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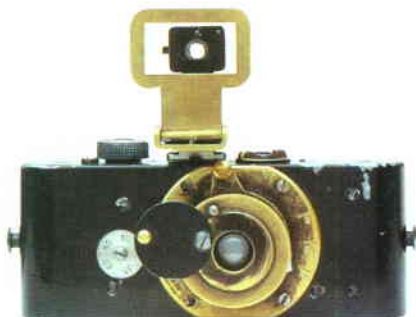
LEICA R4s MOD. P

Aperture Priority

Two Exposure Measuring Methods



Leitz means precision. Worldwide.



Ur-LEICA (1913)
Oskar Barnack's prototype



LEICA I (1925)
The first LEICA camera manufactured in series



LEICA II (1932)
with interchangeable lenses and built-in range finder



LEICA III f (1950)
with flash synchronization



LEICA M3 (1954)
range finder with illuminated fields of view and bayonet mount



LEICA M4-P (1980)
six viewfinder frames and motor capability



LEICAFLEX (1965)
The first single lens reflex LEICA camera

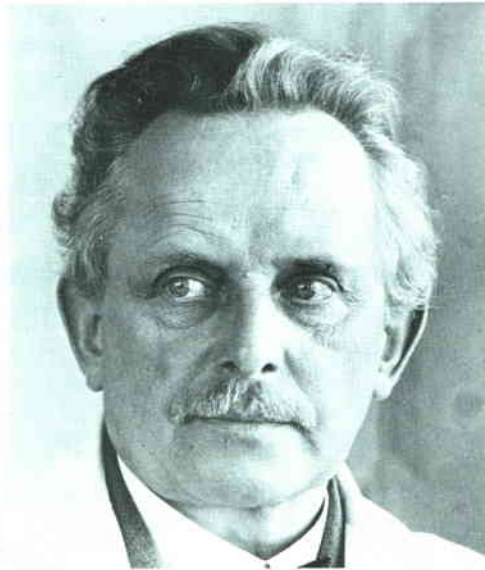


LEICAFLEX SL (1968)
with selective, through the lens, exposure measuring

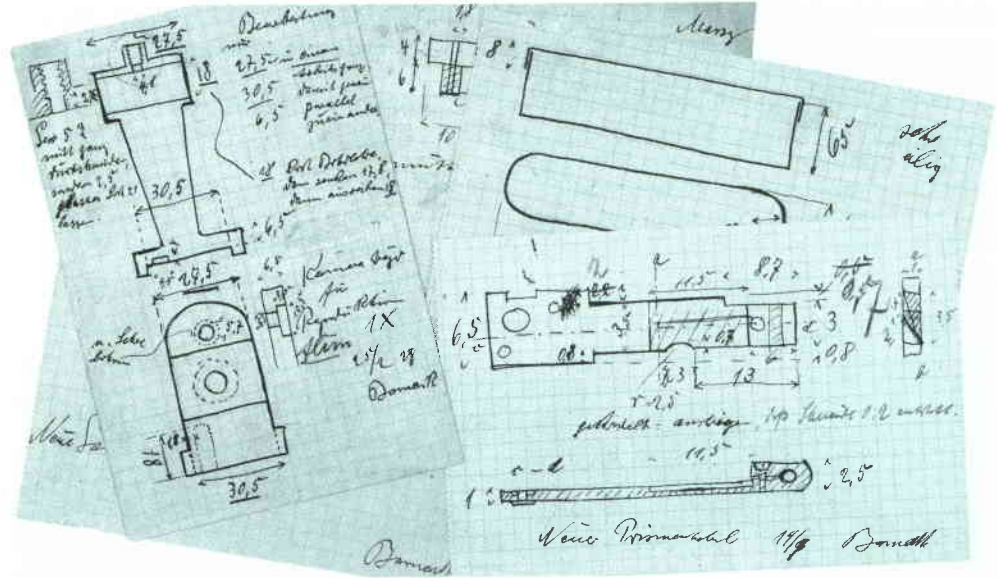


LEICA R3 (1976) with two exposure
measuring methods: integrated and selective

The LEICA camera started the era of 35 mm photography



Oskar Barnack, inventor of the LEICA camera.



These are Oskar Barnack's initial design sketches.

The original idea for the LEICA design was rather simple and logical which is so often the case with an ingenious idea. Oskar Barnack, the head of the design development department of the Ernst Leitz Optical Works Wetzlar, needed samples of film exposure for his motion picture camera. The enlarging results from his motion picture films encouraged him to continue work on the development of a pocket camera. He simply doubled the frame size to 24 x 36 mm and thus the Ur-LEICA, with the now classic miniature film format, was born.

At the Leipzig fair in 1925 the first production model was shown and caused a sensation. Reporters began to develop modern photo journalism with the LEICA camera and launching the beginnings of the photo journalism press. Amateurs discovered the ease of photography with the LEICA camera and the world of photography had been changed.

Each LEICA camera model which entered the market so far brought new advances. Today as well as in the beginning, the name LEICA is synonymous with quick and easy handling, highest

optical performance, dependability and long life. The LEICA R4s MOD.P continues this tradition. The name Leitz guarantees it.



**Leitz means precision
Worldwide.**

Special features of the LEICA R4s MOD.P

The LEICA R4s MOD.P was designed to meet the extreme demands of the working professional. It is an electronic SLR with three exposure modes: aperture priority with full field metering, aperture priority with spot metering, and manual operation with spot metering. Switching from spot to full field metering is rapid.

- The R4s MOD.P accepts all Leitz interchangeable reflex lenses with focal lengths from 15 to 800mm and every reflex accessory.
- Five interchangeable focusing screens permit optimum performance of the camera.

- Attachable motor winder and motor drive enhance the possibilities of dynamic photography.
- The R4s MOD.P has a new exposure override mechanism for use with the camera's two automatic modes. This device permits fast, easy "bracketing" while shooting in the aperture-priority automatic modes (+2 to -2 f/stop range in 1/3 f/stop increments).
- The selected shutter speed in manual mode is shown in the viewfinder.
- The mode selector switch has a new 2-touch lock.
- New "high profile" design of the rewind knob and shutter speed dial makes for faster handling.
- The world wide warranty means quick and dependable trouble shooting, maintenance and, when necessary, repair via 120 Leitz agencies and a strong network of camera dealers.



A camera which retains its value

At Leitz there is a department called Leitz Quality Assurance. It establishes the standards which must be met by every sample of each product. The approval of Quality Assurance is required before any prototype can be put into production, and the production series is also tested at every step. Quality Assurance does not answer to the design, manufacturing, or marketing departments, but only to top management.

If a test sample shows after 100.000 shutter releases only the slightest irregularity, the entire production is retested. "Made by Leitz" has traditionally stood for the highest quality standards. This is why the LEICA camera is not simply lacquered black, instead it is black chromium plated in accordance with a special, Leitz developed, procedure. Because a LEICA camera should not only look new when new, but also after many years of use.

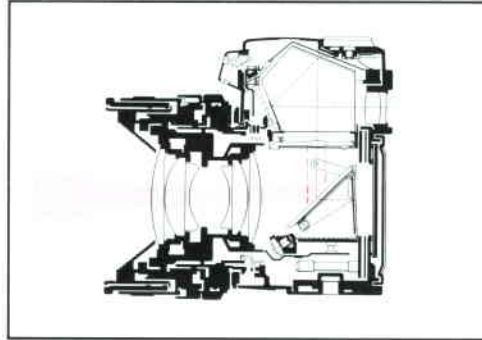
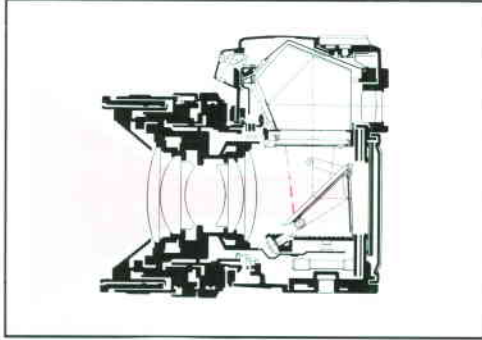
Quality is apparent in the small details. One hears it when the lens snaps in and locks into the hard chromed bayonet mount. One notices it when the focusing mount glides smoothly during focusing and brings the picture easily and softly into sharp focus. The ultra smooth release action testifies to the quality, the precision material and the workmanship used in the camera.

The LEICA feel is difficult to describe. One simply has to take the camera into one's hands. This will quickly prove that it is not only beautiful for its own sake, but because it was built resolutely for hard usage.

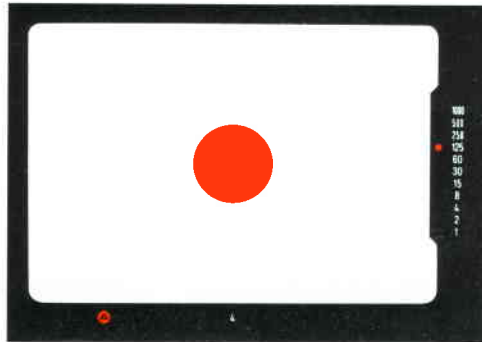
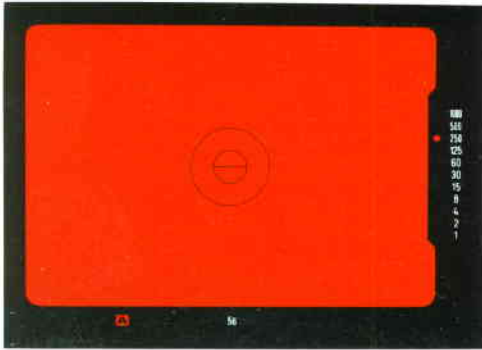


It is a tool – but a fascinating one.

Integrating and selective – a guarantee for successful exposures



Without taking the eye from the camera, a quick change-over from one measuring method to another may be accomplished.



Schematic drawing of the Leitz largefield integrating measuring method.

Schematic drawing of the Leitz selective measuring method.

Every photographer knows the problems “What would be the correct exposure?”

A never to be repeated event, against the light, showing dramatic shadows in the left foreground, one must react in a fraction of a second and measure the exposure accurately... and yet the question remains: should the automatic setting expose at will? Or is it neces-

sary to expose one or even two steps above or below normal? ... or, was not there something else to consider? In this way many a picture is lost.

Automatic exposure determination is nothing new anymore. That is as it should be. The less the photographer is involved in technical details, the more he can concentrate in the scene.

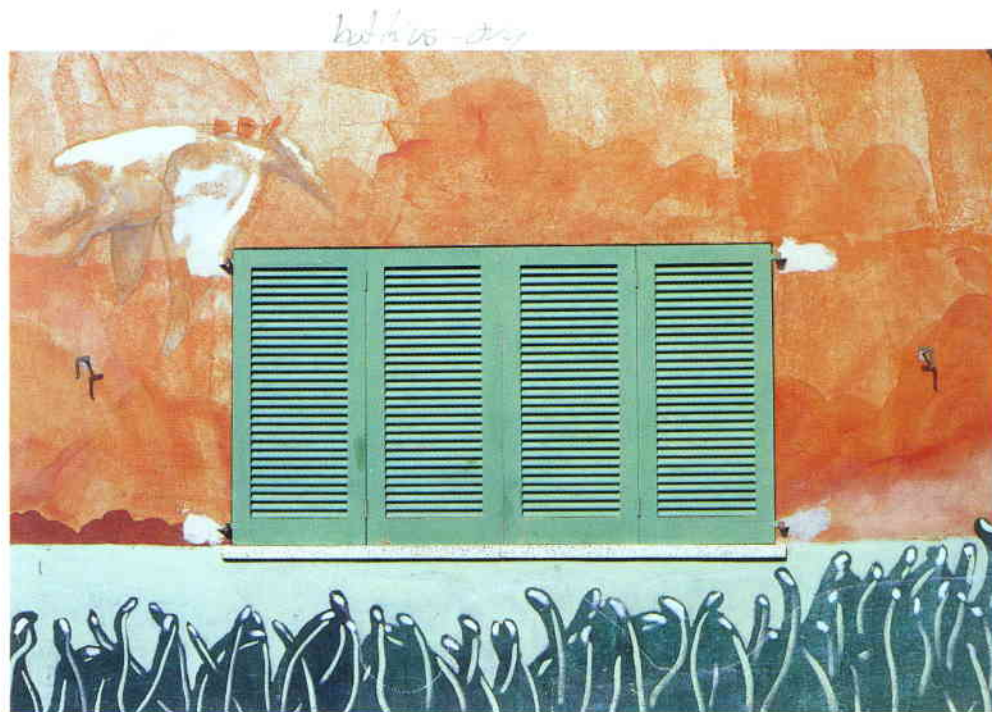
However, a simple automatic system

cannot deal successfully with every lighting condition; special conditions require special measuring methods.

Therefore, the LEICA R4s MOD.P has two exposure measuring methods: A center weighted large field integrating method for all scenes with normal lighting conditions.

And, as something extra, the Leitz selective measuring method, which allows measuring a specific, important portion of the scene, and is thus able to deal with even difficult lighting conditions.

Photography with ease using the largefield integrating measuring method



In many cases the integrating method is the correct and dependable one. True in all cases if there are no extreme light and color contrasts, no heavy shadows and when the bright and dark portions of the subject are about even. The exposure meter now registers the result of the entire image area.

Since usually the important detail is in the center, the measurement is center-weighted.

Measuring range:

0,25 cd/m² to 63.000 cd/m² at f/1.4 and ISO 100/21°. Exposure values of +1 EV to +19 EV or opening f 1.4/1 sec. to f 22/1/1000 sec.

Even difficult lighting conditions can be mastered with the selective measuring method



Unusual photos are generally made under uncommon and difficult lighting conditions – against the light scenes, side light, spotlighted scenes – etc. This is the strong point of the Leitz selective measurement method. Scenes before a bright or very dark background, a portrait against the light, the view through an arched gate, open light sources – these are no problems for the LEICA R4s MOD.P. The measurement area corresponds to the central circle in the viewfinder. Use this circle to aim for the

important image portion and release the shutter. The exposure time will consider in its exposure determination only that portion which lies within the circle, regardless of what occurs within the rest of the viewfinder area.

Measuring range:

1 cd/m² to 63.000 cd/m² at f1.4 and ISO 100/21°. Exposure values from + 3 EV to 19 EV or opening f 1.4/1/4 sec. to f 22/1/1000 sec.

Optimum picture framing with measured value storage




The selective measurement method, per se, is an excellent feature, but this is not all. Frequently, the selectively measured detail does not really belong in the middle. It is for this reason that the measured value can be stored for 30 seconds by depressing the shutter release button until the mode symbol at the lower left is extinguished. Thereafter the desired picture frame may be chosen in good time and the shutter released under the predetermined exposure value.

Measuring selectively, value storage, determination of the desired picture area and shutter release are done so quickly and easily that the photographer can carry out these functions after a short time almost unconsciously. Obviously, this is the best prerequisite for optimum picture composition and perfect exposure without technical problems.

The viewfinder as a composition and control center

The viewfinder shows all that is necessary to compose and focus the scene. Even when lighting is poor the finder image is brilliant and bright. Interchangeable focusing screens are available for quick and accurate framing to suit different tasks. A prerequisite for using the LEICA lenses to their maximum potential.

The camera functions are shown at the borders of the viewfinder image.

Below, left an illuminated  signals that the camera is set on automatic shutter speed control and selective exposure measurement.

The preselected diaphragm setting is displayed in the center below.

On the right hand side of the viewfinder border an illuminated diode shows the exposure time, formed automatically based on the preselected diaphragm.

This operates continuously and so accurately, that it may even turn out to be $\frac{1}{99}$ th of a second. In this case two diodes will light up, the one for $\frac{1}{60}$ and the one for $\frac{1}{125}$ sec.

Should it be too dark or too bright for the chosen diaphragm setting, a triangular symbol shows above or below the shutter speed scale indicating over – or under-exposure. The lens opening is then either opened or closed further.

The illustrations show the universal focusing screen



Split wedge

When the image is out of focus, the edges and horizontal lines of the object are actually displaced.



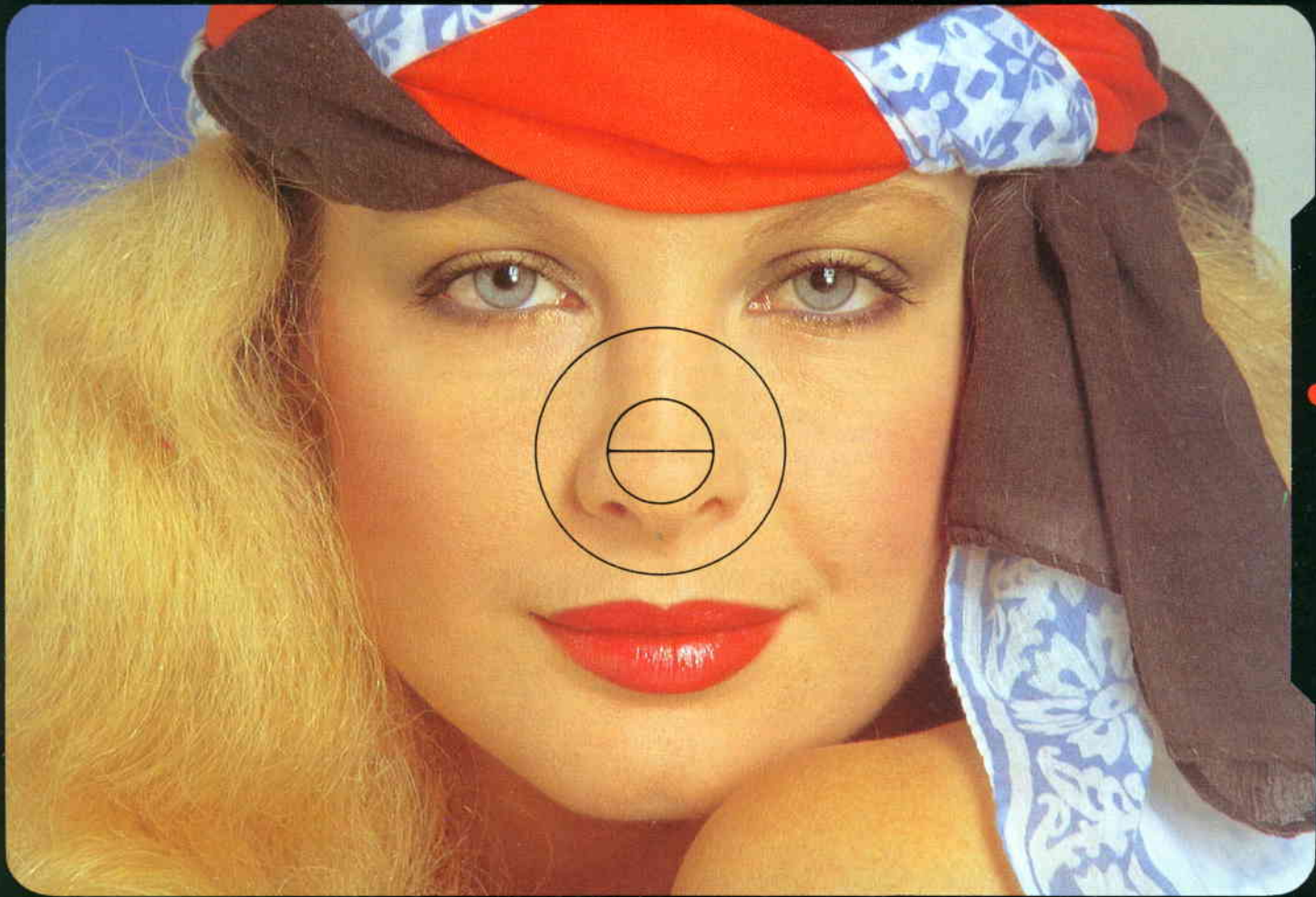
Ring with rectangular prism screen

The central split-wedge is surrounded by a rectangular prism screen. Flickering clearly indicates the out of focus position.



Matte surroundings

Here the image is best focused with long focal length lenses and in the near-focusing range.

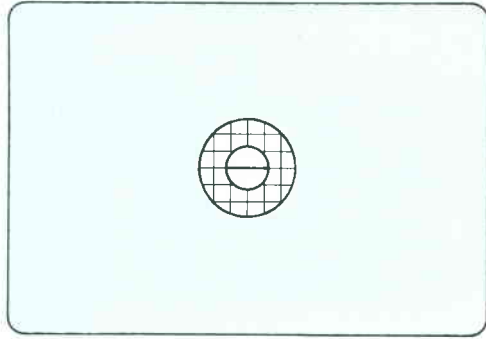


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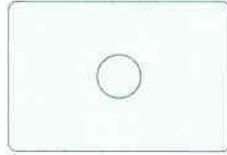
Interchangeable focusing screens for every task



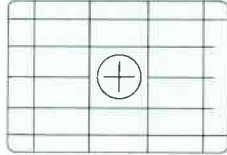
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The LEICA R4s MOD. P is normally supplied with a **universal focusing screen** (1). It contains three focus aids: the basic matt screen, a 7mm diameter ring with rectangular microprisms and a centrally located split-wedge rangefinder 3mm in diameter. The 7mm ring shows at the same time the measuring field for the Leitz selective measurement mode.

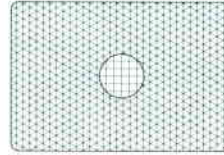
The universal focusing screen is best suited for most photographic tasks. Special applications require individualized systems for quick and exacting work. Therefore, four additional focusing screens are available as accessories. Special tweezers are supplied to interchange screens quickly and easily.



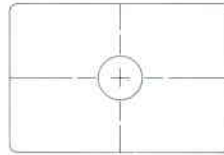
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(2) If one uses the camera in the extreme near focusing range or with long focal length lenses the **ground glass screen** is ideal. Sharpness can be evaluated exactly over the entire field. The circle in the center shows the measurement field for the selective measuring mode.

(3) Without the split-wedge rangefinder of the universal focusing screen, the **micro-prism screen** allows for easy evaluation and composition of the scene. The micro-prisms show clearly the sharpness or unsharpness – range and provide a brilliant, contrasty and clear viewfinder image.

(4) For panorama pictures, architectural photography and reproductions, the camera ought to be perfectly aligned. The **uniform ground glass screen** with grid lines is particularly suited for this purpose. The vertical lines left and right of the circle, exactly 10mm apart, allow the easy determination of the reproduction ratio for close-up work.

(5) For photomicrography or astronomical pictures the **clear glass screen** is best. When the camera is employed with optical instruments which magnify images, as for instance with microscopes or astronomical telescopes, this type of focusing screen is ideal.

Technical details

Electronically controlled, 35 mm single lens reflex camera with through the lens dual measurement method: Leitz selective measurement or Leitz large field, integrating measurement.

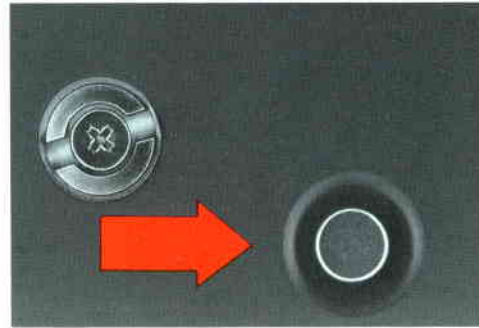
Solid metal housing with removable back. 138.5mm long, 88.1mm high, 60mm deep, weighing 620 grams. Tripod thread $\frac{1}{4}$ "x20. LEICA R quick change bayonet mount.

Built-in pentaprism, interchangeable focusing screens, viewfinder displays via LED, viewfinder magnification appr. 0.85x with 50mm lens, the viewfinder image corresponds to 92% of the film image area. (= Image area of a framed slide).

Metal multi-blade, vertical, focal plane shutter; stepless, electronically controlled exposure times from $\frac{1}{1000}$ sec. to approximately 8 sec. when operated automatically. Manual settings: $\frac{1}{1000}$, $\frac{1}{500}$, $\frac{1}{250}$, $\frac{1}{125}$, $\frac{1}{60}$, $\frac{1}{30}$, $\frac{1}{15}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$ and 1 sec. Mechanically controlled speeds: x ($\frac{1}{100}$ sec.), 100 ($\frac{1}{100}$ sec.) and B. 100 and B will function even without batteries. Electronic flash synchronization $\frac{1}{100}$ sec. Automatic switch-over when using dedicated flash units.

Current supply for the exposure meter and the shutter from two silver oxide button cells or one 3v lithium battery.

Special technical details



Electronic Self Timer

Running time is approximately 8sec. A blinking LED signals its operation, changing to a constant signal 2 sec. before the shutter is tripped.

Multiple Exposures

Depressing the rewind button disengages the film transport. The shutter can now be wound by operating the rapid winding lever without transporting the film forward. At the end of the travel the rewind button will re-set automatically. If more than two exposures are to be made on the same film frame, the rewind button must be depressed anew before winding the shutter.

Data Back DB LEICA R4

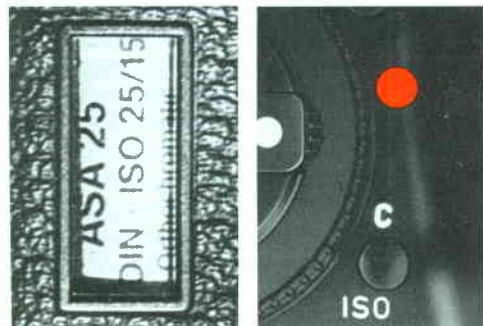
The data back enables the user to record data directly on the film. Negatives or transparencies may be given letter or numerical codes; a valuable feature when one wishes to serialize a group of pictures. Such data may also be valuable to reconstruct specific phases or events in effect at the time the pictures were taken. The opportunities are many: Whether taking family pictures or one wishes to record various stages during the building of a home, or for experimental photography in the laboratory, the data back allows the identification of the photograph positively and conveniently. Data back DBR4 can be inserted in place of the back of the camera and connected by means of a cable to the flash contact of the camera.

Film and Battery Test

A window in the camera back shows clearly if and with what film the camera is loaded. For testing the battery condition, simply depress the test button. If the red control lamp lights up, the batteries are o.k.

Depth of Field Preview Lever

To check the depth of field for a certain f-value, the depth of field preview lever, easily accessible, is used.



The motorized LEICA for instant action readiness, sequence, and remote release photos

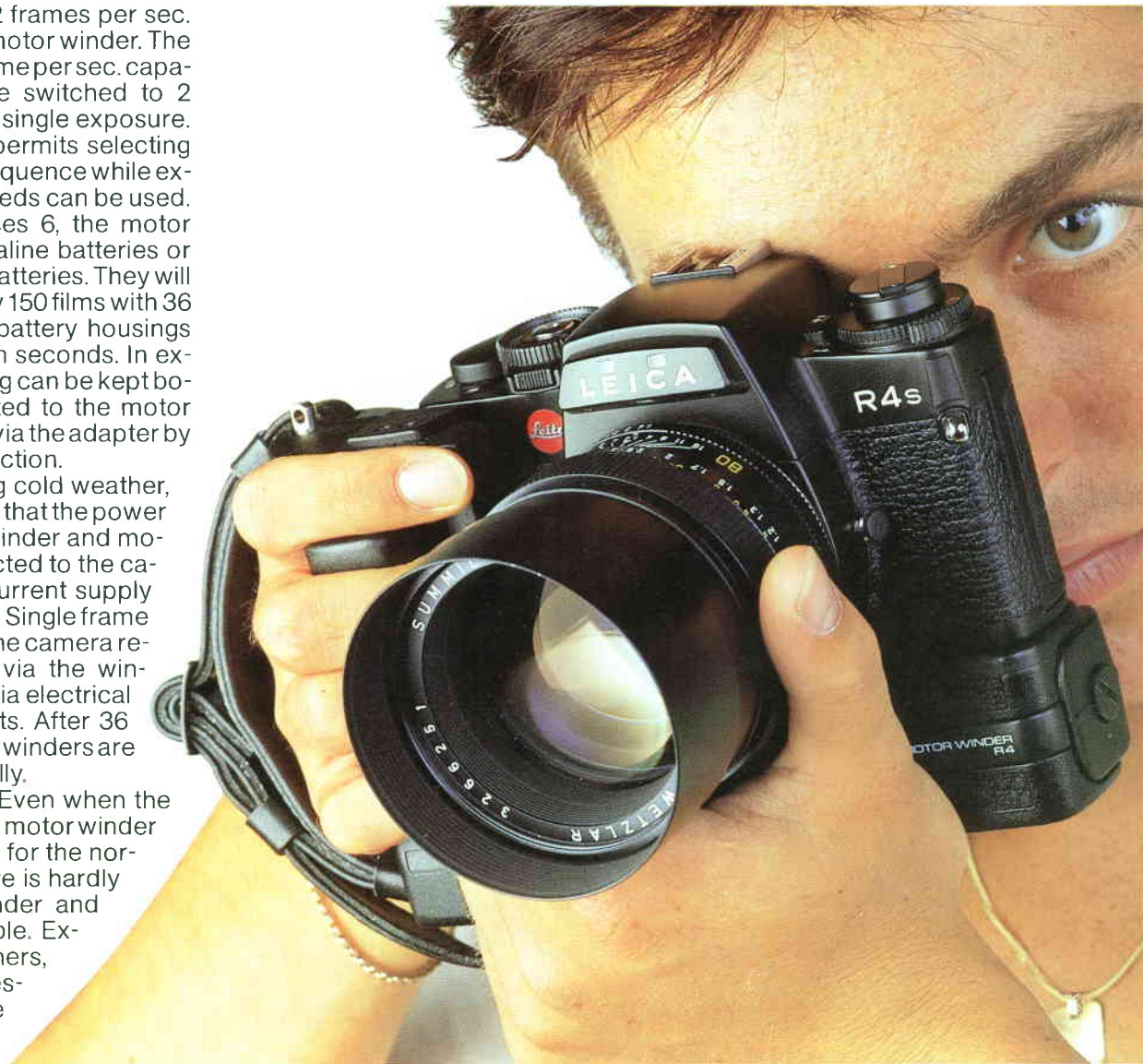


In many situations, constant readiness for action and follow-up photos are essential for successful, dynamic pictures. The motor winder and the motor drive expand the possibilities of dynamic photography and of fully automatic image recording in numerous ways. With motor wind and film transport the camera is better suited for quick single and sequence photos, exposure by remote electronic control, cable or radio releases (wireless releases).

Photo sequences of 2 frames per sec. are possible with the motor winder. The motor drive has a 4 frame per sec. capability but can also be switched to 2 frames per second or single exposure. A convenient switch permits selecting the 2 frame per sec. sequence while exposing. All shutter speeds can be used. The motor winder uses 6, the motor drive 10, standard alkaline batteries or rechargeable NiCad batteries. They will expose approximately 150 films with 36 frames at 20°C. The battery housings are interchangeable in seconds. In extreme cold, the housing can be kept bodywarm and connected to the motor winder or motor drive via the adapter by remote control connection.

Also, especially during cold weather, it is of great advantage that the power supply of the motor winder and motor drive when connected to the camera, furnishes the current supply for the camera as well. Single frame photos are made via the camera release; series photos via the winder motor release or via electrical cable and control units. After 36 exposures both motor winders are turned off automatically.

And one more point. Even when the camera is operated by motor winder or motor drive except for the normal shutter noise there is hardly any other noise. Winder and drive are hardly audible. Experienced photographers, and especially professionals, appreciate the value of this feature.



MOTOR-WINDER R4 and MOTOR-DRIVE R4.

Robust mechanism, easy handling



MOTOR-WINDER R4:

Motorized film transport and shutter wind. Single picture and series photos up to two shots per sec. 140 mm long, 40 mm high, 50 mm depth, weight: 225 g without batteries.



MOTOR-DRIVE R4:

Motorized film transport and shutter wind. Single picture and series photos up to 4 shots per second, switch over from 2 pictures per sec. to single photos. 140 mm long, 45 mm high, 61 mm depth, weight 320 g without batteries.



Tripod Holder

Used for holding the camera with long lenses and motor winder steady on a tripod. Rigid design with two convenient connecting screws.



Adapter for external supply

When it is very cold the current supply for the motor winder, motor drive and the camera may take place "out of the pocket" via adapter, where batteries/NC are kept under body-warm temperature.

The battery/NC housings of motor winder or motor drive are interchangeable in seconds. A replacement housing with batteries provides additional security when used constantly. (In continuous use, in the cold, for expeditions etc.)



MOTOR-WINDER R4 and MOTOR-DRIVE R4 in combination with the RC LEICA R

The electronic remote control unit RC LEICA R with motor winder and motor drive offers a number of delightful possibilities. It serves as remote release in conjunction with the automation of the camera and opens up new dimensions of photography. Many of these intriguing possibilities will be covered in the following pages.

The control unit fits comfortably in one hand. It can be operated either with the left hand or the right hand. All functional elements are arranged on top.

Using the remote control unit, the camera may be released either manually or automatically. After release, a luminous digital display provides the feedback from the camera. The double digit 9mm display clearly indicates when the exposure is completed; furthermore, the number of completed exposures can be verified from the same display. If exposures have previously been made without the control unit, an input button is provided to set the unit correctly. If, for instance, 12 exposures have previously been made, the control unit will show a reading of 13 after adjustment. On the automatic mode the range of release intervals is from one frame every 0,5 sec. to a frame every 10 minutes. The interval may be adjusted continuously. With the setting at "test" the desired time intervals may be determined exactly without tripping the camera shutter. The release impulse then becomes visible when the right hand decimal point in the display lights up.

The current supply of the remote control unit comes from the batteries/NC of the motor winder or motor drive.



The many facets of the LEICA R-system



Remote release

with electric cable release.

A 5 meter long cable, in combination with extension cables is the simplest remote release device and is recommended when no function control of the camera is necessary. It has a threaded plug and can be extended via a cable of 25 meters up to a maximum length of 100 meters. The various remote release accessories of the motor winder and motor drive can be used in this manner.



Remote release

via Remote Control LEICA R4. The electronic remote release with simultaneous function control and digital feedback display from the camera is the best solution for controlled remote release.

Automatic Interval Control

For pre-programmed shutter release, the RC LEICA R control unit offers interval variations between 0.5 to approx. 600sec.; this is a useful exposure range: every 1/2sec. or up to every 10min. Applications: growth studies, blossoming sequence of flowers, seed germination, root development, documentation as for instance determining traffic densities at different times, escalator capacity in department stores, train terminals etc., security surveillance at exhibits, traffic flow in department stores, monitoring of machines and their controls.



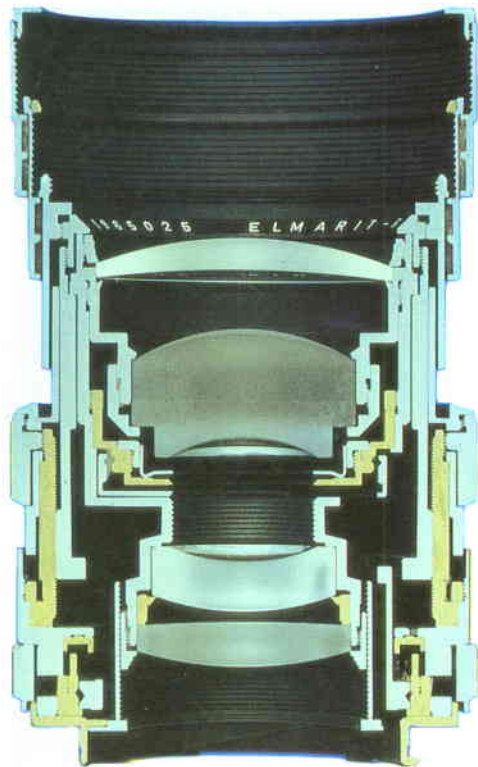


Multiple exposure

Using the LEICA R4s MOD.P with remote control unit simplifies multiple exposures. It is easy to show the various stages of the moon on the same frame. All moving sequences which appear against a dark background, offer good opportunities, not to mention the interesting effects of double or multiple exposures of persons. Really something for the creative photographer.



LEICA R-lenses



The design and development of a lens is an intriguing science. Large main frame computers have opened ways to optimize all properties of optical glass so that the limits of physical possibilities are now achievable. Careful "timing" of anti-reflection coatings to particular glass-types assures almost 100% light transmission within the entire visible spectral range. Special "Absorban" cement layers used in Leitz lenses causes

an effective cut-off of the ultraviolet rays of light. This also assures that all Leitz lenses maintain the same color balance.

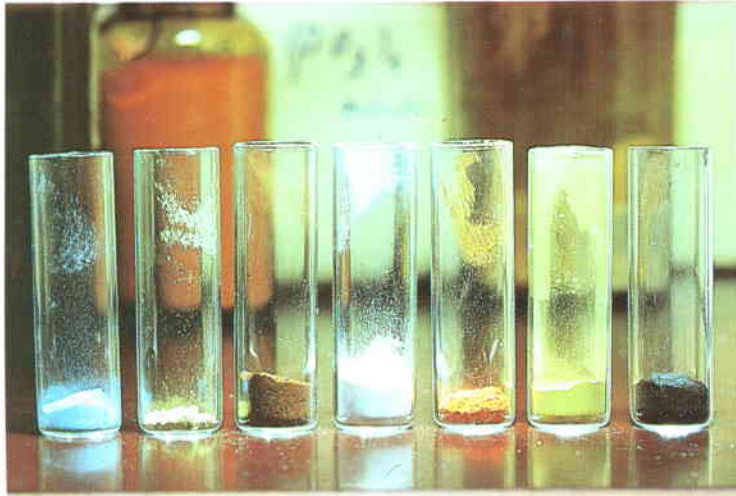
What does the photographer gain from this extra effort?

Keep the sun at your back, set the lens to $f/8$ and the exposure time to $1/125$ is an old recipe which is sometimes quite correct. But unusual photos are created differently. Shooting against the light, for instance, and with the lens fully open, so as to locate the area of sharpness accurately within millimeters. And now you will see what Leitz lenses are capable of. Sharpness "to the point", high contrast and great resolving power are the strengths of LEICA photos. The largest lens opening can be chosen without reservation, it is a fully useable working aperture.

The mechanical features of the lens do not trail behind the optics. The helical focusing mount, for instance, brass to aluminium, is individually grouped to one another. Therefore, a light, specially developed, grease, spread thinly, is sufficient to allow smooth, jerkfree focusing even under unusual temperatures and hard daily use. Leitz lenses retain their efficiency and sure-function dependability for decades.

Common, outstanding features of all LEICA R-lenses:

1. The rotation direction of the helical focusing mount of the lens and diaphragm click-stops are matched and adjusted for optimum control at extremely high or low temperatures.
2. Positioning is the same for all lenses.
3. All lens parts are protected against corrosion so as to function perfectly in nearly all climatic conditions.
4. LEICA R-lenses can be used at temperatures between -25 and $+60$ degrees C without restriction.
5. To resist blows or impact, the lenses are designed to withstand up to $100x$ their gravitational force. This is equally important for blows which may occur as a result of the various methods of transportation.
6. The auto diaphragm runs on ball bearings. The closing time from full aperture to it's smallest setting is maximum 40 milliseconds.
7. The auto diaphragm will show no noticeable wear after more than 50,000 releases.
8. The large LEICA bayonet is mechanically robust and guarantees instant and reliable seating of the lens.
9. All lenses may be placed upright without lens cover. There are no protruding control levers which could be bent out of shape.
10. All LEICA R-lenses are supplied routinely with front and back covers together with a lens hood made to fit individually.



The Leitz glass-research laboratory melts special glasses using rare earths, and is largely responsible for the excellent characteristics of LEICA lenses.



Ultra-purity is a prerequisite for melting superior optical glass. This melting crucible might well be one of the most valuable of its type. It is made of pure platinum.



Of the 600 world known types of glass for lenses, prisms and filters Leitz maintains 350 permanently in stock.



The carefully matched anti-reflection coatings for each of the highly refractive glasses used assures almost 100% light transmission within the entire visible spectral range.

Pictorial composition made easy with the comprehensive LEICA R-system



The range of LEICA R-lenses extends from the 15 mm ultra wide-angle to the 800 mm telephoto lens.

With these lenses the photographer can select any segment of his subject using a given camera position, or, by altering his position achieve variation in perspective. These are two important criteria for creative pictorial composition.





Comparison of focal lengths

When photographing from a given point only the subject field and image size are changed by changing the focal length, but not the perspective.

Theoretically, it might be possible to enlarge a super wide-angle picture to any desired image size, but this would bring reduction in picture quality as a consequence.

When taking slides it is always desirable to fill the frame, because subsequent, sectional, enlargements are usually not possible.



Perspective comparison

With the 15 mm lens the background recedes further into the distance. Using a 400 mm one can bring it forward right up to the object in the foreground. Perspective changes are particularly noticeable when extremely short or extremely long focal length lenses are used.



The upper row of pictures shows the comparison of focal lengths.

The photographer's position was not changed; note the perspective relationship of the subject within the picture area.

The bottom row of pictures shows the comparison of perspective.

The photographer's position was changed so that the primary subject shows up always in the same size, while its relationship to the background changes with the focal length of the lens used.



The extreme wide-angle range



15mm SUPER-ELMAR-R f/3.5

Especially suited for landscapes, architectural and fashion photography, with unusual effects and for pictures of models which are to transmit an impression of realism.



16mm FISHEYE-ELMARIT-R f/2.8

For unusual image formation. Straight lines will be straight only as long as they run through the image center. The barrel distortion becomes the more pronounced the more the lines are located toward the edge. The entire picture frame is filled within the oblong camera format.



19mm ELMARIT[®]-R f/2.8

Using this high speed super wide-angle lens appreciably improves the picture content. The short focus distance of 30 cm for close up pictures favors striking perspective conditions.



21mm SUPER-ANGULON[®]-R f/4

This lens exhibits excellent definition and even illumination over the entire picture area. It offers dramatic effects of composition with a prominent foreground, receding background and a broad horizon.



24mm ELMARIT-R f/2.8

Ideal for photo journalistic purposes within limited space and for pictures with unusual perspective. Its "floating elements" assure excellent image quality over the entire focusing range, especially close-up.



The conventional wide-angle range



28mm ELMARIT®-R f/2.8

Exceptionally compact design in spite of its fast speed is a characteristic of this lens. Only 40 mm long it weighs 275 g. The angle of view of 76° permits favorable picture composition without the ultra wide-angle perspective.



35mm SUMMILUX®-R f/1.4

Ultra high speed with superb performance, even for subjects with high contrast. Floating elements ensure good field flattening even at close focus distances down to 0,5 m.



35mm SUMMICRON®-R f/2

This lens belongs to the top of the line of fast wide-angle lenses: it is ideal for the candid shot under poor light conditions. It's correction range extends from ∞ to 1.40 m.



35mm ELMARIT-R f/2.8

Superior optical performance with compact design; it offers the Leica Photographer those special advantages which he appreciates most. Already fully open, this lens delivers excellent flatness of field, high contrast and excellent resolution.



35mm PA-CURTAGON®-R f/4

This is a special wide-angle lens for architectural and landscape photography. To compensate for the converging of vertical lines, the optical system can be displaced by 7 mm to either side, or top or bottom. By means of this perspective compensation the camera need not be inclined.

Standard focal lengths



50mm SUMMILUX®-R f/1.4

High speed lens for the photo journalist. Extra good and contrasty image rendition – for such a high speed lens – is admired over the entire focusing range.



50mm SUMMICRON-R f/2

A universal lens with excellent overall definition including the close-up range. Already fully open, it exhibits maximum sharpness, high contrast and good detail rendition.



60mm MACRO-ELMARIT-R f/2.8

A universal lens with the great advantage of a focusing range from ∞ to 27 cm (1:2). Using the Macro-Adapter-R permits operating within the additional macro-range from 1:2 to 1:1.



The versatile short- and medium telephoto range



80mm SUMMICRON-R f/1.4

Under extremely contrasty light, whether in the theater or at the circus, during indoor sports or photo journalism, the special advantage of this lens are freedom from reflexes and rendition of finely tuned nuances in tonal values, when taking "available light" photos.



90mm SUMMICRON-R f/2

The ideal lens for the candid shot when a discreet distance must be maintained. The high speed of this lens is doubly advantageous because it allows for short exposures and, when left wide open, with limited depth of field, the principal subject will "detach" itself with plasticity from the background.



90mm ELMARIT-R f/2.8

A remarkably compact, very handy tele lens with high contrast and definition over the entire picture area while fully open. Image quality reaches its maximum at f/4 which is retained including the close focusing range when the auxiliary lens ELPRO 3 is in use.



100mm MACRO-ELMAR-R f/4

Equally well suited for landscapes, portraiture or close-up work. It shows its optimum quality within the range of 1:5 to 1:10. The Macro-Adapter-R opens up the macro-range to 1:1.6.



135mm ELMARIT-R f/2.8

In spite of its focal length this lens is built strikingly short, therefore easy to use. It is ideal when rendering assertive detail in concentrated form.

The extended telephoto range



180mm ELMARIT-R f/2.8

Many photographers don't want to be without this lens. Using newly developed optical glass it remains light and compact yet superior in its optical performance. Even under poor light conditions focusing sharply is sure and quick and the exposure times may remain relatively short.



180mm APO-TELYT-R f/3.4

A special lens, developed to include the secondary spectrum into the lens correction in order to achieve ultra high contrast. The pictures show detail-richness and vibrant image brilliance not heretofore known for long focal lengths lenses. The superior performance begins at full aperture and hardly increases as the lens is stopped down.



180mm ELMAR[®]-R f/4

A lens for the travelling photographer, who can get along without high speed but wants to travel light. Only 100mm long, the lens fits easily into a camera bag and adds only 540g to its weight. The close focusing range of 1.8m surpasses even that of a 50mm lens when used at its shortest focus distance.



The classic telephoto range

250 mm TELYT®-R f/4 350 mm TELYT-R f/4.8

High resolution and excellent contrast together with short focusing travel support quick focusing even when light conditions are poor or during fast action required for wildlife and sports pictures.

As an accessory, a universal hand-grip with shoulder harness is available which supports these lenses without fatigue and allows the camera to be released without vibration even when the exposure times are long. An ideal combination is the use of the motor winder or motor drive. Both lenses have a tripod support, which can be switched from horizontal to vertical formats.

280 mm APO-TELYT-R f/2.8

A high-speed telephoto lens with outstanding performance. Essential for sports photography in poor light.

The apochromatic correction means that, even at full aperture, the lens shows excellent contrast and resolution. Smooth internal focusing and the different diameters of the elements make focusing very fast and easy. The tripod bushing can be set to vertical or horizontal.



Reaching into the distance



500 mm MR-TELYT-R f/8

A small and light mirror lens. One can take pictures at a safe distance and nonetheless seem to be in the middle of the action. Inherent in the design is outstanding chromatic correction. Contrast and definition are extraordinary.

400 mm TELYT-R f/6.8 560 mm TELYT-R f/6.8

The rapid focus lenses

Highly corrected achromats make extremely vibrant photos possible. To achieve rapid focus, the front barrel slides precisely in a parallel guide mount. Of particular advantage for close-up shots of small animals under the proper escape distance is the wide focus range with a small object area of approx. 16 x 24 cm for the 400 mm lens and approx. 22 x 33 cm with the 560 mm lens which may be further reduced by means of an intermediate adaptor.

Both lenses are supplied with handgrip and shoulder harness and both have carriers for tripod mounting, switchable from horizontal to vertical formats.



800 mm TELYT-S f/6.3

Due to its 16x magnification when compared to the 50 mm standard lens, very large distances can be bridged and the object of interest brought in close. The optical performance as to contrast, resolution and color differentiation excels through the use of specially computed and melted Leitz glasses.



500 mm MR-TELYT-R f/8





400 mm TELYT-R f/6.8



560 mm TELYT-R f/6.8



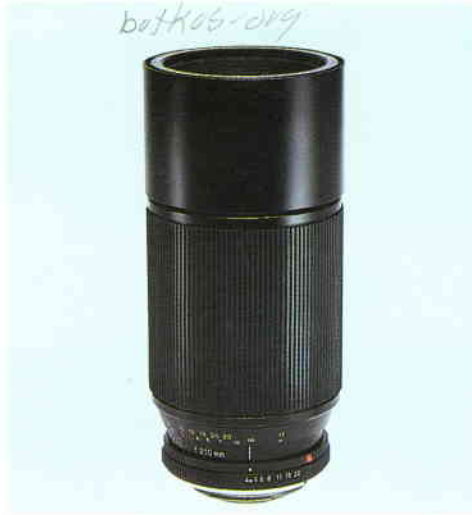
800 mm TELYT-S f/6.3

Zoom lenses / Extender



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

A small, light and handy lens which covers the normal wide angle up to the small telephoto. Fully open this zoom lens already offers excellent contrast and reproduction of detail. Two different rings are used for focusing and for focal length change.



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

A universal 3x zoom which is so insensitive to flare that even the most contrast lighting has no effect on the performance. Both focal length and focusing are set using the same large ring.



35mm focal length setting

Extender-R 2 x

Designed for all LEICA R-lenses from 50mm focal length to 800mm (except 70-210mm VARIO-ELMAR-R f/4) from f/2 or slower maximum aperture.

By designing a complex optical system with 5 lenses made of highly refractive Leitz-glasses, the high quality of the LEICA R-lenses is fully maintained.





70 mm focal length setting



210 mm focal length setting



The Extender-R 2x doubles the focal length of the lens used and reduces the diaphragm opening by two stops. A 180 mm f/2.8 lens becomes one of 360 mm f/5.6.

Accessories for close-ups

ELPRO auxiliary close-up lenses

The ELPRO auxiliary close-up lenses are achromats and, as such, increase the optical image quality in the near focusing range. Medium lens openings provide for excellent sharpness. Camera technique including exposure determination are the same as in the normal range. ELPRO auxiliary near focusing lenses are supplied for 50mm SUMMICRON-R f/2, all 90mm lenses, the 100mm MACRO-ELMAR-R f/4, and the 135mm ELMARIT-R f/2.8.



Ring combinations for the close-up range

A three-part ring combination is used mainly in conjunction with the 50mm SUMMICRON-R f/2 standard lens and permits photographs within the ratio of reproduction of 1:2 and 1:1. Its range can be extended at will by means of inserting additional rings. Also applicable in connection with focal lengths 90/135/180/250mm. A twin cable release serves to semiautomatically close the lens diaphragm.



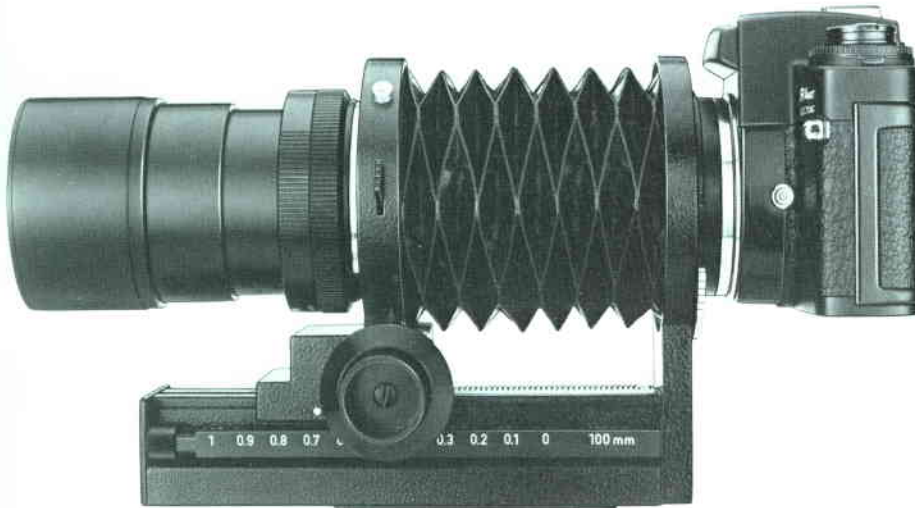
Macro-Adapter-R

An intermediate ring with auto-diaphragm extends the lens extension by 30mm. The "open-diaphragm" exposure determination and the auto-diaphragm feature are retained. Close-up photography with the Macro-Adapter-R is as easy as photography within the normal range. Detailed information is contained in Cat. No. 160-023: The LEICA-R in the near focusing range.



Bellows focusing device-R

The Bellows focusing device-R is highly popular for continuous focusing from infinity to macro. Rigid, vibration-free design is its structural feature. For fast work the pre-set diaphragm of the LEICA-R lenses is closed to the desired value by means of a twin cable release. Exposure is determined through the working aperture. A rotating scale on the side of the bellows focusing device shows the reproduction ratios for lenses of 90/100 and 135 mm focal length and it contains a scale in millimeter graduations. All LEICA-R lenses from 50 mm to 250 mm may be used without intermediate rings. The 100 mm MACRO-ELMAR f/4 for the bellows focusing device is highly recommended.



Special macro lenses

Unlike the design of "standard-lenses" the Macro "PHOTAR" lenses are computed to magnify images. Macro photography, using these lenses, can achieve a magnification ratio of 16x on the film. This represents an object area of only 1.5 x 2.3 mm. PHOTAR lenses, when used on the bellows device R, open an interesting field of stepless close-up photography to an extreme.



REPROVIT-R

The REPROVIT-R provides accurate rightangle positioning of camera film plane in relation to the subject to be photographed, such as documents, drawings, etc. The vertical height adjustment offers quick and precise focus of the camera for different object sizes.



Useful accessories

Leitz special filters:
Plano-parallel,
optically flat and
highly polished.



The Leitz table top tripod is always a handy aid. It can be folded and supplied with a ball-and-socket head.

The cable release is a practical aid in avoiding camera shake with photography from a tripod.

Rotating 90° finder,
image erecting and
laterally correct.



Universal handgrip with shoulder brace and carrying strap. For the Motor-Winder or Motor-Drive with an electric release.

The flexible eyecup shields the eye from stray light. Also, the viewfinder image appears considerably more brilliant and can be viewed more clearly.



Eyepiece correction lenses in steps from +3 to -3 diopters.



The extensive Leitz range of gadget bags and cases has the perfect model for everyone.

- ① Everready camera cases (nappa leather) with different sized fronts.
- ② Combi bags (nappa leather) for camera body with motor drive and up to four lenses.
- ③ Sturdy canvas bags.
- ④ Universal case (nappa leather) for large outfits.
- ⑤ Reporter case of genuine leather.

Cases



The complete system

LEICA R4s MOD. P black chromium finish Code No. 10 047 Price _____

Accessories for the camera:

Eyesight correction lenses:
Spherical + or - 0.5, 1, 1.5, 2, 3 14 330
to 14 339 _____
Interchangeable focusing screens:
in container, with brush and forceps
Universal focusing screen (replacement) 14 303
Groundglass screen 14 304
Micro prism screen 14 305
Groundglass screen with grid 14 306
Clearglass screen with cross lines 14 307
Eyecup 14 215
Data-back DB LEICA R 14 297 _____

Motorized winders:

MOTOR-WINDER R4 14 282 _____
Adapter for external power source MW-R 14 278 _____
Holder for battery/rechargeable battery
housing MW-R 14 279 _____
Replacement housing for above 14 280 _____
Extension cable 5 m MW-R for external supply 14 293 _____
MOTOR-DRIVE R4 14 309 _____
Adapter for external power source MD-R 14 323 _____
Replacement housing for battery/rechargeable
battery MD-R 14 322 _____
Extension cable 5 m MD-R for external supply 14 325 _____

Accessories for MOTOR-WINDER/MOTOR-DRIVE:

Electronic remote control unit RC LEICA R 14 277 _____
Tripod holder R4 14 284 _____
Electronic cable release 0.3m 14 237 _____
Electronic cable release 5m 14 238 _____
Cable release extension 25m for remote release 14 274 _____

Lens Accessories:

Lens extender R 2x for LEICA R 11 236 _____

| Filters: | E 55 | E 60 | E 67 | E 77 | Series 7 | Series 8 |
|---------------|--------|--------|--------|--------|----------|----------|
| UVA | 13 373 | 13 381 | 13 386 | 13 337 | 13 009 | 13 018 |
| Yellow | 13 391 | 13 392 | 13 393 | 13 333 | 13 007 | 13 021 |
| Orange | 13 312 | 13 383 | 13 388 | 13 332 | 13 008 | 13 017 |
| Circular-Pol. | 13 357 | 13 376 | 13 377 | 13 334 | 13 370 | 13 372 |

Cable release, 25 cm 14 067 _____
Carrying strap for heavy equipment 14 130 _____
Table top tripod 14 100 _____
Ball-and-socket head 14 110 _____
Universal handgrip with shoulder brace 14 239 _____

Accessories for the near-focusing range:

| | Code No. | Price |
|--|----------|-------|
| ELPRO, auxiliary lenses: | | |
| 1 for R f 2/50 mm | 16 541 | _____ |
| 2 for f 2/50 mm | 16 542 | _____ |
| 3 for R 90, f 4/100 mm, f 2.8/135 mm, and f 4.5/75-200 mm | 16 543 | _____ |
| 4 for R f 4/100 mm, f 2.8/135 mm, and f 4.5/75-200 mm | 16 544 | _____ |
| Leather case for "ELPRO" lens | 14 553 | _____ |
| Macro-Adapter-R | 14 256 | _____ |
| Combination ring for the close focusing range | 14 159 | _____ |
| Universal focusing bellows | 16 860 | _____ |
| Twin cable release | 16 494 | _____ |
| REPROVIT-R with 220-250 v/300 W halogen lamps | 16 717 | _____ |
| REPROVIT-R with 115-120 v/650 W halogen lamps | 16 718 | _____ |
| 90° angle viewfinder | 14 328 | _____ |

Leitz "PHOTAR" lenses:

used with universal focusing bellows R via
intermediate rings 14 259 _____
12.5 mm PHOTAR f/2.4 549 025 _____
25 mm PHOTAR f/2 549 026 _____
50 mm PHOTAR f/4 549 027 _____

Carrying Cases:

Ever-ready case, genuine-leather,
for camera without winder/drive:
with standard flap (for 50 mm lenses) 14 569 _____
with large flap (for R f 2.8/60 mm, R f 1.4/80 mm
and 90 mm lenses) 14 568 _____
Combination case, genuine-leather,
for camera without winder/drive
for use with up to four lenses 14 805 _____
Safari combination case in canvas
for camera without winder/drive
for use with up to four lenses 14 841 _____
Safari combination case in canvas
for camera with winder/drive
for use with up to four lenses 14 837 _____
Universal hold-all case, genuine-leather,
for camera with or without winder-drive,
for up to two cameras and up to six lenses 14 834 _____
Reporter case 14 830 _____

Recommended outfits

Which outfit to start with? And how to expand? These are the problems that confront anyone who buys a camera system for the first time or wants to develop an existing one.

Here's a tip that should make things easier. Simply think about what sort of pictures you want to take. If you can recognize your ambitions, the decision becomes so much easier. For example, the photographer who often works in poor light needs high speed lenses. The portrait photographer is best served by a short telephoto (which is, by the way, also excellent for impressive landscapes). And a motor winder is practically essential for photojournalism.

Here are some practical outfits for various needs which have proven themselves over the years.

1. The standard outfit

As standard lens, the 50mm SUMMICRON-R f2 or the 50mm SUMMILUX-R f1.4 are available. An interesting alternative is the 60mm MACRO-ELMARIT-R f2.8 with a focusing range stretching from infinity right down to 1:2 close-ups.

| | Code No. | Price |
|---|----------|-------|
| LEICA R4s body, black chromium plated | 10 045 | _____ |
| SUMMICRON-R 50mm f2 | 11 216 | _____ |
| or | | |
| SUMMILUX-R 50mm f1.4 | 11 776 | _____ |
| Ever-ready case with normal front | 14 569 | _____ |
| Alternative | | |
| MACRO-ELMARIT-R 60mm f2.8 | 11 212 | _____ |
| Ever-ready case with large front | 14 568 | _____ |

2. Maximum versatility at lowest cost

Anyone who wants to be prepared for anything, but doesn't want to spend a fortune, chooses a wide-angle and a short telephoto, making do without the standard lens. The combination of 35mm and 90mm adequately covers areas such as landscapes, portraits and still-lives.

| | | |
|---|--------|-------|
| LEICA R4s body, black chromium plated | 10 045 | _____ |
| ELMARIT-R 35mm f2.8 | 11 231 | _____ |
| ELMARIT-R 90mm f2.8 | 11 806 | _____ |
| Alternatively with higher speed | | |
| SUMMICRON-R 35mm f2 | 11 115 | _____ |
| SUMMICRON-R 90mm f2 | 14 219 | _____ |
| Alternatively with ultra high speed | | |
| SUMMILUX-R 35mm f1.4 | 11 143 | _____ |
| SUMMILUX-R 90mm f1.4 | 11 880 | _____ |
| Combi case | 14 805 | _____ |

3. Further expansion

Starting with a 50mm standard lens, the logical expansion is a 24mm wide-angle and a 135mm telephoto. From the 60mm Macro standard lens, a 28mm wide-angle and a 180mm telephoto would be preferable.

The next expansion step from 28/60/180 could be the 2x Extender, which would provide an outfit with 28, 60, 120, 180 and 360mm focal lengths, versatile enough for the highest demands.

4. What else is there?

Of course, one could slowly collect all the lenses and accessories that make up the LEICA R system. We'll limit ourselves to the following tips:

- The two zoom lenses are ideal for travel photography.
- Landscape and nature photographers should carry an extreme wide-angle such as 21mm, 19mm or even 15mm, as well as a medium telephoto.
- Sports and wildlife shots sometimes have to be taken at long distances. Long telephotos from 250mm are essential.
- A motor winder or drive plus high-speed lenses are recommended for reportage and quick snapshots.
- Experienced photographers use the small tripod and ball head whenever possible.

5. A final note

If you are interested in entering the LEICA R system or want to expand your equipment, the LEITZ Information Service would be pleased to advise you. Address and telephone number can be found overleaf.

| Lens | maximum aperture Focal length in mm | Angle of view | Number of elements/ components | Smallest aperture | Focusing range in m | Smallest object area in mm | Filter size series | Length in mm | Diameter in mm | Weight in g | Code No. |
|--------------------------|---|------------------|--------------------------------------|----------------------|--|----------------------------------|----------------------------------|-----------------|-------------------|----------------|----------|
| SUPER-ELMAR-R | f/3.5/15 | 110° | 13/ 12 | 22 | ∞-0.16 | 70 x 106 | Built-in | 92.5 | 83.5 | 815 | 11 213 |
| Fisheye-ELMARIT-R | f/2.8/16 | 180° | 11/ 8 | 16 | ∞-0.30 | 401 x 601 | Built-in | 60 | 71 | 470 | 11 222 |
| ELMARIT-R | f/2.8/19 | 95.7° | 9/ 7 | 16 | ∞-0.30 | 261 x 392 | - | 60 | 88 | 500 | 11 225 |
| SUPER-ANGULON-R | f/4/21 | 92° | 10/ 8 | 22 | ∞-0.20 | 148 x 221 | 8.5/E 72 | 43.5 | 78 | 410 | 11 813 |
| ELMARIT-R | f/2.8/24 | 84° | 9/ 7 | 22 | ∞-0.30 | 250 x 374 | 8/E 60 | 48.5 | 67 | 420 | 11 221 |
| ELMARIT-R | f/2.8/28 | 76° | 8/ 8 | 22 | ∞-0.30 | 188 x 282 | 7/E 48 | 40 | 63 | 275 | 11 247* |
| SUMMILUX-R | f/1.4/35 | 64° | 10/ 9 | 16 | ∞-0.70 | 266 x 399 | E 67 | 76 | 75 | 660 | 11 143 |
| SUMMICRON-R | f/2/35 | 64° | 6/ 6 | 16 | ∞-0.30 | 140 x 210 | E 55 | 54 | 66 | 422 | 11 115 |
| ELMARIT-R | f/2.8/35 | 64° | 7/ 6 | 22 | ∞-0.30 | 140 x 210 | E 55 | 41.5 | 66 | 305 | 11 231 |
| PA-CURTAGON-R | f/4/35 | 64/78° | 7/ 6 | 22 | ∞-0.30 | 140 x 210 | 8/E 60 | 51 | 70 | 290 | 11 202 |
| SUMMILUX-R | f/1.4/50 | 45° | 7/ 6 | 16 | ∞-0.50 | 180 x 270 | E 55 | 50.6 | 66.5 | 395 | 11 776 |
| SUMMICRON-R | f/2/50 | 45° | 6/ 4 | 16 | ∞-0.50 | 180 x 270 | E 55 | 41 | 66 | 250 | 11 216* |
| MACRO-ELMARIT-R | f/2.8/60 | 39° | 6/ 5 | 22 | ∞-0.27 (with adapter to 1:1) | 48 x 72 (24 x 36) | E 55 | 62.3 (92.3) | 67.5 | 390 (520) | 11 212 |
| SUMMILUX-R | f/1.4/80 | 30° | 7/ 5 | 16 | ∞-0.80 | 192 x 288 | E 67 | 69 | 75 | 625 | 11 880 |
| SUMMICRON-R | f/2/90 | 27° | 5/ 4 | 16 | ∞-0.70 | 140 x 210 | E 55 | 62.5 | 70 | 560 | 11 219 |
| ELMARIT-R | f/2.8/90 | 27° | 4/ 4 | 22 | ∞-0.70 | 140 x 210 | E 55 | 57 | 63 | 475 | 11 806 |
| MACRO-ELMAR-R | f/4/100 | 25° | 4/ 3 | 22 | ∞-0.60 (with adapter to 1:1.6) | 72 x 108 (38 x 57) | E 55 | 90 (120) | 67.5 | 540 (670) | 11 232 |
| MACRO-ELMAR | f/4/100 | 25° | 4/ 3 | 22 | in the focusing bellows-R only ∞-1:1 | 24 x 36 | E 55 | 62.5 | 68 | 365 | 11 230 |
| ELMARIT-R | f/2.8/135 | 18° | 5/ 4 | 22 | ∞-1.50 | 220 x 330 | E 55 | 93 | 67 | 730 | 11 211 |
| ELMARIT-R | f/2.8/180 | 14° | 5/ 4 | 22 | ∞-1.80 | 193 x 290 | E 67 | 121 | 75 | 825 | 11 923 |
| APO-TELYT-R | f/3.4/180 | 14° | 7/ 4 | 22 | ∞-2.50 | 276 x 414 | E 60 | 135 | 68 | 750 | 11 242 |
| ELMAR-R | f/4/180 | 14° | 5/ 4 | 22 | ∞-1.80 | 175 x 262 | E 55 | 100 | 65.5 | 540 | 11 922 |
| TELYT-R | f/4/250 | 10° | 7/ 6 | 22 | ∞-1.70 | 124 x 186 | E 67 | 195 | 75 | 1230 | 11 925 |
| APO-TELYT-R | f/2.8/280 | 8.5° | 8/ 7 | 22 | ∞-2.50 | 195 x 293 | E 112 | 261 | 125 | 2750 | 11 245 |
| TELYT-R | f/4.8/350 | 7° | 7/ 5 | 22 | ∞-3.00 | 171 x 257 | E 77 | 286 | 83.5 | 1820 | 11 915 |
| TELYT-R | f/6.8/400 | 6° | 2/ 1 | 32 | ∞-3.60 | 158 x 236 | 7 | 384 | 78 | 1830 | 11 960 |
| MR-TELYT-R | f/8/500 | 5° | 5/ 5 | 8 | ∞-4.00 | 180 x 270 | (E 77) 5 filters available | 121 | 87 | 750 | 11 243 |
| TELYT-R | f/6.8/560 | 4.3° | 2/ 1 | 32 | ∞-6.40 | 224 x 336 | 7 | 530 | 98 | 2330 | 11 865 |
| TELYT-S | f/6.3/800 | 3° | 3/ 1 | 32 | ∞-12.50 | 320 x 480 | 7 | 790 | 152 | 6860 | 11 921 |
| VARIO-ELMAR-R | f/3.5/35-70 | 64-35° | 8/ 7 | 22 | ∞-1.00 | 632 x 947 338 x 507 | 7.5/E 60 | 64.5 | 72 | 420 | 11 244 |
| VARIO-ELMAR-R | f/4/70-210 | 35-12° | 12/ 9 | 22 | ∞-1.10 | 264 x 396 96 x 144 | E 60 | 157 | 73.5 | 720 | 11 246 |

* for LEICA R-models only

Photo Information

LEITZ Information Service

All questions connected with photography, projection, enlarging and binoculars can be answered with pleasure by the Leitz Information Service, Mondays to Fridays from 8.00–12.00 and 13.00–16.00 on (064 41) 29 24 36. Or write: ERNST LEITZ WETZLAR GMBH Information Service Postfach 20 20 D-6330 Wetzlar West Germany

LEICA School

The LEICA School is part of Leitz service. It was founded in order to meet the wishes of many keen photographers for thorough training in photography, projection and enlarging. The course offer a practical photo-technical program, with stimulation, information and tips. Further details and registration forms are available from:
ERNST LEITZ WETZLAR GMBH
LEICA School
Postfach 20 20
D-6330 Wetzlar
West Germany

Photographic Books

The books in the "Farbfotographie für Jedermann" (Color Photography for Everyone) series are aimed at both beginners and the more advanced. All photographic and reproduction problems and questions on composition using shape and color are dealt with. To date, five volumes have been published (in German): "Die Landschaft", "Das Porträt", "Das Tier", "Der Schnappschuß" and „Bei jedem Licht". Publishers: Umschau-Verlag, Stuttgarter Straße 18–24, D-6000 Frankfurt/Main, West Germany. The same publishers produced the book "Applied Leica Technique", which describes the technique of photography with the LEICA R system in great detail. The LEICA system handbook can be obtained from Leitz dealers or from the Leitz Information Service against a cover charge.



LEICA FOTOGRAFIE

This magazine is absolutely essential for those who wish to learn more about 35mm photography and who are looking for recommendations on how to expand their photographic equipment. It is published in English, French and German, with 8 issues per year. Publishers: Umschau-Verlag, Stuttgarter Straße 18–24, D-6000 Frankfurt/Main, West Germany.

Leitz Warranty

LEICA cameras and lenses are manufactured according to particularly stringent quality guidelines and are tested by experienced specialists at every stage of production. This makes it possible for Leitz to offer an **extended warranty of two years** on every LEICA camera and every LEICA lens. This will be taken over by the appropriate Leitz Agency and is confirmed by the original Leitz Warranty Card. When buying a LEICA camera or lens, please make sure that you receive a properly completed original Leitz Warranty Card from the dealer with details of the Leitz agency responsible for your region.





LEICA®
PRADOVIT®
FOCOMAT®
TRINOVID®



From a single source. With Leitz precision.



Your Leitz dealer has a lot more to tell
and show you:

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ERNST LEITZ WETZLAR GMBH

D-6330 Wetzlar, Tel. (0 64 41) 29-0, Telex 4 83 849 leiz d

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