



## Biological Microscope Instruction



### APPLICATION

This microscope is designed for experiments in schools.

## **SPECIFICATIONS**

### 1. Eyepiece:

Type	Magnification	Vision Field's Distance
WF	10X	18mm

### 2. Abbe condenser (N.A.0.65), variable disc diaphragm

### 3. Coaxial focus adjustment, with rack and pinion built in.

### 4. Objective:

Type	Magnification	N.A	Working Distance
Achromatic Objective	4X	0.1	33.3mm
	10X	0.25	6.19mm
	40X(S)	0.65	0.55mm

### 5. Illumination and Power:

Selective Part	Lamp	Power
	Incandescent Lamp	220V/110V
	LED	Battery

## **ASSEMBLY INSTRUCTIONS**

1. Remove microscope stand from foam packing and place it on a stable work surface. Remove all plastic bags and paper coverings (these can be discarded).
2. Remove the head from the foam, remove packing materials and fit it onto the neck of the microscope stand, tightening the screw clamp as necessary to hold the head in place.
3. Remove the plastic eyepiece tube covers from head and insert the WF10X Eyepiece.
4. Connect cord to power supply and your microscope is ready for use.

## **OPERATION**

1. Make sure the 4X objective is in position for use. This will make it easier to put your slide in place as well as to position the item you wish to look at. Put a slide on the stage and clamp it carefully into place with the moveable spring clips.
2. Connect the power and turn on the switch.
3. Always begin with the 4X Objective. Turn the focusing knob until a clear image is obtained. When the desired view is obtained under the lowest power (4X), rotate the nosepiece to the next higher magnification (10X). The nosepiece should "click" into position. Adjust the focusing knob as needed to, once again, obtain a clear view of the specimen.
4. Turn the focusing knob, observing the image of the specimen through the eyepiece.
5. Move the diaphragm below the stage to control the amount of light directed through the condenser. Try experimenting with various settings to get the most effective view of your specimen.

## **MAINTENANCE**

1. The microscope should be kept out of direct sunlight in a cool, dry place, free from dust, fumes, and moisture. If possible, store in a case or covered with a hood to protect it from dust.
2. The microscope has been carefully tested and inspected. Since all lenses have been carefully aligned, they should not be disassembled. If any dust has settled on the lenses, blow it off with an air blower or wipe off with a clean, soft brush.
3. When cleaning mechanical parts and applying non-corrosive lubricant, take special care not to touch the optical elements, especially the objective lenses.
4. When disassembling the microscope for storage, always put the covers on the nosepiece opening to prevent dust settling inside the lenses. Also keep the neck of the head covered.