

# MINOX Universal Binocular Attachment

## Instructions



One ocular of the binoculars used in conjunction with the camera serves to take the picture, whilst the other one is used as the viewfinder, for sharp focusing and for the observation of the subject. The camera focusing disc should be set always at  $\infty$  (infinity). The following instructions describe separately the use of the Minox camera in connection with binoculars with and without central screw focusing wheel.

The binocular attachment may be used with Minox models A (III S), B, and C.

## Binoculars with central screw focusing wheel

1 fixed, 1 movable ocular; distance focusing by turning the central screw focusing wheel.

### The fixing on the binocular

1. Unscrew eyecup of the fixed ocular.
2. Put focusing disc of the Minox camera on  $\infty$  (infinity).
3. Put camera in the camera adapter (casing A) of the attachment and fix it by turning the milled ring B one quarter turn to the right.
4. Open the clamp of the attachment by turning the knurled screw C and put it on the fixed ocular.
5. Take care that the 2 metal mounting plates D of the clamp rest on the outside rim of the ocular.

Otherwise, remove the black thin metal blades by loosening the 2 screws i. e. as long as the camera casing A touches the ocular lens of the binocular.

The metal blades are 0,5 mm and 1 mm thick, so that one can obtain 0,5 mm, 1mm or 1,5mm according to the need.

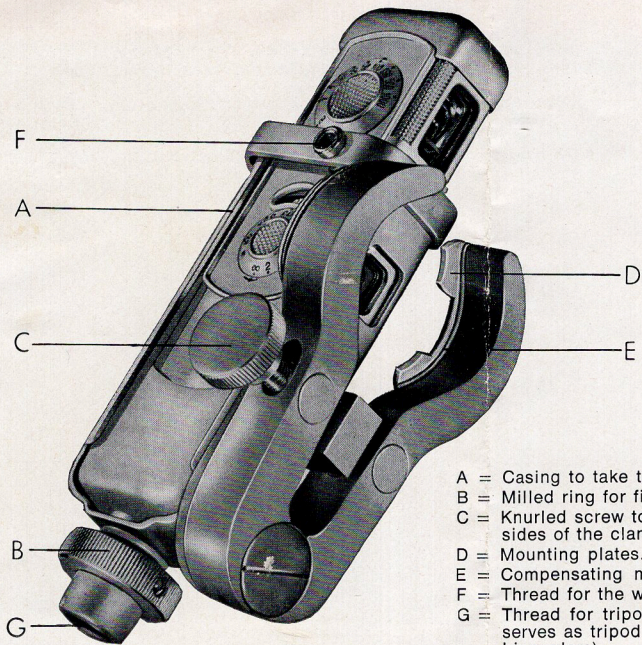
The distance between camera lens and binocular eye-piece should be as small as possible, otherwise there will be cut-off in the corners of the negative. Exception, Type B binoculars for spectacle wearers.

6. Tighten clamp by turning the knurled screw C.
7. Attach the holding device for the cable release by placing both sections round the centre pillar of the binoculars and then clamping it tightly.

8. Screw wire release in the thread F of the attachment.
9. Insert cable release through and under the cross bar of the binoculars and place the cable release head in the slot provided.
10. After opening the camera the release button must be placed exactly below the thread F of the wire release.

### Sharp focusing and exposure

11. Put the one ocular of the binocular to be used as the viewfinder in front of the eye in such a way that the other ocular used with the camera is not placed before the other eye but upright to your head (see illustration on the back page).
12. In case of myopia the visual defect of the observing eye (for instance - 3 dioptic degrees) must be adjusted on the movable ocular for all occasions. For normal perceptible eye vision leave on zero (0).
13. Secure sharp focusing by turning the central screw focusing wheel.
14. Hold binoculars very steadily and support them by the elbow or lean binoculars against a wall, tree etc. and make the exposure by pushing the wire release.



- A = Casing to take the camera.
- B = Milled ring for fixing the camera.
- C = Knurled screw to open and shut the sides of the clamp.
- D = Mounting plates.
- E = Compensating metal plates (detachable).
- F = Thread for the wire release.
- G = Thread for tripod (used when attachment serves as tripod head only i. e. without binoculars).

# Binoculars without central screw focusing wheel (Eyepiece focusing)

2 movable oculars; distance focusing by turning both oculars.

## The fixing on the binocular

1. Unscrew eyecup of one of both oculars.
2. Put focussing disc of the Minox camera on  $\infty$  (infinity).
3. Put camera in the camera adapter (casing A) of the attachment and fix it by turning the milled ring B one quarter turn to the right.
4. Open the clamp of the attachment by turning the knurled screw C and put it on the ocular with removed eyecup.
5. Take care that the 2 metal mounting plates D of the clamp rest on the outside rim of the ocular.

Otherwise, remove the black thin metal blades by loosening the 2 screws i. e. as long as the camera casing A touches the ocular lens of the binocular.

The metal blades are 0,5 mm and 1 mm thick, so that one can obtain 0,5 mm, 1 mm or 1,5 mm according to the need.

6. Tighten clamp by turning the knurled screw C.
7. Attach the holding device for the cable release by placing both sections round the centre pillar of the binoculars and clamp it tightly.
8. Screw wire release in the thread F of the attachment.
9. Insert cable release through and under the cross bar of the binoculars and place the cable release head in the slot provided.
10. After opening the camera the release button must be placed exactly below the thread F of the wire release.

## Sharp focusing and exposure

11. Put the one ocular of the binocular to be used as the viewfinder in front of the eye in such a way that the other ocular used with the camera is not placed before the other eye but upright to your head (see illustration on the back page).
12. In case of myopia the visual defect of the observing eye (for instance - 3 dioptre degrees) must be adjusted on the movable ocular for all occasions. For normal perceptible eye vision leave on zero (0).
13. Focusing for infinity (distances over 100 yards). Put ocular with the camera on zero.
14. Sharp focussing on shorter distances: Observe subject and focus it by turning the ocular. At whatever reading, indicated by the scale marking, sharp focusing is obtained, the corresponding reading must be adjusted for the other ocular to which the camera is mounted.

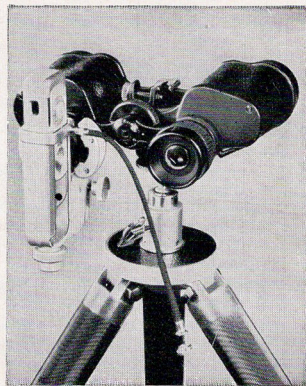
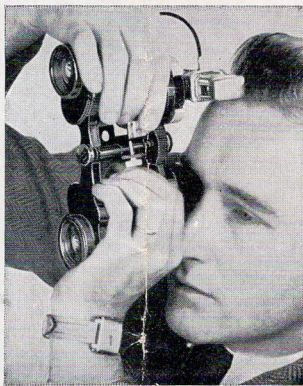
For example

	free ocular	ocular with camera
for $\infty$	- 3	0
for a shorter distance e. g.	- 1	+ 2

Both oculars have been turned consequently for 2 lines of division towards plus (+).

15. Put camera in upright position by loosening slightly the attachment clamp. Screw on clamp again.
16. Hold binoculars very steadily and support them by the elbow or lean binoculars against a wall, tree etc. and make the exposure by pushing the wire release.

## The correct method of holding



**On the left:** When taking **vertical** pictures the one ocular of the binocular which serves for the exposure is placed to the side of the head (observation of the picture with the right eye placed next to left ocular, alternatively with the left eye to the right ocular). **Centre:** In case of horizontal pictures turn binocular around 90°. **On the right:** For longer times of exposure the thread of the tripod is screwed on the lower end of the clamp for the wire release. To avoid jerking, the wire release should be loosened and operated in a free position. Important: The thread G of the attachment for the tripod is to be used only when this attachment serves as tripod adapter, i. e. without binoculars.

## Time of exposure

Most binoculars necessitate a time of exposure slightly longer than usual. This is most effectively determined by actual tests for comparison. In general, one and a half to double the normal exposure is required (for instance  $1/200$  of a second prolong to  $1/100$  of a second).

## **Minox accessories**

**For the exposure:** Minox films, Minox tripod adapter, Minox pocket tripod with cable release, Minox binocular attachment, Minox filter kits, Minox right angle finder mirror, Minox reflex finder, Minox B. C. flashguns B, B 4, and C 4. Electronic flash ME 1.

**For the development of films:** Minox daylight developing tank with thermometer, Minox ultra fine grain developer, Minox film envelope.

**For the enlargement:** Minox enlarger model II, Minox film viewing magnifier.

**For the projection:** Automatic MINOMAT-N-projector, MINOTACT-projector, Minox transparency cutter, Minox slide frames, Minox slide tray.

# **MINOX**

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