



3050 STEREO MICROSCOPE SERIES  
INSTRUCTIONS

ACCU-SCOPE INC.  
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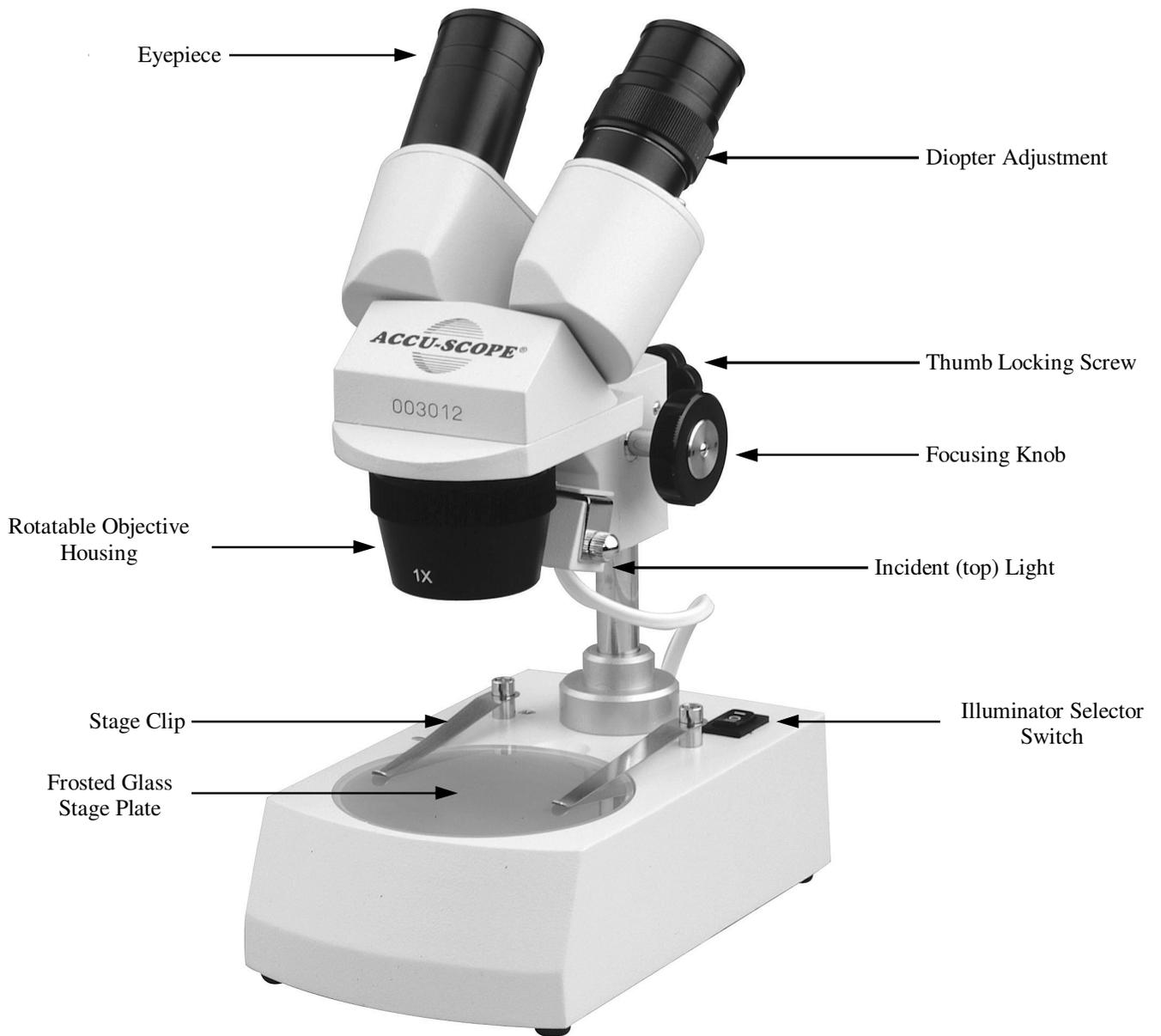
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### 3050 Stereo Microscope Series

## 1.0 INTRODUCTION

Congratulations on the purchase of your new ACCU-SCOPE Stereomicroscope. ACCU-SCOPE'S 3050 Stereomicroscope series incorporates the highest quality optical elements to produce high resolution, three-dimensional images at all magnifications. Versatile, multi-functional and built to withstand years of heavy use, the 3050 Stereomicroscope series is ideal for electronics, industry, research, life science and educational applications.

## 2.0 IMPORTANT FEATURES

ACCU-SCOPE'S Stereomicroscopes have fixed magnification systems. Total magnification power is the product of objective magnification multiplied by the eyepiece magnification:

Catalog #	Eyepieces	x	Objective	=	Total Magnification
3050	10x		1x/2x		10x/20x
3051	10x		2x/4x		20x/40x
3052	10x		1x/3x		10x/30x
3053	10x		1x/4x		10x/40x

Inclined eyepiece tubes allow for interpupillary distance of 55mm to 75mm and diopter adjustment of  $\pm 5$ . Working distance is 57mm. ACCU-SCOPE'S Stereomicroscopes feature a two-way illumination system which may be used to provide transmitted light or reflected light. Your Stereomicroscope comes completely assembled and ready for use. Simply follow the step-by step operating procedure outlined in section 5.0 for years of use from your stereomicroscope.

## 3.0 MAGNIFICATION SYSTEM

Each microscope in the 3050 Stereomicroscope series has two objectives. The rotatable turret housing the two objectives allows the user to easily change magnifications while the specimen remains in focus. Additional magnification ranges can be obtained through the use of different eyepieces. Information, product availability and pricing information is available from your authorized ACCU-SCOPE distributor.

## 4.0 ILLUMINATION SYSTEM

The 3050 Stereomicroscope series is equipped with a built-in, two way illuminator system. The convenient on/off switch is located on the base of the instrument and controls both the incident and transmitted illumination. The illumination system consists of a 12v 10w bulb from above and below.

## 5.0 OPERATING INSTRUCTIONS

Follow these simple instructions to begin using your Stereomicroscope:

1. Your stereomicroscope should always be used on a hard, flat and stable surface.
2. Plug the stereomicroscope power cord into a grounded electrical outlet. A grounded 3-wire line cord is provided.
3. Select the appropriate light switch for the specimen. There are two types of illumination:
  - Incident Light (top) - to view opaque specimens.
  - Transmitted Light (bottom) - to observe translucent specimens.
4. Place a specimen on the stage plate area directly below the center of the stereomicroscope body. While looking through the eyepieces with both eyes, slowly adjust the distance between the eyepiece tubes until you see a complete circle of light at the same time without moving your head. The eyepiece tubes are inclined at 45 degrees to maximize your viewing comfort.
5. Focus the stereomicroscope at the highest power by turning the objective turret to the highest magnification power and then use the large focusing knob to bring the specimen into focus. Rotate the turret to the lower power, making focal corrections by rotating the diopter collar off of the zero setting for proper focus. This will keep the specimen in close focus at any magnification. A slight turn of the focus knob may be needed to sharpen the focus.

## **6.0 CLEANING THE OPTICS**

Do not attempt to disassemble the inclined binocular body or focusing mechanisms. These have been aligned and sealed for protection against dust, dirt, or other particles by our factory technicians. Only exposed surfaces should require cleaning. To clean the Stereomicroscope:

1. Blow dust particles from the lens surface with an ear syringe.
2. Using a lens cleaning solution (available from most camera stores) moisten a cotton swab, cover the swab with lens paper and carefully clean the lenses and eyepieces. This method may also be used to remove oily smears and fingerprints, which detract from the image quality. Glass surfaces should be cleaned very carefully and only when necessary. Use a circular motion when cleaning glass surfaces.

## **7.0 LAMP REPLACEMENT**

If lamp replacement is necessary, follow these simple instructions:

**CAUTION!!! Do not attempt to change the lamp before allowing it to completely cool and the power cord is unplugged.**

### **7.1 TRANSMITTED (BOTTOM) ILLUMINATION**

1. Unplug the electrical cord.
2. Carefully lay the instrument on its back and unscrew the base assembly
3. Remove the old lamp, and insert the new lamp being careful to avoid leaving fingerprints on the lamp surface.
4. Reattach the base assembly. Do not operate the microscope unless the base is securely attached.

### **7.2 INCIDENT (TOP) ILLUMINATION**

1. Unplug the electrical cord.
2. Raise the body to the highest position by turning the focusing knob.
3. Unscrew the two side thumbscrews holding the illuminator housing in place.
4. Remove the bulb socket from the lamp socket in the lamp housing with a small Phillips screwdriver.
5. Detach the bulb and replace it with a new bulb. Leave the new bulb in its envelope while placing it in the socket to avoid leaving fingerprints on the bulb.
6. Reinstall the socket into the lamp housing. Reinsert the lamp housing and secure with the two thumb screws

Replacement bulb: Catalog No. 3367

## **LIMITED MICROSCOPE WARRANTY**

ACCU-SCOPE Microscopes are carefully assembled, inspected and tested by ACCU-SCOPE personnel in our New York facility. Careful quality control procedures ensure each microscope is of the highest quality prior to shipment. This microscope is 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. This warranty does not cover damage caused in-transit, damage caused by misuse, neglect, abuse, or damage resulting from either 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. 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 Products under warranty or the need to repair, work processes. 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. Charges for repairs shipped back outside this region are the responsibility of the individual/company returning the merchandise for repair.

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