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Manual PCE-MM100



Biological Microscope

OPERATING INSTRUCTION

Applications:

This type of microscope is used in primary and middle schools for observing biological specimen such as spores, wings, ova, feet, heads of insects, section of roots or stems and so on.

Specifications:

1. Objectives:

Type	Parameters	Magnification	N.A.
Achromatic		4X	0.10
		10X	0.25
		.40X(S)	0.65

2. Eyepiece

Magnification	Dia. of field
10X	Φ15
15X (Selective parts)	Φ 11

3. Mechanical tube length 160mm
4. Range of focusing 8mm
5. Abbe condenser N.A. 0.65
6. Stage 126×110mm
Transversal Movement: 60mm
Longitudinal Movement: 30mm
7. Bulb 110V/20W or 220V/20W

Setting up & sample operating:

1. Screw the objectives(3) into the nosepiece(2) by steps from the one with lower magnification to higher magnification.
 1. Put a sample into the center of the stage, and tight the sample by the fasten unit.
 2. Put the power on .So you can have the light.
 3. Turn the condenser-lifting knob to lift the Abbe condenser.
4. Focusing
Turn the coarse focusing knob(9) until you find an image, then turn the fine focusing knob(10) until the image appears clear.
5. Adjust the brightness of light and diameter of the iris diaphragm to obtain the satisfactory image.
6. To meet special demand of magnification, you can turn the nosepiece (2) and select the needed objectives.
7. If you need natural light, screw the collector(7) off and replace the reflecting mirror(8).

Maintenances:

1. Keep the instrument in dry and cool place, and keep it away from acid, when it is not used; please put the dust cover on it.
2. Keep the objectives and eyepiece clean, and wipe the lens by clean paper when there is dust or dirt covering.

Full set of the instrument

Parts	Specifications	Qty
Main		1 Set
Eyepieces	10X 、 (15XSelective parlS)	1 Pc of each
Objectives	4X 10X 40X (S)	1 Pc of each
Abbe condensèr	N.A. 0.65	1 Pc
Spare bulb		1 Pc
Spare fuse		1 Pc
Dust cover		1
instruction		1 Book



In this direction will find a vision of the measurement technique:
<http://www.industrial-needs.com/measuring-instruments.htm>

NOTE: "This instrument doesn't have ATEX protection, so it should not be used in potentially explosive atmospheres (powder, flammable gases)."