

*Most Fabulous*  
Photo Instrument of our Time



MINOX  
Camera

# A Camera

*small, of quick operation, yet rendering*

*Pictures full of life . . . . .*

**A Camera** which should be your constant companion always and everywhere; not only when you plan to take pictures but also when at work, or travelling about . . .

**A Camera** so light that you hardly notice its weight; so small that you always carry it in your pocket like a box of matches . . .

**A Camera** with refinements which simplify operation and prevent complications . . . .

**A Camera** superior in performance to many larger ones, versatile, and more handy . . . .

**A Camera** with essential accessories you need not search your pockets for because they are already built-in . . . .

**A Camera** in short, simple to operate, combining elegance with mechanical precision and high efficiency . . . .

**The Realisation of an Ideal —  
that's the Minox!**

The foregoing features were in the mind of its inventor. Improvements followed until the modern MINOX stands for

**Maximum Performance in the  
Minimum Space,**

resulting in the perfect sub-miniature camera.

The following pages tell you about this miracle of a sub-miniature; your dealer will be pleased to demonstrate just how wonderful it is.

Technical data will help you to realise all that the camera will do, much better than so many words.

So here are some figures: —

Dimensions: — 8.2 x 2.8 x 1.6 cm.

(3<sup>1</sup>/<sub>8</sub> x 1 x <sup>3</sup>/<sub>4</sub> ins. approx.)

Weight: — 70 grams (2 ozs. 7 drs. approx.)

Lens: — Complan coated Anastigmat  
f/3.5, 15 mm.

Focusing Range: **20 cm** (about 8 ins.)  
to infinity (∞)



Negative  
Size





Negative  
Size

Shutter speeds:  $\frac{1}{2}$ ,  $\frac{1}{5}$ ,  $\frac{1}{10}$ ,  $\frac{1}{20}$ ,  $\frac{1}{50}$ ,  $\frac{1}{100}$ ,  $\frac{1}{200}$ ,  
 $\frac{1}{500}$  and  $\frac{1}{1000}$  second, B & T.

Negative Size: 8 x 11 mm

Film: Daylight loading cassettes with film for 50 exposures available in the following speeds:  $10/10^\circ$ ,  $14/10^\circ$ ,  $17/10^\circ$  and  $21/10^\circ$  DIN. For copying work there is the special MINOX Document film.

Film Transport: coupled with shutter tensioning.

Viewfinder: Direct-vision type, with automatic parallax compensation.

Two built-in Filters (green and orange).

### **The Complan**

is a fully coated Anastigmat of recognised excellent performance. When the camera is closed, lens and viewfinder are well protected by the very resistant light metal body. The short focal length of 15 mm. yields great depth of field at the full speed of f/3.5; therefore stops have been dispensed with and, utilising the full speed, any subject between 2 m (6.5 ft.) and infinity will be sharply defined.

### **Film Guide :**

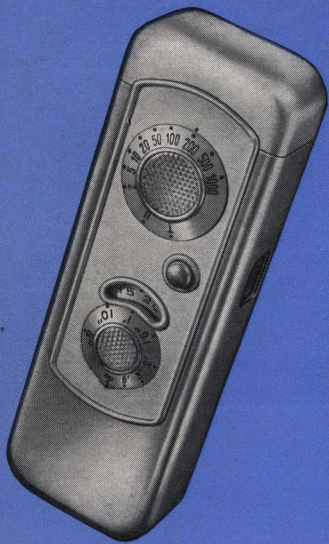
When the camera is in the taking position, the film is pressed by the film guide into a shaped position which yields maximum sharpness of the image. As the film is advanced, the pressure is released and the film runs freely through the film guide.

### **The Speed of the Lens :**

The great depth of field and the special kind of film pressure make stopping down unnecessary. The MINOX is always used at the fixed aperture of f 3.5.

### **Close-Ups as near as 20 cms (8 ins.):**

Close-up photography, to record the intricate beauty of small things, to secure the charm of detail, is a joy with the MINOX. Without supplementary lenses or other accessories, it will focus down as near as 20 cms. (8 inches) and give good definition at the full speed of f 3.5. The carrying chain is provided with measuring beads which facilitate the accurate setting of the distance when focusing at close range.



MINOX - Camera  
closed

## Viewfinder

The MINOX viewfinder shows the subject within a well defined white frame as it will be seen in the final picture. Even wearers of glasses are able to see clearly the large bright field. Viewfinder and lens are coupled for focusing to give automatic parallax compensation; even in close-up subjects the field shown in the viewfinder corresponds exactly with the image on the film.

## Shutter

The central shutter, of novel construction, operates in front of the lens and opens fully at any speed. Speeds from  $1/2$  to  $1/1000$  th of a second, as well as T & B, are set on a disc. When set to B the shutter opens as the release is pressed down and closes when the pressure ends. When set to T, the shutter opens on depression of the release and remains open until the release is pressed a second time. The sensitive shutter release operates very smoothly and without jerking. The shutter mechanism is most reliable and is not affected by temperature or climatic conditions.

## The Camera Controls

The controls are arranged side by side on top of the camera and can be observed at a glance. Large

rotating scales, controlling distance and speed, are easily set by finger tip operation, even in winter when wearing gloves.

### **Film Transport**

The film transport is coupled with the shutter; closing and opening the camera advances the film and tensions the shutter. In this way double exposures are impossible.

### **Lens Hood**

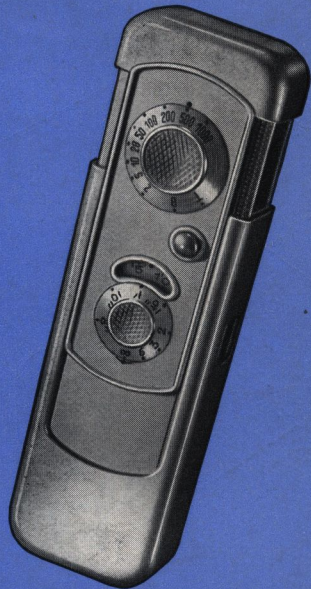
The well known advantages of a lens hood are obtained because the lens is so deeply recessed that the camera body acts as its own sunshade.

### **Two Filters**

The MINOX is equipped with two built-in filters (green and orange) which slide in front of the lens as required. Advancing the film automatically withdraws the filters.

### **Loading the Camera**

Film loading is simplicity itself. A daylight loading cartridge for 50 exposures is inserted into the camera, and the camera is closed. When the last exposure has been made, the cartridge is simply taken out; there is no need to rewind the film.



MINOX-Camera open  
ready for use



## The *MinoSix* Exposure Meter

The MinoSix is a photo-electric exposure meter. It has a **built-in viewfinder** which helps you to determine exactly the field of which a reading is to be taken.

### Exposure Times

for the MINOX can be read off at a glance without any further setting. The reading is retained until the instrument is used again, the needle locking when the meter is not in use, but being released during measuring. A table on the back of the MinoSix is intended for users of other cameras; it shows conversion values for other apertures.

**The MinoSix is particularly shock-proof,** owing to the measuring unit being laid in pivot-jewelled bearings, in accordance with recent technical advances.



## Film Speed

is pre-set by simply turning a knob. The scale is marked in ASA and DIN degrees.

## The Measuring Range

of the MinoSix meets fully the usual requirements of a modern exposure meter.

## The Attractive Light Metal Body,

of beautiful functional shape, has been specially surface-treated to withstand adverse external conditions.

## A Chromed Carrying Chain

safeguards the instrument against damage by falls, and against loss.

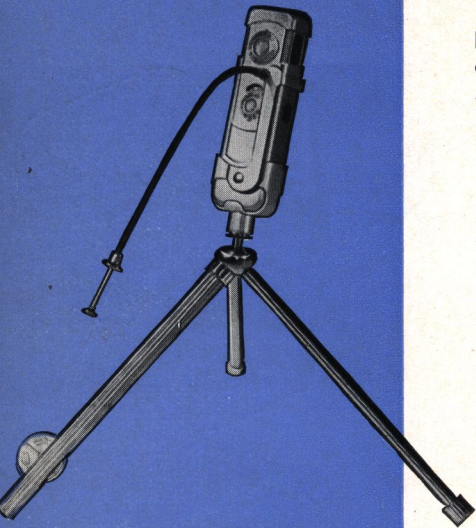
## The Morocco Leather Case

protects the valuable instrument, and saves the measuring unit, ensuring that the needle stops when the instrument is not in use.

## Small Size and Light Weight

characterize the MinoSix, making it your constant companion, like the MINOX camera.





### - Tripod Adaptor

For time exposures and close-up work the MINOX camera is placed on a tripod. The special Tripod Adaptor makes it possible to use any kind of tripod in conjunction with it. The camera shutter is released by means of a cable release which screws into the Tripod Adaptor.

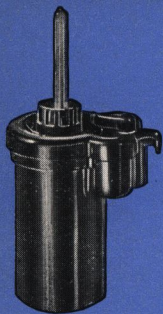
### - Table Tripod

The small but very steady Table Tripod is equipped with a built-in ball and socket head, which is fixed by means of the thickest of the three legs. When not in use, the other two legs are held inside this thicker ribbed leg. The whole tripod when closed is about the size of an ordinary pencil. The firmness of the tripod is such that it can also be used for larger cameras.

## - Films

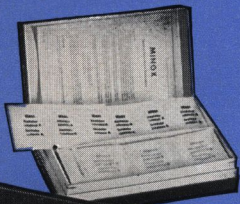
Only finest emulsions made by well-known, first-rate German firms are used in the production of MINOX films. Owing to the special construction of the day-light loading cassette (cartridge) it takes only a few seconds to load the camera, and no rewinding of the exposed film is necessary. Two cartridges of 50 exposures each are packed in a practical metal box, which protects the film even in tropical conditions. MINOX film is available in speeds to 10/10, 14/10, 17/10, 21/10 degrees DIN. A special type of film for copying is also supplied in MINOX cartridges.





### - Developing Tank

A daylight developing tank which permits the film not only to be developed but also to be loaded into the tank in ordinary room light. During the whole process the film is not touched by hand. The tank requires just over 1 1/4 ozs. of solution. To ensure the essential requirements of fineness of grain and resolution, a special fine-grain developer is available. Its use is strongly recommended.



### - Ultra-Fine grain Developer

Available in packages containing 15 developing sets (developer powders A and B, fixer, and wetting agent) in welded plastic bags which will keep the chemicals dry even during prolonged storage.

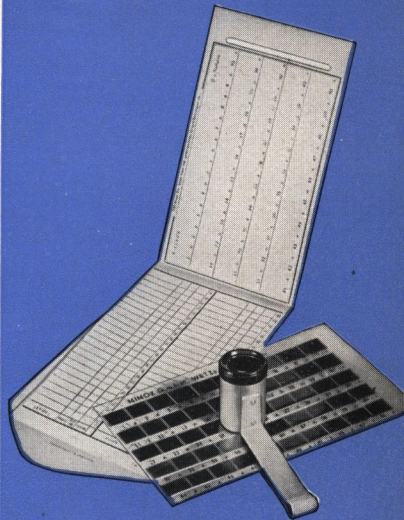


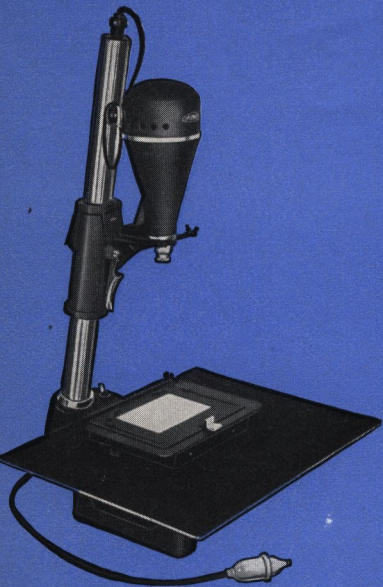
## **MINOX** -Film Envelope

A transparent cellophane envelope with five sections to store the developed film and protect it from scratches, dust, and fingermarks.. Printed numbers make it easy to locate any desired negative. Space for negative data and other notes is provided on the cardboard cover.

## **MINOX** -Film Viewing Magnifier

The Viewing Magnifier which gives a high degree of magnification serves to examine the negatives without taking them out of the film envelope. A mask at the lower end of the tube limits the view to one negative and its number. The magnifier is removable from the tube, and may thus be used for other purposes.





## **MINOX** -Enlarger Model II

The remarkably well corrected coated Complan lens of 15 mm. focal length ensures enlargements of pinpoint sharpness. A low voltage lamp (6 volts, 5 amps.) in conjunction with a double condenser yields a very high light output; to obtain conveniently long exposure times for smaller enlargements, a light reducing switch has been built in. Enlargements up to 24 x 30 cm (12 x 15 ins.) can be made on the baseboard.

The film carrier is glassless; this will prevent the appearance of Newton rings.

The mask is interchangeable for other sizes. With the appropriate mask from the set provided, enlargements can be made of single frames from 8, 9.5 and 16 mm. sub-standard cine film.

## -Copying Attachment

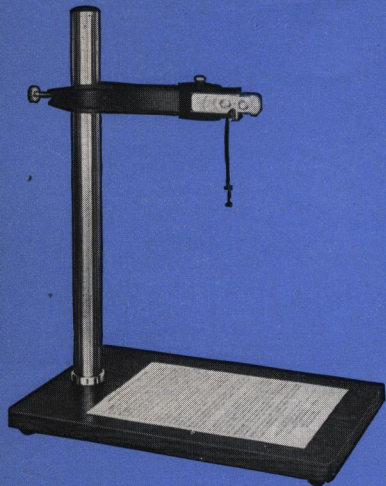
When the enlarger is to be used for copying, the lamp house is swung round through  $180^\circ$  and the Copying Attachment is fixed on the support provided for this purpose. It ensures that the MINOX camera is held exactly parallel with the baseboard.

To enable another camera to be used with the Copying Attachment an adaptor provided with a tripod bush takes its place.



## -Copying Arm

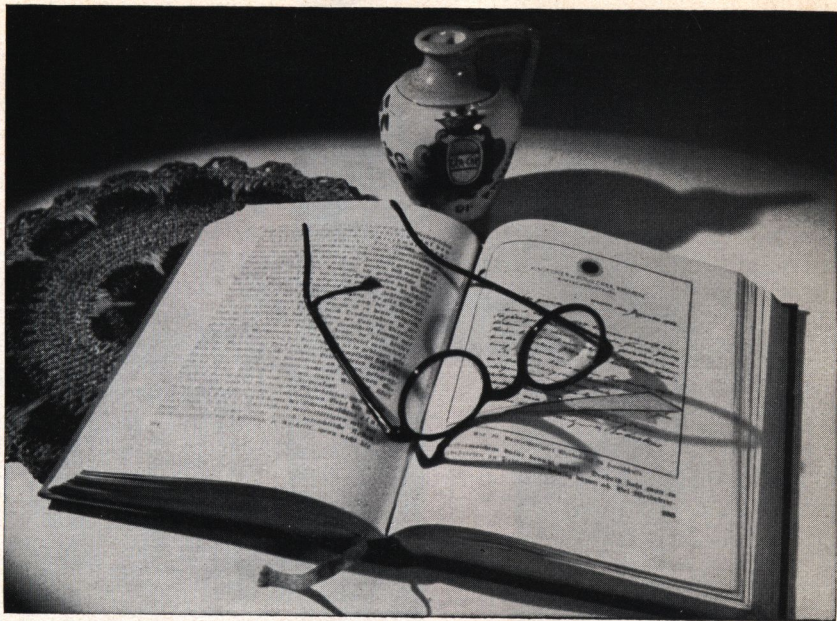
A Copying Arm has been constructed for users not possessing the MINOX II Enlarger. It can be attached to any vertical column (e. g. other enlargers, the leg of a table or chair, or to stands or tripods used in scientific laboratories). Its operation is similar to that of the Copying Attachment. The MINOX Copying Arm is also supplied with an adaptor for other cameras.







Negative  
Size





Relief on the City Theatre in Giessen. (Germany)  
MINOX-photo with Binocular Attachment,  
Binocular 8 x 40.

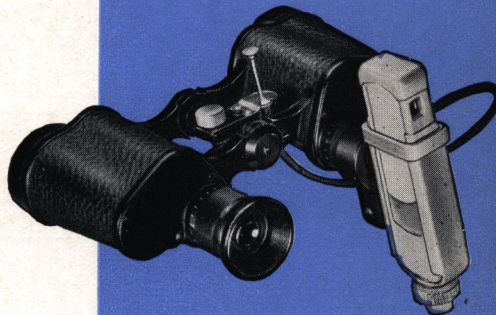


City Theatre Giessen. MINOX-photo without  
Binocular Attachment. Same standpoint.

## - Binocular Attachment

The MINOX Binocular Attachment enables MINOX users to take tele-photographs through field glasses. One-half of the Binoculars serves as a supplementary to the camera lens, while, owing to the small size of the MINOX camera, the other lens system of the binoculars can be used unimpeded in the usual way. It serves for the observation of the scene, and at the same time acts as a viewfinder.

Magnification and quality of the image will, of course, depend on the type of the binoculars used.



Careful and expert processing of the film is of the greatest importance in sub-miniature photography. Your work should be entrusted to a dealer who employs expert, well experienced workers.

If, however, you would like to enjoy the pleasures of MINOX photography to the full by developing and printing your own films, all the equipment shown on the preceding pages is available from your dealer.

It is the constant aim of the scientists and technical experts of the MINOX Company to perfect and expand the MINOX photography system.

**MINOX G. m. b. H., Optical and Precision Engineering Works  
Giessen, P. O. B. 137, Germany**

**CLYED'S**

*Cameras*

SE 1799

**409 Union St., Seattle, Wn.**

(The manufacturers reserve the right to alter the design of any piece of equipment described in this leaflet).