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# EXAKTA TWIN TL

TWIN TL

TWIN TL

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INSTRUCTIONS

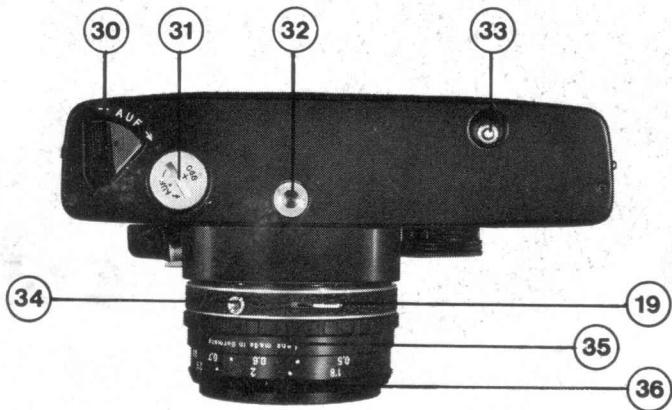
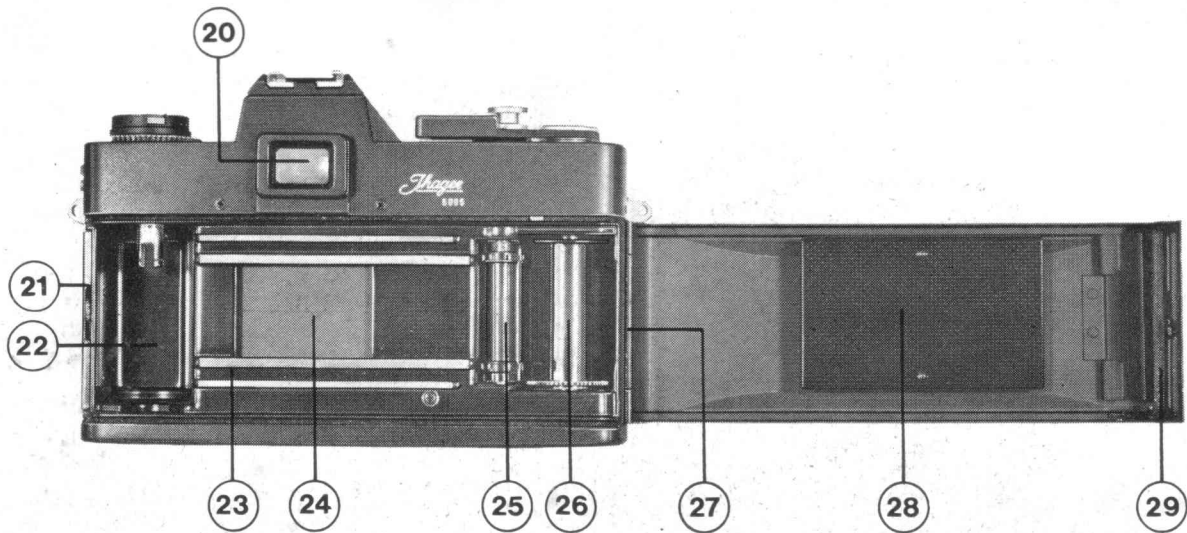
TWIN TL

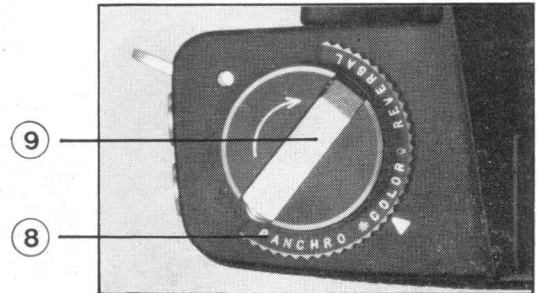
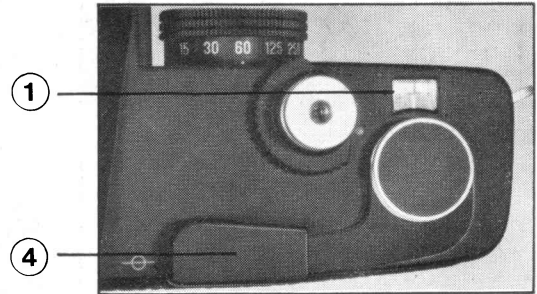
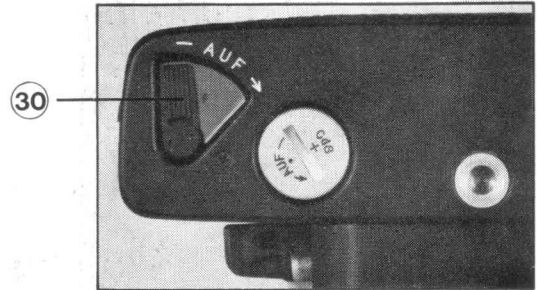
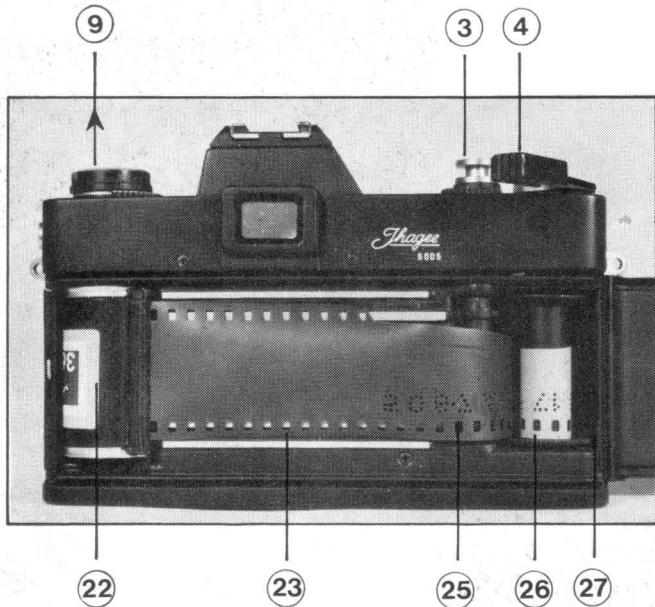
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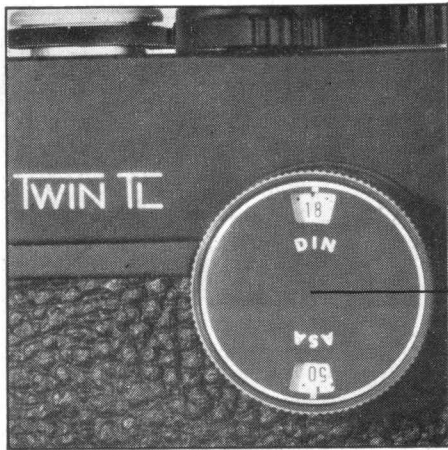


**EXAKTA - SYSTEM**

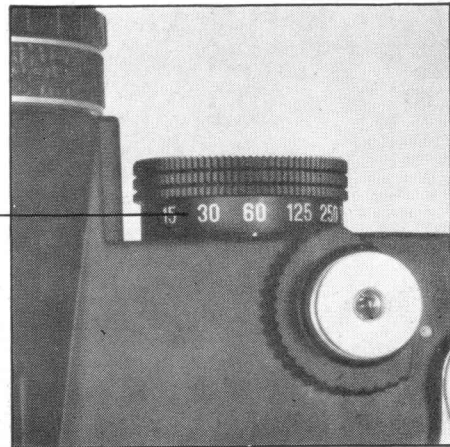




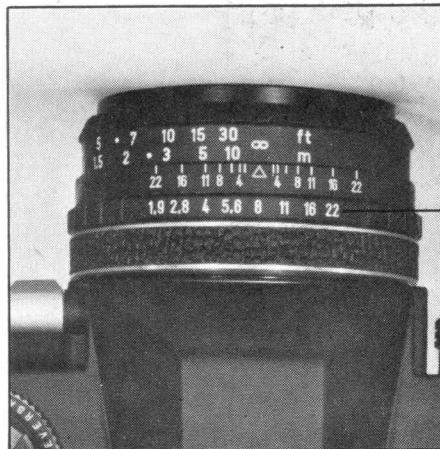




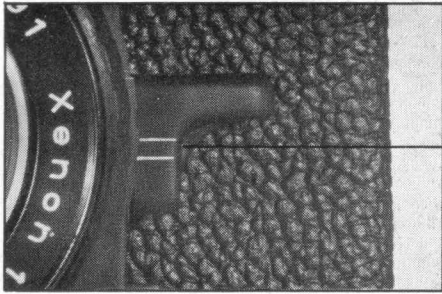
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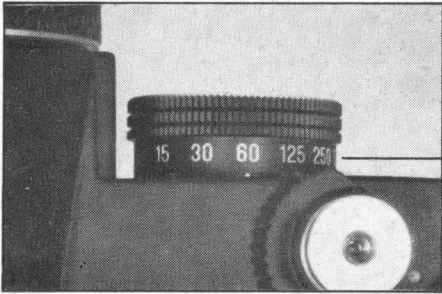
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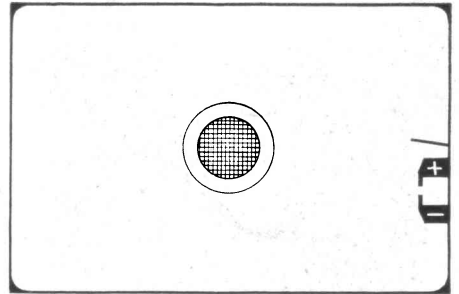


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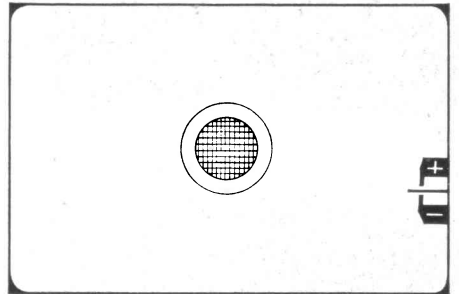


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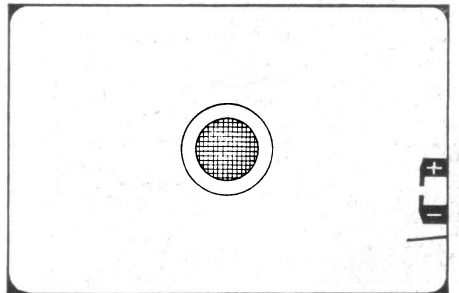
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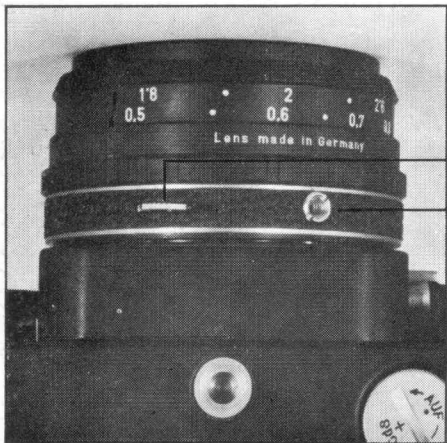
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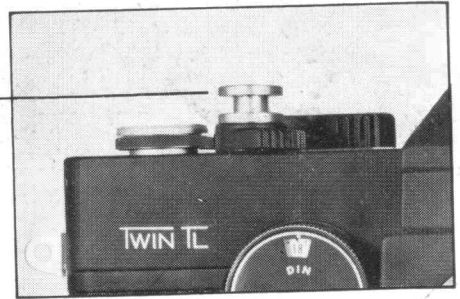




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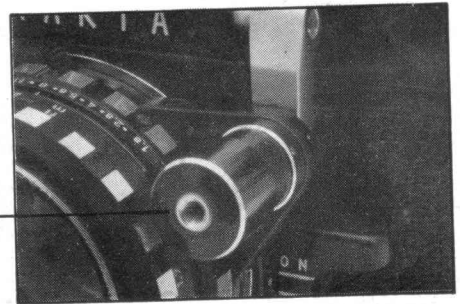
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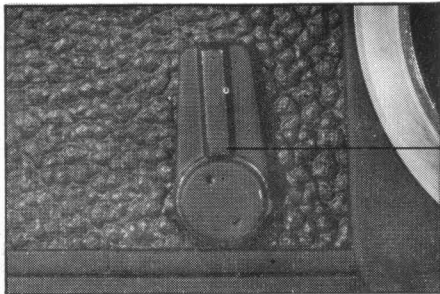
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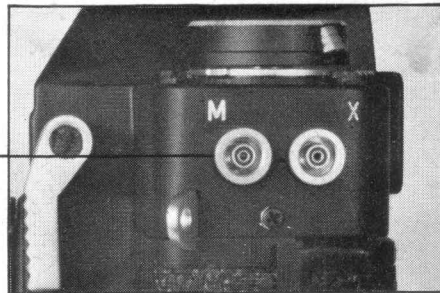
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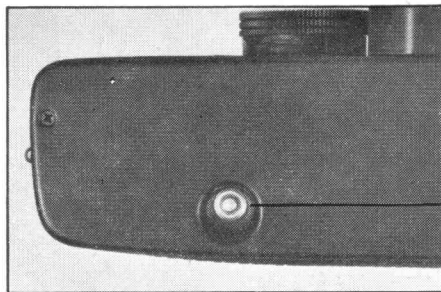
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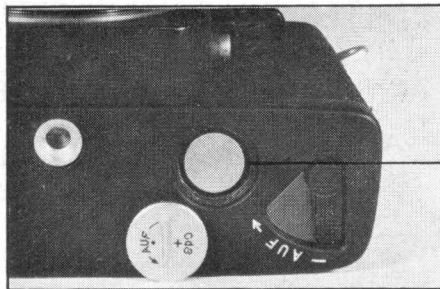
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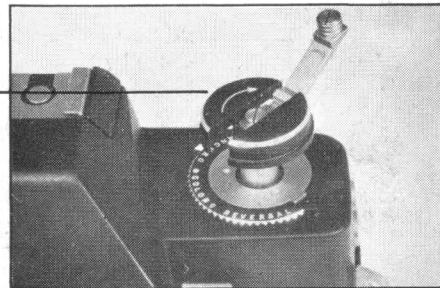
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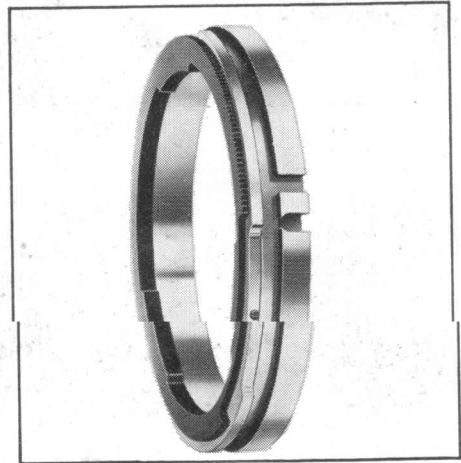


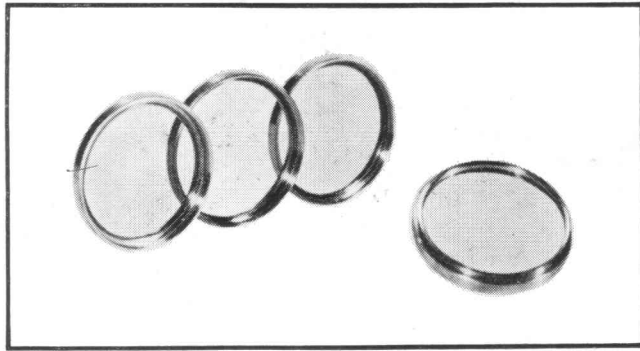
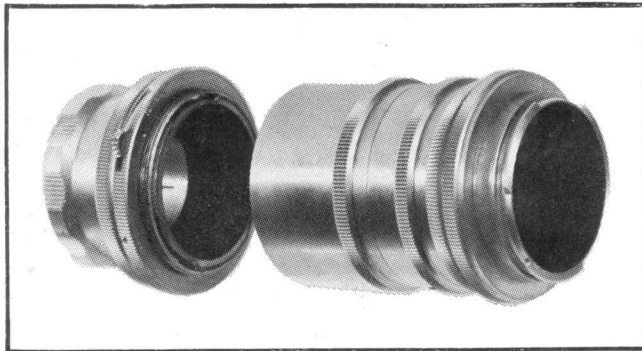
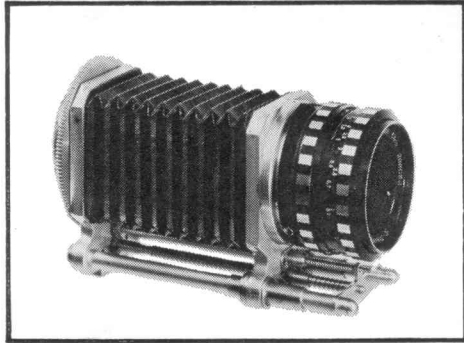
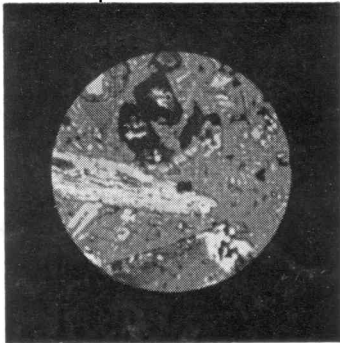
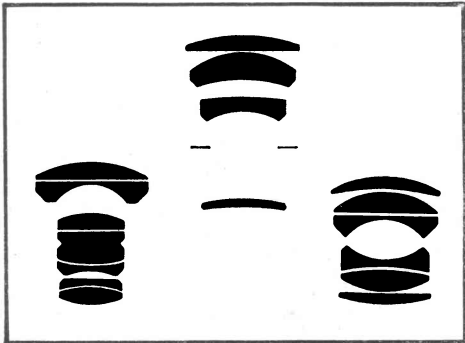
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## EXAKTA - SYSTEM

## Congratulations . . . .

on the acquisition of your EXAKTA TWIN TL camera. Before taking your first pictures with the new camera, we recommend that you read the directions very carefully.

Please make sure when making your purchase that the warranty and the registration card are filled in.

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**Description of Parts and the important operating controls of the EXAKTA TWIN TL**

- ① Film counter
- ② Lock for shutter-release
- ③ Shutter-release button with thread for cable release
- ④ Quick action film advance lever
- ⑤ Film plane indicator
- ⑥ Built-in pentaprism
- ⑦ Accessory-shoe with central flash contact
- ⑧ Film-type indicating disc
- ⑧<sup>a</sup> Film indicator, shows Red when camera loaded, White when empty
- ⑨ Film rewind knob with folding rewinding-crank
- ⑩ Carrying-strap eyelets on both sides of camera
- ⑪ Shutter-speed dial  
Shutter-speeds B 1 1/2 1/4 1/8 1/15 1/30  
1/60 1/125 1/250 1/500 1/1000 sec
- ⑫ Notched adjusting-dial for film speeds in DIN or ASA
- ⑬ M-contact for flashbulbs  
X-contact for electronic flash
- ⑭ Shutter release on camera-front
- ⑮ Operating lever for exposure meter with markings indicating functions
- ⑯ Release button for bayonet lens mount
- ⑰ Lens — interchangeable lenses
- ⑱ Cocking-lever for built-in selftimer
- ⑲ Setting device for adjusting automatic or manual aperture setting

- ⑳ Viewfinder eyepiece. Also has slide at edge for mounting accessories
- ㉑ Locking-device for camera back
- ㉒ Film spool housing
- ㉓ Focal plane
- ㉔ Vertically operating metal focal plane shutter
- ㉕ Film transport sprockets
- ㉖ Take-up spool
- ㉗ Back-cover hinge
- ㉘ Film-pressure plate
- ㉙ Outer back-cover locking device with pressure plate for film spool
- ㉚ Lever for opening back cover
- ㉛ Threaded cover for battery-housing
- ㉜ Tripod bush
- ㉝ Rewind button
- ㉞ Cable-release socket for shutter operation on lens
- ㉟ Lens aperture setting ring
- ㊱ Focusing ring

Attention! Before changing lenses please observe directions given on page 9 of "Instructions for Use".



### **Exposure-adjustment by alteration of the shutter speed**

Choose the desired lens-aperture by turning the lens-aperture scale ring (35) on the lens-body.

Next press the key of the exposure-meter (15) as far as the stop (Position of the exposure meter key has already been described in detail) and turn the shutter speed dial (11) until the exposure-pointer is located in a central position between the markings + and —. In case this central position cannot be achieved correctly alteration of the lens aperture will be necessary.

### **Markings for adjustment:**

The movement of the exposure-pointer is visible in the viewfinder.

Example I: The pointer is located over the + limit = over exposure.

Example II: The pointer is located in the central position = **correct exposure**.

Example III: The pointer is located under the — limit = under exposure.

### **Correct exposure**

After adjustment of the correct exposure it is advisable to check whether the chosen combination of shutter speed and aperture is suitable for your needs. By changing the combination of shutter speed and aperture you will be able to adjust the correct exposure to your requirements.

Attention! When using shutter speed of 1/15 sec. and longer the possibility of unsharpness due to camera movement arises. In such cases use a tripod and cable release.

### **EXAKTA TWIN TL — Light measuring system**

The measurement of the light is effected through the lens. Two photographic CdS cells acting independently scan the entire field of the image. The different light values of various portions of the image are then compensated to give the best light value. This precise system of measurement guarantees correct uniform exposure in all pictures, also when using telephoto lenses of greater focal lengths, filters, extension-rings, and for macro- and micro-photography.

### **Adjustment of sharpness — Adjustment of distant shots**

The fully automatic spring-diaphragm, the reflex-finder with microprism and Fresnel lens make possible simple, quick and dependably sharp focusing, with the diaphragm fully open. Choose your view in the reflex-finder and turn the focusing ring (36) until maximum sharpness is obtained.

The Fresnel lens in the centre of the image in the finder will enable you to focus with absolute sharpness.

### **Examples of adjustment:**

Upper picture =  
correct sharpness and depth of focus — best definition.

Lower picture =  
incorrect sharpness and depth of focus — poor definition.

### **Depth of Field**

The Depth of Field is the distance behind and in front of the subject on which you are focused,

which is sharp. The Depth of Focus of any lens will vary according to the focal length of the lens and aperture. The lens with a short focal length will have more depth of field than a lens with a long focal length.

When photographing subjects, with lots of important detail, as in architecture, use a small aperture, i. e. f 11 or f 16. To blur out unsightly backgrounds use a wide aperture, i. e. f 1.8 or f 2.8.

On the depth of field scale of the lens this distance may be read from the identical figures shown to the right and the left of the distance in meters.

Checking the depth of field may be effected through the reflexfinder. Press the exposure meter key which in this case performs the function of depth of field key and in conjunction with the effect on the Fresnel lens it will allow you to ascertain to what extent the depth of sharp focus extends over the chosen view.

With the lens-adjustment key (19) in position "A" it will be possible to operate the automatic spring-diaphragm. Before and after the exposure the diaphragm is fully open. By switching over to position "M" (Manual) the automatic spring-diaphragm may be cut out.

locking-disc (2) for the usual release of the shutter by hand or by cable release.

Releasing is effected by pressing the release-button (3) which may be locked by turning the locking disc (2) from the white dot to the red dot. By turning the locking-disc from the white dot to the green dot the release is unlocked.

2. The front release of the camera (14) has been provided for EXAKTA lenses with external release. Moreover it serves as an extra release with normal lenses for special "fast-shooting" techniques, or for left-handed users.

The release is operated by pressing the release lever (14) directly or by means of the lens release-button (which is also fitted with an additional thread for cable-release).

When using lenses with external release the camera release (3) should be locked by the locking-disc (2) as the diaphragm mechanism in lenses with external release can only be put in action by release (14). Inadvertent release of (3) will not operate the diaphragm mechanism of lenses with external release.

### Shutter release — Twin shutter release

The EXAKTA TWIN TL is equipped with two shutter releases:

1. Shutter release button (3) on the camera top with threaded socket for cable release, and

### **Built-in selftimer**

With the camera ready for shooting cock the selftimer by pressing the cocking-lever (18) as far as the stop. When the shutter release is pressed the selftimer will be put into operation. The time elapsing between pressing the shutter release and the opening of the shutter is about ten seconds.

### **Exchanging the exposure meter battery**

After opening the battery-housing by unscrewing the cover (31), by means of a coin, place the new battery with the mark + upwards into the battery-housing and close the housing by screwing down the cover. Please use only 1,3 Volt batteries of reputed brand, such as Ever Ready, Mallory RM 675.

### **Flash photography**

#### **M- and X- synchronization**

The EXAKTA TWIN TL has been synchronized both for M and X.

X = Electronic flash for all shutter speeds up to 1/125 sec (Red figure 125 on the shutter speed dial.)

M = Flashbulbs for all shutter speeds up to 1/1000 sec.

### **Removing the film**

The film is completely exposed when the number of shots possible with the film in use appears in the frame (1) of the film counter.

For rewinding the film the rewind release-button (33) should be pressed. Fold out the rewinding-crank (9) and rewind the film until the crank turns freely; this is the sign that the exposed film is fully rewound.

After pulling out the rewind-knob (9) unlock the camera back (30) and take out the film.

## **Exchange of lenses — Interchangeable lenses**

Attention! Lenses may only be changed when the exposure meter key (15) is in the "off" position i. e. when the "Red dash" is opposite the "White dot".

After checking this press the lens release-button (16) and disengage the lens from the body by turning it slightly to the left. For remounting the lens reverse the above movements. Be sure that both red dots on the lens as well as on the camera are opposite each other.

For the EXAKTA TWIN TL a number of interchangeable lenses of various types and focal lengths are available. Whatever type of lens or accessory is being used the correct exposure-measurement and the check on sharpness in the finder is always maintained.

## **EXAKTA SYSTEM RING — Only to be used for old EXAKTA lenses and accessories**

When designing the EXAKTA TWIN TL the technicians concerned were instructed to include the possibility of continued use of previously available EXAKTA lenses and equipment so the

EXAKTA TWIN TL is the consequent continuation of the famous EXAKTA SYSTEM.

The EXAKTA SYSTEM RING will enable you to use your old EXAKTA lenses and accessories in the bayonet fitting of the EXAKTA TWIN TL.

## **Accessories of EXAKTA TWIN TL**

The EXAKTA TWIN TL is a genuine system-camera enabling the perfection of your photographic technique by the use of accessories.

There are many useful accessories available. The Right Angle Finder (with variable dioptré setting for adjustment to different eyesight) enables you to view the image at right angles to the actual taking direction. The Microscope Attachment can be used for photomicrography which greatly extends the scientific use of your camera. There are other accessories for close-up and copying work such as the sets of extension tubes, the copying apparatus and the bellows attachment.

Then there are the EXAKTA SYSTEM RINGS which greatly enlarge the use of your camera. One SYSTEM RING enables you to use the complete range of existing EXAKTA equipment with the smaller bayonet mount, and another SYSTEM RING enables you to use screw-thread lenses of the universal type.

## Major Specification of the EXAKTA TWIN TL

Type:	Full size 35 mm S.L.R. with built-in CdS Exposure Meter
Film:	35 mm film (20 or 36 exposures)
Picture size:	24 mm x 36 mm
Interchangeable lenses:	Wide-angle, standard-, portrait-, tele- and long focal length lenses of various types and from numerous manufactures.
Shutter:	Copal-metal focal plane shutter B 1 - 1/1000 sec. X- and M-contact Built-in selftimer
Exposure system:	CdS exposure meter with double photo-cells, measurement through the lens, coupled to the shutter speed, diaphragm and film speed.
Reflex Viewfinder:	Prismatic reflexfinder with microprism adjustment, Fresnel lens with exposure indicator.
Film transport:	Rapid single stroke film transport lever which automatically transports film and cocks the shutter, with double exposure prevention.
Film counter:	Automatic resetting type. Resets to "0" by opening the camera back.
Double release:	Top release with release-button lock and front release for lenses with external release.
Further particulars:	Combined exposure meter and depth of focus switch Film-type "memory" disc.
Lens mount:	Bayonet mount 46 mm $\phi$ .