

MS1048A Biological Microscope

Operation Manual

Features

Binocular
Double layer mechanical stage with adjustable handle
Coaxial coarse/fine knob make for easy operation.
High quality Achromatic objectives,
Wide field eyepiece
Halogen lamp with adjustable brightness.

Specifications

1. Objectives

Category	Magnification	Numerical Aperture	Working Distance	Remark
Achromatic Objectives	4X	0.10	37.5	
	10X	0.25	7.613	
	40X (s)	0.65	0.632	Spring
	100X (s.oil)	1.25	0.198	Spring

2. Eyepieces

Category	Magnification	Field of View Diameter (mm)	Remark
Wide Field Eyepiece	WF10X	Φ18	
	WF16X	+/- Φ11	

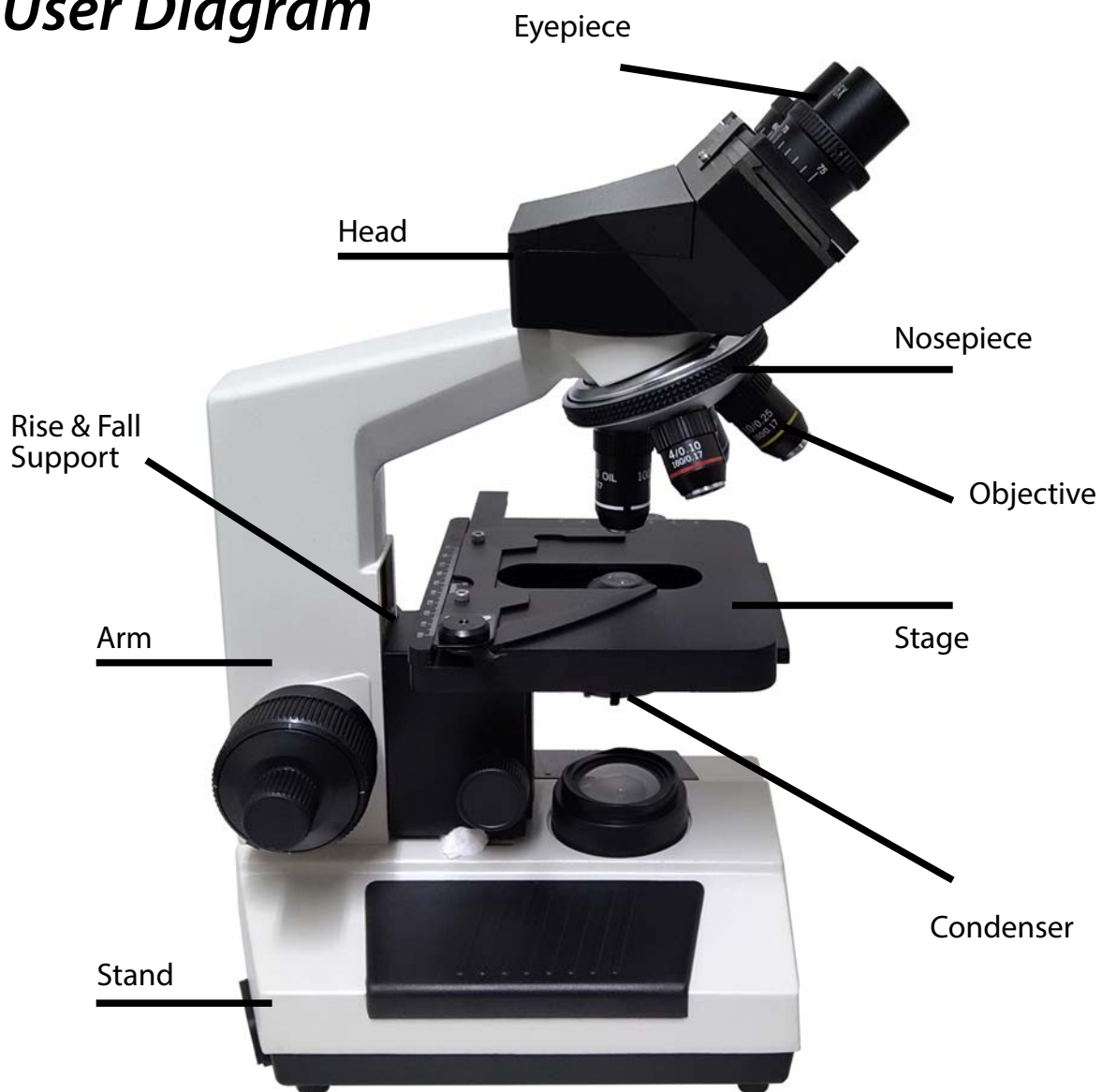
3. Total Magnification

Eyepiece Objective	4X	10X	40X(S)	100X(S.oil)
10X	40X	100X	400X	1000X
16X	64X	160X	640X	1600X

Specifications (cont)

4. Mechanical Tube Length:	160mm
5. Object to Primary Image Distance:	195mm
6. Stage Size:	140 x 140mm - Moving Range 75 x 45mm
7. ABBE Condenser:	NA=1.25 with iris diaphragm (Kohler optional)
8. Coarse/Fine Focal Range:	30mm
9. Illumination:	6V 20W Halogen Lamp - Adjustable Brightness
10. Power:	240V IEC Lead
11. Net Weight:	6.5 Kg
12. Total Size:	185 (L) x 270 (W) x 400 (H) mm

User Diagram



Operating Instructions

- 1** Insert the Eyepiece into the eyepiece tubes.
Screw the Objectives into the Nosepiece in order of Magnification (Low to High)
Place Specimen on the Stage - Secure and Center it.
- 2** Turn on the Power.
Slowly Adjust Brightness from Dark to Bright.
Before Powering Off - Reduce the Brightness from Bright to dark
- 3** Observe the Specimen at Lower Magnification Firstly.
Rotate to Higher Magnifications.
Use Fine Focus Knob to obtain a Clear Image.
When viewing at 100X (s.oil) use the oil between the objective & specimen.
- 4** When changing objectives adjust the condensers iris diaphragm to control illumination
- 5** When replacing the lamp ensure the Power is Off

Maintenance

Open Package Carefully
Use the dust cover when not in use
Keep in a Cool, Dry place



Full List of Package Components

1. <i>Body of Microscope</i>	1 pc
2. <i>Eyepiece Head</i>	1 pc
3. <i>Objectives: 4X, 10X, 40X(S), 100X(S,oil)</i>	1pc of each
4. <i>Eyepiece: WF10X</i>	2 pcs
5. <i>3W LED</i>	1 pc
6. <i>Filter: Light Blue</i>	1pc
7. <i>Cedarwood oil</i>	1 bottle
8. <i>Dust Cover</i>	1 pc
9. <i>Desiccant</i>	1 packet
10. <i>Manual</i>	1 copy
11. <i>Specification Sheet</i>	1 copy



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