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INSTRUCTIONS



MOTOR-WINDER R 4
for the LEICA R 4



Uses

Single-frame exposures with automatic film transport and shutter wind

Series exposures with automatic film transport and shutter wind

Remote release of series and single-frame exposures through electrical cable connections or by radio

Automatic interval release through the RC LEICA® R and other control units
Motorised double and multiple exposures

The MOTOR-WINDER R 4 can be used on the LEICA R 4 only.

For the operation of the camera see Instructions for the LEICA R 4.



- 1) Rapid winding lever. When the motor-winder is used, it is moved into the parked position along the camera.
- 2) Single-frame release
- 3) Series and single-frame release
- 4) Threaded bush for handgrip
- 5) Locking button for battery housing
- 6) Toggle screw for attaching the winder to the camera

- 7) Push-button for a) rewind release
b) double exposure
- 8) Selector for multiple exposures
- 9) Housing for rechargeable or ordinary batteries
- 10) Socket for electric release
- 11) Tripod bush. The tripod holder is screwed on through threaded bushes 4 + 11.



Attaching the MOTOR-WINDER R 4

The motor-winder can be attached to or detached from the LEICA R 4 at any time, irrespective whether the camera is loaded with film or not.

- 1) Remove the baseplate cap of the LEICA R 4 after releasing the knurled screw.
- 2) Remove the contact cap on the top of the motor-winder after releasing knurled screw (6).
- 3) Wind shutter of the LEICA R 4 with the rapid winding lever. Leave the lever in the turned-out position. (This prevents actuating the winder when it is being attached).

- 4) Attach the motor-winder to the camera. To do this, insert the guide pin in the aperture provided for it on the camera housing and push the winder against the baseplate of the camera.
- 5) Connect the motor-winder with the LEICA R 4 with the toggle screw (6).
- 6) Move the rapid winding lever the parked position.
- 7) When the rapid winding lever of the LEICA R 4 is in the parked position and the motor-winder has a full battery housing attached to it, the camera/winder is ready for action.

Housing for rechargeable or ordinary batteries R 4

After the release button (5) has been pressed the battery housing (9) can be pulled out of the motor-winder body.

It is available separately under Code No. 14280 and accepts 6 1.5 v midget batteries. We recommend alkali manganese batteries to IEC LR6 of size R6 standard (in USA Aa) or NiCD rechargeable batteries.

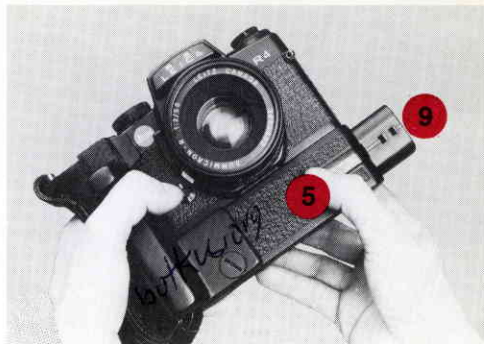
To insert the batteries open the housing with the knurled screw until it can be pulled apart. Insert the batteries according to the + or - markings in the housing. Push the housing together and tighten the knurled screw. Insert the battery into the motor-winder until you hear the second click.

When the MOTOR-WINDER R 4 is attached the LEICA R 4 is automatically supplied with current from the battery housing or from the external supply. But the camera batteries are necessary for the electric release pulse and must therefore remain in the camera. The external current guarantees the camera functions above all at extremely low temperatures and in addition saves the camera batteries.

Because the current for the exposure meter and the shutter of the LEICA R 4 is supplied through the MOTOR WINDER the camera functions are ensured above all at extremely low temperatures, in addition, the batteries of the camera are saved.

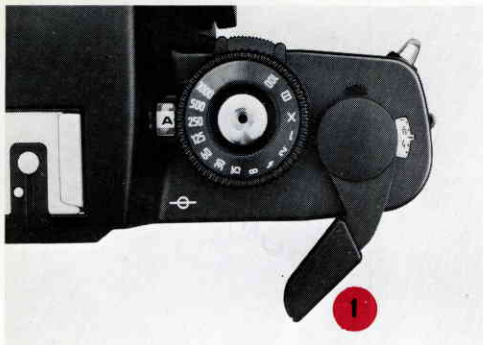
If the voltage is no longer sufficient for the motor functions, the MOTOR WINDER will be switched off electronically. The electrical camera functions such as exposure measurement and shutter action will, as a rule, however, remain operative, the film can be transported and the shutter wound with the rapid winding lever.

It is advisable to exchange the batteries on the next opportunity or to recharge them were this applies. For exchange, always insert 6 fresh batteries or 6 recharged ones, and do not use any ordinary or rechargeable batteries of different makes.



Important:

The battery test (see instructions LEICA R4) shows whether the capacity of the battery is sufficient for perfect camera function. This does not include the battery test for the motor winder functions. The battery test is carried out with the MOTOR WINDER R4 in position, when at the same time the exposure system of the LEICA R4 is switched on, for instance through pressure of the locking key on the program selector.



Film insertion and removal

When the motor-winder is attached, it is advisable to move the rapid winding lever (1) into the standby position during film insertion. This disengages the motor-winder and the film can be inserted as described in the camera instructions. As soon as the rapid winding lever is moved into its parked position the motor-winder is ready for action.

The motor-winder is automatically switched off after the 36 exposure counted by the frame counter of the camera.

When the LEICA R 4 is used with the MOTOR-WINDER R 4 it is advisable to use 36-exposure films only. If the film has not been fully exposed when the motor-winder switches off at "36", it

can be wound on with the rapid winding lever even with the motor-winder in position.

To take out the film, press the push-button for rewind release (7) and rewind the film as described in the Camera Instructions.

Single-frame release

For single-frame exposures the camera release is used. All automatic programs or the manually set shutter speeds as well as the settings "X" (for electronic flash synchronisation and "100" can be used. At the "B" setting time exposures of any duration are made as long the camera release button remains depressed. If necessary, the measured exposure value can be stored for up to 30 seconds with selective measurement when the slack is taken up of the release button (see Camera Instructions). The motor-winder transports the film and winds the shutter only after the finger has been taken off the camera release button. The film can be transported intermediately with the rapid winding lever even when the motor-winder is attached. To do this, the rapid winding lever must be moved into the standby position before the exposure is made.

Series release

A series release is triggered by pressure on the release button on the motor-winder housing (3). As long as this button is depressed, exposure follows exposure at up to 2 frames per second depending on the shutter speed. All automatic programs for the manually set shutter speeds as well as the settings "X" and "100" can be used.

Electric release

Various remote releases and control units can be connected through the socket (10) on the motor-winder. Depending on the subject, series or single-frame releases can be made.

Double and multiple exposures

Double and multiple exposures are possible with or without the motor-winder in position.

For double exposures with the motor-winder

the selector (8) remains in the normal position. For the first exposure the push-button for double exposure (7) must be pressed.

At the end of the winding process it automatically returns to its original position. A second exposure can be made.



For multiple exposures with the motor-winder

the selector (8) is moved into position ●●. It remains there until the desired number of exposures has been made. In this position of the selector an acoustic signal is given when the camera electronics are switched on through taking up the slack of the release button or on the program selector.

After completion of the multiple exposures the selector (8) must be returned to its normal position by hand and the camera shutter released twice, with the lens covered to prevent the entry of light.

Accessories for the MOTOR-WINDER R 4

Handgrip R 4 for hand held exposures, Code No. 14283

The LEICA R 4 with MOTOR-WINDER R 4 can be held more securely and more comfortably with the handgrip with adjustable leather loop.

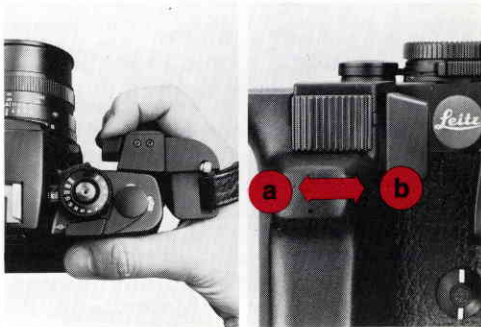
Before the handgrip is mounted the carrying strap is detached from the right-hand side of the LEICA R 4 (see Camera Instructions). The handgrip is screwed into the threaded bush (4) of the winder with the aid of the coin slot screw and the carrying strap attached to the handgrip.

As a protection against inadvertent camera release the release button of the handgrip can be blocked with a slider.

Slider in position a = release button ready for action.

slider in position b = release button blocked.

When the handgrip is attached, series releases are triggered with the release button of the handgrip.



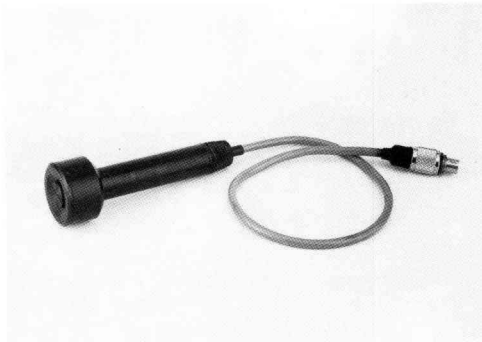


Remote Control LEICA R electronic control unit, Code No. 14277

This handy control unit combines two important functions: it is a remote release with illuminated digital display of the completed exposure through feedback from the camera and at the same time a timer for automatic single-frame release and variable time intervals. The interval releases can be exactly preprogrammed from about 2 frames per second to 1 frame about every 10 minutes.

The RC LEICA R has a 2.5m long cable attached to it and is connected to the 5-pin socket (10) of the motor-winder housing with a screw plug. With extension cables the radius of the control unit is about 100m.

Double and multiple exposures, too, can be triggered.

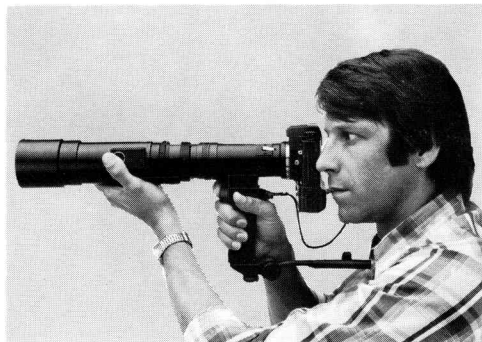


Cable release with push-button

The electric cable release with a cable, length 0.3m, Code No. 14237 and the electric cable release with a cable, length 5m, Code No. 14272 have a screw plug for connection with the socket (10) of the Motor-Winder.

Especially in conjunction with long-focal-length lenses such as the 250mm TELYT®-R f/4, 350mm TELYT-R f/4.8, 400mm TELYT-R f/6.8, or the 560mm TELYT-R f/6.8 the electric release switch (Code No. 14237) together with the universal handgrip with shoulder stock is a very practical accessory.

The collar of the cable release (Code No. 14237) is pushed into the aperture of the universal handgrip provided for it and fixed with the grub screw of the handgrip. The push-button of the

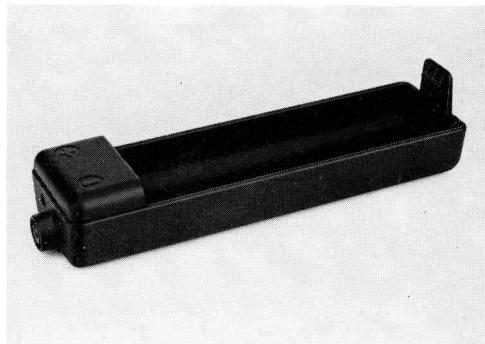


cable release can be operated with the index finger of the right hand. It permits taking up the slack of the release button. In the viewfinder, all the LED displays will light up as usual.

This maintains all control functions in the viewfinder of the LEICA R 4 even when the universal handgrip is used.

The Remote Release Code No. 14272 with a cable, length 5m, has a push-button for electric remote release.

In conjunction with the extension cables, 25m length, Code No. 14274, both cable releases can be used for electric remote release up to 100m distance.



**Holder for the MW-R Battery Housing,
Code No.14279**

**With sockets marked + and - for the battery
charger.**

For recharging the 6 NiCd batteries in the housing, insert this in its holder.

With the aid of this holder the battery housing can be used for external supply, for instance when at low temperatures the batteries are to be kept at body heat and therefore have to be housed externally.



**MW-R adapter for external supply,
Code No. 14278**

For the external current supply of the motor-winder the MW-R adapter for external supply is connected with the socket of the holder 14279. The adapter instead of the battery housing is inserted in the motor-winder. The appliance cable, length 1m with screw plug serves for connection to external current sources.

Special rechargeable batteries and mains units of to 8.5v d.c. can be connected to the adapter for external supply.

Extension cable for external supply MW-R (5m), Code No. 14293.



**MW-R battery housing,
Code No. 14280**

For the MOTOR-WINDER R 4, as replacement. For heavy-duty work, (prolonged use, low temperatures, expeditions) a second housing with fresh or recharged batteries offers additional reliability. It can be changed with a single action within seconds.



Tripod holder R 4, Code No. 14284

With A $\frac{1}{4}$ DIN 4503 ($\frac{1}{4}$ in) thread for use with the LEICA R 4/motor-winder combination on a tripod and for stationary installation.

The robust tripod holder is connected with the motor-winder with 2 easy-grip screws.

The following special accessories can be obtained on request:

Mains unit NL 3 for the LEICA R 4 outfit with integrated charger for NiCd batteries.

Technical description and practical possibilities see LEICA R 4 working sheets (in preparation).

**With any breakdowns for unknown reasons
always take out the battery housing.**

After-Sales-Service

Our After-Sales-Service is at your disposal for the maintenance of your LEICA R 4 and the MOTOR-WINDER R 4 as well as in cases of damage.

Address:

**Ernst Leitz Wetzlar GmbH
Technical Service
P.O.B. 20 27
D-6330 Wetzlar,
Germany;**

or your National Leitz Agency. Each LEICAR 4 is accompanied by a list of the LEITZ agencies.

Damage will be repaired according to the terms of the International Leitz Warranty.

Magazine "LEICA FOTOGRAFIE"

Each LEICA R 4 is accompanied by an order card for issues of "LEICA FOTOGRAFIE", the topical magazine of 35mm technique, available in German, English and French. Please forward the completed order card direct to:

**LEICA FOTOGRAFIE
Im Umschau-Verlag
Stuttgarter Strasse 18-24
D-6000 Frankfurt/Main
Germany.**

Defect	Cause	Remedy
<p>Motor winder does not start</p>	<p>Motor winder wrongly attached.</p> <p>Rapid winding lever not in the parked position.</p> <p>Exhausted ordinary or rechargeable batteries.</p> <p>Frame counter is at "36".</p>	<p>Separate the camera and the motor winder. Attach motor winder according to p. 4.</p> <p>Move the rapid winding lever against the camera body (parked position).</p> <p>Insert fresh batteries or rechargeable ones.</p> <p>Take out the exposed film.</p>
<p>Motor winder works too slowly</p>	<p>Weak batteries.</p> <p>Wrongly inserted batteries.</p> <p>Film cartridge impedes movement (cartridge slot too tight)</p>	<p>Insert fresh batteries or charge rechargeable ones.</p> <p>Insert batteries according to the markings in the battery housing.</p> <p>Insert fresh film cartridge.</p>
<p>Release button blocked</p>	<p>The camera shutter was only partly wound when the motor winder was attached.</p>	<p>Operate the release button on the motor winder.</p>
<p>When the release button is touched, audible warning signal</p>	<p>Selector for multiple exposures has been switched on.</p>	<p>Move the selector into its rest position.</p> <p>Cover the lens to prevent entry of light and release twice.</p>