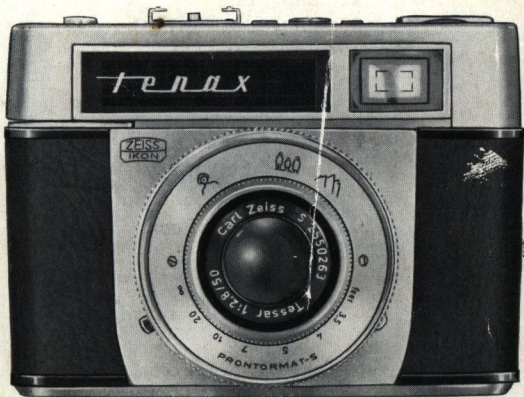


# ZEISS IKON



INSTRUCTION BOOKLET

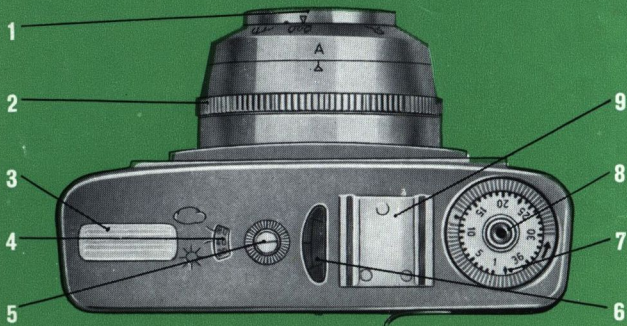
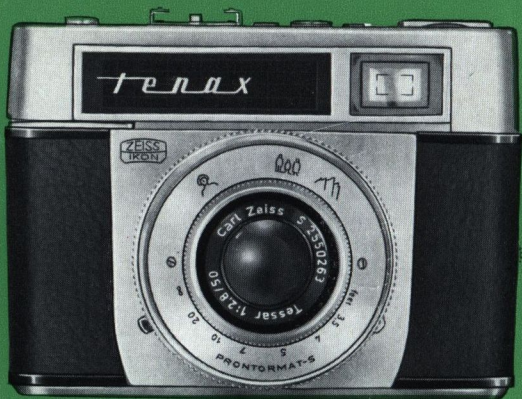
②




# Tenax

*automatic*





- 
- 1 Setting mark for symbols
  - 2 Setting ring
  - 3 Safety plug for flash connection
  - 4 Film-speed window
  - 5 Film-speed setting disc
  - 6 Exposure-meter window
  - 7 Frame-counter disc
  - 8 Control button
  - 9 Accessory shoe (flash equipment)
  - 10 Locking bar of camera back
  - 11 Locking pawl for flash range
  - 12 Tripod bush
  - 13 Locking pawl for rewind crank
  - 14 Rewind crank
  - 15 Axle of rewind crank
  - 16 Lever for flash and time exposures
  - 17 Aperture scale for flash and time exposures
  - 18 Film-type indicator disc
  - 19 Rapid-wind lever

## The TENAX automatic and You

will soon be on familiar terms, because you will not be bothered with difficult technicalities;

You can start taking photographs right away.

We expect that your dealer has loaded the camera with your first film. To load yourself in the future, you will find instructions on pages 8 to 10.

### Always take care that



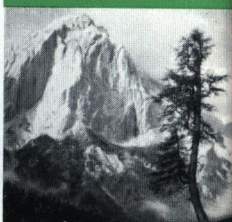
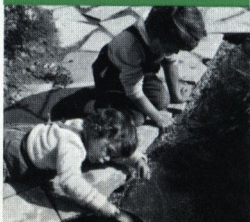
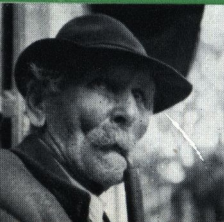
the film speed number printed on every film pack is set to the sun-symbol in the window (4).

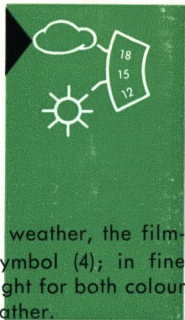
As soon as the rapid lever (19) is tensioned (press it to the right until it stops), you are ready to start hunting for pictures.



## Daylight Exposures

- ★ Mark on the setting ring (2) is set to "A".
  - ★ Turn the ring on the lens until the setting mark (1) clicks-in at the symbol representing your subject (see fig. 1).
  - ★ If the pointer is visible in the green zone of the window (6), the light available is suitable for the exposure intended.
  - ★ Hold the camera at eye level and look through the viewfinder: everything you see inside the bright frame will appear later on your photo.
  - ★ Gently depress the control button (8), using either the index or the middle finger of your right hand; never jerk the button.
- You have taken your first picture: After this, swing the rapid-wind lever (19) to the right until it comes to a stop. The TENAX is then ready for the next shot.





## Care with Colour Reversal Film

For taking pictures on this type of film in dull weather, the film-speed number should be set to the cloud symbol (4); in fine weather set it to the sun-symbol, which is also right for both colour negative film and black-and-white film in all weather.

## Flash photography

Remove the safety plug (3) and attach the IKOBLITZ 4 directly by plugging its contact into the two plug-holes (Fig. 7). Other flash-guns (including electronic units), should be attached to the accessory shoe (9) of the TENAX, plugging the cable into the socket which is beneath the safety plug. The safety plug can be stored in the ever-ready case.

For taking flash pictures, the automatic exposure control must be disengaged. This can only be done when the rapid wind lever (19) has been tensioned correctly: press down locking pawl (11) and move the setting ring (2) slightly to the right.

The flash guide-number, provided by the flash manufacturer, should be set on the TENAX: the mark next to 2.8 (on the under-

side of the camera) should be set to the correct value on the black scale. The lever (16) should point to the flash-symbol and the mark (1) on the lens ring should be set to "group". The camera/subject distance should be about 10 ft. The shutter is released as usual by depressing the control button (8).

After taking flash pictures, return the setting ring (2) to its automatic position ("A") (see also page 12).

## **Loading the film**

All normal brands of miniature film, black-and-white and colour, in cartridges for either 36 or 20 exposures, can be used with the TENAX. Film loading should always be done in subdued light. By pressing downwards the locking bar (10) on the narrow side, the back of the camera will spring open. First, place the lower end of the film cartridge over the pin in the cartridge chamber, so that the beginning of the film points towards the take-up spool (Fig. 2). The bar in the base of the cartridge-core should engage the slot in the pin. Now turn the flange of the take-up spool until the slot in the spool is on top. Insert the beginning of the film into the slot until the third or fourth perforation hole engages the lug in



Fig. 2

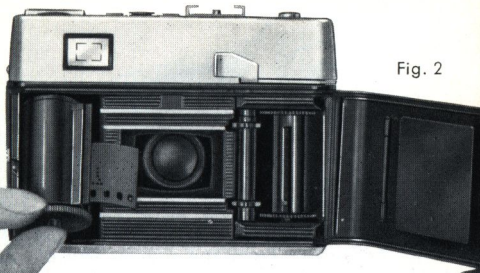


Fig. 3

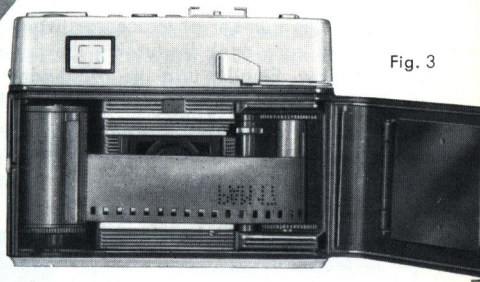
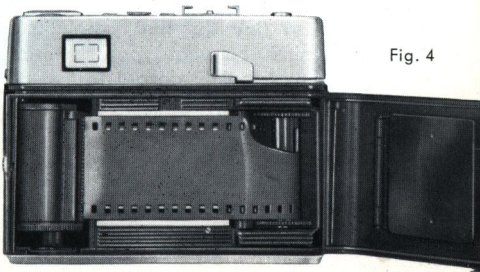


Fig. 4



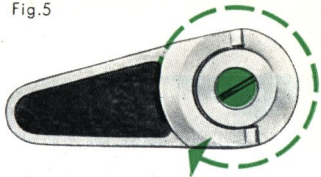
the slot (Fig. 3). Turn the flange of the take-up spool until the teeth of the sprocket drum engage the perforations on both sides of the film (Fig. 4). Close the TENAX by replacing the back, using slight pressure.

Set the mark on the frame-counter disc (7) to the red marking preceding the number of exposures (which will be clearly marked on the film cartridge), by turning the milled ring in the direction of the arrow. Finally, turn the rapid-wind lever (19) and release the control button (8) twice; while doing this, check that the axle of the rewind knob (15) turns, which shows that the film is being wound on correctly (Fig. 5). At the third stroke of the rapid-wind lever (11), the mark on the frame-counter dial will indicate 36 or 20, and the camera is correctly set for the first exposure.

The frame-counter dial always shows you how many frames are still to be exposed.

After loading, set the film speed by turning the disc (5) on the top of the camera to the sun-symbol; (see note on colour reversal film, page 7). Also turn the film-type indicator (18) on the camera back, to remind you what type of film is in the TENAX. The film-type indicator is solely an aid to memory and has no effect on the exposure.

Fig.5



## Removing the film

When the frame-counter dial indicates the figure "1" and the shutter is then released, the last picture has been taken and the film must be wound back into its cartridge. To do this, depress the locking pawl (13) on the underside of the TENAX. The rewind crank (14) will then spring out and should be unfolded (Fig. 6). Turn the crank in the direction of the arrow until a resistance is felt, which is caused by the film coming free from the take-up spool. Now open the back of the TENAX by pressing the bar (10) on the narrow side of the camera and remove the film. The rewind crank (14) is then folded home again firmly, so that the locking pawl (13) springs out visibly.

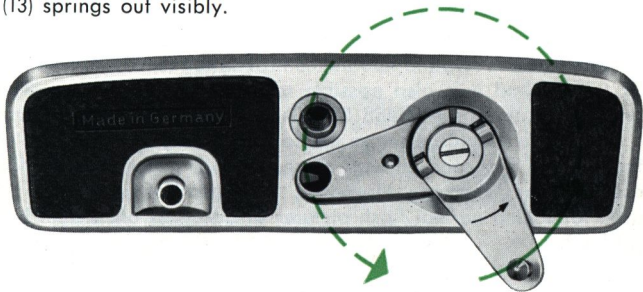


Fig. 6



## Special features

With the TENAX you can also set the distance by means of the distance scale, which will be found on the lower part of the front plate.

The automatic exposure control can be disengaged. To do this, press the locking pawl (11) (with the shutter tensioned) and turn the setting ring (2) to the left until the required aperture figure is opposite the centre mark on the lower part of the ring on the front plate. If the lever (16) is now pointing to the flash sign, you will obtain an exposure time of  $\frac{1}{30}$  second; by turning the lever to "B", it is possible to take time exposures from a tripod with any aperture setting. For these a cable release should be employed, which is screwed into the control button (8).

By this method it is also possible to take close-up pictures with supplementary lenses (ZEISS PROXAR lenses, 28.5 mm). Aperture and distance should be set on the scales. The exposure is made at the "B" or  $\frac{1}{30}$  second setting, as required, if necessary with the assistance of a flashgun. Moreover, this method of setting may be used for taking normal flash pictures at distances other than 3 m (10 feet).



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## **Eveready case**

The TENAX can be protected from external damage by its smart eveready case. The camera is screwed into the case by means of the tripod screw and need not be removed for use.

## **Lenshood**

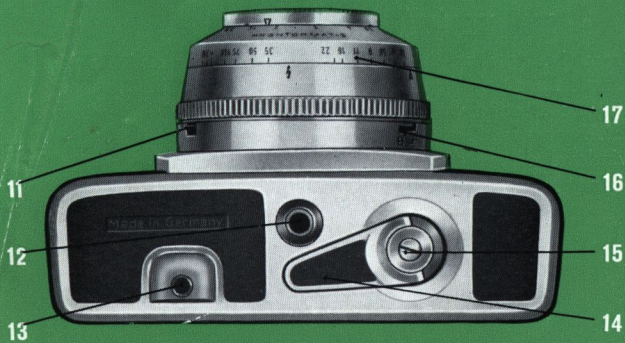
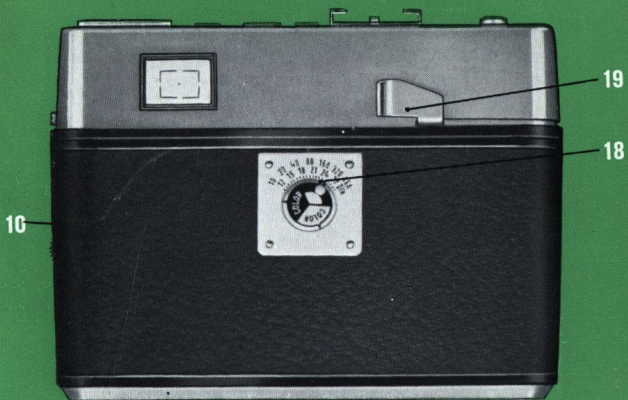
The lenshood obviates flare and fog when shooting directly into the sun. Moreover, it protects the lens from rain and snow in bad weather.

## **Of especially practical use is the rubber lenshood**

which can stay on the camera lens when the eveready case is closed.

## **Care of the TENAX**

From time to time the film cartridge chamber and the film track should be cleaned with a soft camel-hair brush. The lens should only be cleaned when necessary, by careful wiping with a clean, soft linen rag. First remove all dust with a camel-hair brush. The windows of the exposure meter and the viewfinder should also be cleaned occasionally with a linen rag.



Every TENAX has its serial number on the back, and every ZEISS TESSAR lens has its own lens number. It is advisable to make a note of both numbers in order to prove your ownership in cases of lost or theft.

Your photo-dealer will be glad to give you advice and information on all photographic questions, free of charge.

# ZEISS IKON

*leader in progress*

