

The LEICA R5. Versatile and creative









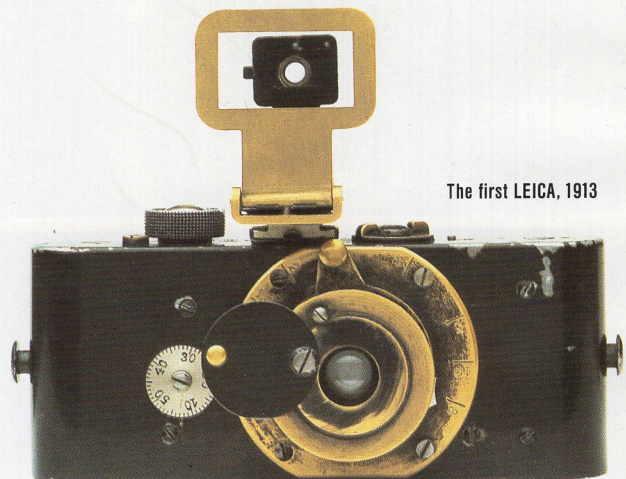
The LEICA R 5. Concentration on the essentials

The era of modern 35 mm photography began with the invention of the LEICA®. This of course gave the LEICA a head start which still makes itself felt in the quality of the camera, a quality bearing the stamp of the LEICA philosophy: Not to be led astray by latest fashions, which age rapidly. Only the classical is of lasting value. The essence of a LEICA is the classical restriction to the essentials.

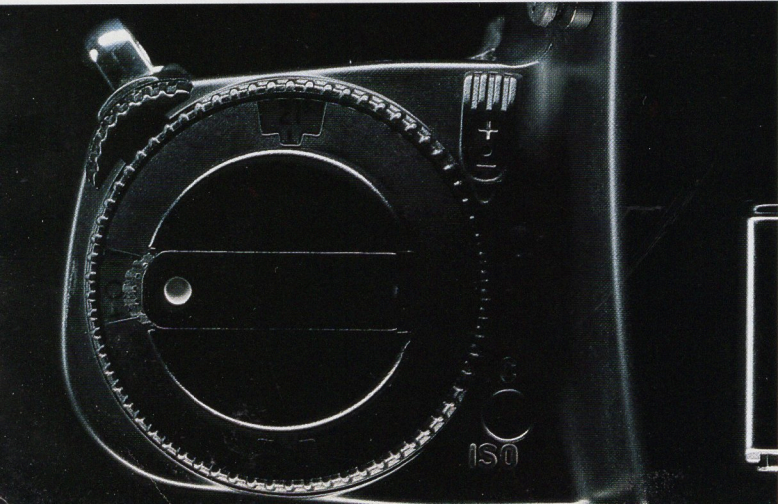
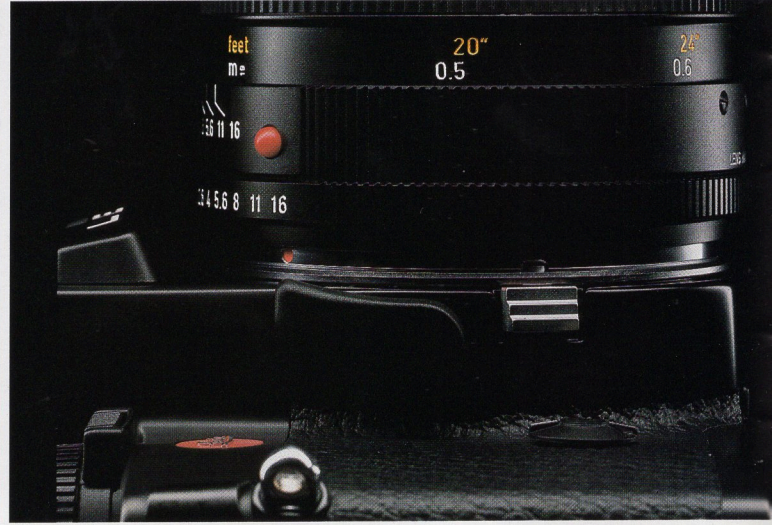
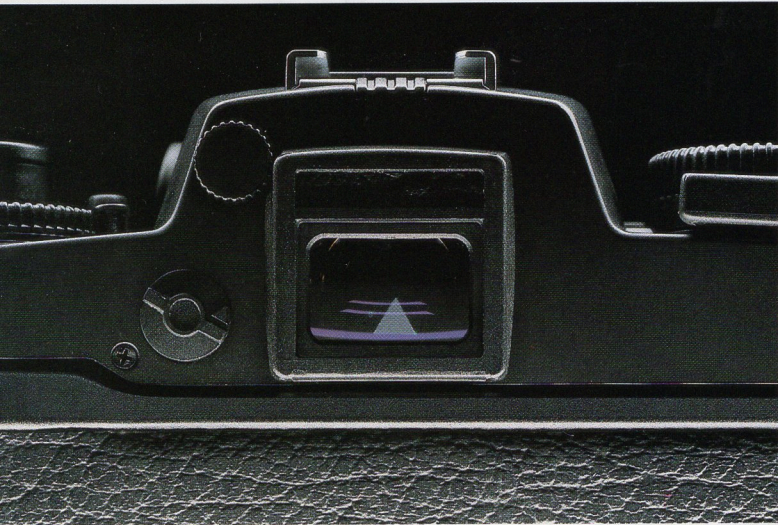
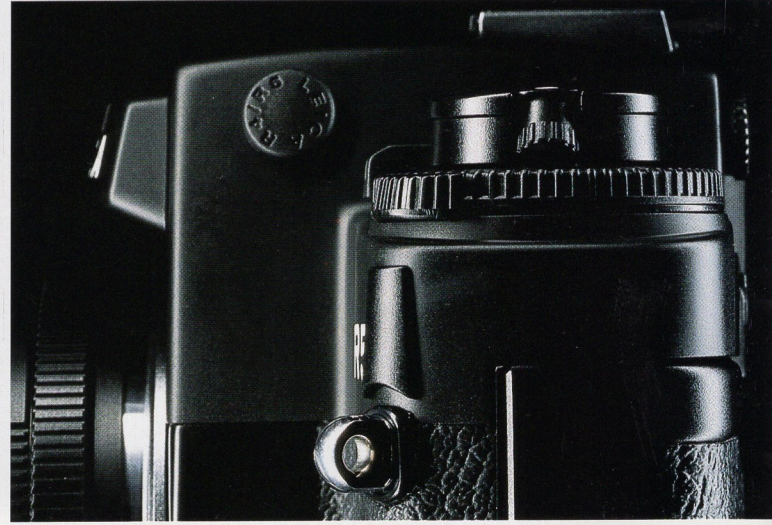
The new and remarkable expression of the LEICA philosophy is found in the LEICAR 5. True to the LEICA tradition, the R 5 is a camera which can afford to do without sensational technical gags. It is the intelligent development of all LEICA SLR cameras. The LEICAR 5 is a medium for the serious photographer, equipped with a range of noteworthy features:

The owner of a LEICAR 5 can master any lighting situation with the dual exposure metering. He has a choice of selective measurement or centre-weighted averaging and can switch from one to the other in a fraction of a second. The viewfinder of the LEICA R 5 is a functional control centre with a bright and easily

readable display of all important data. The electronics are designed for hard professional use, the programs tailored to the requirements of practical photography by the right combination of exposure metering methods and operation modes. With the LEICA R 5, you also have the benefit of TTL flash exposure metering. An especially attractive feature: the



LEICA R 5 has a variable automatic program mode, particularly valuable for the quick or carefree snapshot. Most important of all, however, are the LEICA lenses, held in high esteem by connoisseurs all over the world: lenses of outstanding optical performance verging on the technically impossible.



The LEICA R 5 – made to last

In 1913, Oskar Barnack designed the prototype of the LEICA. This genial pioneer was obsessed by the idea of creating something extraordinary.

Oskar Barnack's attitude can still be seen today in the work of all the people responsible for the LEICA. The will to create the extraordinary is expressed in every detail of the LEICA R 5.

Here are a few examples:

The electronics of the LEICA R 5, which can stand the toughest of conditions. The camera is designed for at least 100,000 exposures.

The bayonet is built to withstand 10,000 lens changes without showing any signs of wear that could have an adverse effect on coordination.

The LEICA R 5 and its lenses function perfectly under any conditions, from +60° to -20°.

A total of 17 dichroic coatings on the semi-transparent hinged mirror ensure a bright viewfinder image even when lighting conditions are poor. Besides this, the camera has a black or silver chromium finish.

All materials involved in making a LEICA R 5 are specifically chosen for their durability and guarantee maximum functional reliability.

So it's no wonder that a LEICA R 5 is a camera of lasting value. The resale value of a LEICA is exceptionally high, in fact for some models it's even higher than the original price.

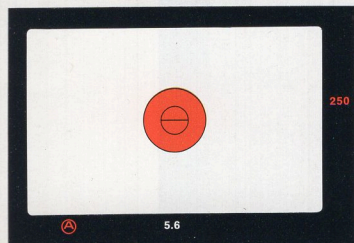
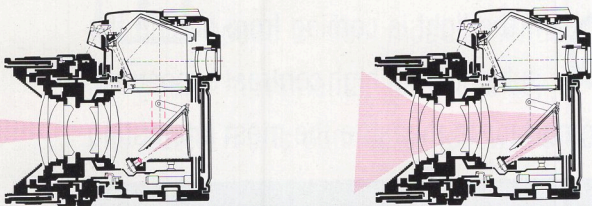


Even difficult light situations can be mastered with the averaging and selective metering methods of the LEICA R 5

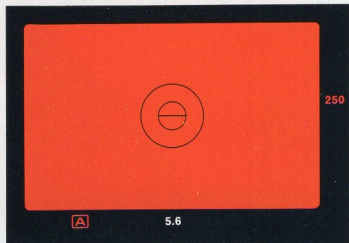
There's nothing unusual about exposure metering through the lens with automatic shutter control, i.e. automatic exposure. The trouble is that a normal automatic mode cannot cope with every kind of light; special conditions require special metering methods. That's why we fitted the LEICA R 5 with the methods important for exact exposure determination and made them easy and convenient to operate.

the subject are fairly evenly distributed. With the averaging method, the exposure meter of the LEICA R 5 registers the entire image area. And because the most important part of the picture is usually round the centre, the measurement is centre-weighted.

Selective metering is used for unusual and difficult lighting conditions which are especially attractive for the photographer; against-the-light exposures, for example, or with side light or spotlighted details. Using selective metering, the photographer can select an excerpt of the image – the most interesting part – for measurement. In this way, subjects in front of a bright or very dark background, the view through an archway or exposures in the theatre with open light sources turn out successfully. The measurement area corresponds to the central circle in the viewfinder, with which the most important part of the image is framed. The 7 mm diameter of the measurement ring is a sixth of the image diagonal, matching the requirements of practical photography.



Schematic drawing of the Leitz selective measuring method.



Schematic drawing of the Leitz large-field average measuring method.

The largefield averaging method is generally for normal light, when there are no extremes of light and colour and when the bright and dark parts of

The programs of the LEICA R 5 – designed for the perfectionist

The two exposure metering methods of the LEICA R 5 have been combined with different

modes (aperture-priority, shutter-priority and manual shutter speed and aperture setting) to create practical programs. Selection of the required program is fast and simple. Without taking the LEICA R 5 away from his eye, the photographer only has to move a finger to set the right program for any subject and any lighting condition in fractions of a second. The symbol of the selected program appears in the viewfinder frame. Besides this, all other relevant data is visible in the viewfinder, leaving the photographer free to concentrate on his subject.

The following examples show the application of each program:

A Program **A** is chosen for normal light when depth of field is an important compositional element, e.g. for landscape and architecture photography. After the required lens

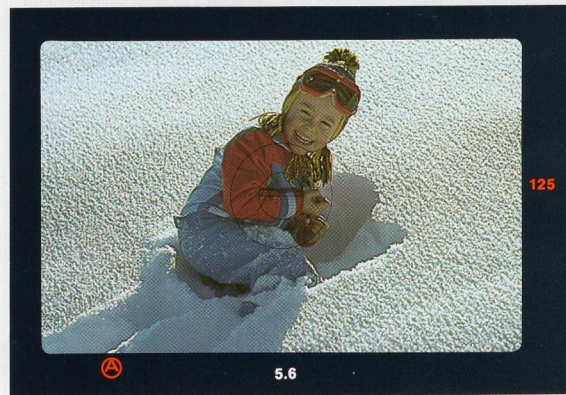


aperture has been set, the LEICA R 5 will automatically establish the correct shutter speed, steplessly from 1/2000 to 15 seconds. Both the aperture setting and the computed shutter speed are displayed in the viewfinder frame. The rectangular symbol signals the centre-weighted averaging method in operation for this program.

Program **A** means: aperture - priority with large-field averaging.



If the light is coming from behind the subject or for high contrast exposures, it is important to measure the most interesting



part of the image and give it extra emphasis by playing with the depth of field, as for portrait photography. In this case, program **A** is chosen. After the required lens aperture has been set, the LEICA R 5 will establish the correct shutter speed. The circle symbolizes selective metering. Program **A** means: aperture-priority with selective metering.

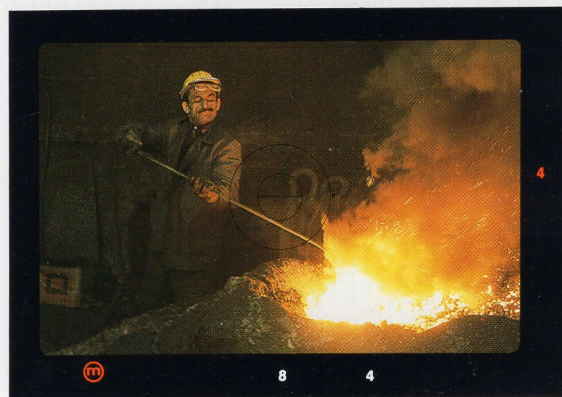
Often, the important detail for exposure metering is not in the centre. With program **A**, the

exposure value can be stored for up to 30 seconds by pressing the release button lightly. This gives you time to find the best image area and take the picture with the stored value at leisure. Selective metering, storage of the value, deciding on the image area and releasing the shutter is all amazingly fast and simple. Speed and simplicity – the best prerequisites for optimal composition and technically flawless pictures.

T For fast-moving subjects, the shutter speed is the most essential factor. To freeze movements, for instance, or when the LEICA R 5 is panned to follow the subject. Simply choose program **T** and select the necessary shutter speed. The correct aperture is established automatically. The rectangle indicates that measurement is being carried out by averaging – for such high-speed photography, there's no time for selective metering anyway. Program **T** means: automatic shutter priority with averaging.

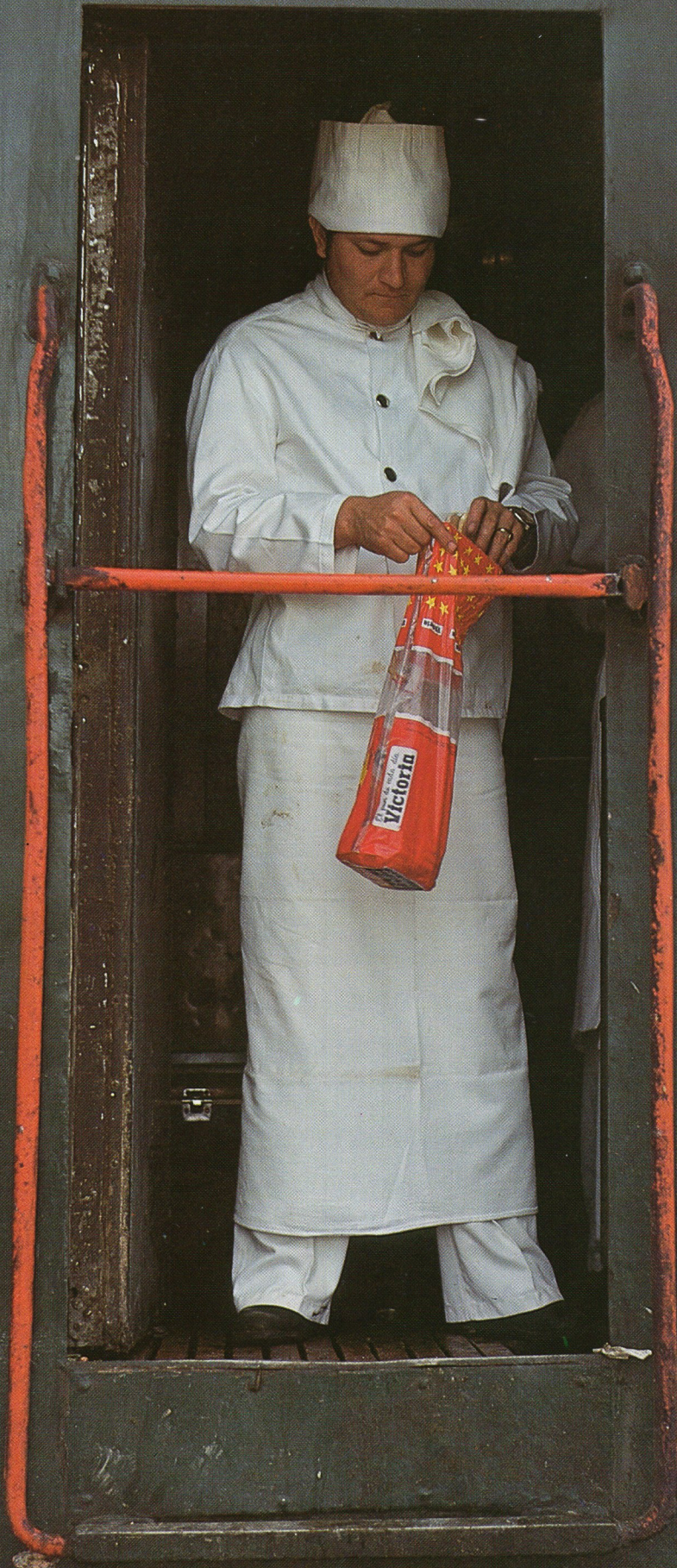


m In some situations it is better to set shutter speed and aperture by hand, for example when experimenting with infra-red films or for deliberate over- or underexposure. In this case the **m** setting is chosen, which disengages the automatic control. Now it is possible



to either preselect the shutter speed and then the aperture, or the other way round. In the **m** program, selective metering is used – indicated by the circular symbol – so that the photographer can handle even the most difficult lighting conditions.

Program **m** means: manual shutter speed and aperture setting with selective metering.



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Variable automatic program mode – the carefree way to successful pictures

P For the fast snapshot, when there's no time to think about shutter speed or aperture, or on many occasions when the photographer simply wants to forget about technicalities, the LEICA R 5 offers a unique solution: **P**, the variable automatic program mode.

The standard setting of the shutter-speed dial at $P = 1/30$ s has proved successful. Using lenses with focal lengths of 35 – 90 mm, this program is suitable for most subjects, because shutter speed and aperture automatically form universal combinations.

Apart from this, the variable automatic program mode can be matched to different subjects and the individual wishes of the photographer by selecting faster shutter speeds or smaller apertures. All you have to do is to alter the setting of the shutter-speed dial:

for fast-moving subjects to a short time, e.g. "1/500", for greatest possible depth of field to a long time, e.g. "1/2".

For each of these settings, the exposure time is shortened first, while the lens remains at full

aperture. From the moment the selected setting is reached, however, exposure time and aperture are changed simultaneously. For the same lighting conditions but different settings, therefore, different combinations of exposure time and aperture are formed.



The logical operation of the variable automatic program mode satisfies all the practical requirements for easy, fast and skilful photography.

The setting of the shutter-speed dial and the computed shutter speed are displayed in the viewfinder. Averaging is indicated by the rectangle of the program symbol.

Program **P** means: Variable automatic program mode with centre-weighted averaging.



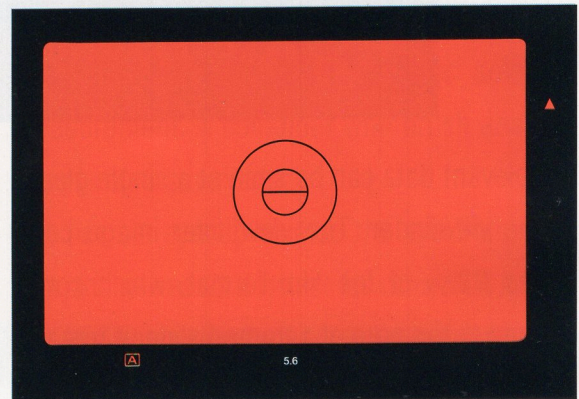
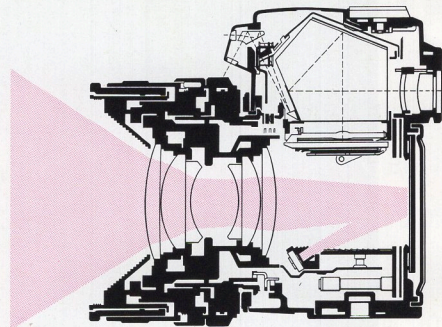




Successful flash photography, even for close-ups and the telephoto range, with the LEICA R 5's TTL flash exposure metering

To round off the perfect operational comfort of the LEICA R 5, it has flash exposure metering through the lens. This works with all electronic flash units with a "System Camera Adaption 300" (SCA 300). With the SCA 351 adapter, the camera electronics are automatically switched to a flash synchronisation of 1/100 sec. as soon as the flash unit is ready to fire, whatever program happens to be set. During exposure, the light reflected from the film is measured by a silicon photo diode, which is situated beside the metering cell for averaging/selective metering in the lower part of the camera. Once the amount of light necessary for correct exposure has reached the film, the flash light current is interrupted. Readiness to flash and – after the exposure – the sign that flash exposure was correct, are indicated in the viewfinder. In this way, the photographer can always keep the camera in front of his eye, even when working with flash.

The LEICA R 5's TTL flash exposure metering makes good flash photography as easy as daylight.



Schematic drawing of the Leitz TTL flash exposure measuring method.

Whatever the lens, with or without extender, and whatever the range.

The LEICA R 5 viewfinder – the perfect control centre for creative photography



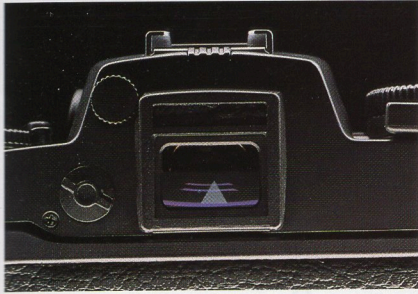
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All relevant data can be seen at a single glance in the viewfinder: The viewfinder image comprises 92% of the film format, which corresponds to the area of a framed slide. It remains bright even when light is poor. This guarantees exact focusing, of paramount importance for capturing the full optical performance of the world-famous LEICA R lenses on film.

The important camera functions are displayed in the viewfinder frame: the selected program by means of an illuminated symbol at the lower left corner. The current lens aperture can be read in the centre, whereas in the right viewfinder margin an LED indicates the shutter speed

computed for the preselected aperture. It reacts continuously and with such sensitivity that sometimes a reading in between two illuminated shutter speeds is produced, for example 1/99 sec. In this case, two diodes will light up, one for 1/60 s. and one for 1/125 s. If lighting conditions are too bright or too dark for the chosen aperture, a triangular LED will appear at the top or bottom of the shutter speed scale, indicating over- or underexposure.

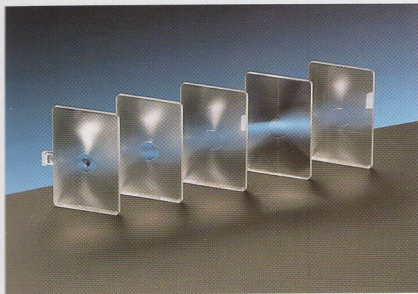
Whatever program is chosen, the LEICA R 5 viewfinder is the control centre for all important camera functions and a reference for deciding on the composition of the picture.



If the superb optical performance of the LEICAR lenses is to be fully exploited, the LEICA R 5's viewfinder image must be as sharp as possible. Due to the integrated eyepiece adjustment from +2 to -2 dioptres, the viewfinder can be easily matched to the photographer's eyes. Besides this, separate correction lenses (spherical) from +3 to -3 dioptres can be used additionally.

The standard version of the LEICAR 5 is supplied with the universal focusing screen suitable for the majority of photographic applications. The universal screen with a ring of rectangular microprisms and central split-image rangefinder guarantees exact focusing.

The groundglass screen is ideal for close-up or long-range photography. Sharpness can be checked over the entire field of the viewfinder. Without the split-image rangefinder of



the universal focusing screen, the microprism screen permits undisturbed evaluation of the pictorial composition. The groundglass screen with superimposed grid is particularly suitable for exact alignment of the LEICAR 5. The reproduction ratios can easily be determined using the vertical markings. When the camera is used on optical instruments, such as microscopes and reflecting telescopes, the clearglass screen with crosslines is necessary. All focusing screens have a 7 mm ring, which indicates the limits of the measuring field for selective measurement. A container with brush and forceps is also supplied.

The flexible eyecup shields the eye from stray light and serves as a holder for correction lenses. The 90° angle viewfinder is a convenient accessory when observation of the image in the viewfinder is difficult, such as for copying or for photography at ground level. The magnification of the viewfinder can be easily switched from the 1x setting for survey to 2x for an area twice the size.





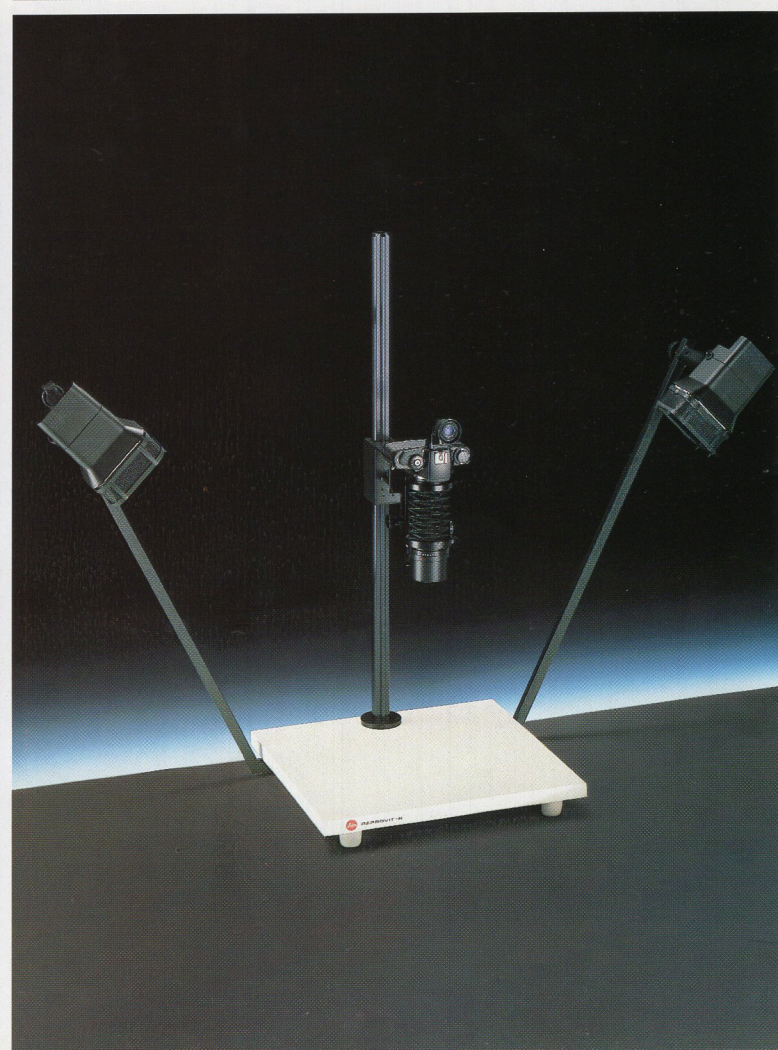
More dynamic photography with the MOTOR WINDER-R and the MOTOR DRIVE-R

In many situations, constant readiness for action and follow-up photos are essential for successful dynamic pictures. The Motor Winder and the Motor Drive for the LEICA R 5 expand the possibilities of dynamic photography and are necessary for remote release and automatic sequence exposures.

Photo sequences of 2 frames per second are possible with the Winder. The Drive has a capacity of 4 frames per second, but can also be switched to 2 frames per second or single exposures. All shutter speeds can be used. The Motor Winder uses six, the Motor Drive ten standard alkaline batteries or rechargeable NiCd batteries for sufficient power reserve even at low temperatures. This is enough for 150 films with 36 exposures each at 20°C. The batteries are accommodated in a special housing, which can be replaced in a matter of seconds. In extreme cold, the housing can be kept at body temperature and connected to the Winder or Drive via an adapter. Single exposures are taken by the shutter release on the camera, sequence exposures by the release button on the Winder or Drive or by the attachable handgrip, the release switch, the cable release and the LEICA-R re-

mote control unit. Double and multiple exposures can also be easily taken with the Winder or the Drive. The action of these mechanisms is extremely quiet and they take over the power supply for the camera. The Winder is 140 mm long, 40 mm high, 50 mm deep and weighs 225 g without batteries. The Drive measures 140x45x61mm (l x h x d) and weighs 320 g without batteries.

The Motor Winder and the Motor Drive both have useful accessories, extending their range of application. The attachable handgrip has two electric release buttons, so that upright format pictures can be taken without camera shake. The leather strap is adjustable and easily removable. The tripod holder guarantees stability, even for tripod exposures with long focal length lenses. The LEICA-R remote control is ideal for electric remote control with simultaneous camera function control. The digital display shows when exposure is completed and the number of exposures taken. Automatic release at intervals of approx. 0.5 to 600 seconds is also possible. Besides this, the system includes a release button for the universal handgrip and a cable release for remote release up to a distance of 100 m.



Practical accessories enhance the LEICA R 5's wide range of application

Marking a single photograph or film strip can be a useful reminder years later, when you want to tell exactly when it was taken or at what stage of a particular event. Whatever the occasion, whether for a family gathering, the building of your own house or a laboratory experiment. With the DB 2 LEICA R Data Back it's possible to print data onto the film during the exposure. Slides and negatives can be marked with the day and time or the date of exposure. The clock and the calendar (up to the year 2099) are quartz-controlled. The date can be indicated in one of the three usual orders: day - month - year or month - day - year or year - month - day. Also, any numbers up to 99 99 99 can be entered, either fixed or in increasing or decreasing order. The DB 2 LEICA R Data Back is attached to the LEICA R 5 instead of the normal camera back. Folded together, the small tripod fits easily into a coat pocket. It can be pressed against perpendicular walls, round columns or sloping surfaces and is ideal as a chest tripod. Due to the stable ball-and-socket head, the camera can be rotated, tilted and securely clamped.

The REPROVIT®-R provides accurate parallel positioning of the camera film plane in relation to the subject to be photographed, such as documents, drawings, etc. The two halogen lamps are tuned to artificial light colour reversal films.

The wide variety of Leitz photo bags caters for practically all requirements and solves all transport problems. Every photographer will find the



bag of the right size and material for his equipment. There are ever-ready bags of leather with front flaps of different sizes, leather combination bags for camera with or without Motor Winder or Drive and up to four lenses, heavy duty canvas bags in two sizes, a universal holdall for extensive equipment and the well-tried reporters' bag, both made of genuine leather.

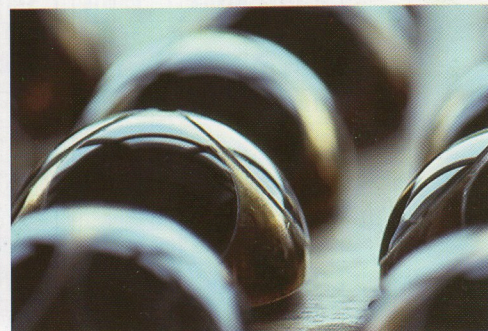
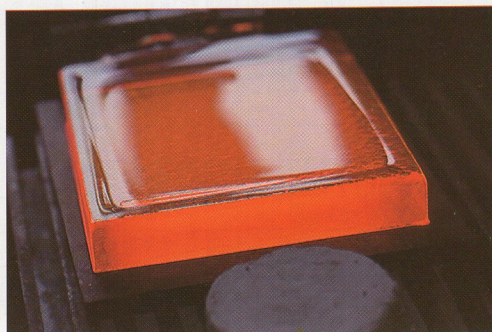


Outstanding optical performance verging on the technically impossible – LEICA R lenses

The high level of performance of Leitz lenses is the result of 135 years of experience.

Leitz holds nearly 50 patents for lenses alone, which naturally stands the LEICA R lenses in good stead. Their impressive optical perfor-

sive, even, almost perfectly neutral colour reproduction and their exceptionally low reflection, achieved by special coating. Besides this, the ultraviolet light is blocked off so successfully that an additional UVa filter is at the most a



Research, development, construction and production are the basis for the world famous LEICA lenses.

mance stretches the very limits of what is technically possible.

The magnificent quality of LEICA R lenses is partly due to the fact that every lens made at Leitz contains optical glass developed in our own glass research laboratory. Already at full aperture, LEICA R lenses excel in sharpness, contrast and resolving power. The full aperture of these lenses is a fully effective working aperture, and not what connoisseurs derogatorily refer to as a "prestige" aperture. All the LEICAR lenses have another thing in common – their impres-

sive, even, almost perfectly neutral colour reproduction and their exceptionally low reflection, achieved by special coating. Besides this, the ultraviolet light is blocked off so successfully that an additional UVa filter is at the most a protection for the front lens. Another convincing feature of the LEICA R lenses is their robust, durable mechanics. Leitz uses only metal helical mounts, mostly a combination of aluminium and brass. The almost identical expansion coefficients of these metals ensure the same smoothness of movement for all temperatures.

If you would like to know all about the whole range of lenses for the LEICA R 5, ask your photo dealer for a copy of our brochure: "LEICA R lenses. Seeing is believing", Code No. 111-221.

LEICA R lenses – optimal adaptation to any situation

The LEICA R 5 is the heart of the universal LEICA R 5 system. Equally important are the high-performance lenses, systematically matched in focal length and speed. The wide range extends from the fisheye to the zoom lens, from the distortion-

free 15 mm ultra-wide angle lens to the 800 mm tele lens. Further details are to be found in the brochure "LEICAR lenses. Seeing is believing", Code No. 111-221.

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	70x106	Built in	92.5	83.5	815	11213
FISHEYE-ELMARIT-R	f/2.8/16	180°	11/8	16	∞-0.30	401x601	Built in	60	71	470	11222
ELMARIT®-R	f/2.8/19	95.7°	9/7	16	∞-0.30	261x392	-	60	88	500	11225
SUPER-ANGULON®-R	f/4/21	92°	10/8	22	∞-0.20	148x221	Serie 8.5	43.5	78	410	11813
ELMARIT-R	f/2.8/24	84°	9/7	22	∞-0.30	250x374	Serie 8	48.5	67	420	11221
ELMARIT-R	f/2.8/28	76°	8/8	22	∞-0.30	188x282	Serie 7	40	63	275	11247
SUMMILUX®-R	f/1.4/35	64°	10/9	16	∞-0.50	266x399	E 67	76	75	660	11143
SUMMICRON®-R	f/2/35	64°	6/6	16	∞-0.30	140x210	E 55	54	66	422	11115
ELMARIT-R	f/2.8/35	64°	7/6	22	∞-0.30	140x210	E 55	41.5	66	305	11251
PA-CURTAGON®-R	f/4/35	64/78°	7/6	22	∞-0.30	140x210	Serie 8	51	70	290	11202
SUMMILUX-R	f/1.4/50	45°	7/6	16	∞-0.50	180x270	E 55	50.6	66.5	395	11777
SUMMICRON-R	f/2/50	45°	6/4	16	∞-0.50	180x270	E 55	41	66	300	11216
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)	11253
SUMMILUX-R	f/1.4/80	30°	7/5	16	∞-0.80	192x288	E 67	69	75	625	11881
SUMMICRON-R	f/2/90	27°	5/4	16	∞-0.70	140x210	E 55	62.5	70	560	11254
ELMARIT-R	f/2.8/90	27°	4/4	22	∞-0.70	140x210	E 55	57	67	475	11154
APO-MACRO-ELMARIT-R	f/2.8/100	25°	8/6	22	∞-0.45 (with ELPRO 1:2 - 1:1 to 1.1:1)	48x72 (22x33)	E 60	104.5	73	840	11210
MACRO-ELMAR-R	f/4/100	25°	4/3	22	∞-0.60 (with adapter to 1:1.6)	72x108 (38x57)	E 55	90 (120)	67.5	540 (670)	11232
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	11230
ELMARIT-R	f/2.8/135	18°	5/4	22	∞-1.50	220x330	E 55	93	67	730	11211
ELMARIT-R	f/2.8/180	14°	5/4	22	∞-1.80	193x290	E 67	121	75	825	11923
APO-TELYT-R	f/3.4/180	14°	7/4	22	∞-2.50	276x414	E 60	135	68	750	11242
ELMAR®-R	f/4/180	14°	5/4	22	∞-1.80	175x262	E 55	100	65.5	540	11922
TELYT®-R	f/4/250	10°	7/6	22	∞-1.70	124x186	E 67	195	75	1230	11925
APO-TELYT-R	f/2.8/280	8.5°	8/7	22	∞-2.50	195x293	E 112	261	125	2750	11245
TELYT-R	f/4.8/350	7°	7/5	22	∞-3.00	171x257	E 77	286	83.5	1820	11915
TELYT-R	f/6.8/400	6°	2/1	32	∞-3.60	158x236	Serie 7	384	78	1830	11953
MR-TELYT-R	f/8/500	5°	5/5	8	∞-4.00	180x270	(E 77) 5 filters available	121	87	750	11243
TELYT-R	f/6.8/560	4.3°	2/1	32	∞-6.40	224x336	Serie 7	530	98	2330	11853
TELYT-S	f/6.3/800	3°	3/1	32	∞-12.50	320x480	Serie 7	790	152	6860	11921
VARIO-ELMAR-R	f/3.5/35 - 70	64-35°	8/7	22	∞-1.00	632x947 338x507	E 60	64.5	72	420	11244
VARIO-ELMAR-R	f/4/70 - 210	35-12°	12/9	22	∞-1.10	264x396 96x144	E 60	157	73.5	720	11246

The complete R 5 system. And useful information for the serious photographer

The complete LEICA R 5 system

	Code No.
LEICA R 5 , black chromium finish	10 061
LEICA R 5 , silver chromium finish	10 060
Universal focusing screen (replacement)	14 303
Groundglass screen	14 304
Microprism screen	14 305
Groundglass screen with grid	14 306
Clearglass screen with crosslines	14 307
Eyecup	14 215
90° angle viewfinder, 1x and 2x magnification	14 300
Correction lenses: spherical, + or - , 0.5; 1; 1.5; 2; 3 dioptres	14 330 to 14 339
Data Back DB 2 LEICA R	14 216
MOTOR WINDER R	14 208
Adapter for external power source MW-R	14 278
Holder for battery/rechargeable battery MW-R	14 279
Replacement housing for above	14 280
5 m extension cable for external power source MW-R	14 293
MOTOR DRIVE R	14 310
Adapter for external power source MD-R	14 323
Replacement housing for battery/rechargeable battery MD-R	14 322
5 m extension cable for external power source MD-R	14 325
Handgrip R for Winder/Drive	14 308
Tripod holder R for Winder/Drive	14 284
Electronic remote control unit RC LEICA R	14 277
Electronic cable release 0.30 m	14 237
Electronic cable release 5 m	14 238
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Code No.

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Size: approx. 36 x 21 x 24 cm
14 834

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Size: approx. 38 x 21 x 30 cm
14 830

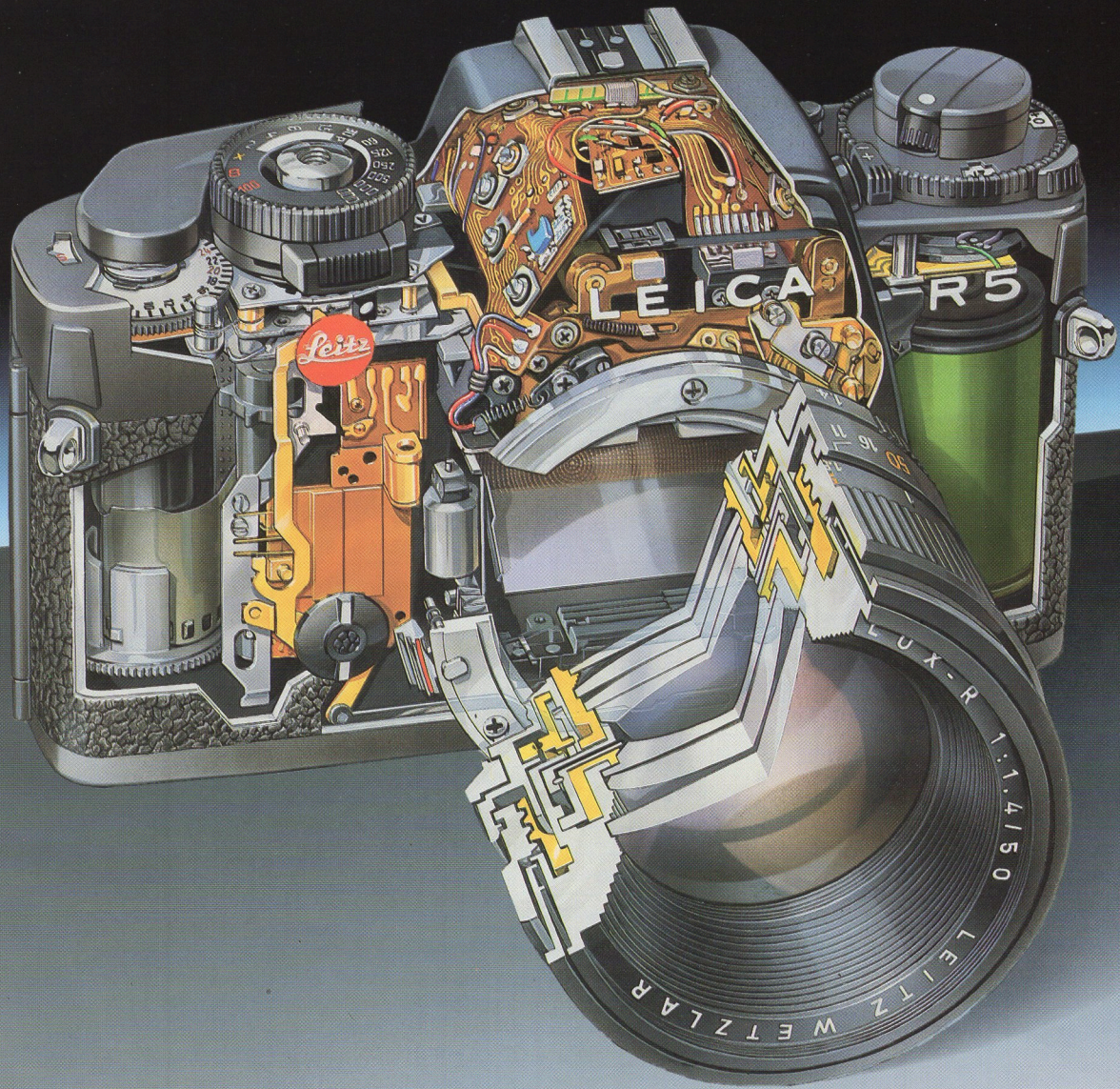
Leitz Information Service. All questions connected with photography, projection, enlarging and binoculars can be answered by the Leitz agency for your area.

LEICA School. The LEICA School of Ernst Leitz Wetzlar GmbH offers as part of Leitz service a practical photo-technical program, with stimulation, information and tips in German. Further details and registration forms for the German courses are available from Ernst Leitz Wetzlar GmbH, LEICA School, P.O. Box 2020, D-6330 Wetzlar, West-Germany.
For English courses please contact your Leitz agency.

Photographic Books. As a reference but also as a text book for both beginners and the more advanced with many suggestions and practical tips: "Applied LEICA Technique". It describes the technique of photography with the LEICA R system in great detail. Publishers: Umschau-Verlag, Stuttgarter Str. 18 - 24, D-6000 Frankfurt/Main, West-Germany.
Please ask your agency for it.
The Handbook of the LEICA System can be obtained from your Leitz dealer or agency against a cover charge.

LEICA FOTOGRAFIE. This magazine is absolutely essential for those who wish to learn more about 35 mm 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 and is available from your dealer or your Leitz agency.

Leitz Warranty. LEICA cameras and lenses are manufactured according to strict quality standards and are tested at every stage of production. For this reason, Leitz is able to offer an extended warranty of two years on every LEICA camera and lens.
Please make sure that you receive an original Leitz warranty card from your authorized Leitz dealer completely filled out plus the address of your nearest Leitz agency when you purchase a Leitz product.



A chapter for experts – the complete technical data of the LEICA R5

Camera type: Electronically controlled single-lens reflex camera with multiple automation for the format 24 x 36 mm.

Lens connection: Leica R bayonet

Lenses: More than 30 Leica R lenses with focal lengths from 15 – 800 mm.

Operating the camera: The camera is switched on by pressing the release button, by actuation of the program selector or by pushing down the test button for battery control (LEDs in viewfinder light up – exposure meter is working). After releasing the displays will be lighted for some 12 sec. before they go out automatically, provided that the shutter is being cocked.

Methods of exposure measurement: Selective and average metering through the lens, relating to practice combined with modes to make programs. Exposure measurement at full aperture and at working aperture.

Measuring cell: Silicon photodiode in the lower part of the camera, protected against stray light. For selective measurement, a collector lens is moved in front of the silicon photodiode, automatically by setting the program.

Selective measurement: Measuring field 7 mm in diameter, visible in viewfinder. The selectively measured value can be stored by taking up the slack of the camera release button for up to 30 seconds.

Averaging measurement: Center-weighted large-field averaging measurement.

Measuring range: Selective measurement: From 1 cd/m² up to 63000 cd/m² at f/1.4, i. e. a working range from EV + 3 to FV + 20 at ISO 100/21° corresponding to aperture/shutter speed combinations from f/1.4/1/4 sec. to f/22/1/2000 sec.

Averaging measurement: From 0.25 cd/m² to 63000 cd/m² at f/1.4, i. e. a working range from EV + 1 to FV + 20 corresponding to aperture/shutter speed combinations from f/1.4/1 sec. to f/22/1/2000 sec.

Programs: Combination of the aperture-priority, shutter speed-priority automatic program modes as well as the manual setting of shutter speed and aperture with the selective and averaging exposure measurement methods. With the program selector can be set:

- ⊙ Aperture priority mode with selective metering
- ⊠ Aperture priority mode with averaging metering
- ⊡ Shutter speed priority with averaging metering
- ⊢ Variable mode automation with averaging metering
- ⊣ manual setting of shutter speed and aperture with selective metering

Exposure override: Plus/minus 2 exposure values in 1/3 steps with clickstop. The override is indicated in the viewfinder.

Film speed range: ISO 12/12° to 3200/36°.

Power supply: Two silver oxide button cells or one lithium battery. Battery test with push button.

Viewfinder system: Built-in pentaprism. Five interchangeable focusing screens.

Eye-piece: Setting of correction values with dial from + 2 to – 2 dioptres. Integrated eye-piece diaphragm.

Viewfinder image area: 23 x 34,6 mm = 92 % of the film area.

Viewfinder magnification: 0.8x at 0 dioptres with 50 mm lens.

LED displays in viewfinder (depending on selected program): Program symbol, exposure value determined by exposure measurement (shutter speed or aperture), flash readiness and flash exposure control in combination with dedicated flash units, memory hold i. e. the storage of the selectively measured shutter speed in the aperture priority mode with selective metering, indicated by the program symbol extinguishing (the shutter speed indication remains indicated).

Reflected data in the viewfinder (depending on selected program): Preset aperture, preset shutter speed.

LED warning indications in viewfinder: Override setting, over- and under exposure warnings when measuring range is exceeded, restricted control range of aperture in shutter speed priority mode and mode automation, setting "X", "B" and "100" (in this case the exposure measurement does not work).

Flash synchronization: Standard contact bush (X) for flashbulb and electronic flash units, at the side of the prism housing. Central contact ("hot shoe", X) in the accessory shoe.

TTL flash exposure measurement with automatic changeover to "X": By using dedicated flash units (flash units designed for the system camera adaptation 300 – SCA 300) and in combination with the SCA 351 adapter the flash exposure measurement is controlled automatically and also the camera's electronics are set to "X" (1/100 sec.) when the flash unit is recharged. The flash readiness and the exposure control are indicated by a flashing LED (the LED indication of shutter speed and aperture disappears).

Override for TTL flash exposure measurement: Plus/minus 2 stops. In 1/3 values with clickstops. The override setting is indicated in the viewfinder.

Automatic changeover to "X": When using dedicated flash units of the SCA systems 300 and 500 in combination with the SCA 350 and 550 adapters the changeover of the camera electronics to "X" (1/100 sec.) takes place automatically after the flash unit has been recharged. A flashing LED in the viewfinder indicates readiness to flash (LED display of shutter speed/aperture disappears).

Manual settings for flash synchronization using the time-setting button: "X" = 1/100 sec. is produced mechanically and released electromagnetically. "100" = 1/100 sec. is produced mechanically and released mechanically. All shutter speeds from 1/2 to 1/60 sec. with manual setting and "B" = exposure of any duration.

Metering cell for flash exposure measurement: Silicon photodiode in the lower part of the camera, next to the metering cell for exposure measurement.

Film speed range: ISO 12/12° to ISO 3200/36°.

Shutter: Electronically controlled metal-blade focal-plane shutter. Vertical action.

Shutter speeds computed by electronics: For automatic programs from 15 s to 1/2000 s, continuously variable. With manual setting and aperture-priority in full values from 1/2 s to 1/200 s.

Shutter speeds produced mechanically: "X" = 1/100 s for electronic flash synchronization. "B" for exposures of any duration. "100" (orange) = 1/100 s if the batteries are exhausted.

Hinged mirror system: Semi-transparent hinged mirror with 17 deposited layers (70 % reflection, 30 % transmission). Behind this, Fresnel reflector for selective metering and averaging (1345 microreflectors of the Fresnel reflector concentrate the light on the metering cell). Vibration-free mirror movement.

Film transport: With single-stroke advance lever (angle of movement 130°) or optionally motor-driven with the Motor-Winder R (2 fps) or the Motor-Drive R (switchable 4 fps, 2 fps and single frames).

Identification of the film plane: By symbol on the top of the camera.

Exposure counter: Forward counting. Automatic reset when camera back is opened.

Multiple exposures: By pressing the rewind locking button. Automatic reset when the shutter is cocked. Exposure counter does not move on. Any number of exposures possible. Multiple exposures can also be taken by Drive or Winder.

Film rewind: Hinged rewind crank on the top left of the camera.

Shutter release: Shutter release button with standard thread for cable release. Circuit switched on (LEDs light up in the viewfinder – exposure meter in operation) by pressing after 0.3 mm. Storage of exposure value for ⊕ (light pressure) after 1 mm. Electromagnetic release for electronically computed shutter speeds and "X" (= 1/100s) after 1.3 mm. Mechanical release for mechanically produced shutter speeds "B" and "100" after 2.25 mm.

Self-timer: Delay time approx. 9 s. Operation indicated by a flashing red LED on the front of the camera.

Camera body: Die-cast aluminium, die-cast camera top of 1 mm thick zinc. 0.8 mm brass base plate. Camera back with film cartridge window (to check which film is inserted and the film type); can be replaced by the Data Back. Field depth lever on the right at the lens attachment permits visual assessment of the depth of field. Tripod thread = A 1/4, (1/4"). Eyelets on both sides for carrying strap. Mechanical connection and electric contacts for the Motor-Winder R and the Motor-Drive R. Optionally black or silver chromium finish.

Dimensions (without lens): Height 89.1 mm – length 138.5 mm – total depth 62.2 mm (depth of camera body 32.2 mm), weight = 625 g.





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