

# INSTRUCTIONS



# You are the owner of a LEICA®

We hope that you will obtain as much enjoyment from it as all the many LEICA fans in every country of the globe.

As a LEICA owner you have the benefit of a universal photographic system, which are seen that the second control of the second contr

Yours sincerely

ERNST LEITZ WETZLAR GMBH

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#### Fitting the carrying sfrap

The eyelets (17) are provided for fitting I the carrying strap. Release the double d-back length of leather from the round part of the shackle, push off both metal parts and hook them in the eyelets of the camera in opposite directions.

Thread the leather holders through the slots in the metal parts and secure them with the round part of the shackle.





camera with your right hand, your index finger resting on the release button, your thumb on the rapid-transport lever. The left hand either supports the lens from below, ready for quick refocusing, or it grasps the camera, in addition press the camera analist your forehead.



For upright views all you have to do is to rotate the camera through 90°. The position of your hands is the same as for horizontal views. You can also rotate the camera in the

opposite direction, then you must use your thumb to release the shutter.

# LEICA-Winder M 4-2

The bright-line measuring viewfinder of the LEICA M 4-P has been designed to combine the functions of a coupled range finder and of a viewlinder of outstanding quality. Whatever you see within the bright frame will appear on your exposed film. The bright-line frame is coupled with the ference between the lens axis and the viewfinder axis - is automatically com-

135 mm, and 50 + 75 mm.

of the viewfinder field. All the lenses of 21-135mm focal length are coupled with the rangefinder on insertion in the LEICA. When lenses of 28, 35, 50, 75, 90, and 135 mm focal length are inserted, the appropriate bright-line frames will automatically appear in the viewfinder image in the combinations 28 + 90 mm, 35 +





# The field-of-view selector

75 mm focal lengths.

The field-of-view selector (14) functions as a universal viewfinder: it enables the LEICA owner at any time to reflect into the viewfinder field the frames outlining the fields-of-view other than that of the lens that happens to be in the camera. Lever outward: field-of-view frames for 35 and 135mm focal lengths. Lever inward: field-of-view frame for the 28 and 90 mm focal lengths. Lever in the middle position: field-of-view frame for the 50 and



















## The rangefinder

The measuring field of the rangefinder appears in the centre of the viewfinder as a bright, sharply outlined oblorg, if you block the large field window (15) of the viewfinder, only the reflected bright-line frame and the measuring field remain visible. Focusing can be carried out according to the coincidence or to the split-image method.

Coincidence (double image) focusing: in portraiture, for instance, focus on the highlight in the sitter's eye. Observe the subject through the viewfinder and rotate the lens until the double contours in the measuring field coincide.

Spin-image focusing: Sight an edge or any other clearcut lino; if you find that this line is offset sideways as it enters the measuring field, rotate the tens until the line becomes continuous as it passes from the viewfinder- into the measuring field and out gajain. This method is to be preferred because of its superior accuracy.



Double image = unsharp







Coincident image = sharp





The rapid winding lever (3) at each full lever movement transports the film through one frame, winds the shutter and advances the frame counter to the next number. The film can also be transported by several short strokes of the transport lever. (—— film plane indication).

The shutter speed dial (5) controls the shutter speed and can be act either before or after the shutter is wound. It clicks home at every engraved speed value and except for the range between 8 and 15 any intermediate speeds can be set and are fully effective. At the "B" setting the shutter remains open as long as the release button is present. The dial must be set all the symbol \$\mathcal{F}\$ = 1% acc. when

The LEICA lenses have a fixed ring with depth-of-field scale (10), a rotatable ring for setting the focusing distance (11) and an iris diaphragm ring (12).



#### The distance scale

The distance scale (11) indicates the distance on which the lens is set, and, in connection with the depth-of-field scale (10), the extent of the depth of field. The distance is also important to the calculation of the guide number during the use of flash equipment.

The aperture sca

down; the values have been chosen to that the quantity of light reaching the film is halved every time the lens is stopped down one step. One aperture step is equivalent to one step on the shutter speed doll (5) regarding the adjustment of the light quantity to which the film is exposed. Like the shutter speed disk, the lens disphragm ring clicks into position opposite each number (own dispharym rings also can be appeared to the control of the same practice, to identify the setting of the discharace worn in the dark.



## The depth-of-field scale

The lens reproduces at maximum sharpness the plane, parallel to the tilm, on the The depth-of-field scale indicates the depth-of-field zone for the object distance on which the lens is focused. With the Somm SUMMICRON® 125 focused on 5m (16ft, 8hi), sharpness at 1/4 extends from 4m to about 8m (13ft, 4in to about 28ft, 8in), thowever, if you stop down to 1/11 at the same focusing distance, sharpness will exhed from 3m to about 20m.

(10th to about 67th)



# Inserting the lens

The red knob on the lens mount (8) must face the red dot on the camera body. After a short turn to the right the lens will engage in the bayonet mount with a click. Chance lenses in the shade (e.g. of your

own body). Remove the lens cap before you take pic-



## Taking out the lens

Grip the rear, fixed ring (10) of the lens. Depress arresting button (7), rotate the lens to the left and take it out.



Flash synchronization

bush marked "X" (21)

The LEICA M 4-P accepts all flash units on the market with standard flash plugs (coaxial plug) or with accessory-shoe contact.

The bushes for the cable connection of flash units are arranged on the back of the camera. Flashbulbs are connected to the left-hand bush (20) marked "M", and electronic flash units on the right-hand

Flash units and adapters without cable connection can be connected through the "X" flash contact in the accessory shoe

Flash cubes and certain types of flashbulb are fired through the X contact bush. The table on the right offers information about the various possibilities. Three flash units may be used simultaneously through the 3 flash connections.

Flashbulbs	AG 1 Flash Cubes AG 3 M 2	x	В→	1/30
	XM 1 PF 1 XM 5 PF 5	м	В→	1/40
	М 3	м	В→	1/125
	GE 5 25	м	В	1/500

Electronic flash X B - 4 (=1/ss)

M - Contact for flashbulbs

X = Contact or accessory shoe



# Inserting the film following page.

First make sure, by turning the rewind crank (16) in the direction of the arrow resistance proceed as described on the

Take the camera in your left hand, baseplate facing you. Pull out the topple in the trimmed like that of all films sold in car

Removing the film After the exposure of the last frame the

your right hand and insert it about half way into the space provided for it in the camera, orio the film lead, and pull it into the take-up spool\*. Push film cartridge and lead into the camera with the palm of your hand. Hinge the basenlate on to the lun at the side of the camera close it and lock it by means of the tonole (19) The baseclate is designed so that after it through two frames and release the shut-Tension the film after the second shutter-wind by rotating the rewind grank 16) The film is transported correctly if the rewind crank (16) turns against the

port. After the third shutter-wind the auto matic frame counter (1) points at 1 and the camera is ready for action.

ranid transport lever (3) can no longer be moved. The film must now be rewound wind crank (16) and rotate it in the direcinto the carnette Open hasenlate



## Looking offer your LEICA and its lenses

LEICA lenses act like burning glasses if the LEICA lies with the lens face upwards in full sunlight. You must therefore protect the housing and the shutter by putting on the lens can or keeping the comerce in

"personal" serial number engraved on it. You should make a note of this number as well as of the serial number of the camera engraved on the top of the LEICA. This can be very helpful indeed in case of loss or theft. The coating of LEICA lenses. together

with the use of special UV-absorbing cement achieves effective exclusion of ultraviolet light. This ensures consequently that all lenses possess the same colourtransmitting properties, inespective of focal length. The external anti-reflection coatings are wippresistant. Dust should be removed with a soft sable brush, a piece of cotton cloth (e.g. a hand-scorchie) washed several times, or lens sare used for the cleaning cloths, such as are used for the cleaning of spectacles; are not recommended, as they are clother, and the commended, as they are on the commended, as they are on the commended, as they are on the commended, as they are only the same of the commended on the control of the c

manently on the lens, where it will protect the front element from external influences, e.g. of sand or sea water spray on the beach.

The lens hood, too, protects the lens from

on the beach.

The lens hood, too, protects the lens from accidental finger marks and raindrops. Protect your precious lenses with the appropriate lens caps.

The LEICA system

## Exposure meter

The LEICAMETER® MR exposure meter can be coupled with the LEICAM 4-P for aimed exposure measurement. The clearly outlined measuring field of the LEICAMETER MR corresponds to the picture area of the 90mm LEICA lenses. Independently of the bens in the camera it can be reflected into the field of view with the field-of-view selector (14) at any times.



#### Interchangeable lenses

Besides the lenses of 28 to 135 mm focal lengths the LEICA owner has a whole range of interchangeable lenses of shorter and longer focal lengths at his command. The optical units of the 135 mm lenses can be unscrewed and used for ground-glass screen focusing with the VISO-FLEX 3 and on the Focusing Bellows 2.



## The LEICA-Winder M 4-2

A winder for automatic shutter-wind and film transport for single frames of up to 3 fps can be connected to the LEICA M 4-P. It is attached to the bottom of the camera housing in place of the baseplate. The winder is suitable for all shutter

speeds from 1 to 1/reasec including B. When the winder is disconnected or the batteries are exhausted the film and the shutter can also be wound manually. Remote control via the cable release





### VISOFLEX

160-3.

The long-focal-length telephoto lenses of 200mm focal length and more, the 65mm ELMAR® f/3.5, and the optical units of the 135 mm lenses are used in conjunction with the groundglass screen of the VISO-FLFX® attachment. Here as in macrophotography a groundglass screen offers genuine advantages. Eurther details are contained in our list

## The focusing bellows

mation

The Focusing Bellows II permits the use of almost all the LEICA lenses. High magnifications are possible with the 35 and 50mm lenses, with the 90mm lenses the reproduction range from ∞ to 1:1, and with the 135 mm lenses the continuous focusing range from ∞ to 1:1.5 is obtained. Our list No. 160-1 contains further infor-



are available for the range of LEICA lenlens. To the long-focal-length lenses the lens hoods are permanently attached and can be extended like a telescope. The lens should never be used without a lens hood, which offers effective protection against stray light and flare, as well as against rain drops and finger marks.

For the LEICA with standard lens the everready case (Code No. 14546) is recommended in addition combination cases are available for extensive photographic outfits. For further details see List No. 120-42



### Enlargers

A high-quality camera such as the LEICA calls for an enlarger of matching performance if this quality is not to be wasted. LEITZ have offer two well-tried top-quality models with automatic focusing, the 35 mm-only FOCOMAT® v 35 enlarger for the 35 mm commat only, and the FOCOMAT lic accommodating all film formats from 12 x17 mm to 6 x9 cm.

For detailed information please consult our Lists No. 170-2 and 170-9.



### Projectors

A large selection of projectors is available depending on the user's preference and depending on the user's preference and operations. They are extremely convenient to operate and can be adapted to a versatile range of uses. The most outstanding common characteristic of all LETZ projectors is their unsurpassed optical performance coupled with traditional LETZ precision. Please ask for descriptive literature.

#### I EITZ Candon In cases of damage our After-Sales Service is at your disposal.

#### Boad "I EICA EOTOGRAFIE"

Frost Leitz Wetzlar GmbH **Technical Service Department** D-6330 Wetslar

Germany or your national LEITZ Agency. Each LEICA camera is accompanied by a list of the LEITZ Agencies. Cases of

Enclosed with every LEICA is a free voucher for sample copies of "LEICA FOTOGRAFIE", the topical magazine of damage are settled according to the Inter-35mm technique available in German. English and French Please forward the

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#### The LEITZ Information Service

Germany

The LEITZ Information Service is available from 8 to 12 a.m. and 1 to 4 p.m. from Monday to Friday, telephone (06441) 292436 and will answer all question

connected with 35mm photography, prolection enlarging techniques and hingculars Letters should be addressed to

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The LEICA School

The LEICA School is part of the service

given by Leitz. It was established to meet the wishes of many committed photo-

graphers to receive a thorough further grounding in the fields of photography, projection, and enlarging, The courses offer the members a com prehensive photographic programme and

many suggestions, items of information, and pieces of practical advice. Further information and booking forms obtainable from

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