

# STUDENT MICROSCOPES



## *USER'S MANUAL*

### **Models M1 Series**

*Thank you for purchasing this **Microscope**.  
Before use, please read this manual to learn about all the available features to  
obtain the best results from your microscope.*

**Warning:**

To prevent fire or shock hazard, do not expose this unit to rain or moisture.  
This equipment should be used with AC 110V, 60Hz in the USA or Canada.

No user-serviceable parts inside. Refer servicing to qualified service personnel.

## Operation

1. Put slide on the observation stage platform and fix with clips.
2. Turn the coarse adjustment (large) knob, observing the image of the specimen through the eyepiece. Use the fine adjustment (small) knob for more clarity.
3. **M1:** The spiral mount condenser assembly can be shifted up or down by means of the control knob (left hand side under the stage) to effectively move the light beam closer to (up) or away from (down) the specimen under observation. The iris diaphragm on the bottom of the condenser can be opened (slide lever forward) or closed (slide lever back to left) to control the amount of light directed through the condenser.  
Try experimenting with various settings to get the most effective view of your specimen.
4. Rotate nosepiece as needed for desired magnifications and adjust fine focus slightly for clearest view.
5. The microscope with a set of slides tools including:
  - 1 PC Specimen vial
  - 1 PC Needle
  - 1 PC Plastic tweezers
  - 1 PC Plastic stirring rod
  - 1 PC Specimen slicer
  - 1 PC Dropper
  - 2 PCs Eosin
  - 5 PCS Prepared slides
  - 5 PCS Blank slides
  - 5 PCS Slide covers
  - 5 PCS Slide label



M1-1B SPECIFICATION

## Applications

These microscopes are suitable for student use in primary and middle schools for observing various biological specimens, such as spores, insects and stem sections. Both M2 series are equipped with a built in rechargeable battery and a detachable AC power cord for cordless operation.

## Specifications

### 1. Objectives

Magnifying Power	Numerical Aperture
4X	0.10
10X	0.25
40X	0.65

### 2. Eyepiece

Type	Magnification	Diameter of Field(mm)
Widefield	10X	15
Widefield	25X	8

### 3. Range of focus control: Coarse and Fine--- 8 mm

### 4. Illumination: 4.5V LED Cool Illumination System

## Maintenance

1. Keep the instrument in dry and cool place.
2. Keep the objectives and eyepiece clean. Clean the optical glasses when needed with lens paper. If necessary, apply a small amount of optical glass cleaner (commercially available—the type used on cameras and other optical lens).

## Recharging

Insert the cord into the AC adaptor, found at the base of the microscope, and then plug into the wall. Charging only takes place when the microscope is “OFF.” We recommend that the microscope be recharged only when the battery is fully drained, so as to prolong the battery’s lifespan.

The manufacturer warrants this instrument to be free from defects in material and workmanship under normal use for five years from the date of purchase (one year for electrical components). It does not cover damage resulting from abuse or misuse, repairs or alterations performed by other than authorized repair technicians, or damage occurring in transit. If you have questions concerning this product or warranty, contact the dealer from whom it was purchased. For warranty service, microscope should be well packed to avoid damage in transit, preferably in original box and packing. Include your complete return address and telephone number as well as a description of the difficulty, date and place of purchase, and ship to the address below. It will be repaired or replaced at no charge and returned. If misuse, alterations, accident or abnormal conditions of operation caused failure, an estimate for repairs will be provided for your approval prior to work being performed.