve times and reverse dissolve.
- Focus button for manual focus correction (Override) of the projecting projector.
- Lightpointer

Compatible projectors:

- All automatic 35 mm projectors which have a TRIAC and a 14-pin socket are compatible with the control unit DU-24 IR. 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, 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 weights:

Dissolve unit:

Length: 176 mm (6.9 in)

Width: 111 mm (4.4 in)

Height: 44 mm (1.7 in)

Weight: approx. 560 g

IR Remote control

Length: 134 mm (5.3 in)

Width: 57 mm (2.2 in)

Height: 22 mm (0.9 in)

Weight: approx. 110 g

LEICA Dissolve-control units

Specifications and Technical Data

LEICA DU-24 MT



For manual dissolve control with two projectors and without 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 and dissolve times 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 P2002, LEICA P2000, PRADOVIT COLOR 2, LEICA P155 DU/P255 DU, PRADOVIT P300/P300 IR, PRADOVIT P600/P600 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
DU-24 M2**



For manual dissolve control of two projectors without recording capability.

Description and functions:

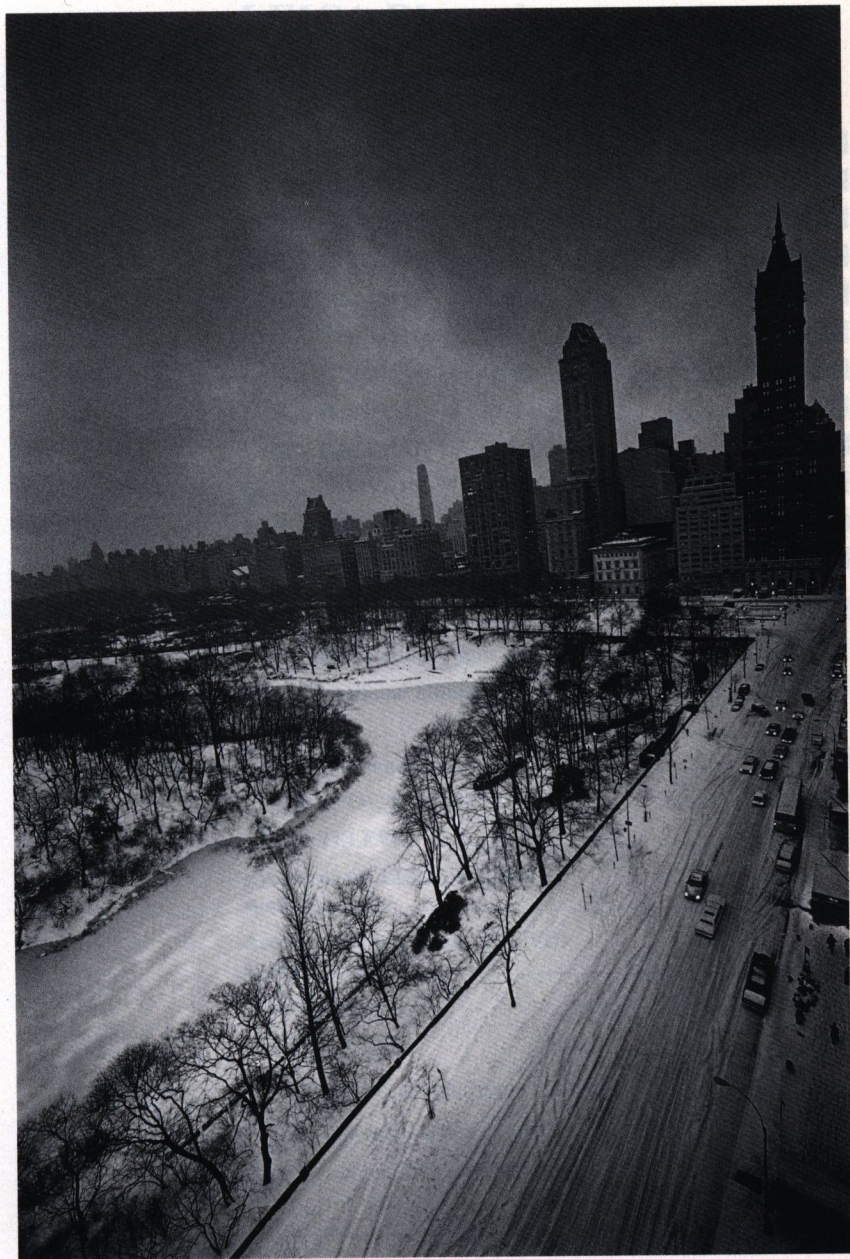
- Housing with slider.
- No dissolve time limits:
The fade-in and fade-out of the projectors is set by the speed in which the slider is moved.
- Slide change of the "dark" projector is done through integrated switches in the end position of the control unit.
- The projectors are connected to the control 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



LEICA M6
ELMARIT-M f/2.8/28 mm
Frieder Blickle

Note: Telescope-Ocular LEICA TO-R
for LEICA R lenses

LEICA Binoculars

LEICA Spotting scopes

Product Range	LEICA binoculars _____	9- 3
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	LEICA TRINOVID 10 x 25 BC and BCA _____	9- 5
	LEICA TRINOVID 8 x 32 BA _____	9- 6
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	LEICA TRINOVID 8 x 42 BA _____	9- 8
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	PHOTOADAPTER	
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	Protective covers (replacement)	
	Tripod connections (replacement)	

Specifications	_____	9-25
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Note	Telescope-Ocular LEICA TO-R for LEICA R lenses _____	2-41
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Product Range of LEICA Binoculars

Model	Magnification	Lens diameter	Exit pupil	Twilight factor	M/° field of view at 1000 m	Approx. weight	Dimensions Width Depth Height	Code	Page
8 x 20 BC	8 x	20 mm	2.5 mm	12.65	115 m/6.3	220 g	60 mm 35 mm 92 mm	40 305	9- 4
8 x 20 BCA green	8 x	20 mm	2.5 mm	12.65	115 m/6.3	225 g	60 mm 35 mm 92 mm	40 307	9- 4
8 x 20 BCA black	8 x	20 mm	2.5 mm	12.65	115 m/6.3	225 g	60 mm 35 mm 92 mm	40 309	9- 4
10 x 25 BC	10 x	25 mm	2.5 mm	15.8	95 m/5.4	240 g	60 mm 36 mm 110 mm	40 306	9- 5
10 x 25 BCA green	10 x	25 mm	2.5 mm	15.8	95 m/5.4	245 g	60 mm 36 mm 110 mm	40 308	9- 5
10 x 25 BCA black	10 x	25 mm	2.5 mm	15.8	95 m/5.4	245 g	60 mm 36 mm 110 mm	40 310	9- 5

8 x 32 BA black	8 x	32 mm	4.0 mm	16	135 m/7.7	625 g	117 mm 45 mm 112 mm	40 011	9- 6
7 x 42 BA black	7 x	42 mm	6 mm	17.2	140 m/8	890 g	130 mm 57 mm 141 mm	40 013	9- 7
7 x 42 BA green	7 x	42 mm	6 mm	17.2	140 m/8	890 g	130 mm 57 mm 141 mm	40 240	9- 7
8 x 42 BA black	8 x	42 mm	5.25 mm	18.3	130 m/7.44	890 g	130 mm 57 mm 141 mm	40 012	9- 8
8 x 42 BA green	8 x	42 mm	5.25 mm	18.3	130 m/7.44	890 g	130 mm 57 mm 141 mm	40 239	9- 8
10 x 42 BA black	10 x	42 mm	4.2 mm	20.5	110 m/6.3	890 g	130 mm 57 mm 137 mm	40 014	9- 9
10 x 42 BA green	10 x	42 mm	4.2 mm	20.5	110 m/6.3	890 g	130 mm 57 mm 137 mm	40 241	9- 9
8 x 50 BA black	8 x	50 mm	6.25 mm	20	115 m/6.6	1150 g	135 mm 72 mm 181 mm	40 066	9-10
10 x 50 BA black	10 x	50 mm	5 mm	22.36	115 m/6.6	1150 g	135 mm 72 mm 178 mm	40 067	9-11

B = Viewing with eyeglasses

C = Compact binoculars

A = Rubber armored

7 x 42 BDA black	7 x	42 mm	6 mm	17.15	120 m/6.87	1490 g	177,5 mm 80.5 mm 205.5 mm	40 022	9-12
7 x 42 BD black	7 x	42 mm	6 mm	17.15	120 m/6.87	1350 g	177,5 mm 80.5 mm 205.5 mm	40 023	9-13

B = Viewing with eyeglasses

D = Distance Meter

A = Azimuth Measurement

LEICA Binoculars

LEICA TRINOVID

8x20 BC

8x20 BCA

Compact binoculars



LEICA TRINOVID
8x20 BC



LEICA TRINOVID
8x20 BCA

Compact high-performance binoculars. Ideal where compact light-weight binoculars

are required. Metal construction.

LEICA TRINOVID 8x20 BC

with neck cord

Order No. 40 305

LEICA TRINOVID

8x20 BCA green

with neck cord

Order No. 40 307

LEICA TRINOVID

8x20 BCA black

with neck cord

Order No. 40 309

Accessories for

8x20 BC and 8x20 BCA

Soft nappa leather case

Order No. 42 198

Magnification:

Lens diameter:

Exit pupil:

Twilight factor:

Field:

Close-range focus to:

8x

20 mm

2.5 mm

12.65

6.3° = 115 m at 1000 m
range

3 m (10 ft)

Central drive, true internal focusing.

Optical adjustment

± 3.5 diopters.

Adjustable eyecups, interchangeable soft rubber support.

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 or green enamelled.

Dimensions (folded):

60 mm (2.4 in) wide,

35 mm (1.4 in) deep,

92 mm high (3.6 in)

Weight:

BC 220 g, BCA 225 g

Detailed product description on page 9-15.



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)

Central drive, true internal focusing.
Optical adjustment ± 3.5 diopters.
Adjustable eyecups, interchangeable soft rubber support.
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 or green enamelled.

Dimensions (folded):
60 mm (2.4 in) wide,
36 mm (1.4 in) deep,
110 mm (4.3 in) high.

Weight:
BC 240 g, BCA 245 g

Detailed product description on page 9-15.

**LEICA TRINOVID
10 x 25 BC**

with neck cord

Order No. 40 306 _____

**LEICA TRINOVID
10 x 25 BCA green**

with neck cord

Order No. 40 308 _____

**LEICA TRINOVID
10 x 25 BCA black**

with neck cord

Order No. 40 310 _____

**Accessories for
10 x 25 BC and 10 x 25 BCA**
Soft nappa leather case

Order No. 42 199 _____

LEICA Binoculars

LEICA TRINOVID 8x32 BA

All-purpose binoculars



Lightweight, handy precision binoculars with wide field of view (135/1000 m), good light transmission with

exceptional close focus to 3.25 m (10.66 ft). Sliding eyecup. Metal construction.

Magnification:	8x
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:	3.25 m (10.66 ft.)

Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Diopter adjustment: greater than ± 3.0 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: 117 mm (4.6 in),
depth: 45 mm (1.8 in),
height: 112 mm (4.4 in)

Weight: 625 g

Detailed product description on page 9-16.

LEICA TRINOVID 8x32 BA black

with carrying strap and non-slip pad, eyepiece cover, soft nappa leather ever ready case

Order No. **40 011** _____

LEICA TRINOVID 7x42 BA

*Hunting and
night binoculars*



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. Sliding eyepiece sleeve. Metal construction.

Magnification:	7x
Lens diameter:	42 mm
Exit pupil:	6 mm
Twilight factor:	17.1
Field:	8° = 140 m at 1000 m range
Close-range focus to:	6.3 m (20 ft)

Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Optical adjustment greater than ± 3.0 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 poly-

urethane. 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

Detailed product description on page 9-16.

LEICA TRINOVID 7x42 BA black

with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

Order No. 40 013

LEICA TRINOVID 7x42 BA green

with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

Order No. 40 240

LEICA Binoculars

LEICA
TRINOVID
8x42 BA

Universal binoculars



Universal wide-field binoculars with medium magnification and large exit pupil. Enhanced performance for daylight and twilight viewing. Sliding eyepiece sleeve. Metal construction.

**LEICA TRINOVID
8x42 BA black**
with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

Order No. 40 012

**LEICA TRINOVID
8x42 BA green**
with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

Order No. 40 239

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:	5.3 m (17 ft)

Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Optical adjustment greater than ± 3.0 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 Detailed product description on page 9-16.

LEICA TRINOVID 10 x 42 BA

Universal binoculars



Universal high-performance binoculars with high magnification and extreme close-range focusing. Especially suitable for daylight and twilight viewing, in bird-

watching, the observation of animals in general, hunting, and the inspection of architectural and structural details. Sliding eyepiece sleeve. Metal construction.

Magnification:	10 x
Lens diameter:	42 mm
Exit pupil:	4.2 mm
Twilight factor:	20.5
Field:	6.3° = 110 m at 1000 m range
Close-range focus to:	4.6 m (15 ft)

Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Optical adjustment greater than ± 3.0 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 polyure-

thane. 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

Detailed product description on page 9-16.

LEICA TRINOVID 10 x 42 BA black

with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

Order No. 40 014

LEICA TRINOVID 10 x 42 BA green

with carrying strap and non-slip pad, eyepiece cap, soft nappa leather ever-ready case

Order No. 40 241

LEICA Binoculars

LEICA TRINOVID 8 x 50 BA

*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:	5.4 m (17 ft 9 in)

LEICA TRINOVID 8 x 50 BA black

with Neoprene carrying-strap (40 mm, 1.6 in wide), eyepiece cover and a soft nappa leather ever ready case

Order No. 40 066

Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft).

Optical adjustment, at least ± 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

Detailed product description on page 9-16.



LEICA TRINOVID 10 x 50 BA

*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 4.80 m (15 ft 9 in) permits detailed viewing of objects in closer range.

Magnification:	10 x
Lens diameter:	50 mm
Exit pupil:	5 mm
Twilight factor:	22.36
Field:	6.6° = 115 m (377 ft) at 1000 m (3280 ft) range
Close-range focus to:	4.8 m (15 ft 9 in)

Central drive, true internal focusing, waterproof to a depth of 5 m (16 ft). Optical adjustment, at least ± 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

Detailed product description on page 9-16.

**LEICA TRINOVID
10 x 50 BA black**
with Neoprene carrying-
strap (40 mm, 1.6 in wide),
eyepiece cover and a soft
nappa leather ever ready
case

Order No. **40 067**

LEICA GEOVID 7x42 BDA

*Multi-functional,
high-tech binoculars
with integrated infrared
distance meter and
electronic compass.*



CLASS 1
LASER PRODUCT

Optics:

Magnification: 7x
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 and salt water
resistant (DIN-standard)
Power supply: 6 V 2CR5
long-life lithium battery
Capacity: approx. 1000
distance/azimuth measure-
ments
Eye safety rating: Class 1
according to IEC
Operational temperature
range: -25° to $+55^\circ$ C
Storage temperature range:
 -35° to $+85^\circ$ C
Tripod thread: A 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

Detailed product description
on page 9-17.

LEICA GEOVID 7x42 BDA

with Neoprene carrying
strap, eyepiece covers,
battery and nappa leather
case

Order No. 40 022 _____

LEICA GEOVID 7x42 BD

*High-tech binoculars
with integrated
infrared
distance meter*



Optics:

Magnifications: 7x
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 and salt water
resistant (DIN standard)
Power supply: 6 V lithium
battery (type 2 Cr 5)
Capacity: approx. 1000 dis-
tance measurements
Eye safety rating: Class 1
according to IEC
Operational temperature
range: -25° to $+55^{\circ}\text{C}$
Storage temperature range:
 -35° to 85°C
Tripod thread: A 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 description
on page 9-17.

CLASS 1
LASER PRODUCT

LEICA GEOVID 7x42 BD

with Neoprene carrying
straps protective cover
and battery

Order No. 40 023

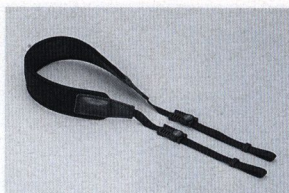
LEICA GEOVID 7x42 BD (yard)

Measurements in yards
with Neoprene carrying
straps, protective cover
and battery

Order No. 40 024

LEICA Binoculars

Accessories



Neoprene carrying strap



Floating carrying strap

Order No. 42 162 _____

Order No. 42 163 _____

Order No. 42 159 _____

Order No. 42 162 _____

Neoprene carrying strap, 40 mm wide

Floating carrying strap¹⁾

Black carrying strap out of perlon fabric, 16 mm wide, with non-slip pad for all TRINOVID BA binoculars (replacement)

Neoprene carrying strap for GEOVID (replacement)

Order No. 42 142 _____

Order No. 42 143 _____

Black pair of rubber eye cups (replacement) for TRINOVID 8 x 20 BC and BCA and 10 x 25 BC and BCA

Green pair of rubber eye cups (replacement) for TRINOVID 8 x 20 BC and BCA and 10 x 25 BC and BCA

Order No. 42 156 _____

Order No. 42 144 _____

Order No. 42 129 _____

Order No. 42 200 _____

Black eyepiece cap (replacement) for TRINOVID BA binoculars 8 x 32 with sliding eyepiece sleeves

Black eyepiece cap (replacement) for TRINOVID BA binoculars 7/8/10 x 42 and 8/10 x 50 with sliding eyepiece sleeves

Green eyepiece cap (replacement) for all TRINOVID BA binoculars with sliding eyepiece sleeves

Eyepiece cap for GEOVID (replacement)

Order No. 42 198 _____

Order No. 42 199 _____

Order No. 42 172 _____

Order No. 42 166 _____

Order No. 42 205 _____

Order No. 42 164 _____

Order No. 42 211 _____

Order No. 42 210 _____

Black soft nappa leather case for TRINOVID 8 x 20 BC and 8 x 20 BCA

Black soft nappa leather case for TRINOVID 10 x 22 BC and 10 x 25 BCA

Black nappa leather case for TRINOVID 8 x 32 BA

Black nappa leather case for all TRINOVID 42's BA binoculars with sliding eyepiece sleeves

Black nappa leather case for all TRINOVID 50's BA binoculars

Ever ready case for GEOVID 7 x 42 BD, for GEOVID 7 x 42 BDA (replacement)

Ever-ready case for TRINOVID 8 x 32 BA (Cordura, black with belt strap and belt loop)

Ever-ready case for TRINOVID 7 / 8 / 10 x 42 BA (Cordura, black, with belt strap and belt loop)

¹⁾ If the LEICA binoculars fall overboard, the bright colored, floating carrying strap keeps them afloat so that them can be spotted and recovered.

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.

Maintenance-free.

Their true internal focusing system makes these binoculars absolutely dust- and spray water-proof.

High-performance optics:

The special layout of the optical paths gives these binoculars their elegant flat shape.

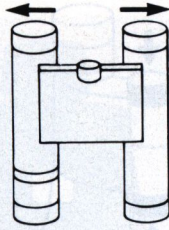
All glass-to-air surfaces specially coated for perfect contrast and a bright image to match the human eye's maximum sensitivity.

Pentaprisms made to extremely close angular tolerances for maximum accuracy. Stringent quality control in the selection of all optical elements. Lenses, prisms, and eyepieces are carefully matched.

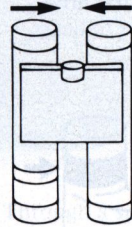
Shockproof prism mounts fitted with precision-adjusted prisms.

The two optical systems produce the same magnification and are in perfect parallel alignment for fatigue- and headache-free long-term viewing.

Optics designed for extra-



Position for viewing



Position for carrying and storage

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 TRINOVID

8x20 BC/BCA

10x25 BC/BCA

LEICA Binoculars *Specifications*

LEICA TRINOVID

8x32 BA

7x42 BA

8x42 BA

10x42 BA

8x50 BA

10x50 BA

Precision mechanical system:

Compact modern construction reduces the overall volume as compared with conventional binoculars. Functional, ergonomic design for fatigue-free viewing.

New-type of central drive. Central focusing and optical adjustment to user's visual acuity by triple-function combination central drive.

Strong all-metal body ensures perfect long-term retention of adjustment and maximum protection of all optical and mechanical components. Fully enclosed body covered in shock-absorbent, non-slip, sound-absorbent polyurethane armoring.

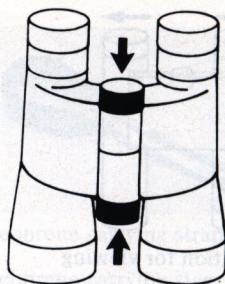
Special optical design and sliding eyecups also suitable for use with spectacles.

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).

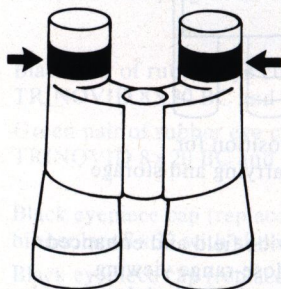
Working temperature range from -25°C to +55°C (-13°F to 131°F).

Short focusing path for fast location of focusing plane.



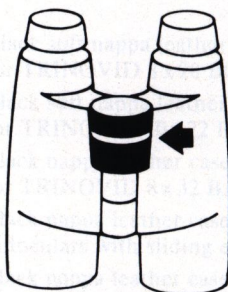
Conventional central drive:

Separate knob for optical adjustment



Single-eyepiece focusing:

No combined control of the two optical systems



New-type central drive:

Combined control of both optical systems

High-performance optics:

Stringent quality control in the selection of all optical elements. Lenses, prisms, and eyepieces are carefully matched. For perfect contrast and a bright image, multiple coating of all glass-to-air surfaces to match the human eye's maximum sensitivity.

Hard-coated external lens and eyepiece surfaces. Phase-corrected coating of pentaprisms made to extremely close angular tolerances for maximum accuracy. Shockproof prism mounts fitted with precision-adjusted prisms.

The two optical systems produce the same magnification and are in perfect parallel alignment for fatigue- and headache-free long-term viewing.

Optics for extended wide-field and enhanced close-range viewing.

Made in Germany.

30 years' warranty.



LEICA GEOVID

7x42 BDA

7x42 BD

7x42 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 $+55^{\circ}\text{C}$.

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 provides 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

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 7x42 BDA (A = Azimut)

Additionally for

LEICA GEOVID

7x42 BDA

sensors determine the effects of gravity to compensate for a $\pm 35^{\circ}$ binocular tilt. LED display in center of field of view adjusts to brightness of ambient light.

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	

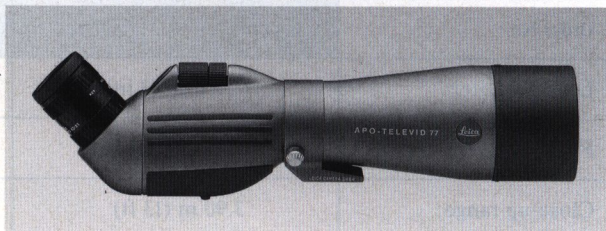
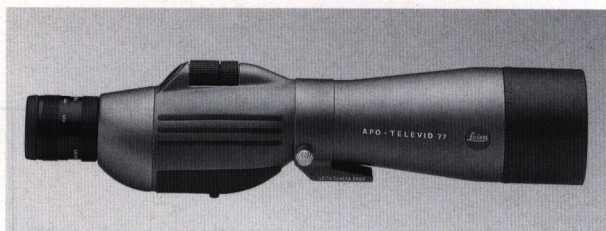
LEICA

Spotting scopes

LEICA

APO-TELEVID 77

*High performance
spotting scope*



LEICA
APO-TELEVID 77
(with straight sight)
with front and rear
covers, tripod thread
1/4" to 3/8"

Order No. **40 104**

LEICA
APO-TELEVID 77
(with angular sight)
with front and rear
covers, tripod thread
1/4" to 3/8"

Order No. **40 102**

Color neutral viewing due
to special fluorite glass.
Dual focusing for more con-
venient operation. Robust,
waterpressure tight, alumi-
nium 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)

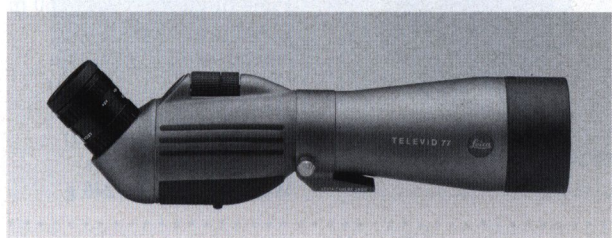
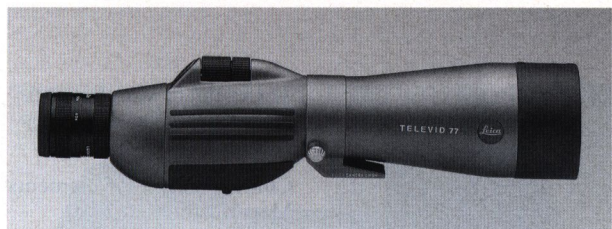
- Metal housing
(aluminium alloy)
- Lens diameter 77 mm
(3 in)
- Eyepiece bayonet
- Adjustable $\infty + 5$ dpt.
- Large, rotatable tripod
socket (tripod thread 1/3"
and 3/8")
- Elegant design

Detailed product description
on page 9-25.

Lens diameter:	77 mm (3 in)
Focal length:	440 mm (17.3 in)
Close-up range:	3,90 m (13 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 ∞ + 5 dpt.
- Large, rotatable tripod socket (tripod thread 1/3" and 3/8")
- Elegant design

Detailed product description on page 9-25.

Lens diameter:	77 mm (3 in)
Focal length:	440 mm (17.3 in)
Close-up range:	3.90 m (13 ft)
Length:	390 mm (15 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" to 3/8"
Order No. **40 103**

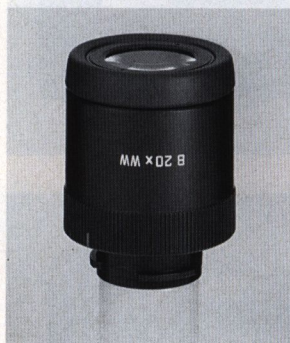
LEICA TELEVID 77
(with angular sight)
with front and rear covers, tripod thread 1/4" to 3/8"
Order No. **40 101**

Eyepieces for LEICA TELEVID spotting scopes

B 20 x WW EYEPIECE

B 20 x WW EYEPIECE
with bayonet cover and
protective cover, case

Order No. 41 002 _____



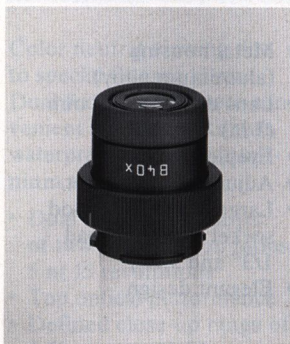
20 x eyepiece with top optical performance and exceptionally large field of view

Composition: 6 elements
Magnification: 20 x
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 eyecups: yes
Weight: 246 g

B 40 x EYEPIECE

B 40 x EYEPIECE
with bayonet cover and
protective cover, case

Order No. 41 003 _____



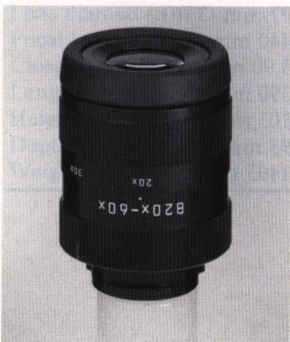
High magnification 40 x eyepiece with top optical performance and exceptionally compact construction.

Composition: 6 elements
Magnification: 40 x
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 eyecups: yes
Weight: 102 g

B 20 - 60 x ZOOM- EYEPIECE

**B 20 - 60 x
ZOOM-EYEPIECE**
with bayonet cover and
protective cover, case

Order No. 41 001 _____



Zoom eyepiece with above average performance, universally usable.

Composition: 8 elements
Magnification: 20 to 60 x
Exit pupil: 3.85 mm to 1.28 mm
Field of view: 1.9° to 1.1° 34 to 19 m
Length (with eyecup pushed in): 73 mm (2.9 in)
Diameter: 53 mm (2 in)
Sliding eyecups: yes
Weight: 249 g

LEICA Spotting scopes Accessories

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. 250 g

PHOTO ADAPTER
with front and rear covers, case

Order No. 42 300 _____

LEICA

Spotting scopes

Accessories

Ever ready cases

Ever ready cases
for LEICA TELEVID
models
with **angular sight**
Order No. **42 310** _____

Due to the special style, the spotting scope can also be used in the ever ready case.

Ever ready case
for LEICA TELEVID
models
with **straight sight**
Order No. **42 315** _____

Due to the special style, the spotting scope can also be used in the ever ready case.

Order No. **14 319** _____
Order No. **42 325** _____
Order No. **42 340** _____

Front cover for LEICA TELEVID models (replacement)

Rear cover for LEICA TELEVID models (replacement)

Tripod connection with 1/4" or 3/8" (replacement)

Order No. **42 326** _____
Order No. **42 327** _____
Order No. **42 328** _____

Bayonet cover for LEICA TELEVID EYEPIECES (replacement)

Protective cover for B 20 x WW EYEPIECE and B 20 - 60 x ZOOM EYEPIECE (replacement)

Protective cover for B 40 x EYEPIECE (replacement)

Order No. **42 329** _____
Order No. **14 268** _____
Order No. **14 162** _____
Order No. **42 305** _____

Front cover for PHOTO ADAPTER (replacement)

Rear cover for PHOTO ADAPTER (T2 thread / replacement)

Rear cover for PHOTO ADAPTER (LEICA bayonet / replacement)

T2 adapter for PHOTO ADAPTER
on LEICA R / LEICAFLEX / LEICAFLEX SL/SL 2

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 3.9 m (13 in) to ∞ .

Exceptionally large support surface on the tripod connection; rotatable in 45° steps. Changeable eyepieces with locking sliding 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.

Special optical lay-out and sliding rubber eyecups to adapt for eyeglass wearers.

Surpassing field of view with the B 20 x WW EYEPIECE of 3.45°, 60 m. Made in Germany.

Technical information

LEICA Program general	LEICA Carrying straps, Chart and Description	10- 2
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LEICA equipment, Battery chart	10- 3
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LEICA R and M Cameras and Lenses	Flash synchronization for LEICA cameras	10- 4
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Which LEICA WINDER for which LEICA M	10- 7
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Adaptation of lenses	10- 8
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Conversion of lenses

CL lenses on LEICA M cameras

Existing 28 mm lenses on the LEICA M4-P

Existing M lenses on the LEICA M6

Interchangeable lenses of the LEICA M range
on the LEICA CL

Existing interchangeable lenses on the LEICA M5

Projection	Lamps	10-13
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Production distances and screen image sizes	10-14
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The versatile possibilities of combination in the projector range in fade projection	10-15
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Connection of the dissolve unit to tape or to cassette recorders	10-16
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List of LEICA models (Family Tree)	10-18
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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	14312	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	14235	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 R 2.8/400 mm	14311	Wide Nylon strap, plastic snap lock	R 2.8/400 mm	R 2.8/400 mm lens, case for R 2.8/400 mm lens
Neoprene carrying strap	42162	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-binoculars of the 50's series	Excellent carrying comfort, e.g. on BA binoculars, LEICA R-camera with drive or winder and heavy lens up to approx. 180 mm focal length
Floating carrying strap	42163	Orange colored, floatable wide Neoprene version, without hooks		BA binoculars when used near water
Binocular carrying strap with slip-guard	42159	Nylon strap with vulcanised slip-guard	BA binoculars (32, and 42 versions)	BA binoculars (32, and 42 versions)

LEICA Program

LEICA equipment, Battery chart

LEICA R-cameras (2 required, 4 for LEICA R 7) LEICA M6 (2 required) Databack R4/DB 2 (2 required)	Silver oxide button cells (1.5 V): 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
LEICA R-cameras (1 required, 2 for LEICA R 7) LEICA M6 (1 required)	Lithium cells (3 V): Duracell DL 1/3 N Kodak K 58 L Philips CR 1/3 N Ucar 2L 76 Varta CR 1/3 N
LEICAFLEX / SL LEICA M5, LEICA CL LEICAMETER MR (1 required) LEICAFLEX SL 2 (2 required)	Mercury button cells (1.35 V): Duracell PX 625 Ucar EPX 625 Varta V 625 PX
LEICA AF-CI LEICA C2-ZOOM (1 required) GEOVID 7 x 42 BDA GEOVID 7 x 42 BD / BD (yards) (1 required)	Lithium batteries (6 V): 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

LEICA mini LEICA mini II LEICA mini zoom LEICA minilux (1 required)	Lithium cells (3 V): Duracell DL 123 A Kodak K 123 LA Panasonic CR 123 A Sanyo CR 123 A Ucar EL 123 A Varta CR 123 A
Remote control IR PCM, PRADOVIT P 150 IR LEICA P 155/255 IR PRADOVIT P 300 IR PRADOVIT P 600 IR (1 required)	Alkali manganese batteries (9 V): Duracell MN 1604 Kodak K 9V Ucar 522 Varta 4022
Remote control for DU-24 IR/PC (4 required)	Alkali manganese cells (Micro 1.5 V): Duracell MN 2400 Kodak K 3A Philips LR 03 Ucar E 92 Varta V 2400 PX Varta 4003
Databack for LEICA AF-C1, LEICA mini/II LEICA mini zoom LEICA minilux (1 required)	Lithium button cells (3 V): Maxell CR 2025 Panasonic CR 2025 Sony CR 2025 Varta CR 2025
MOTOR-WINDER- R/R3/R4 (6 required) MOTOR-DRIVE-R/R4, Motor for LEICAFLEX SL/SL2 mot (10 required) MOTOR-WINDER- M/M4-2/M4-P (4 required)	Alkali manganese cells (Mignon 1.5 V): Duracell MN 1500 Kodak KAA Ucar E 91 Varta 4006 Varta V 1500 PX Alternativ: NC-recharge- able batteries
IR remote exposure release for LEICA C2-ZOOM (2 required, can only be changed by Service department)	Lithium button cells (3 V): Sony CR 1220 Ucar CR 1220 Varta CR 1220 Panasonic CR 1220

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 (1/90) 4 s → 1/60, B	—	B → ⚡ (= 1/100)	—
Flashbulbs	AG 1 AG 3 cube	1 → 1/30, B	1/2 → 1/30, B	1 → 1/30, B	4 s → 1/30, B	—	1 → 1/30, B	1 → 1/60
	PF 1 XM 1	1 → 1/30, B	1/2 → 1/30, B	1 → 1/30, B	4 s → 1/30, B	—	1 → 1/30, B	1 → 1/15
	M 2	1 → 1/60, B	1/2 → 1/60, B	1 → 1/60, B	4 s → 1/60, B	—	1 → 1/60, B	—
	PF 5	1 → 1/30, B	1/2 → 1/30, B	1 → 1/30, B	4 s → 1/30, B	1/125 → 1/1000	1 → 1/30, B	1 → 1/125
	M 3 GE 5 B	1 → 1/30, B	1/2 → 1/30, B	1 → 1/30, B	4 s → 1/30, B	1/125 → 1/1000	1 → 1/30, B	1 → 1/250
	FP 26 PF 6	1 → 1/15, B	1/2 → 1/15, B	1 → 1/15, B	4 s → 1/15, B	1/30 → 1/1000	1 → 1/15, B	—

* for flash pictures the camera must be set at "Manual", 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		red  (= 1/30)  (= 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
Flashbulbs	AG 1 AG 3 cube M 2		—		—		—	
	AG 1 AG 3 cube		—		1/15	2	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		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		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		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		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	6	T, 1 → 1/8	6
			B, T	2	1 → 1/10	6	B	9
		* 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

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, diameter 39 mm,
7 = Series filter size 7

Lens		Filter size
ELMARIT-M	f/2.8/ 21 mm	E 60
SUPER-ANGULON	f/3.4/ 21 mm	E 48 or 7
SUPER-ANGULON	f/4 / 21 mm	E 39
ELMARIT	f/2.8/ 28 mm	E 48 or 7
ELMARIT-M (from Serial No. 3 585 865)	f/2.8/ 28 mm	E 46
SUMMARON	f/5.6/ 28 mm	A 36
HEKTOR	f/6.3/ 28 mm	A 36
SUMMILUX	f/1.4/ 35 mm	E 41
SUMMILUX (from Serial No. 2 166 701)	f/1.4/ 35 mm	7
SUMMILUX-M Aspherical	f/1.4/ 35 mm	E 46
SUMMILUX-M ASPH.	f/1.4/ 35 mm	E 46
SUMMICRON	f/2 / 35 mm	E 39
SUMMICRON (from Serial No. 2 307 451)	f/2 / 35 mm	7
SUMMICRON (from Serial No. 2 483 504)	f/2 / 35 mm	E 39 or 7
SUMMICRON (from Serial No. 2 974 251)	f/2 / 35 mm	E 39
SUMMARON	f/2.8/ 35 mm	E 39
ELMAR	f/3.5/ 35 mm	A 36
SUMMARON (screw-thread)	f/3.5/ 35 mm	A 36
SUMMARON (screw-thread, from Serial No. 1 423 141)	f/3.5/ 35 mm	E 39
SUMMARON (bayonet)	f/3.5/ 35 mm	E 39
SUMMICRON-C	f/2 / 40 mm	5.5
NOCTILUX	f/1 / 50 mm	E 58
NOCTILUX (from No. 2 919 657)	f/1 / 50 mm	E 60
NOCTILUX	f/1.2/ 50 mm	8
SUMMILUX	f/1.4/ 50 mm	E 43
SUMMARIT	f/1.5/ 50 mm	E 41
SUMMAR	f/2 / 50 mm	A 36
SUMMITAR	f/2 / 50 mm	E 36.5
SUMMICRON-M	f/2 / 50 mm	E 39
HEKTOR	f/2.5/ 50 mm	A 36
ELMAR	f/2.8/ 50 mm	A 36
ELMAR (screw-thread)	f/3.5/ 50 mm	E 39
ELMAR (screw-thread)	f/3.5/ 50 mm	E 39
ELMAR	f/3.5/ 65 mm	E 41
ELMAR (from Serial No. 2 378 901)	f/3.5/ 65 mm	6
SUMMILUX-M	f/1.4/ 75 mm	E 60
SUMMAREX	f/1.5/ 85 mm	E 58
SUMMICRON	f/2 / 90 mm	E 48
SUMMICRON-M (from Serial No. 2 813 801)	f/2 / 90 mm	E 49
SUMMICRON-M (from Serial No. 3 177 201)	f/2 / 90 mm	E 55
ELMARIT	f/2.8/ 90 mm	E 39
TELE-ELMARIT	f/2.8/ 90 mm	E 39
ELMARIT-M	f/2.8/ 90 mm	E 46
ELMAR (screw-thread)	f/4 / 90 mm	A 36
ELMAR (screw-thread, from No. 1 573 001)	f/4 / 90 mm	E 39
ELMAR (bayonet)	f/4 / 90 mm	E 39
ELMAR-C	f/4 / 90 mm	5.5
HEKTOR	f/2.5/125 mm	E 58
ELMARIT	f/2.8/135 mm	7
ELMARIT (from Serial No. 2 788 927)	f/2.8/135 mm	E 55
ELMAR	f/4 /135 mm	E 39
TELE-ELMAR	f/4 /135 mm	E 39
TELE-ELMAR-M (from Serial No. 3 595 960)	f/4 /135 mm	E 46
ELMAR	f/4.5/135 mm	A 36
HEKTOR (screw-thread)	f/4.5/145 mm	A 36
HEKTOR (screw-thread, from No. 1 416 001)	f/4.5/135 mm	E 39
HEKTOR (bayonet)	f/4.5/135 mm	E 39
TELYT	f/4 /200 mm	E 58
TELYT	f/4.5/200 mm	E 48
TELYT	f/4.8/280 mm	E 58
TELYT (from Serial No. 2 340 953)	f/4.8/280 mm	8
TELYT	f/5 /400 mm	E 85
TELYT	f/5.6/400 mm	7
TELYT	f/6.8/400 mm	7 or 8
TELYT	f/5.6/560 mm	7
TELYT	f/6.8/560 mm	7

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	LEICA M 4-P	LEICA M 4-2	LEICA MD-2
LEICA WINDER M	yes	yes	yes	yes
LEICA WINDER M 4-P	yes	yes	yes	yes
LEICA WINDER M 4-2 from Serial No. 10 350	yes	yes	yes	yes
LEICA WINDER M 4-2 up to Serial No. 10 349	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 utilisation 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.

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

From the stated serial numbers onwards, the following lenses fit on all LEICA R models but no longer on the LEICAFLEX models.

The Leica Camera Service

Center or any authorized workshop can fit the control cams to permit the use of most of these lenses on LEICAFLEX cameras.¹⁾

Can be equipped for LEICAFLEX models

ELMARIT-R f/2.8/24 mm

ELMARIT-R f/2.8/28 mm

ELMARIT-R f/2.8/35 mm

SUMMILUX-R f/1.4/50 mm

MACRO-ELMAR-R

f/2.8/60 mm

SUMMILUX R f/1.4/80 mm

SUMMICRON-R f/2/90 mm

ELMARIT-R f/2.8/90 mm

from 3 428 941, SL 2 models

from 3 367 501, all

from 3 332 801, all

from 3 291 801, all

from 3 335 501, SL/SL2 models

from 3 267 301, no

from 3 381 677, all

from 3 384 201, all

¹⁾ Bayonet-exchange on R-lenses for use on LEICAFLEX-bodies

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. 2411 001 bring the 28 mm frame into the viewfinder of the LEICA M4-P and the LEICA M6. With lenses of earlier production correct

fading-in is not guaranteed. Here we recommend the use of the 28 mm brilliant finder (Code No. 12 009). Conversion of the lens is not possible.

Existing 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. 2314921.

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 M5.

With minor exceptions or restrictions they can also be fully utilized for selective light metering through the lens.

Existing interchangeable lenses on the LEICA M5

Exceptions:

1. When a lens is **collapsible**, collapsibility must be limited to the permissible amount by means of a protective tape. **The lens need not be returned to the factory.** The protective tape is available internationally in various widths from DYMO.
 The tape should surround the lens mount leaving a gap of 1 mm. To obtain the right length, a paper pattern should first be cut.

Collapsible lenses:

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	} Required width of tape 12.7 mm
HEKTOR	f/2.5/50 mm	

Adaptation of lenses

Existing interchangeable lenses on the LEICA M5

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 M5. 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 M5. With these accessories, selective light metering is also possible with photography from the tripod. The measured value is read in the measuring viewfinder of the camera when the mirror is swung out.

The VISOFLEX 2 cannot be used.

Please use only the body cover supplied with the M5.

Attention:

In the LEICA M5 only films in cassettes with standardized spools (to DIN 4535 or ISO 1057 standards) can be used. These spools have drive lugs on both ends. The rewind key of the LEICA M5 engages in the drive lugs facing the camera baseplate.

Projection Lamps

Projectors	Projector lamps												Light pointer lamps	AF-lamp
PRADO S/M PRADO 150					oo	oo								
PRADO 250/500/66 PRADO UNIVERSAL		o				oo	oo	oo						
PRADOVIT I/f PRADOVIT n12			o			oo	oo	oo		oo	oo			
PRADOVIT n24 PRADIX		o							oo			o		
PRADOLUX PRADOVIT COLOR F		o	o							oo	oo		o	
PRADOVIT COLOR 150+ AF PRADOVIT COLOR 250+ AF		o											oo	
PRADOVIT TA/RC PRADOVIT COLOR 110		o		o								o	o	
PRADOVIT R150/RA150 PRADOVIT RA152		o										o	oo	
PRADOVIT C/CA1500 PRADOVIT C/CA2500		o										oo	oo	
PRADOVIT S/SAF PRADOVIT CA2502			o									o		oo
PRADOVIT COLOR, LEICA P2000 PRADOVIT P2002		oo											oo	oo
PRADOVIT 153/153 IR/153 DU LEICA P153/153 IR/153 DU		oo											oo	oo
PRADOVIT P253/253 IR/253 DU LEICA P253/253 IR/253 DU		oo											oo	oo
PRADOVIT P150/P150 IR/P150 DU LEICA P155/155 IR/155 DU		oo											o	
LEICA P255/255 IR/255 DU/P300 PRADOVIT P300 IR			oo										oo	oo
PRADOVIT P600 PRADOVIT P600 IR			oo										oo	oo
Order No.	Watt	Volt	Base											
038-101.93-000	150	24	G 6,35-15											
038-101.098-000	250	24	G 6,35-15											
038-101.092-000	100	12	GX 6,35-13											
038-101.128-000	75	12	GZ 6,35											
038-127.003-013	150	220	P 28 s											
038-127.003-002	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	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	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											
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	BA 9 s											
038-101.073-000	5	6	BA 9 s											
37304	2,8	12												
37307	2	12												
031-049.076-011	3	12	Softenlampe											
031-201.004-022	3	24	Softenlampe											

) = halogen lamp

) = 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.

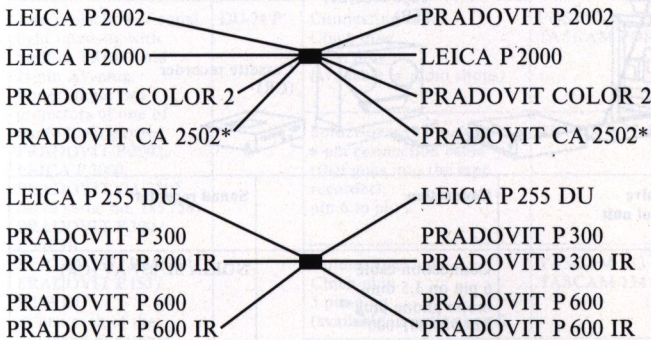
For the projection of 40 x 40 mm slides the given values must be increased by about 10 %.

		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

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 GmbH.

Projectors that can only be combined with units of the same type (250 W):

LEICA P 253 DU ↔ LEICA P 253 DU

Projectors that can only be combined with units of the same type (150 W):

LEICA P 155 DU ↔ LEICA P 155 DU

LEICA P 153 DU ↔ LEICA P 153 DU

Older projectors cannot perform all of the functions of the new control units.

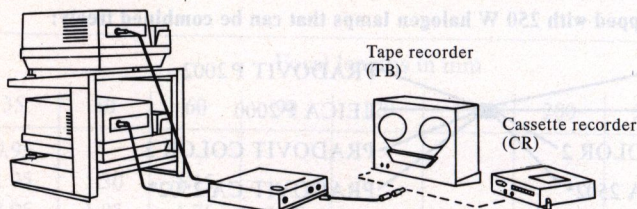
Projection

Connection of the Dissolve Control Unit to a tape recorder or cassette recorder

Projectors

↓
LEICA DU-24 IR / LEICA DU-24 IR PC

↓
tape recorder (TB) / cassette recorder (CR)



Projector	Dissolve control unit	Connection	Sound recorder
<p>Two projectors of the same type with built-in TRIAC and 14-pin AV-plug For example two of one of the following types</p> <p>PRADOVIT P 2002 LEICA P 2000 PRADOVIT COLOR 2 PRADOVIT CA 2502 (as of serial no. 145 758)</p> <p>LEICA P 155/P 255 DU PRADOVIT P 153/P 253 DU PRADOVIT P 300/P 300 IR PRADOVIT P 600/P 600 IR</p>	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*	<p>All units with 3 and more tracks which can record separately</p> <p>FOSTEX X 18 (CR) FOSTEX X 28 H (CR) FOSTEX 280 (CR) FOSTEX GT 10 (CR)</p> <p>YAMAHA MT 120 S (CR)</p> <p>TASCAM 424 (CR) TASCAM 464 (CR) TASCAM 134 (CR) TASCAM 34 B (TB)</p>
	LEICA DU-24 IR PC	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 LEICA DU-24 IR and LEICA DU-24 IR PC outfit

** Available for the customer service department of Leica Camera GmbH, Solms

Projection

**Connection of the
Dissolve Control
Unit to a
tape recorder or
cassette recorder**

Projectors
↓
LEICA DU-24 P

↓
tape recorder (TB) / cassette recorder (CR)

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

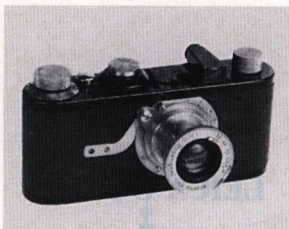
Recording	Play-back		
	LEITZ DU-24 A/P	LEICA DU-24 IR	LEICA DU-24 IR PC
LEITZ DU-24 A/P**	●		
LEITZ DU-24 A/P**	●		●
LEITZ DU-24 IR*		●	
LEITZ DU-24 IR**		●	●
LEITZ DU-24 IR PC**			●

* 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 $\frac{1}{20}$ to $\frac{1}{500}$ 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 - $\frac{1}{300}$ sec. Separate shutter wind and film transport.

LEICA I (with changing mount)

Available from 1930



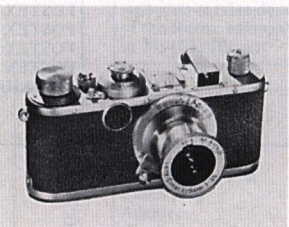
Camera with **screw mount for interchangeable lenses**.

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 1931

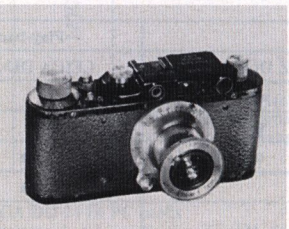


Black enamelled or chromium finished, screw mount for interchangeable lenses, slip-on rangefinder, focal plane shutter $\frac{1}{20}$ to $\frac{1}{500}$ sec., pull-out rewind knob. Serial No. from 100 000.

Available from 1932

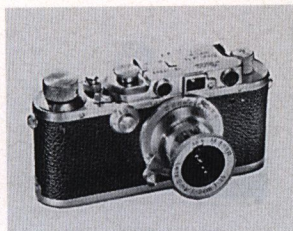
LEICA II

Available from 1932



Black enamelled or chromium finished, with built-in coupled rangefinder, focal plane shutter $\frac{1}{20}$ to $\frac{1}{500}$ sec. and time exposure. Serial 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 1932

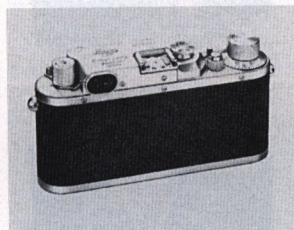
Available from 1933

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.

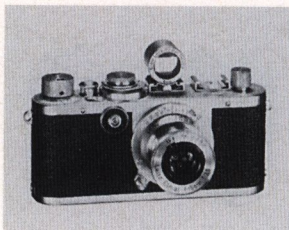
LEICA II c

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.

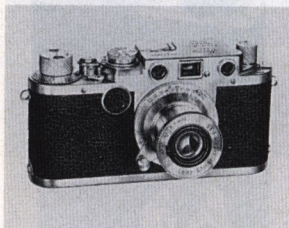
Serial No. from 562 000.

LEICA I f (red synchronizing dial)

Available from 1952

LEICA II f (black synchronizing dial)

Available from 1951



As above, but international shutter speeds $1/25$, $1/50$ sec. etc.

Serial No. from 536 001.

LEICA II f (red synchronizing dial)

Available from 1952

As above, but with international shutter speeds $1/25$, $1/50$ to $1/1000$ 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 $1/1000$ 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:

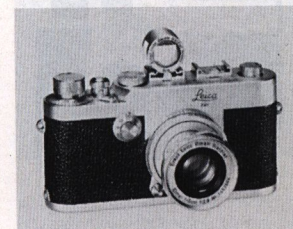
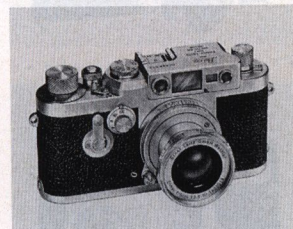
1. Large bright-line viewfinder with automatic parallax compensation.
2. Shutter speeds graduated in geometric progression.
3. Fully automatic synchronization (without contact numbers).
4. Film indicator in the back of the camera body.

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

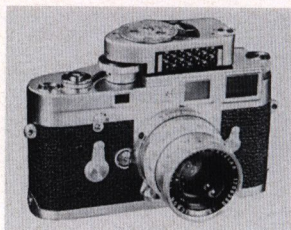
Available from 1957

LEICA I g

Available from 1957

List of the LEICA models

LEICA M3



Bright-line measuring viewfinder with automatic parallax compensation, automatically superimposed image frames for 50, 90 and 135 mm focal length (35 mm frame obtained by use of 35 mm lens with finder attachment). Bayonet mount for rapid lens change. Shutter speed knob engages at each setting from 1 to 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

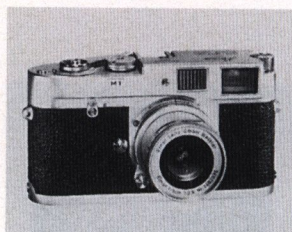
LEICA M2



As LEICA M3, with the following differences: Automatically superimposed image frames for 35, 50 and 90 mm focal lengths. Film counter must be returned to 0 by hand. From 1959 with self-timer. Serial No. from 926 001.

Available from 1958

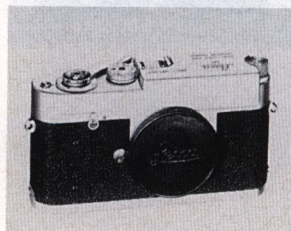
LEICA M1



Without rangefinder. Fields of view for 35 and 50 mm lenses are shown parallax-free and permanently superimposed into bright-line finder. Otherwise as M2. Serial No. from 950 001.

Available from 1959

LEICA MD



As LEICA M1, but without viewfinder, equipped for the use of the marking device. Serial No. from 1 102 501.

Available from 1965

List of the LEICA models LEICAFLEX (Type 1)

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 1 080 114.



Available from 1965

LEICA M4

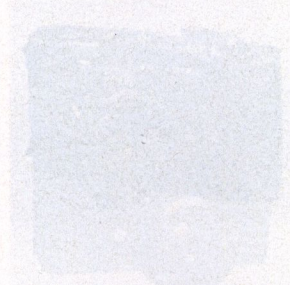
Bright-line measuring viewfinder with automatic parallax compensation. Automatically superimposed image frames for 35, 50, 90 and 135 mm focal length. Bayonet mount for rapid lens change. Shutter speed knob from 1 to $\frac{1}{1000}$ sec. and B.



Attachable exposure meter coupled directly with the shutter knob. Rapid film loading system for all standard 35 mm films and LEICA cassettes. Automatic film counter under magnifier. Hinged back.

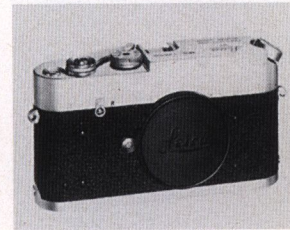
Serial No. from 1 175 001.

as LEICA M4, 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 1/2000 sec. and B.

Electronic flash up to 1/100 sec.

Automatic frame counter.

Rapid film change.

Serial No. from 1 173 005.

Available from 1968

LEICA M5



as LEICA M4, but with built-in CdS exposure meter for selective light metering through the lens. Focal-plane shutter 1/2 to 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 1300001.



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 1385001.



LEICAFLEX SL 2

Available from 1974

List of the LEICA models LEICA R3



Single-lens reflex camera with electronically-controlled metal-blade focal-plane shutter. Alternative averaging or selective light metering through the lens. Automatic shutter speed

determination can be switched over to manual control. Shutter speeds from 4 to $\frac{1}{1000}$ sec., B, X = $\frac{1}{90}$ sec. (electronic-flash synchronization). Focusing screen with finest-grain micro-prisms for sharpness assessment throughout the viewfinder field. Central micro-prisms ring with additional split-image rangefinder and film wind control. Film cartridge window, rapid film change. Serial No. from 1 446 001.

Available from 1976

LEICA M4-2



As LEICA M4, but with connection for motor winder M4-2. Additional accessory-shoe contact for electronic flash unit. Without self-timer. Serial No. from 1 468 001.

Available from 1977

LEICA MD-2



As LEICA M4-2 but without viewfinder. Suitable for the use of recording strips. Serial No. from 1 468 723.

Available from 1977

LEICA R3-MOT



As LEICA R3, but with connection for motor winder R3. Display of the selective or averaging measuring mode in the viewfinder above the shutter speed scale. 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 switch-over to „X“ with system-compatible electronic flash units. Electronically-controlled shutter speeds from $\frac{1}{1000}$ to about 8 sec. X = $\frac{1}{100}$ sec. for electronic-flash synchronisation. Interchangeable focusing screens.

Detachable camera back. Automatic frame counter and film transport check. Film cartridge window. Rapid film change. Rapid lens bayonet changer. Was initially supplied under the name "LEICA R4-MOT ELECTRONIC". 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

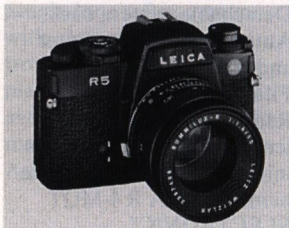
Available from 1986



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 1976



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.

Available from 1987

LEICA R 6

Available from 1977



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.

Available from 1988

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 $\frac{1}{2000}$ s to $\frac{1}{2}$ 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 R6, but with mechanically controlled shutter speeds from $\frac{1}{2000}$ to 1 s. Improved, easier-to-read frame counter with magnifyer-window.



LEICA R6.2

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 $\frac{1}{2000}$ sec., in the manual and shutter priority modes, the shutter speeds are in half values from 4 sec. to $\frac{1}{2000}$ sec. Mechanically formed shutter speeds $\frac{1}{100}$ sec. for flash synchronisation and "B". Film



LEICA R7

speed range: manual from ISO 6/9° 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.

Available from 1992

Accessories for items no longer in the current product range

*Please ask the customer
service department of
Leica Camera GmbH about
items no longer listed in
chapter 11.*

Accessories for R 4 models	11- 3
Accessories for R 3 models	11- 4
Modification of LEICAFLEX lenses for use on LEICA R models	11- 4
Accessories for LEICAFLEX SL / SL 2 models	11- 5
Accessories for earlier R lenses	11- 6
Accessories for earlier camera bodies and lenses	11- 9
Accessories for compact-cameras	11-12
Accessories for FOCOMAT I c	11-12
Accessories for PRADOVIT A	11-12
Accessories for PRADOVIT-COLOR	11-13
Accessories for PRADOVIT C / CA 1500 / 2500 / CA 2502	11-13
Accessories for PRADOVIT R / RA 152	11-13
Accessories for PRADOVIT 153 / 253, LEICA P 155 / P 255	11-13
Accessories for earlier TRINOVID binoculars	11-14

Near-focusing devices

All other accessories

Accessories for LEICA R4 models

see page 2-1 onwards

LEICA R lenses

The DB 2 LEICA R is a camera back for printing data onto the exposure.

Detailed description on page 1-27.

For LEICA R4 models with cable for connection to the flash contact.

Note: When using this camera back on LEICA R models with motor winder or drive the shutter speeds are as follows: with motor winder: $\frac{1}{125}$ sec. and longer, with motor drive: $\frac{1}{30}$ sec. and longer. Shorter times lead to blurred exposures.

DB 2 LEICA R Data Back

**DB 2 LEICA R
Data Back**
for LEICA R4 models

Order No. 14 230 _____

For connection of external power supply; with 1 m long, attached cable and screw-on connection plug¹⁾. (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

Adapter for MD-R
external power supply

Order No. 14 323 _____

5 m Extension cable for
MD-R external power
supply

Order No. 14 325 _____

see page 3-1 onwards

Near-focusing devices

see page 1-5 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 GmbH, customer service.

Accessories for LEICA R3 models

LEICA R lenses see page 2-1 onwards

Correction lenses R

with adapter, locks into position*)
for LEICA R3 models
(Spherical)
see page 1-6

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 R3 camera, but modification of the eyepiece mount is not essential for the use of correction lenses and eyecup R.

Eyecup

for LEICA R3 models

Order No. 14 215

Replacement parts for cameras

Camera body cover,
R-bayonet for all R-cameras.

Order No. 14 103

Order No. 14 312

Carrying strap
with non-slip pad

Near-focusing devices

see page 3-1 onwards

Recommended accessories

see page 1-5 onwards

Modification of LEICAFLEX lenses for use on LEICA R models

Existing LEICAFLEX lenses can be fitted with a cam for the full utilisation of the LEICA R exposure facilities.

Cost and time for conversion upon request from the national Leica Agency or from Leica Camera customer Service.

**Modified lenses continue
to be fully functional in all
LEICAFLEX models.**

Accessories for LEICAFLEX SL / SL 2 models

see page 2-1

LEICA R lenses

- 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 1-6

Correction lenses

- 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

Eyecup R locks in position ²⁾

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

Order No. 15 526 _____

see page 3-1 onwards

Near-focusing devices

see page 1-5 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 _____

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 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 16 531	∞ 0.5	50 31	41 21	184 x 276 91 x 137	1 : 7.7 1 : 3.8
	2 ¹⁾ 16 542	∞ 0.5	30 24	21 14	94 x 141 62 x 93	1 : 3.9 1 : 2.6
ELMARIT-R f/2.8/90 mm up to No. 2 809 000 (M 54 x 0.75), 11 239	3 ²⁾ 16 543	∞ 0.7	74 44	61 30	161 x 241 72 x 108	1 : 6.7 1 : 3.0
SUMMICRON-R f/2/90 mm up to No. 2 770 950 (M 54 x 0.75), 11 219	3 ²⁾ 16 543	∞ 0.7	74 44	61 30	161 x 241 72 x 108	1 : 6.7 1 : 3.0
ELMARIT-R f/2.8/135 mm up to No. 2 772 618 (M 54 x 0.75), 11 211	3 ²⁾ 16 543	∞ 1.5	76 58	61 42	107 x 160 66 x 99	1 : 4.5 1 : 2.8
	4 ²⁾ 16 544	∞ 1.5	150 84	135 68	237 x 355 106 x 159	1 : 9.9 1 : 4.4
VARIO-ELMAR-R f/4.5/80-200 mm (M 55 x 0.75), 11 224	3 16 543	80 mm/ ∞ 200 mm/1.8	82 66	61 45	177 x 266 50 x 75	1 : 7.4 1 : 2.1
	4 16 544	80 mm/ ∞ 200 mm/1.8	156 96	135 74	392 x 588 83 x 125	1 : 16.3 1 : 3.5
VARIO-ELMAR-R f/4.5/75-200 mm (E 55)	3 16 543	75 mm/ ∞ 200 mm/1.2	82 60	61 38	187 x 281 41 x 62	1 : 7.8 1 : 1.7
	4 16 544	75 mm/ ∞ 200 mm/1.2	156 80	135 58	414 x 621 62 x 93	1 : 17.3 1 : 2.6

All values rounded off

Leather case

Order No. 14 553

Leather case for one
near-focusing attachment

^{*)} replacement

Nappa soft leather case ^{*)}

Order No. 14 760

for MACRO-ELMAR-R
f/4/100 mm

Leather case ^{*)}

Order No. 14 578

for TELYT-R f/4/250 mm

Order No. 14 579

for TELYT-R f/4.8/350 mm

R-lens:	Internal lens thread	Dia-meter 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	12 529	14 221	14 162	—	—	—	4)
SUPER- ANGULON-R 3.4/21 11 803	M 67 x 0.75	70	4)	14 144	4)	Series 8	Lens hood	—	4)
ELMARIT-R 2.8/28 11 247	M 48 x 0.75	51	12 509	14 172	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	12 509 ₁₎	14 172	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	14 160	—	4)
up to No. 2 928 900	M 48 x 0.75	51	12 509	14 172	14 162	Series 7	Lens hood	—	4)
SUMMILUX-R 1.4/50 11 875 up to No. 2 806 500	M 48 x 0.75	51	4)	14 172	14 162	Series 7	Lens hood	—	4)
SUMMICRON-R 2/50 11 228 up to No. 2 777 650	M 44 x 0.75	47	4)	—	14 162	Series 6	14 160	16 531 16 542	4)
MACRO-ELMARIT-R 2.8/60 11 203 up to No. 3 013 650	M 60 x 0.75	63.7	12 514	14 290	14 162	Series 8	Lens hood	—	4)
SUMMICRON-R 2/90 11 219 up to No. 2 770 950	M 54 x 0.75	70	built-in	14 144	14 162	Series 7	14 161	3)	4)
up to No. 3 381 676	M 55 x 0.75	70	built-in	14 289	14 162	E 55	14 225	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	14 161	3)	4)
up to No. 3 260 100	M 55 x 0.75	65	built-in	14 289	14 162	Series 7	14 225	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	14 161	—	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	14 161	3)	4)
ELMARIT-R 2.8/180 11 919 up to No. 2 939 700	M 72 x 0.75	78	built-in	14 152	14 162	Series 8	4)	—	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	14 152	14 162	Series 8	4)	—	4)
TELYT-lens unit 5.6/400 (TELEVIT-R)	—	98	built-in	14 295	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	14 263 for Series 7.5	—	4)
VARIO-ELMAR-R 4.5/80-200 11 224	M 55 x 0.75	72	built-in	—	14 162	E 55	14 225 for Series 7	16 543 16 544	4)
VARIO-ELMAR-R 4.5/75-200 11 226	M 55 x 0.75	70	built-in	14 289	14 162	E 55	14 225 for Series 7	16 543 16 544	4)

1) Leather case for same: 14 621

2) Filter see page 2-40

3) see page 11-9

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

Accessories for earlier LEICA R lenses



TELYT-S f/6.3/800 mm

Extreme telephoto lens with
Leica special glasses for optimum optical performance

- Angle of view: 3°
- Number of elements: 3 (1 component)
- Filter size: Series 7 (in filter slot)
- Aperture setting ring with clickstops (between f/6.3 and 22 also half values)
- Preset diaphragm
- Smallest aperture: f/32
- Focusing range: ∞ to 12,50 m (41 ft)
- Smallest object field: 320 x 480 mm (1 ft - 1 ft 7 in) (about 1:13)
- Rapid focusing by means of an easy-grip rotary knob and parallel guide
- Lens can be dismantled into 5 parts for transport in a special metal case assembly and dismantling by means of bayonet and marked locking rings with levers
- Sturdy carrying handle for assembled lens
- Lining-up device in the shape of a sports finder with rear and front sight and field-of-view orientating device for upright and horizontal format, protected against damage by integration with the carrying handle
- Detachable and lockable lens hood
- Slot with cover for Series 7 filters
- Thread A 1/4 and A 3/8, DIN 4503 (1/4 and 3/8 in) for sturdy tripods
- Support ring, rotatable with tripod thread A 1/4 DIN 4503 (1/4 in) for additional monopod
- Black anodized finish
- LEICA R quick change bayonet
- Rotatable swivelling device for upright and horizontal format, with clickstops
- Lens cap diameter: 152 mm (6 in)
- Length from bayonet flange: 768 mm (30 in)
- Diameter: 152 mm (6 in)
- Weight: 6.860 kg

11

TELYT-S f/6.3/800 mm,

complete, with special
metal transport case

Order No. **on request** _____

Accessories for earlier Camera Bodies and Lenses

see page 5-1 onwards

LEICA M lenses

see page 4-4 onwards

LEICA WINDER M

see page 4-4 onwards

**Recommended
M-accessories**

see page 5-17 onwards

Brilliant Finder

**Accessories for
earlier LEICA M
and CL lenses**

M-lens	Internal thread	Lens cap diameter in mm	Lens hood	Lens cap	Rear cover	Filter
ELMARIT-M f/2.8/21 up to No. 3 363 299	M 60 x 0.75	62	—	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 Order No. 11 804	M 49 x 0.75	51	12 536	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	12 587 + 14 013	14 231	14 269	E 46
SUMMICRON-M f/2/35 up to No. 2 307 450	M 39 x 0.5	42	12 538	14 268	14 269	E 39
up to No. 2 483 503	—	42	12 504	14 268	14 269	Series 7 in lens hood
up to No. 2 974 250	M 39 x 0.5	42	12 504	14 268	14 269	E 39 or Series 7
SUMMARON-M f/2.8/35	M 39 x 0.5	42	—	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

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

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. 2919 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	12 539 12 544	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	12 586 + 14 037	14 007	14 269	E 43	1)
SUMMICRON-M f/2/50 up to No. 2915 800 Order No. 11 819 11 825	M 39 x 0.5	42	—	14 268	14 269	E 39	1)
			12 538 + 14 033				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	12 539	14 290	14 269	E 60	1)
SUMMICRON-M f/2/90 up to No. 2997 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. 2997 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	Series 7 with Adapter 14 161	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 Service Center, please inquire.

Accessories for earlier Camera Bodies and Lenses

Accessories for VISOFLEX lenses

M-lens	Internal thread	Lens cap diameter	Lens hood	Lens cap	Rear cover	Filter size
ELMAR-M f/3.5/65 up to No. 2 378 900	M 41 x 0.5	56	built-in	—	—	E 41
	from No. 2 378 901	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	M 58 x 0.75	76	built-in	¹⁾	14 269	E 58
	from No. 2 340 953	M 66 x 0.75	76	built-in	—	Series 8 with Adapter 14 169
TELYT-M f/5.6/400	—	98	built-in	14 295	14 269	Series 7 in filter slot
TELYT-M f/6.8/400	M 72 x 0.75	78	built-in	14 152	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

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

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	—	—	13 160	—	—	—
Yellowgreen	—	—	—	—	—	13 391
Orange	—	—	—	—	—	13 312
Red	13 401	—	—	—	—	—

	Screw-in filters			Series filters		
	E 58	E 60	E 77	6	7	8
UVa	13 270	13 381	—	13 012	13 009	13 018
Yellow	—	—	—	13 013	—	—
Yellowgreen	—	13 392	—	13 014	13 007	13 021
Orange	—	13 383	—	13 011	13 008	—
Pol.-circ.	—	—	13 334	—	—	—

Accessories for Compact-Cameras

LEICA AF-C1

Order No. 18 502 _____

Leather ever-ready case

Order No. 18 515 _____

Carrying strap

LEICA mini

Order No. 18 503 _____

Leather ever-ready case

Order No. 18 516 _____

Carrying strap

Order No. 18 517 _____

Wrist strap

Order No. 14 320 _____

Mini tripod with ball and socket joint

LEICA C2-ZOOM

Order No. 18 502 _____

Leather ever-ready case

Order No. 18 504 _____

IR-remote release

Order No. 18 515 _____

Carrying strap

Order No. 14 320 _____

Mini tripod with ball and socket joint

Accessories for the FOCOMAT Ic

Order No. 17 652 _____

Anti-Newton disc

Order No. 17 437 _____

Tension maintenance

Order No. 17 586 _____

Enlargement frame 30 x 40 cm

Accessories for the PRADOVIT A

*Projector lenses
and accessories*

see page 8-20, 21

Macro attachment

Order No. 32 825 _____¹⁾

¹⁾ Please inquire at Leica customer service, Solms

Film guide

Order No. 32 868 _____¹⁾

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 8-20, 21

¹⁾ Please inquire at Leica customer service, Solms

see page 8-20, 21

see page 8-20, 21

see page 8-18

Mains connection cable

see page 8-20, 21

see page 8-20, 21

Accessories for the PRADOVIT- COLOR

*Projector lenses
and lens sleeves*

Accessories for the PRADOVIT C / CA 1500 / 2500, CA 2502

Hood and case

Macro attachment

Order No. 32 825 ¹⁾

Film guide

Order No. 32 868 ¹⁾

*Projector lenses
and accessories*

Magazines

Replacement parts

Order No. 37 644

Accessories for the PRADOVIT R / RA 152

*Projector lenses
and accessories*

Accessories for PRADOVIT 153 / 253

*Projector lenses
and accessories*

Accessories for PRADOVIT 153 / 253

Order No. 37 641 _____

Multiple Connecting socket
(6- and 14pin), e. g. for connecting slide control unit

(cassette rewriter/tape connection).

Order No. 37 642 _____

Extension cable
for remote-control, 10 m (33 ft)

Replacement parts

Order No. 37 639 _____

Cable remote-control
(3 m, 10 ft) with light pointer

Order No. 37 989 _____

IR remote-control
(without battery 9 V,
IEC 6 LF 22)

Magazines

see page 8-14

Accessories for LEICA P 155 / P 255

(up to unit no. 213 050)

Timer-P

Order No. 37 316 _____

for automatic slide projection with a choice of

intervals from approx.
3.5 to 35 sec.

Cable remote control

Order No. 37 314 _____

separate, with built-in light pointer (3 m)

Extension cable

Order No. 37 315 _____

for separate cable remote control (approx. 10 m)

Accessories for TRINOVID Binoculars

*) obtainable from Leica service center or local Leica agency.

Order No. 42 101 _____

Rubber rain guard
for TRINOVID B and BA

black *)

Order No. 42 149 _____

Spare carrying strap
black, Perlon fabric, for TRINOVID B and BA binoculars

Non-slip pad for carrying strap, black, order no. 707 115 705 000. *)

Order No. 42 181 _____

Nappa leather case
for TRINOVID 8 x 32 B

and BA *)

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[illegible]

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+ 3,0

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4-4

- 0,5

14355

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- 1,0

14356

4-4

- 1,5

14357

4-4

- 2,0

14358

4-4

- 3,0

14359

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+ 1,0

18530

6-5

- 1,0

18531

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+ 0,5

14330

1-6

+ 1,0

14331

1-6

+ 0,5

14332

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+ 2,0

14333

1-6

+ 3,0

14334

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- 0,5

14335

1-6

- 1,5

14337

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- 2,0

14338

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- 1,0

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for ELMARIT-M 2,8/28mm

for ELMARIT-M 2,8/28mm

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for SUMMILUX-M 1,4/35mm

for SUMMILUX-M 1,4/35mm

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Lens tubes (PRADOVIT P 2002 and previous models)

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