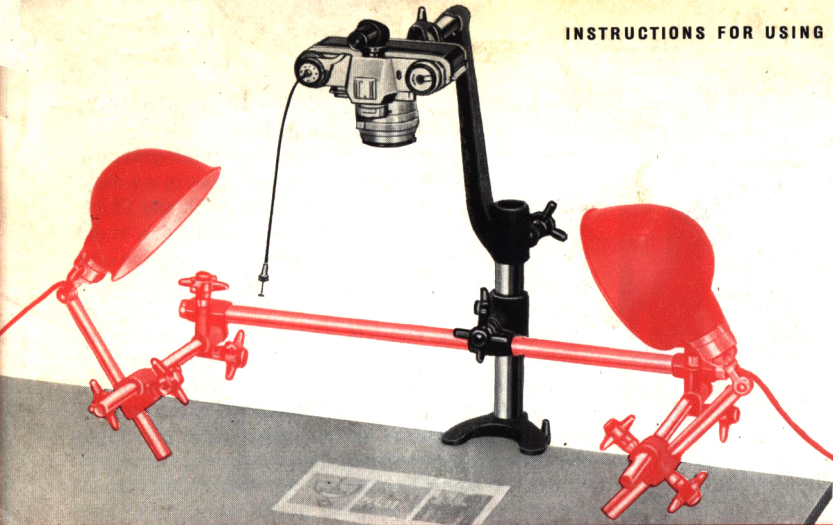


INSTRUCTIONS FOR USING THE



ZEISS IKON

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Table Reproduction Stand

**for
Contarex
and
Contaflex**





Miniature photography is being used to an ever increasing extent for copying manuscripts, printed matter and pictures, and also for photographing small objects. Such pictures may be taken in a simple and effective manner with the CONTAREX and CONTAFLEX, particularly if the table reproduction stand is used. Its construction is as simple as possible and enables the apparatus to be used for tasks of the most varying nature.

The apparatus consists of a table clamp which supports an up-right tube, sliding on which is a supporting arm which in turn carries the attachment bracket for the camera. All these parts are accommodated in a special carrying case which also takes the camera and films (Fig. 1).

Fig. 1

Assembling the stand

The reproduction stand can easily be fixed to the table, drawing board, or other similar surface with a suitable edge. The table clamp should be secured to the edge, care being taken to ensure that the bar of the clamping screw does not foul the opening for the tube. The pillar is next inserted into the clamp and secured by tightening the clamping screw. The supporting arm is then fitted to the pillar with the arm upright for photographing large originals and with the arm pointing down for small originals or subjects requiring a short taking distance (close-up magnification work). The attachment bar for the camera is inserted into the supporting arm and fitted so that the locating pins engage in the slots for either vertical or horizontal taking. For intermediate positions the pins are disengaged.

The field of view covered by the camera can be seen by looking into the viewfinder of the CONTAREX or CONTAFLEX in the usual way.



Fig. 2

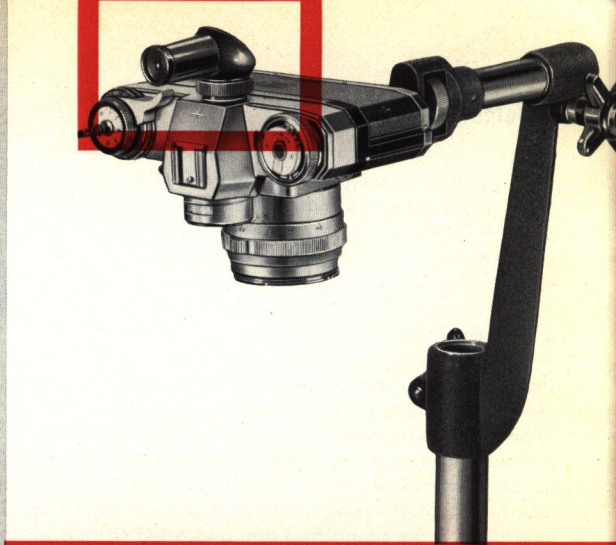


Fig. 3

The complete column should be raised or lowered until the object being copied fills the viewfinder. Obviously it is preferable to adjust the height by lowering the complete column, otherwise the end of the tube would project above the camera and impede the use of the viewfinder (Fig. 2). However when the full height of the column is utilised above the table clamp the use of viewfinder will be made easier and more comfortable by employing the angle viewfinder (Fig. 3).

Focusing is performed by examining the fine details of the image in the fine-screen ring; for bolder outlines the rangefinder may be used. If the CONTAFLEX is used for taking pictures at distances of less than 70 cm (28 inches), supplementary lenses will be necessary (Fig. 4).

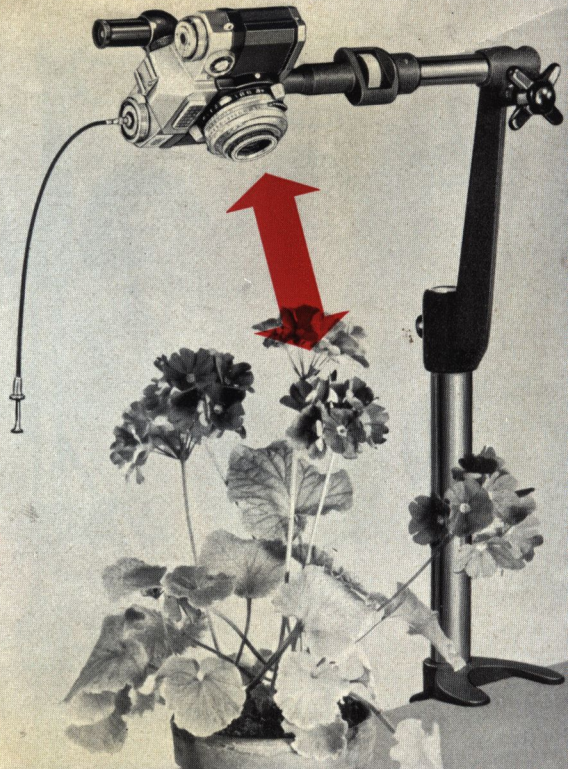


Fig. 4



Lighting equipment

To secure even light distribution on the original to be copied, a lighting unit may be attached to the main pillar. This consists of one crosspiece 32/22, one cross-bar 22 x 600, two lamp bars 15 x 400, two crosspieces 22/15, four crosspieces 15/15 and four reflectors with articulated bars (Fig. 5).

The cross-bar 22 x 600 is attached to the column of the Table Copying Apparatus with the crosspiece 32/22. One lamp bar 15 x 400 is fastened to each end of the cross-bar by means of the crosspieces 22/15. The four reflectors with articulated bars are spaced at equal distances along the lamp bars by means of the four crosspieces 15/15. It is advisable to employ 60-watt pearl bulbs to provide illumination; the bulbs must be arranged at equal distances from the centre of the original to ensure even lighting. According to requirements, the angle of illumination may be steep or shallow. The four lamps can be switched on or off

Fig. 5

individually; for small originals two lamps will be quite sufficient.

Once the illumination system has been set up, it will seldom need to be altered, even if the taking distance is changed. In this case, merely move the arm holding the camera up or down the column.

Exposure

The exposure is determined with an exposure meter, preferably measuring from a short distance. Hold the meter as close to the original as possible, without casting a shadow upon it.

For copying very large originals, the Copying Apparatus can be used horizontally. In this case the original should be attached to the wall. Always take care to ensure that the original is evenly illuminated. It is not necessary to remove the camera from the ball-and-socket head in order to change the film. Rewinding, removing the camera back, taking out the exposed film and inserting the new one may all be

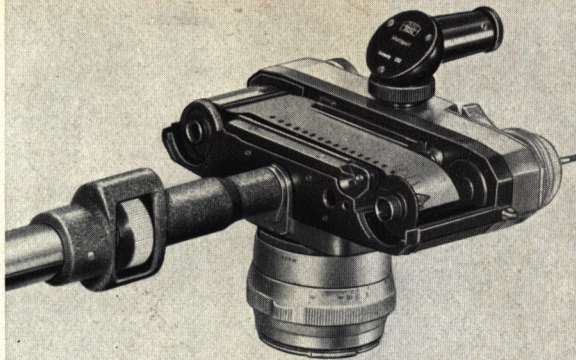


Fig. 6

performed without altering the position of the camera (Fig. 6).

Owners of CONTAREX cameras can also use the Copying Apparatus in conjunction with the Bellows Focusing Apparatus. The use of the Copying Apparatus is also recommended to CONTAFLEX owners for copying to a scale of 1:1 (with the Pro-Tessar M 1:1 lens), for producing transparencies from negatives and similar tasks.

The tables in the CONTAREX and CONTAFLEX instruction manuals, and also the supplementary lens tables for the CONTAFLEX, give details of the sizes of the objects which can be copied.

We reserve the right to make alterations in the interests of technical progress.

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