

## **MAINTENANCE**

1. Keep the instrument in a dry and cool place. Keep it away from acid or alkali. Put the dust cover over it when the microscope is not in use.
2. Keep lenses clean. Remove dust from lenses with soft brush (e.g., camel hair).
3. If the microscope is soiled, unplug the microscope. Wipe with a soft cloth (e.g., microfiber cloth) dampened with a mild detergent (e.g., dishwashing detergent). DO NOT SATURATE THE CLOTH. To rinse, wipe again with clean cloth dampened with water. Dry the microscope with a soft, dry cloth.
4. Operating temperature is 0-40°C.

## **LIMITED MICROSCOPE WARRANTY**

This microscope and its electronic components are warranted to be free from defects in material and workmanship for a period of five years from the date of invoice to the original (end user) purchaser. The LED lamp is warranted for a period of one year from the date of invoice to the original (end user) purchaser. This warranty does not cover damage caused in-transit, misuse, neglect, abuse, or damage resulting from improper servicing or modification by other than ACCU-SCOPE approved service personnel. This warranty does not cover any routine maintenance work or any other work, which is reasonably expected to be performed by the purchaser. Normal wear is excluded from this warranty. No responsibility is assumed for unsatisfactory operating performance due to environmental conditions such as humidity, dust, corrosive chemicals, deposition of oil or other foreign matter, spillage, or other conditions beyond the control of ACCU-SCOPE INC. This warranty expressly excludes any liability by ACCUSCOPE INC. for consequential loss or damage on any grounds, such as (but not limited to) the non-availability to the End User of the product(s) under warranty or the need to repair work processes. Should any defect in material, workmanship or electronic component occur under this warranty contact your ACCU-SCOPE distributor or ACCUSCOPE at (631) 864-1000. This warranty is limited to the continental United States of America. All items returned for warranty repair must be sent freight prepaid and insured to ACCU-SCOPE INC., 73 Mall Drive, Commack, NY 11725 – USA. All warranty repairs will be returned freight prepaid to any destination within the continental United States of America, for all foreign warranty repairs return freight charges are the responsibility of the individual/company who returned the merchandise for repair.

ACCU-SCOPE is a registered trademark of ACCU-SCOPE INC., Commack, NY 11725

## **ACCU-SCOPE™ EXM-50 MONOCULAR MICROSCOPE**

### **INFORMATION & INSTRUCTIONS**

This information manual identifies the various parts and general operation of the microscope. The manual is intended to familiarize the first-time user with the instrument.

These microscopes are ruggedly built for classroom and laboratory use. The instruments feature fully coated Achromatic optics and international standard DIN objectives and eyepieces. They are excellent optical systems with good resolution, centering, and parfocal features. Mechanical movements are smooth and positive. The plain stage and focus travel stop serve to minimize damage to the specimen and the microscope.

### **SPECIFICATIONS**

Viewing Head: Monocular head, inclined at 45°

Objectives: 4x, 10x, 40xR\* (\*spring loaded)

Magnification: 40x, 100x, 400x

Eyepiece: WF10x/.

Illumination: Built-in LED lamp with adjustable brightness

Condenser: Single lens (N.A 0.65) with disc diaphragm

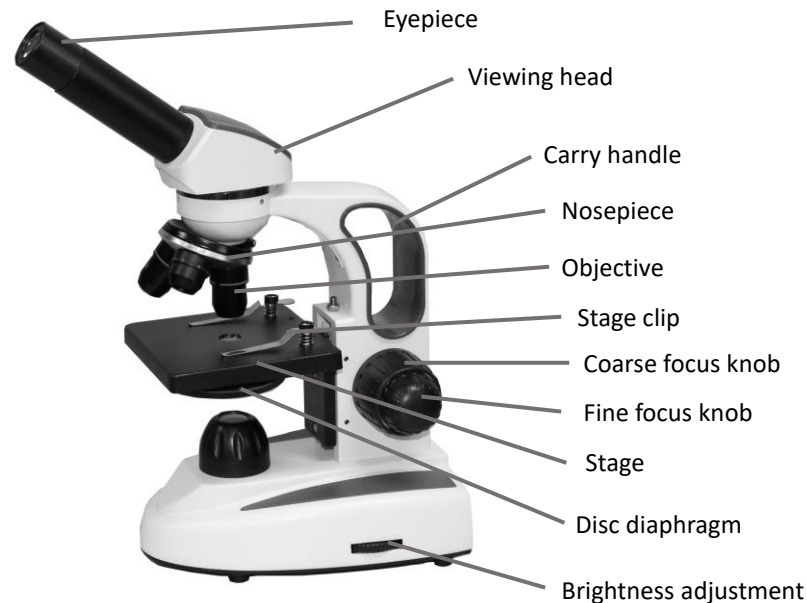
Plain stage size: 90X90mm with slide clips

Tube length: 160mm

Focusing: Coarse adjustment

## SET-UP

1. Familiarize yourself both visually and physically with the mechanical parts of your microscope. Operate each part by hand (no tools required) to see how it behaves and its result.
2. Your microscope was shipped fully assembled, yet some components may loosen during transit. Check the objectives are securely mounted in the nosepiece by gripping the knurled ring on the objectives with your fingers and turn it to the right – finger-tight is sufficient. Rotate the nosepiece by hand and notice that each objective lens has a “click stop” that stops and holds the objective being used in its proper position relative to the optical axis of the microscope.
3. Plug the power cord into the back of the microscope and into an electrical socket. Switch your microscope “ON” and it is ready for use. Power switch is on the back.



## OPERATION

Follow the steps below to prepare the specimen for viewing:

Rotate the nosepiece so the 4x objective is in the down position.

Press the stage clip bar down, place the slide onto the stage, and gently release the slide clip bar ensuring that the stage clips hold it firmly in place.

Position the slide so that the portion of the specimen that you wish to observe is below the 4x objective and in the light path.

Slowly rotate the coarse focus knob until the stage is approximately 1/8" from the objective – do not let the slide contact the objective as damage to either or both may occur.

*HINT: When using the coarse focus knob, start with the objective as close to the stage as possible and focus from the bottom up. This will help to prevent any contact between the objective and the stage.*

Adjust the disc diaphragm to control the amount of light into the specimen.

To change the magnification, first turn the focus knob so the objective is positioned at its furthest point from the stage.

Turn the nosepiece until the desired objective is in place.

Return the objective to the point closest to the stage and focus once again backing away from the stage.

To determine the total magnification, multiply the magnification of the objective with that of the eyepiece (e.g., 10x objective X 10x eyepiece = 100x magnification).