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USEFUL ACCESSORIES FOR THE LEICA® R4



111-131

a/Engl.



The LEICA R-System: The basis for optimum adaptation to photo- graphic tasks and situations

The LEICA R4 is the basis of the universal LEICA R system, which is expanded by well-planned and well-matched accessories to solve all problems and meet all situations.

For certain photographic tasks a twin cable release, for instance, may be just as useful as a motor drive or as a macro lens for many a situation.

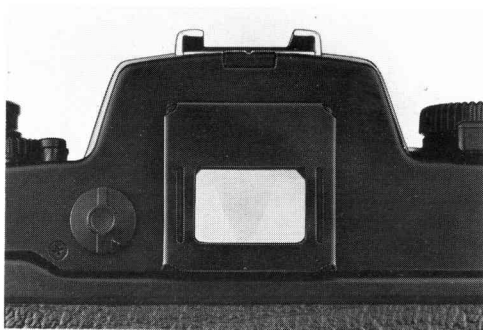
This brochure gives you an idea about the range of accessories for the LEICA R4 and their uses.

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Correction lenses

To enable you to make full use of the possibilities of the LEICA R4 and of the performance of the LEICA R lenses, you must be able to see the viewfinder image at optimum sharpness. This applies irrespective of whether you look through the eyepiece with or without spectacles. If you have difficulties with focusing we recommend the use of correction lenses, which are supplied in the following strengths:

	code No.	Price
+ 0,5 diopres	14 240	_____
+ 1,0 diopres	14 241	_____
+ 1,5 diopres	14 242	_____
+ 2,0 diopres	14 243	_____
+ 3,0 diopres	14 244	_____
- 0,5 diopres	14 245	_____
- 1,0 diopres	14 246	_____
- 1,5 diopres	14 247	_____
- 2,0 diopres	14 248	_____
- 3,0 diopres	14 249	_____

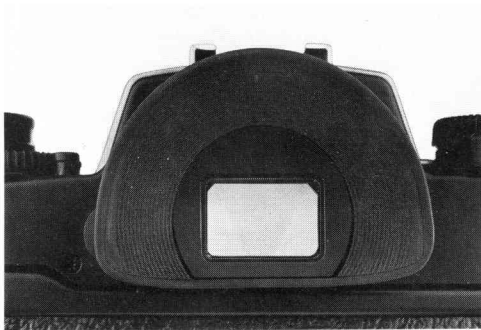


Eyecup

The flexible eyecup prevents stray light from reaching the eye. The viewfinder image appears considerably more brilliant and can be observed more clearly.

Eyecup
(can also be used as a
holder for correction
lenses)

14 257 _____



Interchangeable focusing screens for all photographic tasks

The standard equipment of the LEICA R4 is the universal focusing screen, which offers three focusing aids: triangular micro prisms in the entire viewfinder field, a ring with rectangular micro prisms and a central split-image rangefinder. This makes it suitable for the most frequent photographic uses.

Special tasks sometimes call for tailor-made systems for rapid and exact work. The LEICA R therefore offers four other focusing screens as accessories:

The uniform groundglass screen for the extreme near-focusing range and for lenses of very long focal lengths

14 304



The micro-prism screen without the split image rangefinder of the universal screen

14 305



The uniform focusing screen with grid division for panoramic views, architectural photography and reproduction

14 306

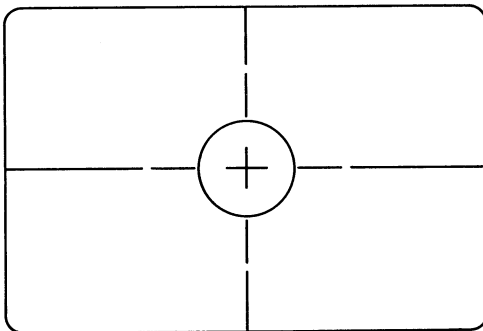
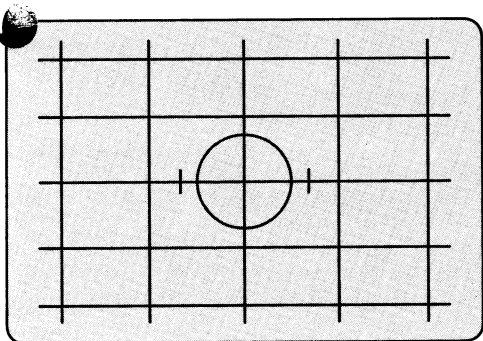
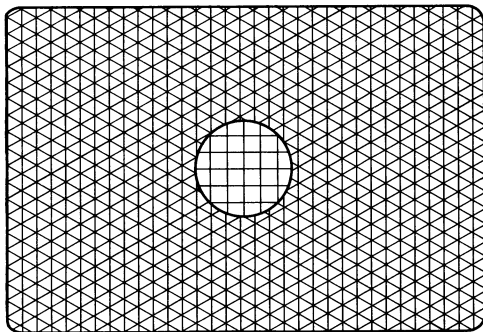
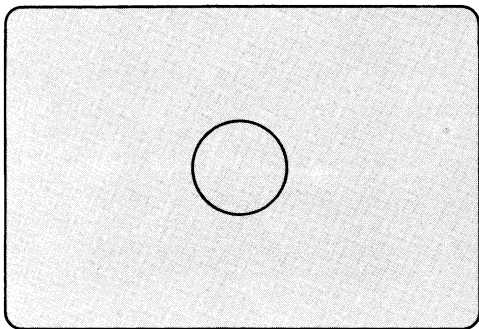


The clear-glass plate for use on highly magnifying optical instruments such as microscopes

14 307



Each focusing screen is supplied separately in a special container together with a dust brush and changing forceps.



Angle finder

For certain work such as with the copying stand or taking photographs from a worm's eye view, the angle finder facilitates the use of the viewfinder. It is pushed into the accessory shoe of the camera and shows a right-way-round, upright image. The angle finder can be rotated and has 90° click stops.

Angle finder 14 326 _____

Table-top tripod

Photographic practice often has to deal with surprising situations which call for a tripod, for instance indoors, in the near-focusing range or for work with long-focal-length lenses and slow shutter speeds to prevent camera shake. The tabletop tripod is compact and light and can always accompany you because folded it slides into your jacket pocket. It can not only be set up on horizontal supports, but also propped against vertical walls, round columns and sloping supports. It is also eminently suitable as a chest-pod.

Table-top tripod with
three folding legs, tripod
thread A $\frac{1}{4}$ DIN 4503
($\frac{1}{4}$ in) 14 100 _____

Ball-and-socket head

A clamping ball-and-socket head belongs to every photographic tripod so that the camera can be moved in all directions and clamped securely. LEITZ ball-and-socket heads are extremely robust and completely eliminate camera shake. They are supplied in two sizes:

Small ball-and-socket head
with tripod thread A $\frac{1}{4}$,
DIN 4503 ($\frac{1}{4}$ in) 14 119 _____

Large ball-and-socket head
with tripod thread A $\frac{3}{8}$ and
A $\frac{1}{4}$, DIN 4503
($\frac{3}{8}$ in and $\frac{1}{4}$ in) combined 14 121 _____

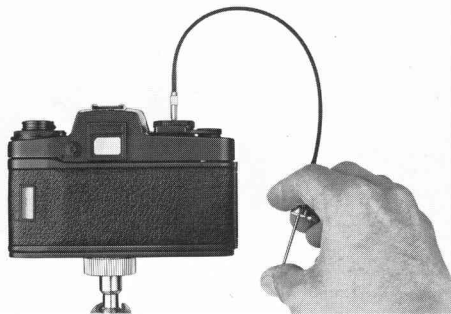


Cable release

A practical aid to camera-shake-free work from the tripod. With a clamping screw the shutter can be kept open at the "B" setting.

Cable release,
length 25cm 14 067 _____

Cable release,
length 50cm 14 076 _____



MOTOR WINDER R4 and MOTOR DRIVE R4

With the MOTOR WINDER attached the LEICA R4 is perfectly equipped for rapid single-frame and series exposures, even remote-controlled via electric cable connections and automatic by means of electronic control units.

The MOTOR WINDER R4 offers frame frequencies of up to 2fps. The MOTOR DRIVE R4 manages up to 4fps and can be switched to 2fps and single-frame exposures.

The MOTOR WINDER is powered with 6, the MOTOR DRIVE with 10 commercial alkali manganese batteries or rechargeable NiCd batteries.

The housing for ordinary or rechargeable batteries is easily interchanged. It can, for instance, be kept at body heat at low temperatures and quickly inserted for action.

If it is to be kept close to the body during photography, it can be connected with the MOTOR WINDER with the adapter for external supply and cables.

Handgrip

With the handgrip in position, the LEICA R4 with MOTOR WINDER or MOTOR DRIVE can be operated very reliably and free from fatigue. The padded leather loop is adjustable and can be individually adapted to the size of the hand.

MOTOR WINDER R4	14 282	_____
Adapter for external supply MW-R	14 278	_____
Holder for the ordinary/rechargeable battery housing MW-R	14 279	_____
Ordinary/rechargeable battery housing MW-R (spare)	14 280	_____
5m extension cable for external supply MW-R	14 293	_____
MOTOR DRIVE R4	14 292	_____
Adapter for external supply MD-R	14 323	_____
Ordinary/rechargeable battery housing MD-R (spare)	14 322	_____
5m extension cable for external supply MD-R	14 325	_____
Handgrip R4	14 283	_____



Accessories for the MOTOR WINDER R4 and MOTOR DRIVE R4

Remote-control LEICA R electronic control unit

The RC LEICA R serves for the remote release of the MOTOR WINDER and MOTOR DRIVE. The camera can be released manually or fully automatically. For the programmed release the RC LEICA R offers interval settings from about 0.5 to about 600 seconds. The completed exposure is digitally displayed by feedback from the camera.

Remote release up to a distance of 100m is possible with the RC LEICA R via extension cables. Current is supplied via the MOTOR WINDER or the MOTOR DRIVE.

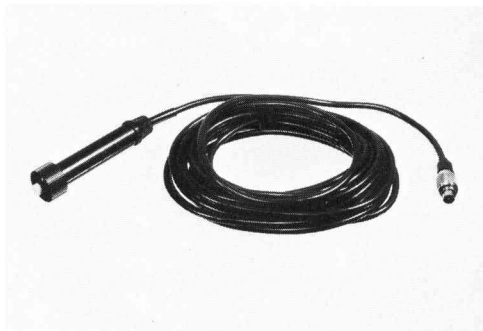
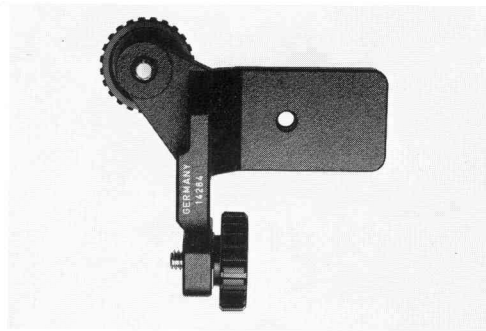
Tripod holder

For the use of the LEICA R4 with MOTOR WINDER and long-focal-length lenses on a tripod. Robust design with two easily operated screw fittings.

Electric remote release

The cable release, length 5m, has a screw-on junction plug and can be extended up to 100m with the 25m extension cables.

Tripod holder R4	14 284	_____
Electric cable release 5m	14 272	_____
25 m extension cable for remote release	14 274	_____
RC LEICA R	14 277	_____



DB Databack LEICA R4

The date included in a photograph is a valuable aid to retrieve accurate information about various phases or events even after years. The possibilities are many: whether family photographs, the various stages of a house being built, or experimental series in a laboratory are to be recorded with the camera, with the Databack data can be included in the picture directly during the exposure. This makes identification reliable and convenient. Negatives or transparencies have the date of exposure or a letter/number code included in the bottom right-hand corner. The DB LEICA R4 Data Back is inserted in the LEICA R4 in place of the camera back and connected to the flash contact of the camera by means of a cable.

DB LEICA R4
Databack

14 297 _____



Lenses for the LEICA R4 system

A top-quality camera can produce top-quality results only when the lenses with which it is equipped are top-quality, something which with LEITZ lenses has never been called into question anywhere in the world. Continuous scientific research, special manufacturing experience, the LEITZ glass research laboratory, and LEITZ production of special glasses ensure the decisive edge over our competitors. The range of lenses extends all the way from the fisheye to the zoom, from the 15mm ultrawide angle to the 800mm telephoto lens.

Name of lens	Max.aperture f/ Focal length mm	Code No.	Price
SUPER-ELMAR-R	1:3.5/15	11 213	
FISHEYE-ELMARIT-R	1:2.8/16	11 222	
ELMARIT®-R	1:2.8/19	11 225	
SUPER-ANGULON®-R	1:4/21	11 813	
ELMARIT-R	1:2.8/24	11 221	
ELMARIT-R	1:2.8/28	11 204	
PA-CURTAGON®-R	1:4/35	11 202	
ELMARIT-R	1:2.8/35	11 231	
SUMMICRON®-R	1:2/35	11 115	
SUMMICRON-R	1:2/50	11 216*	
SUMMILUX®-R	1:1.4/50	11 776	
MACRO-ELMARIT-R	1:2.8/60	11 212	
ANGENIEUX-ZOOM	1:2.8/45-90	on request	
VARIO-ELMAR-R	1:4.5/75-200	11 226	
SUMMILUX-R	1:1.4/80	11 880	
ELMARIT-R	1:2.8/90	11 239	
SUMMICRON-R	1:2/90	11 219	
MACRO-ELMAR-R	1:4/100	11 232	
MACRO-ELMAR**	1:4/100	11 230	
ELMARIT-R	1:2.8/135	11 211	
ELMAR®-R	1:4/180	11 922	
APO-TELYT-R	1:3.4/180	11 242	
ELMARIT-R	1:2.8/180	11 923	
TELYT®-R	1:4/250	11 925	
TELYT-R	1:4.8/350	11 915	
TELYT-R	1:6.8/400	11 960	
MR-TELYT-R	1:8/500	11 243	
TELYT-R	1:6.8/560	11 865	
TELYT-S	1:6.3/800	11 921	

* for LEICA-R models only

** for the Universal Focusing Bellows-R only

EXTENDER-R 2x

The EXTENDER-R has been designed for all LEICA R lenses from 50 to 800mm focal length and maximum apertures from f/2.

It consists of a complicated optical system, based on special highly refractive LEITZ glasses. Optimum adaptation to the LEICA R lenses has been achieved with the sophisticated optical design. The optical performance of the EXTENDER is remarkable even at full aperture, and can be further improved when the lens is stopped down by 1 to 2 stops.

The EXTENDER doubles the focal length of the lens with which it is used. The aperture set on the lens is reduced by 2 stops. Thus the EXTENDER converts a 50mm f/2 into a 100mm f/4 lens. The exposure measurement of the LEICA R4 automatically allows for the changed values.

The EXTENDER has a fully automatic diaphragm transmission. Automatic shutter speed control as well as manual setting of shutter speed and lens stop can be used without restriction on the LEICA R4.



EXTENDER-R 2x

11 236

Special equipment for the near-focusing range

ELPRO near-focusing attachments

The ELPRO near-focusing attachments extend the focusing range of the lens and at the same time, as achromatic elements, improve the picture quality in the near-focusing range. Excellent sharpness is obtained even with medium lens apertures. The camera technique is the same as in the normal focusing range. ELPRO near-focusing attachments are supplied for the 50mm SUMMICRON-R f/2, the 90mm lenses, the 100mm MACRO-ELMAR-R f/4, the 135mm ELMARIT-R f/2.8, and the 75-200mm VARIO-ELMAR-R f/4.5.

MACRO-ADAPTER-R

As a ring adapter with diaphragm automation the MACRO-ADAPTER-R increases the extension of the lenses by 30mm. The full-aperture measurement and the function of the auto-diaphragm are fully preserved. Automatic shutter speed control as well as manual setting of exposure time and lens stop can be used on the LEICA R4. It is therefore possible to take photographs with the MACRO-ADAPTER-R as easily in the near-focusing as in the normal range.

Ring combination

A three-part ring combination, used mainly in conjunction with the 50mm SUMMICRON-R f/2 standard lens, permits photography within the range of 1:2 to 1:1 reproduction ratio. The combination can be extended at will through the addition of several middle rings. It can also be used in conjunction with the lenses of 90, 135, 180, 250, 350mm focal length. The lens diaphragm can be closed semi-automatically with a twin cable release.

ELPRO 1	16 541	_____
ELPRO 2	16 542	_____
ELPRO 3	16 543	_____
ELPRO 4	16 544	_____
MACRO ADAPTER-R	14 256	_____
Two-part ring, height 25mm	14 158	_____
Middle ring, height 25mm	14 135	_____
Ring combination, height 50mm	14 159	_____
Twin cable release for same	16 494	_____



Special equipment for the near-focusing range

Universal Focusing Bellows-R

The Universal Focusing Bellows-R are eminently suitable for continuous focusing within the range from infinity to macro. The main consideration in its design was a robust, vibration-free construction.

A rotatable scale rod on the side of the Universal Focusing Bellows-R shows the reproduction scales obtainable with the 90, 100, and 135mm lenses, as well as a millimetre scale. All LEICA R lenses from 50 to 350mm focal length can be used. The 100mm MACRO-ELMAR f/4 special lens is particularly recommended for use with the Universal Focusing Bellows.

Special lenses for macrophotography

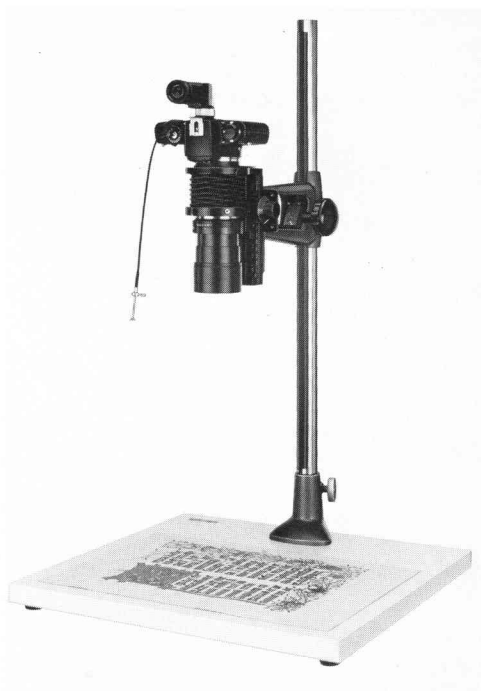
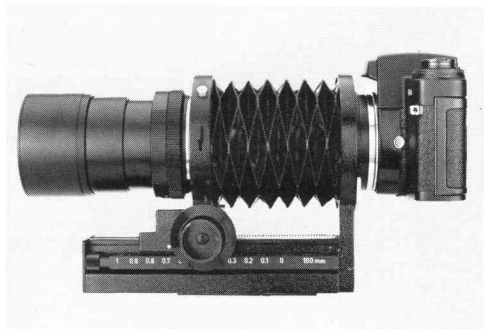
The PHOTAR macro lenses are suitable for magnified reproduction on the film. Macrophotography possible with these lenses extends to about 16x magnification on the film, corresponding to an object area of no more than 1.5 x 2.3mm.

The PHOTAR lenses thereby open up the wide and interesting field of extreme close-up photography practically continuously. They are attached to the Universal Focusing Bellows-R with the PHOTAR-Adapter-R.

Copying stand

For the reproduction of documents, drawings and other originals the copying stand ensures parallel position of film plane in the camera and of the original. Can be set simply and quickly for different object sizes with the vertical adjustment of the carrying arm with the camera and permits precision focusing.

Universal Focusing Bellows-R	16 860	_____
Twin cable release for same	16 494	_____
100mm MACRO-ELMAR f/4	11 230	_____
12.5mm PHOTAR® f/2.4	549 025	_____
25mm PHOTAR f/2	549 026	_____
50mm PHOTAR f/4	549 027	_____
PHOTAR Adapter R	14 259	_____
Copying stand	16 707	_____
Angle finder	14 326	_____



Filters

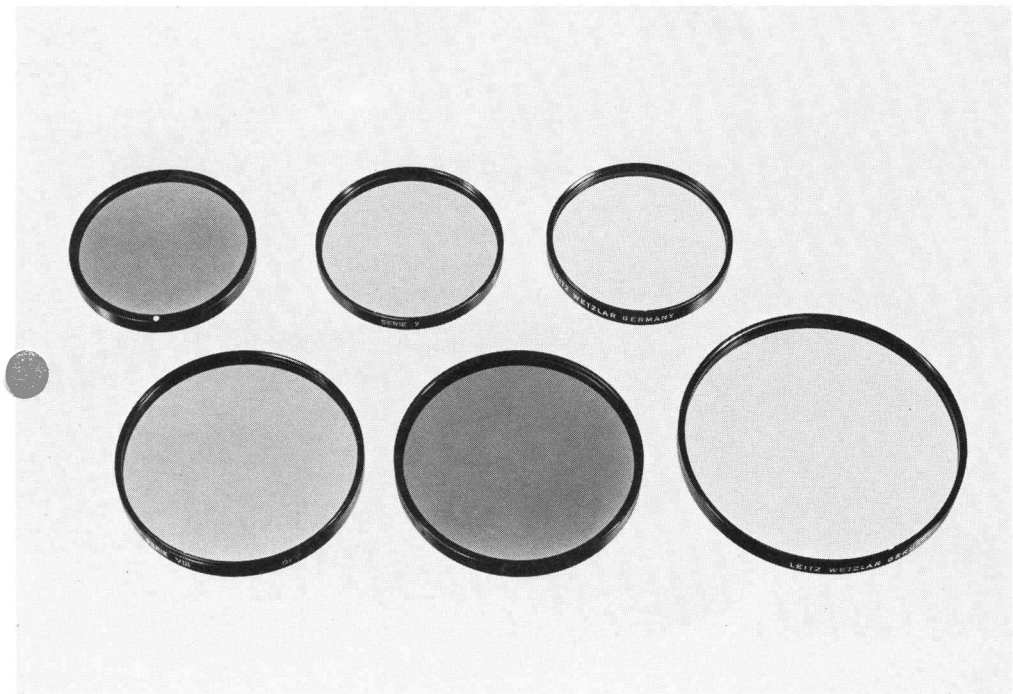
With colour filters corrections can be made in the translation of colours into grey values. Colour contrasts can be enhanced with polarising filters. Colourless UV filters protect the front element of the camera lens.

Filters must never impair the performance of a lens. The most important condition is perfect optical quality. LEITZ filters are produced to the same precision standards as LEITZ lenses.

	Screw-in filters			
	E 32*	E 55	E 60	E 67
UV	13 400	13 373	13 381	13 386
Yellow	13 403	13 236	-	-
Yellow green	-	13 391	13 392	13 393
Orange	13 402	13 312	13 383	13 388
Red	13 401	-	-	-
Neutral grey 4x	13 405	-	-	-
Circularly polarising filter	-	13 357	13 376	13 377
Polarising filter	-	13 374	-	-

	Series filters				
	6	7	7.5	8	8
UV	13 012	13 009	-	13 018	13 024
Yellow	13 013	13 006	-	13 019	-
Yellow green	13 014	13 007	-	13 021	-
Orange	13 011	13 008	-	13 017	13 023
Circularly polarising filter	-	13 370	-	13 372	-
Filter adapter	14 160 (E 44)	14 161 (E 54)	14 222 (E 59)	14 165 (E 72)	
		14 225 (E 55)	14 263 (E 60)	14 264 (E 67)	

* As replacement (for the 500mm MR-TELYT-R f/8).



Universal handgrip with shoulder stock.

Long-focal length lenses and the Universal Focusing Bellows R can be held with the universal handgrip without fatigue and camera shake. Handgrip and shoulder stock are adjustable and can be adapted to the shape of the user's body. A carrying strap with non-slip pad is offered as an accessory for heavy equipment. The universal handgrip with shoulder stock is part of the 400mm TELYT-R f/6.8 and 560mm TELYT-R f/6.8 outfits.

It can also be used to great advantage with the new generation of 250 and 350mm lenses.

Electric release switch R4

With the release switch R4, length 30cm, a function control in the viewfinder of the LEICA R4 is possible during work with the universal handgrip and the MOTOR WINDER R4 or MOTOR DRIVE R4. When the slack of the release button is taken the viewfinder displays of the LEICA R4 light up.

Universal handgrip with shoulder stock	14 188	_____
Carrying strap for heavy equipment	14 130	_____
Electric release switch R4, length 0.3m	14 237	_____





Camera cases

A practical range of camera cases is available for the LEICA R4:

Everready case for the LEICA R4 without MOTOR WINDER or MOTOR DRIVE. Genuine leather, with standard front part for lenses from 21 to 50mm	14 569	_____
Ever-ready case for the LEICA R4 without MOTOR WINDER or MOTOR DRIVE. Genuine leather, large front part for lenses from 60 to 90mm	14 568	_____
Combination case, genuine leather, for one LEICA R4 with accessories and up to 4 lenses	14 832	_____

Combination case, genuine leather, for one LEICA R4 with MOTOR WINDER/ MOTOR DRIVE and accessories and up to 4 lenses	14 833	_____
Robust canvas combination case for one LEICA R4 with MOTOR WINDER/MOTOR DRIVE and accessories and up to 4 lenses	14 837	_____
Universal case, genuine leather, for two LEICA R4 cameras with MOTOR WINDER/MOTOR DRIVE and accessories and up to 6 lenses	14 834	_____
Reporter case, genuine leather, reinforced, without compartments	14 830	_____





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Worldwide**

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