


ACCU SCOPE EXC-100 Compound Microscope



# ACCU SCOPE EXC-100 Compound Microscope Instruction Manual

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# ACCU-SCOPE

## ACCU SCOPE EXC-100 Compound Microscope



### Specifications:

- **Model:** EXC-100
- **Series:** MICROSCOPE SERIES
- **SKU:** V240429

### Product Usage Instructions

#### Safety Notes:

1. Open the shipping carton carefully to prevent any accessory from being damaged.
2. Retain the molded Styrofoam container for future reshipment needs.
3. Keep the microscope away from direct sunlight, high temperature, humidity, and dusty environments. Place it on a smooth, level, and firm surface.
4. If any liquids spill onto the microscope, disconnect the power cord immediately and clean up the spillage to prevent damage.
5. Use an electrical surge suppressor for all electrical connections to prevent damage from voltage fluctuations.
6. When replacing the LED bulb or fuse, ensure the main switch is off, power cord is removed, and the components are cooled.
7. Check that the input voltage matches your line voltage to avoid severe damage.

#### Care and Maintenance:

1. Avoid disassembling any component of the microscope.
2. Regularly clean the instrument to remove dirt and debris.

**Introduction:**

Congratulations on your purchase of the ACCU-SCOPE microscope. It is engineered to high-quality standards and will last a lifetime with proper use and maintenance.

**Unpacking and Components:**

Handle the microscope carefully during unpacking. Retain the Styrofoam container for future use. Place the microscope on a flat, vibration-free surface.

**Operation Notice:**

1. Operate the microscope with care to avoid physical vibrations.
2. Avoid direct sunlight, high temperature, humidity, dust, or shakes.
3. When moving the microscope, hold it from specific points to prevent damage.
4. Connect the microscope to the ground to prevent lightning strikes.
5. Ensure the power knob is rotated counterclockwise for safety.

**SAFETY NOTES**

1. Open the shipping carton carefully to prevent any accessory, e.g., objectives or eyepieces, from dropping and being damaged.
2. Do not discard the molded Styrofoam container; the container should be retained should the microscope ever require reshipment.
3. Keep the instrument out of direct sunlight, high temperature or humidity, and dusty environments. Ensure the microscope is located on a smooth, level and firm surface.
4. If any specimen solutions or other liquids splash onto the stage, objective or any other component, disconnect the power cord immediately and wipe up the spillage. Otherwise, the instrument may be damaged.
5. All electrical connectors (power cord) should be inserted into an electrical surge suppressor to prevent damage due to voltage fluctuations.
6. For safety when replacing the LED bulb or fuse, be sure the main switch is off ("O"), remove the power cord, and replace the LED bulb after the bulb and the lamp house has completely cooled.
7. Confirm that the input voltage indicated on your microscope corresponds to your line voltage. The use of a different input voltage other than indicated will cause severe damage to the microscope.

**CARE AND MAINTENANCE**

1. Do not attempt to disassemble any component including eyepieces, objectives or focusing assembly.
2. Keep the instrument clean; remove dirt and debris regularly. Accumulated dirt on metal surfaces should be cleaned with a damp cloth. More persistent dirt should be removed using a mild soap solution. Do not use organic solvents for cleansing.
3. The outer surface of the optics should be inspected and cleaned periodically using an air stream from an air bulb. If dirt remains on the optical surface, use a soft cloth or cotton swab dampened with a lens cleaning solution (available at camera stores). All optical lenses should be swabbed using a circular motion. A small amount of absorbent cotton wound on the end of a tapered stick such as cotton swabs or Q-tips, makes a useful tool for cleaning recessed optical surfaces. Avoid using an excessive amount of solvents as this may cause problems with optical coatings or cemented optics or the flowing solvent may pick up grease making

cleaning more difficult. Oil immersion objectives should be cleaned immediately after use by removing the oil with lens tissue or a clean, soft cloth.

4. Store the instrument in a cool, dry environment. Cover the microscope with the dust cover when not in use.
5. ACCU-SCOPE® microscopes are precision instruments which require periodic preventative maintenance to maintain proper performance and to compensate for normal wear. An annual schedule of preventative maintenance by qualified personnel is highly recommended. Your authorized ACCU-SCOPE distributor can arrange for this service.

## **INTRODUCTION**

Congratulations on the purchase of your new ACCU-SCOPE microscope. ACCU-SCOPE microscopes are engineered and manufactured to the highest quality standards. Your microscope will last a lifetime if used and maintained properly. ACCU-SCOPE microscopes are carefully assembled, inspected and tested by our staff of trained technicians in our New York facility. Careful quality control procedures ensure each microscope is of the highest quality prior to shipment.

## **UNPACKING AND COMPONENTS**

Your microscope arrived packed in a molded Styrofoam container. Do not discard the container: the Styrofoam container should be retained for reshipment of your microscope if needed. Avoid placing the microscope in dusty surroundings or in high temperature or humid areas as mold and mildew will form. Carefully remove the microscope from the Styrofoam container by its arm and base and place the microscope on a flat, vibration-free surface.

## **Operation Notice**

1. As the microscope is a high precision instrument, always operate it with care, and avoid physical vibrations.
2. Do not expose the microscope in the sun directly, either not in the high temperature, damp, dust or acute shake. Make sure the worktable is flat and horizontal.
3. When moving the microscope, keep holding the rear cover hand clasp① and the front end of microscope body ② with each hand. Handle with care. (See Fig. 1) It will damage the microscope by holding the stage, focusing knob or head when moving
4. Connect the microscope to the ground to avoid lightning strike.
5. For safety, make sure the power knob① is rotated counterclockwise to the minimum before replacing the bulb, and wait until the bulb and base cool down completely (see Fig. 2). Bulb selected only: single 5050 LED
6. Wide voltage range is supported as 100~240V. Additional transformer is not necessary. Make sure the power supply voltage is in this range.
7. Use only the power cord supplied by ACCU-SCOPE.

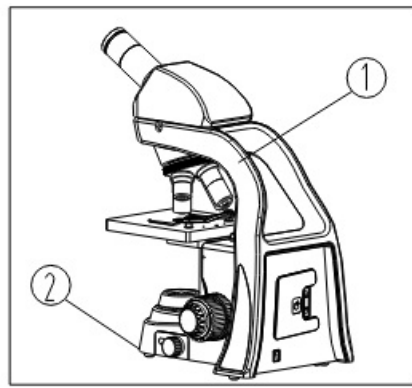


Fig. 1

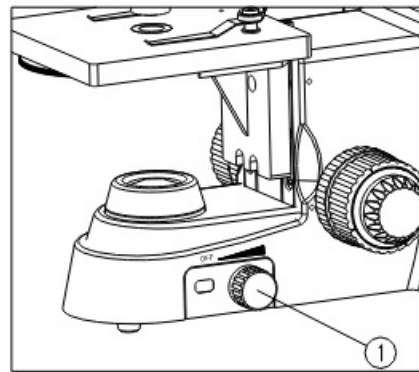
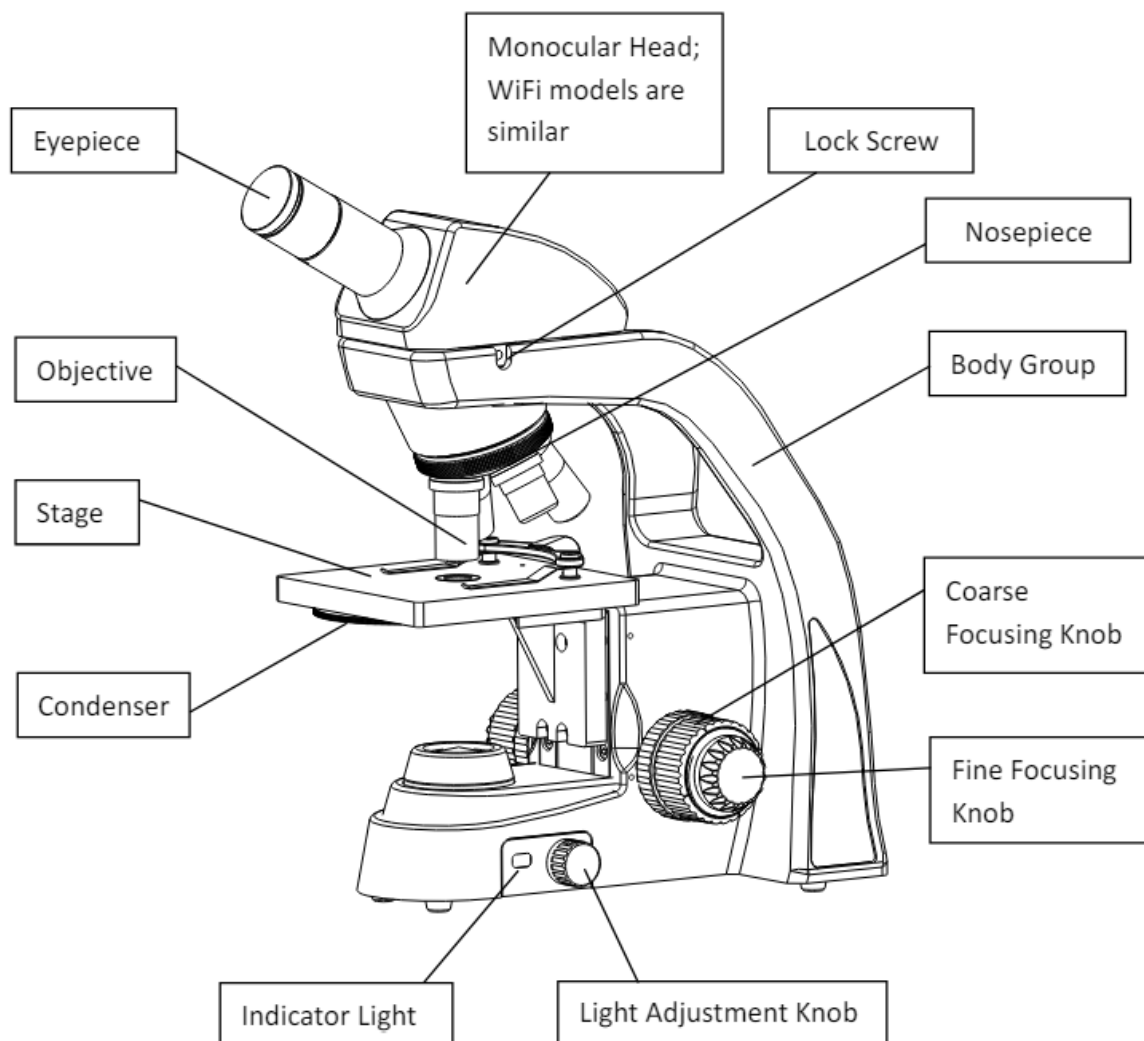
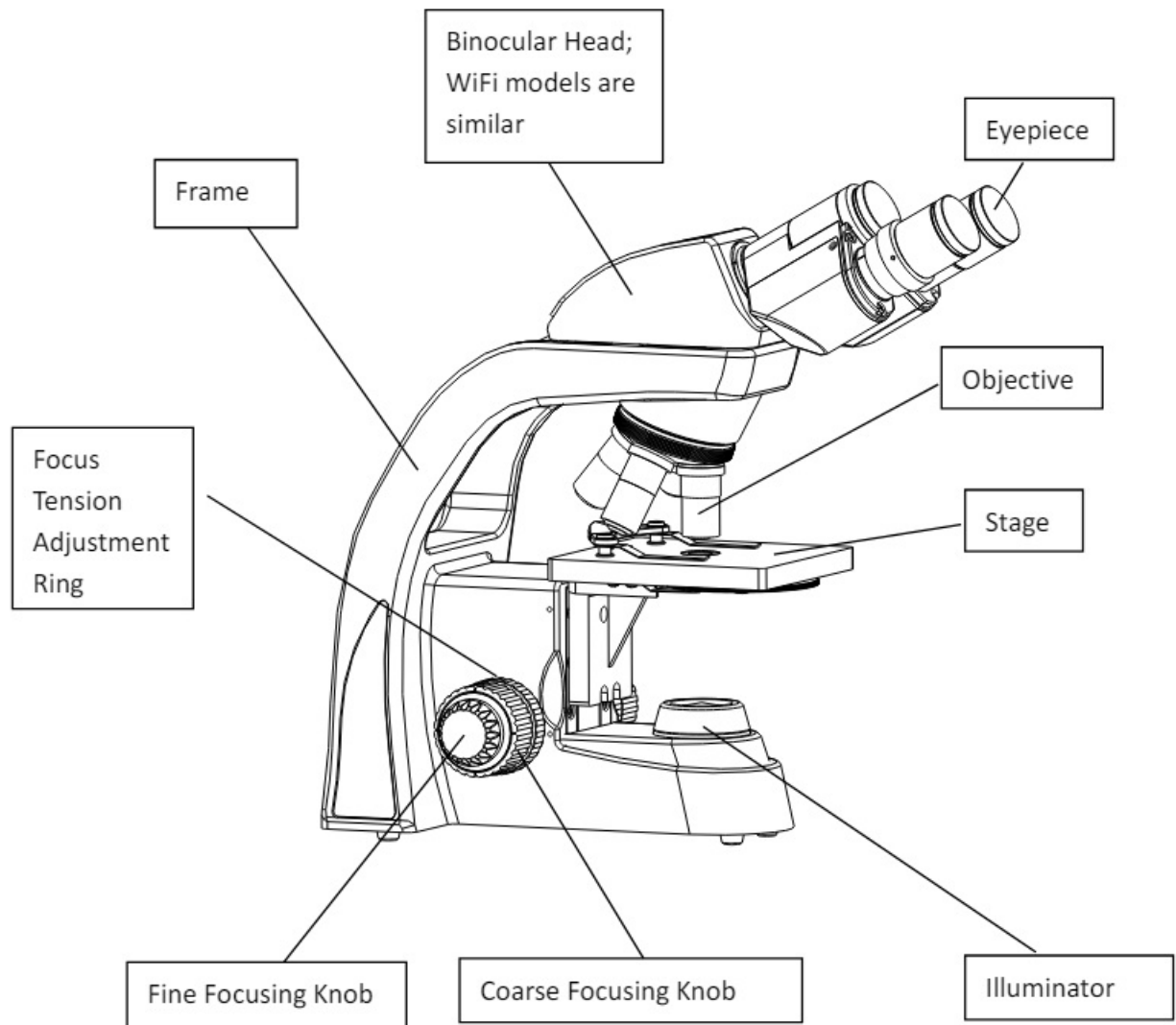
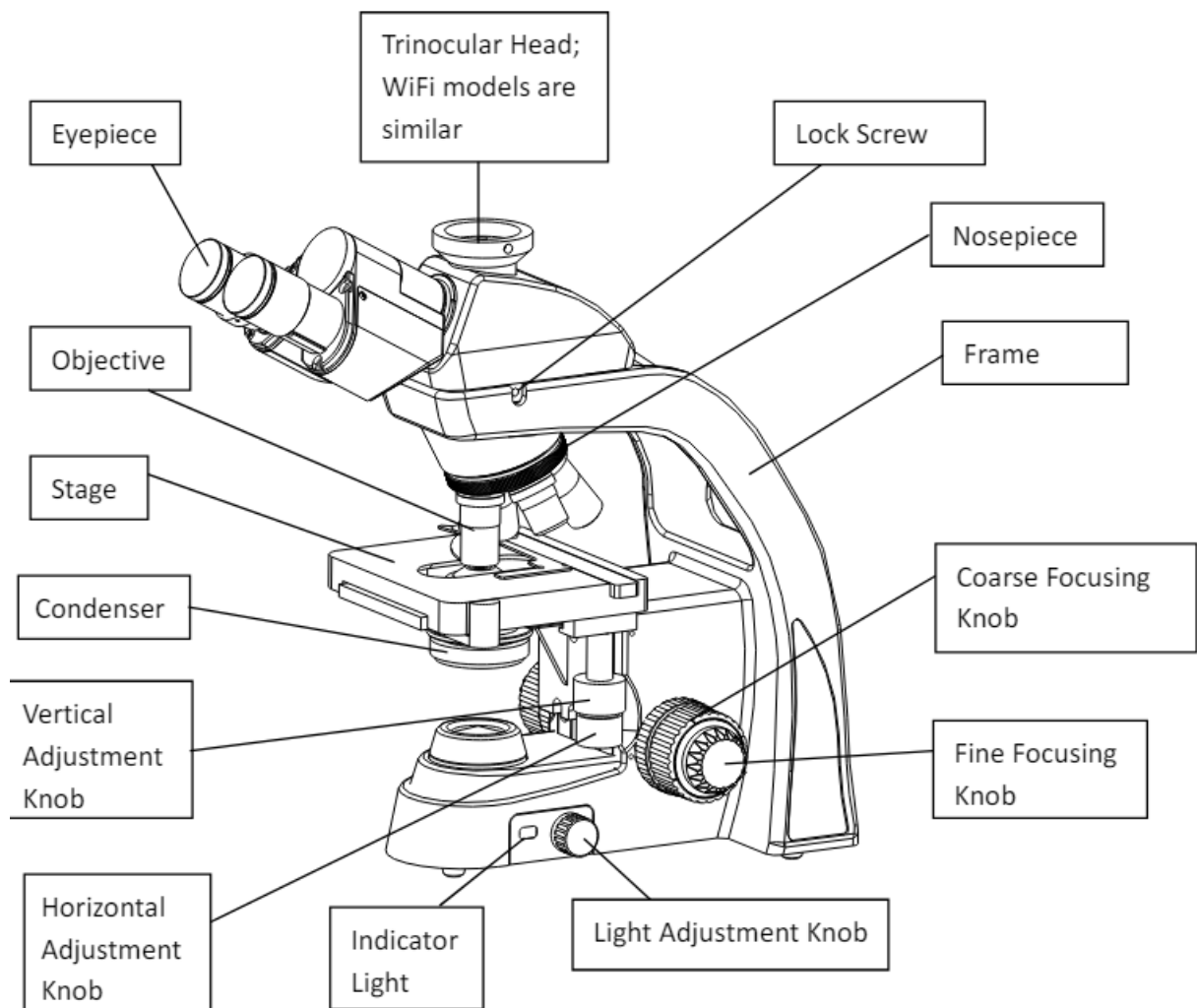


Fig. 2

## COMPONENTS DIAGRAM



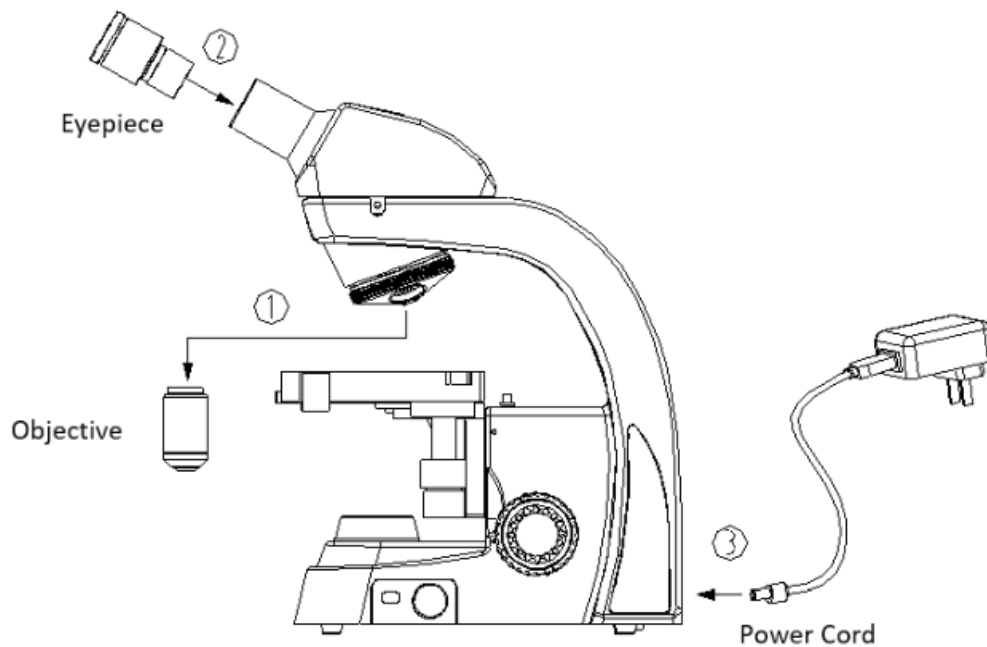




## ASSEMBLY DIAGRAM

The diagram below shows how to assemble the various modules. The numbers indicate the order of assembly. Your microscope was preassembled by our factory technicians at our New York facility prior to shipment. Should you need to disassemble/assemble your microscope in the future, please follow the instructions outlined below. When assembling the microscope, make sure that all parts are free of dust and dirt, and avoid scratching any parts or touching glass surfaces.

Before assembling, make sure there is no dust, dirt or other materials which will disturb it. Assemble carefully and do not scrap any part or touch the glass surface.



## DETAILED ASSEMBLY

### Installing the Objectives

1. Rotate the coarse focusing knob① to lower the stage to a suitable position (see Fig.3).
2. Install the objectives into the nosepiece② from the lowest magnification to the highest in clockwise direction.
  - When operating, first use the low magnification objective (4X or 10X) to search for specimen and focus, and then rotate in the high magnification objective to observe.
  - When replacing the objective, rotate the objective nosepiece until it sounds “ka-da”, to make sure the desired objective is in the center of optical path.

### Installing the Eyepiece(s)

1. Remove the cover from the eyepiece tube①.
2. Insert the eyepiece② into the eyepiece tube, until it is completely inserted.
3. Tighten eyepiece with M2.5 inner hexagon lock-screw③ (see Fig.4).



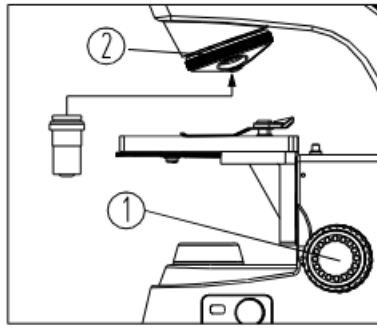


Fig. 3

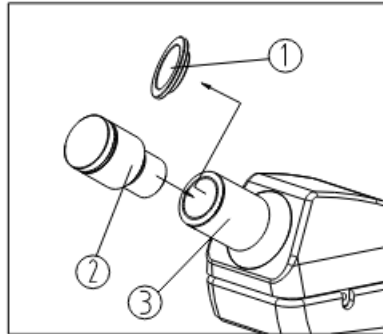


Fig. 4

### Connecting the Power Cord

To avoid damage to the power cord, to not use strong force when the power cord is bent or twisted.

1. Make sure the light adjustment knob is at "O"(OFF) before connecting the power cord.
2. Fully insert the connector① of power cord into the power socket②, and make sure it connects well (see Fig.5).
3. Fully insert the other connector into the socket of power supply, and make sure it connects well.

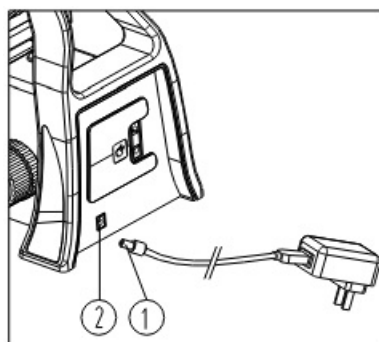


Fig. 5

### Rechargeable Batteries

**NOTE:** Not available with models having built-in WiFi/digital cameras. There are rechargeable batteries at the bottom of the microscope. Open the battery box to replace the battery see Fig.6 .

- Use the power cord provided with your microscope by ACCU-SCOPE. If it is lost or damaged, a replacement can be purchased from ACCU-SCOPE. Always choose a power cord with the same specifications as the original.
- The wide voltage range is supported from 100~240V.

- Connect the power cord appropriately to make sure the instrument is connected to ground.

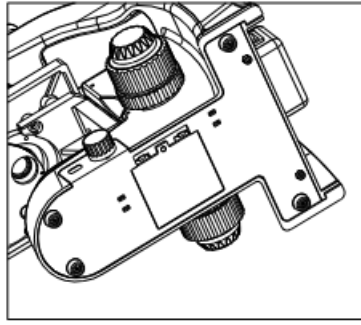


Fig. 6

## ADJUSTMENT & OPERATION

### Illumination & Charging the Batteries

1. Turn on the power by rotating the light adjustment knob① and adjust light intensity by rotating the knob until the illumination is comfortable for observation. Rotate the light adjustment knob in clockwise direction to raise the voltage and brightness. Rotate the light adjustment knob in a counterclockwise direction to lower the voltage and brightness (see Fig.7).
2. Indicator light is light green when batteries are fully charged, orange light when the batteries are charging. When the batteries are fully charged and the microscope is plugged in, the green LED may turn off and the microscope will operate as usual. When the illumination begins to dim, it is time to recharge the batteries. Plug the microscope into an appropriate power receptacle to begin the charging process.

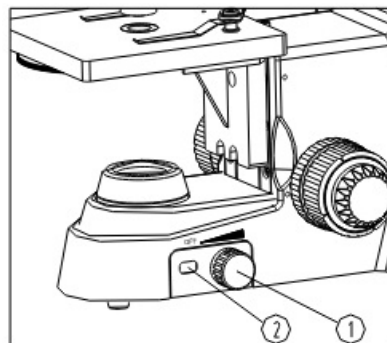


Fig. 7

### Placing a Specimen

Place the slide on the stage with the cover glass of slide② facing upwards and move the specimen to the center (aligned with the center of objective). Hold the slide in place using the slide-holder① (see Fig.8).

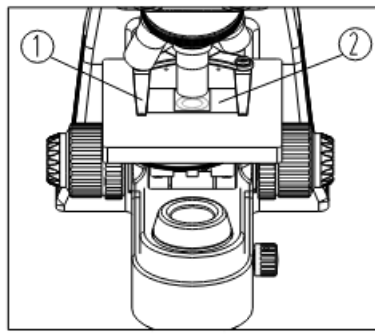


Fig. 8

## Adjusting Focus

Start with low magnification.

1. Move the 4x objective into the optical path.
2. Observe with your left eye and the left eyepiece (binocular and trinocular heads only). Rotate the coarse focusing knob① until the specimen outline appears in the view field (see Fig. 9).
3. Rotate the fine focusing knob③ until clear details are observed.
4. Rotate a higher power objective into the light path. While observing with your left eye, focus again using the coarse and then fine focus knobs.
5. With your right eye and without changing the coarse or fine focus knobs, adjust the diopter (eyepiece focus ring) – located just below the right eyepiece – until the image seen in the right eyepiece matches the left eyepiece.

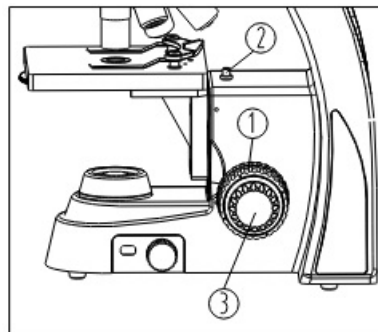


Fig. 9

The focus travel locking screw② sets the maximum height that the stage can move when focusing, thereby avoiding high magnification objectives from touching the slide (prevents slide breakage and damage to objectives). The maximum stage height is preset at the factory. Fig. 10

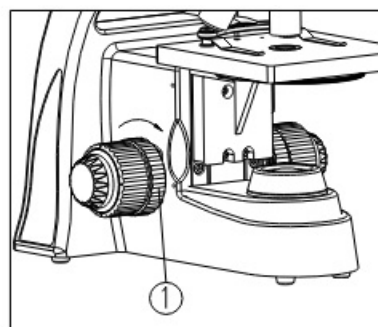


Fig. 10

## Adjusting Focus Tension

- If the coarse focus knobs turn with difficulty when focusing, the specimen falls out of focus, or the stage drifts down by itself, the focus tension must be adjusted (see Fig. 10).
- To increase focus tension, rotate the tension adjustment ring① according to the arrowhead pointed (top rotating toward the operator; rotate in the reverse direction to loosen the focus tension (i.e., make it easier to turn the coarse focus knob).
- Note that the fine focus tension is not affected by the focus tension adjustment ring.

### Adjusting the Condenser (Aperture Diaphragm)

1. The aperture diaphragm determines the Numerical Aperture (N.A.) of the illumination system. When the N.A. of the illumination system matches the N.A. of the objective, resolution and contrast are optimized. The aperture diaphragm can also increase the depth of field by closing it down from the optimal position (resolution is sacrificed by doing this).
2. Turn the silver, knurled condenser ring right or left to change the height of the condenser and the N.A. of the illumination system (see Fig. 11). The condenser should be in its highest position during operation.
3. Move the aperture diaphragm lever to the value that is close to the magnification of the objective (e.g., 10 for the 10x objective). Repeat for each time a different objective is rotated into the light path.

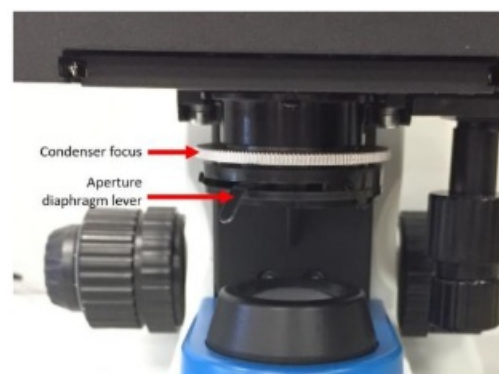


Fig. 11

### Using the 100x Oil Immersion Objective

1. Use the 4X objective to focus the specimen.
2. Place a drop of oil① on the specimen observed (see Fig. 12)
3. Rotate the nosepiece counterclockwise and rotate the oil objective (100X) into the light path. Then use the fine focusing knob to focus.

Make sure there is no air bubble in the oil.

1. Move the eyepiece to examine the air bubble. Open the aperture diaphragm and field diaphragm fully and observe the edge of the objective from the tube (It seems round and bright).
2. Rotate nosepiece slightly and swing the oil objective for some times to remove the air bubble.
4. After use, wipe the front lens of the objective with a tissue moistened with a small amount of 3:7 mixture of alcohol and ether or with dimethylbenzene. Wipe off the oil on the specimen (cover glass).
  - DO NOT change objectives in the light path before the oil is wiped off from the slide to avoid getting oil on a non-oil objective and causing damage to it.
  - Be careful not to use too much solvent to clean the lens as this may also damage the lens in the long

term.

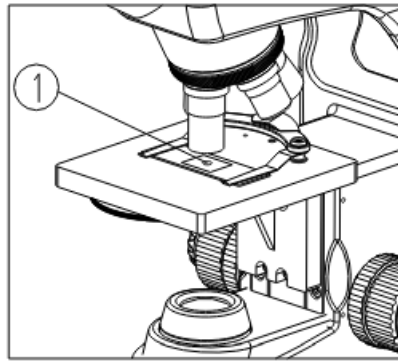


Fig. 12

### Using Binocular and Trinocular Heads

#### Adjusting Interpupillary Distance

1. When observing with two eyes, hold the base of the eyetubes and rotate them around the axis until there is only one field of view. “ ”mark ① on the eyetube base points to the scale② of interpupillary indication, means the value of interpupillary distance (see Fig. 13). The adjustable range is 50~75mm.

Remember your interpupillary distance for fast setting in future operation. Your interpupillary distance can be used with other microscopes, too.

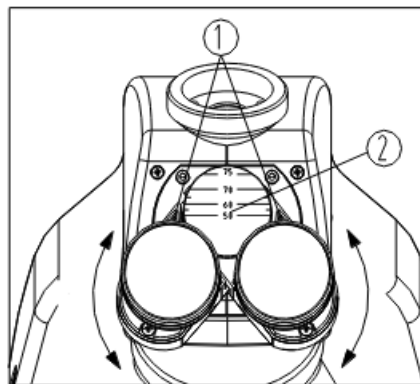


Fig. 13

#### Assembling and Using the Trinocular Port and Camera (trinocular model only)

1. Loosen the lock screw① of trinocular head and remove the dustcover② (See Fig. 14).
2. Remove the dustcovers from the camera adapter assembly③. Thread the top of the camera adapter into the C-mount of the camera. Place the assembly into the trinocular head (flange side towards microscope; camera end points up) as shown in the figure and screw down the lock screw①
3. For binocular observation, focus through the eyepieces until the image is sharp. Observe the image from the camera. If the image is out of focus, rotate the focus ring on the camera adapter③ to adjust the focus in the camera image until it is sharp.
4. If the image from the camera is rotated compared to the eyepieces, loosen the lock screw④ and rotate the camera until the images have the same alignment. Retighten the lock screw.

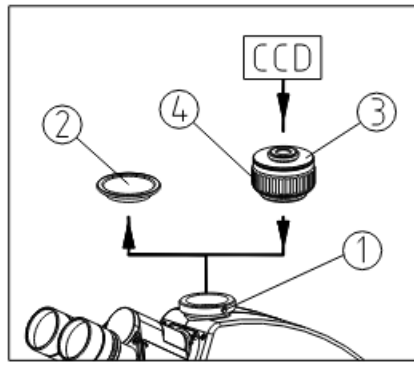


Fig. 14

### Using Mechanical Stage

#### Place the Specimen Slide

1. Push the lever① of the specimen holder backwards.
2. Place the slide on the stage with the cover glass② facing upwards. Gently release the lever① and allow the clip to slowly close onto the slide and clamp the slide firmly(see Fig.15).  
Do not let go of the lever as the clamp will close too fast. This may result in slide breakage and flying glass pieces.
3. Rotate the X and Y-axis knob③ of the stage, and move the specimen to the center (aligned with the center of objective).

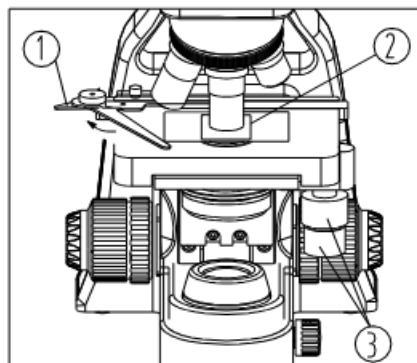


Fig. 15

### Adjusting the Condenser

1. Specimens are typically viewed with the condenser in its highest position. We recommend that, while viewing a specimen through the eyepieces, adjust the height of the condenser until the specimen appears sharp with good resolution (distinct features). You may find that the image is better when the condenser is in a lower position.

#### Installing a Filter

2. Before installing the filter, rotate the condenser to the bottom and then open the filter holder. Place the filter with the rough side downward.

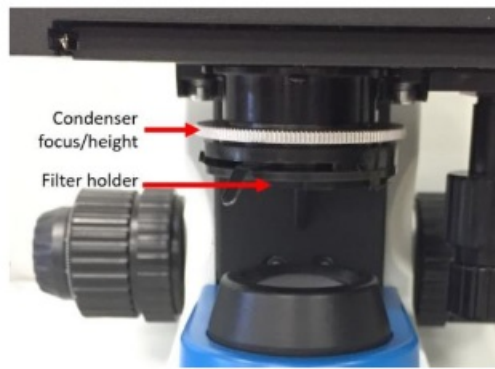


Fig. 16

### Using the Darkfield Annulus (optional)

1. If ordered with the microscope, the darkfield annulus ("darkfield stop") was installed in our facility prior to shipping.
2. To view specimens using the darkfield stop, rotate the darkfield stop into the closed position (into the light path and completely under the condenser).
3. Raise the condenser to its highest point.
4. While viewing a specimen, adjust the iris diaphragm open or closed to optimize the image. The specimen should appear mostly white on a dark background. You may need to adjust the condenser height to get optimal contrast.
5. To view the specimen in brightfield mode, rotate the darkfield stop into the open position (swing or pivot the stop outward and away from the condenser)

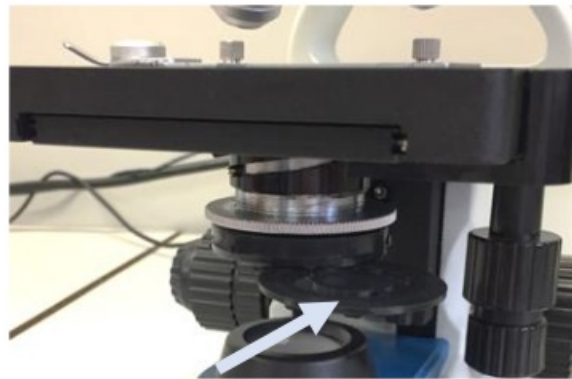


Darkfield stop in closed position



Condenser in lower position

**NOTE:** To move the darkfield annulus in or out of the light path, you may need to lower the condenser. To lower the condenser, grasp the metal ring ① on the condenser and rotate counterclockwise (to the left). After changing the position of the darkfield annulus, raise the condenser back to the upper limit just below the stage.



Darkfield annulus in open position

### Storing the Power Cord

When the microscope is not in use, the power cord can be wrapped around the cord wrap on the back of the microscope, and the power charger can be plugged into the socket on the back of the microscope to avoid being lost. (See Fig. 17)

- Do not use strong force when the power cord is bent or twisted, otherwise it will be damaged.
- Use the power cord provided with your microscope by ACCU-SCOPE. If it is lost or damaged, a replacement can be purchased from ACCU-SCOPE. Always choose a power cord with the same specifications as the original.

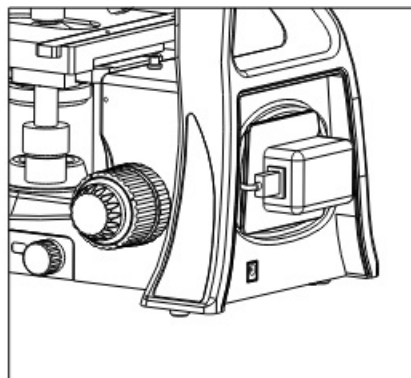


Fig. 17

### Using the WiFi Digital Viewing Head (models

#### EXC-100-WB and EXC-101-W3 only)

1. Plug one end of the power cord① into the power socket ② on the observation head and the other end into the power socket③ on the back of the microscope, making sure to make a good connection.
2. Adjust the microscope, use binocular or monocular observation and connect to the microscope hotspot wirelessly via Wi-Fi to activate the professional software to obtain the image once the image is clear (See Fig. 18). Using the tablet holder (optional)
3. Loosen the locking screw④ on the wireless digital observation tube and remove the dust cover②. Be sure to loosen locking screw on each side.



4. Insert the flat plate clamp sleeve into the interface according to the diagram and tighten the locking screw①. Be sure to tighten the locking screw on each side or the tablet may fall.
5. Adjust the tablet angle by rotating the flat plate clamp to get the most comfortable observation position (See Fig. 19).

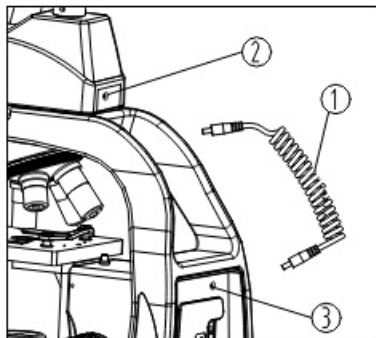


Fig.18

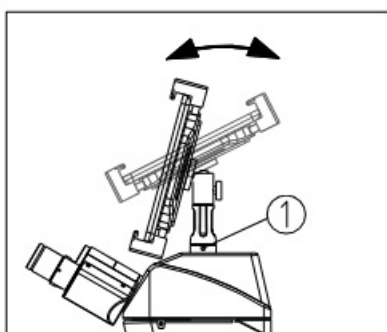


Fig. 19

For MicroSNAP app operating instructions (Android, iOS and Windows), please visit the Manuals section of <https://accu-scope.com/>.

## TROUBLESHOOTING

Under certain conditions, performance of this unit may be adversely affected by factors other than defects. If a problem occurs, please review the following list and take remedial action as needed. If you cannot solve the problem after checking the entire list, please contact your local dealer for assistance.

### OPTICAL

Problem	Cause	Corrective Measure
Darkness at the periphery or uneven brightness of view field	Revolving nosepiece not in click stop position	Revolve the nosepiece to click stop position by swinging the objective correctly into the optical path
Dirt or dust on the view field	Dirt or dust on the lens – eyepiece, condenser, objective, collector lens or specimen	Clean the lens
Poor image quality	No cover glass attached to the slide Cover glass is too thick or thin	Attach a 0.17mm cover glass  Use a cover glass of the appropriate thickness (0.17mm)
	Slide maybe upside down	Turn slide over so the cover glass faces up
	Immersion oil is on a dry objective (especially the 40xR)	Check the objectives, clean if necessary
	No immersion oil used with 100xR objective	Use immersion oil
	Air bubbles in immersion oil	Remove bubbles Open or close properly
	Condenser aperture is closed or open too much	
	Condenser is positioned too low	Position the condenser slightly lower than the upper limit

## IMAGE PROBLEMS

Problem	Cause	Corrective Measures
Image moves while focusing	Specimen rises from stage surface  Revolving nosepiece is not in the click-stop position	Secure the specimen in the slide holder  Revolve the nosepiece to the click-stop position
Image is too bright	Lamp intensity is too high	Adjust the light intensity by rotating the intensity control dial and/or iris diaphragm
Insufficient brightness	Lamp intensity is too low   Aperture diaphragm closed too far   Condenser position too low	Adjust the light intensity by rotating the intensity control dial and/or iris diaphragm  Open to the proper setting  Position the condenser slightly lower than the upper limit

## MECHANICAL PROBLEMS

Image will not focus with high power objectives	Slide upside down  Cover glass is too thick	Turn the slide over so the cover glass faces up  Use a 0.17mm cover glass
High power objective contacts slide when changed from low power objective	Slide upside down  Cover glass is too thick  Diopter adjustment is not set properly  Focus travel set too high	Turn the slide over so the cover glass faces up  Use a 0.17mm cover glass  Readjust the diopter settings as outlined in section 4.3  Set the focus travel lower

Lamp does not light when switched on	No electrical power	Check power cord connection
	Lamp bulb burnt out Fuse blown out	Replace bulb Replace fuse
Slippage of focus when using the coarse focusing knob	Tension adjustment is set too low	Increase the tension on the focusing knobs
Stage drifts down by itself, cannot stay on the focal plane during observing	Focus tension knob is too loose	Tighten the focus tension
Coarse focusing knob is too tight.	Focus tension is too tight.	Loosen the focus tension until the coarse focusing knob turns comfortably
Coarse focusing knob can't rise.	The focus travel limit is reached.	Adjust the focus travel limit position.
	The focus limit stop knob is locked.	Loosen the knob.
Coarse focusing knob won't lower the stage.	The base of the condenser is too low.	Raise the condenser base.
Slide does not move smoothly.	The slide is not placed correctly.	Place the slide in the holder correctly.
	The movable specimen holder is not mounted properly.	Mount the specimen holder correctly.
Fine focus is ineffective	Tension adjustment is set too high	Loosen the tension on the focusing knobs
The image moves obviously when touching the stage.	The stage is fastened incorrectly.	Fasten the stage correctly.

## ELECTRICAL PROBLEMS

Problem	Cause	Corrective Measures
The LED light does not work.	No power to the microscope.	Check the connection of the power cord.
	The LED bulb is not installed correctly.	Install the LED correctly.

	The LED bulb is burned out.	Replace with a new LED.
The LED bulb burns out often.	The wrong LED bulb is used.	Replace LED with a correct one.
The illumination is not bright enough.	The wrong LED bulb is used.	Replace the LED with a correct one.
	The light adjustment knob is set too low.  The light adjustment knob is not working correctly.	Adjust the light intensity correctly.  Replace light adjustment knob assembly (rheostat).
Side indicator light is red.	Rechargeable batteries are low on power.	Plug microscope into electrical receptacle to recharge the batteries.  Replace the batteries.

## MAINTENANCE

Please remember to never leave the microscope with any of the objectives or eyepieces removed and always protect the microscope with the dust cover when not in use.

## SERVICE

1. ACCU-SCOPE® microscopes are precision instruments that require periodic servicing to keep them performing properly and to compensate for normal wear. A regular schedule of preventative maintenance by qualified personnel is highly recommended. Your authorized ACCU-SCOPE distributor can arrange for this service. Should unexpected problems be experienced with your instrument, proceed as follows:

2. Contact the ACCU-SCOPE distributor from whom you purchased the microscope. Some problems can be resolved simply over the telephone.

If it is determined that the microscope should be returned to your ACCU-SCOPE distributor or to ACCU-SCOPE for warranty repair, pack the instrument in its original Styrofoam shipping carton. If you no longer have this carton, pack the microscope in a crush-resistant carton with a minimum of three inches of shock-absorbing material surrounding it to prevent in-transit damage. The microscope should be wrapped in a plastic bag to prevent Styrofoam dust from damaging the microscope. Always ship the microscope in an upright position; NEVER SHIP A MICROSCOPE ON ITS SIDE. The microscope or component should be shipped prepaid and insured.

## 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 ACCU-SCOPE 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 ACCU-SCOPE at [631-864-1000](tel: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

- 73 Mall Drive, Commack, NY 11725
- [631-864-1000](tel:631-864-1000)
- [www.accu-scope.com](http://www.accu-scope.com)

## FAQ

### **Q: Can I disassemble the eyepieces or objectives for cleaning?**

A: No, it is not recommended to disassemble any component of the microscope. Contact customer support for assistance with cleaning.

### **Q: What should I do if liquids spill onto the microscope?**

A: Immediately disconnect the power cord and clean up the spillage to prevent damage. Ensure all components are dry before use.

## Documents / Resources



## [ACCU SCOPE EXC-100 Compound Microscope](#) [pdf] Instruction Manual EXC-100 Compound Microscope, EXC-100, Compound Microscope, Microscope

### References

- [Accu-Scope](#)
- [Accu-Scope](#)
- [User Manual](#)

#### [Manuals+](#), [Privacy Policy](#)

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