

**LARGE FORMAT PHOTOMICROGRAPHIC CAMERA**

**PMX 100**

**INSTRUCTION MANUAL**



**MEIJI TECHNO CO.,LTD.**

The PMX100 PHOTOMICROGRAPHIC CAMERA accepts the following Film Holders:

- 405 Polaroid 3½" x 4½" Pack film Holder
- 545 Polaroid 4" x 5" Sheet film Holder
- 550 Polaroid 4" x 5" Pack film Holder
- 451 Roll film holder, 6cm x 9cm, 8 EX
- 452 Roll film holder, 6cm x 7cm, 10EX
- 453 Roll film holder, 6cm x 9cm, 16EX
- 454 Roll film holder, 6cm x 7cm, 20EX

The PMX100 PHOTOMICROGRAPHIC CAMERA is used with the following MEIJI TECHNO microscopes:

- EMZ-TR2, EMZ-5TR, SMD-T System, RM-TH, ML-TH,
- ML-MET-T, ML-BD-MET-T, ML-POL-T, ML-UNIV-T, MTM,

NAME OF PARTS

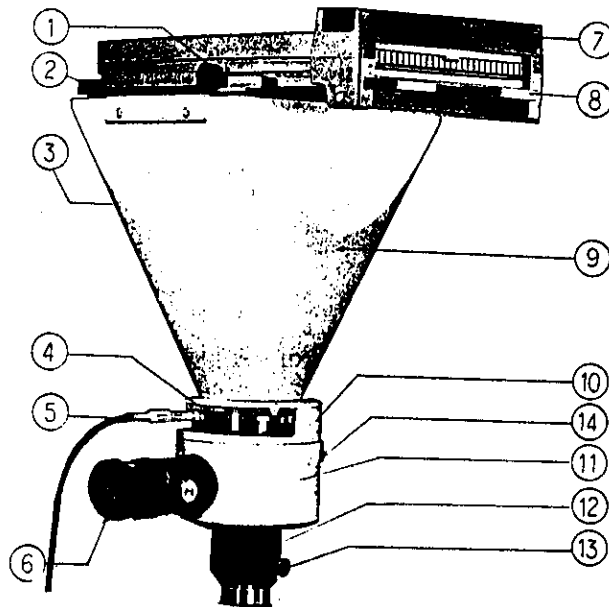


Fig. 1

- |                                     |  |   |
|-------------------------------------|--|---|
| ① Holder Clips                      | ⑥ Viewfinder<br>Eyepiece with<br>fraing reticule | ⑪ Lens aamd Beamsplitter<br>prism house |
| ② Connecting<br>Frame               | ⑦ Film Holder                                    | ⑫ Monting sleeve                        |
| ③ Tripod thread<br>(on the reverse) | ⑧ Dark Slide                                     | ⑬ Clamp Screw                           |
| ④ Shutter                           | ⑨ Camera body                                    | ⑭ Exposure meter opening                |
| ⑤ Cable release<br>socket           | ⑩ Shutter mount<br>socket                        |   |

## MOUNTING THE PMX100 (see Fig.1) ON THE MICROSCOP

1. Loosen the Holder Clips (1) on the Connecting Frame (2) and put Film Holder in which film is loaded in the Connecting Frame and tighten the Holder Clips (1).

NOTE: Please refer to the separate Film Holder Instructions for film loading and use of the Film Holder.

2. Loosen the Clamp Screw (13) and mount the Camera on the vertical tube (photo tube) of the microscope and tighten the Clamp Screw.

## FOCUSING THROUGH THE VIEWFINDER

1. Adjust the Viewfinder Eyepiece (6) so that the Framing Reticule is in sharp focus. This is done by rotating the knurled part (eyelens mount) of the viewfinder Eyepiece (6) and is necessary to match the Viewfinder to the operator's eyesight.
2. Focus the specimen through the Viewfinder Eyepiece by using the Focusing controls of the microscope. Once the specimen is focused with the Viewfinder Eyepiece, it is perfectly focused at the film plane. The PMX100 Camera is checked for parfocality at the factory.

## USING THE FRAMING RETICULE (see Fig. 2.)

The double crossline in the center of the reticule are used for adjustment of the Viewfinder Eyepiece. When these double crosslines are clearly separated, the Viewfinder eyepiece is properly adjusted.

Three frames are visible in the field of view as illustrated below:

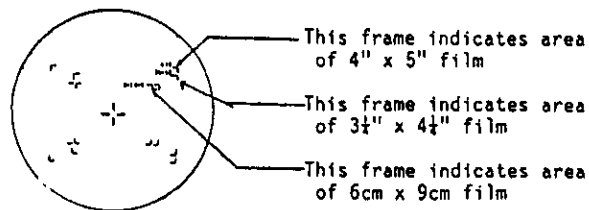


Fig. 2.

The area outside of the frame is not photographed. When a larger area of the specimen is to be photographed, use a lower power microscope objective. When the composition of the photo is to be changed, rotate the Camera by loosening the Clamp Screw 13 or move the specimen to the desired location.

## MAGNIFICATION

The PMX100 camera magnification is 10X. Therefore the magnification of the finished print is 10 times that of the objective.

Example: When the 10X objective is used, the actual magnification in the finished print is 100X.

## EXPOSURE

Please use MEIJI Model EX-1 EXPOSURE METER to determine the correct exposure.