



**ACCU-SCOPE®**

# MANUAL

## **DS-360** **DIASCOPIIC STAND**

(CAT# 131-13-28)



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## INTRODUCTION

Congratulations on the purchase of your new ACCU-SCOPE® DS-360 LED diascopic stand for stereo microscopy. ACCU-SCOPE products are engineered and manufactured to the highest quality standards. Your microscope and stand will last a lifetime if used and maintained properly. ACCU-SCOPE products are carefully assembled, inspected and tested by our staff of trained technicians in our New York distribution facility. Careful quality control procedures ensure each microscope is of the highest quality prior to shipment.

## UNPACKING AND COMPONENTS

Your DS-360 stand arrived packed in an environmentally friendly shipping carton. **Do not discard the carton:** the shipping carton should be retained for reshipment of your stand if needed. Avoid placing the stand (with or without microscope) in dusty surroundings or in high temperature or humid areas as mold and mildew can form. Carefully remove the stand from the shipping carton and place the stand on a flat, vibration-free surface.



## ASSEMBLY



**NOTE:** Allow your stereo microscope and stand to come to room temperature before use. Cold components may result in internal condensation and potential failure of electrical components.

1. Carefully remove the contents of the box and place on a secure, flat surface.
2. Place the DS-360 stand on a flat surface

**Included:**

DS-360 stand with attached focus track and microscope mount, plastic arm rest, 180mm glass stage plate, LED light, power adapter/controller, AC line cord.



3. Place the glass stage plate into position on the base.



4. Align the slots in the arm rest to the silver "buttons" on the base and slide the arm rest down over the buttons until the top of the arm rest is flush with the working surface of the base.



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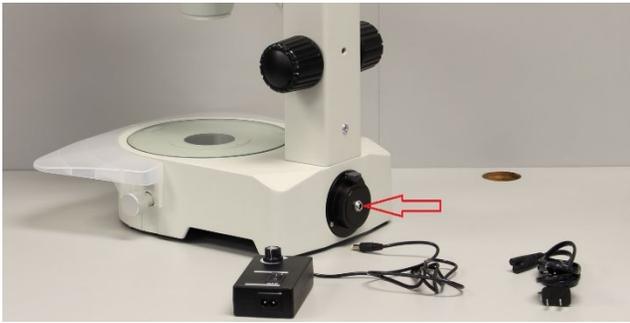


5. Insert the LED light into the back of the stand. The thumb screw may need to be loosened to insert the LED light completely. Tighten the thumb screw until snug, but do not overtighten.

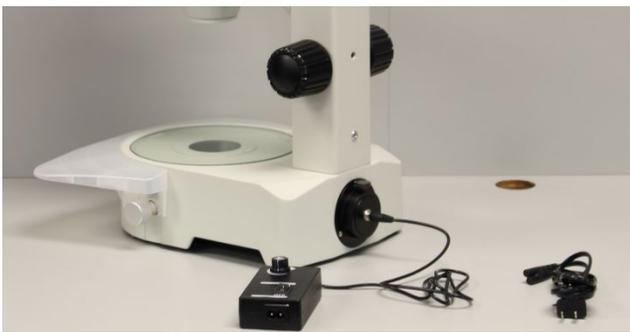


6. Loosen the locking screw in the microscope mount and place your stereo microscope into the circular mount. Tighten the locking screw until snug, but do not overtighten.

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7. Plug the adapter/controller into the back of the LED light.

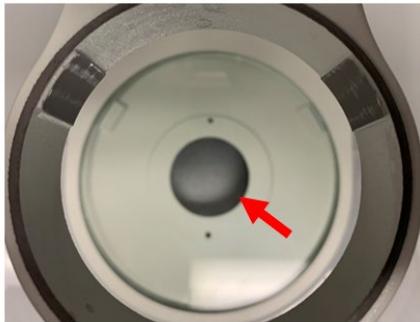


8. Plug the AC line cord into the adapter/controller. Plug the other end into a suitable 110V AC receptacle.

## OPERATION

**NOTE:** For stereo microscope assembly and operation, please refer to the manual that accompanied your stereo microscope.

1. Place a specimen on the center of the stage plate.
2. Turn on the power switch, and then adjust intensity by turning the knob on the control box.
3. Ensure the eyepiece diopters are set properly (according to the instructions that accompanied your stereo microscope).
4. Adjust the tension of the focus knobs if necessary. To adjust tension, grasp both focus knobs and rotate in opposite directions until the desired tension is reached. Turning the right focus knob clockwise and the left focus knob counterclockwise will increase tension.
5. Adjust the mirror for specimen viewing. The DS-360 is equipped with a two-sided mirror – one side is a polished mirror and the other side has a silver metallic (frosted) surface. While looking through the eyepieces and with the specimen in focus, slowly adjust the mirror angle using the mirror adjustment knob on the right side of the base. Try both sides of the mirror and choose the view and contrast that is most suitable for your sample. You may need to adjust the mirror angle if you change magnification or zoom on your microscope.



Silver metallic side (frosted)



Polished mirror side

## 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.

<b>Trouble</b>	<b>Cause</b>	<b>Remedy</b>
Dirt appears in the view field	Dirt on the specimen Dirt on the stage plate Dirt on the eyepieces	Clean the specimen vessel Clean the glass stage plate Clean the eyepieces
The focusing knob is not smooth	The focusing knob is too tight	Loosen it to a suitable position
The image drifts out of focus during observation	The focusing knob is too loose	Tighten it to a suitable position
The image appears very dark, very bright, or the specimen cannot be seen	The rotating mirror is out of position The LED light is not turned on The LED light is too dim	Rotate the mirror to cast more or less light on the specimen Turn on the LED light Adjust the LED light intensity
Lamp does not work	Power cords are not secure LED has burned out AC adapter has failed	Ensure the cords are inserted completely Change the LED lamp Replace the AC adapter

## MAINTENANCE AND CARE

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

ACCU-SCOPE® microscopes are precision instruments which 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:

1. Contact the ACCU-SCOPE distributor from whom you purchased the microscope. Some problems can be resolved simply over the telephone.
2. 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 a 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.
- 3.

### **LIMITED MICROSCOPE WARRANTY**

This microscope stand 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 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.

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