



## 3055 STEREO MICROSCOPE SERIES INSTRUCTIONS

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Distributed By:

**NEW YORK MICROSCOPE COMPANY INC.**  
AKA **MEL SOBEL MICROSCOPES**

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## 3055 Stereo Microscope Series

## 1.0 INTRODUCTION

Congratulations on the purchase of your new ACCU-SCOPE Stereomicroscope. ACCU-SCOPE'S 3055 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 3055 Stereomicroscope series is ideal for electronics, industry, research, life science and educational applications.

## 2.0 IMPORTANT FEATURES

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

Microscope	Eyepieces	x	Objective	=	Total Magnification
3055	10x		1x/2x		10x/20x
3056	10x		2x/4x		20x/40x
3057	10x		1x/3x		10x/30x

Inclined eyepiece tubes allow for interpupillary distance of 55mm to 75mm and diopter adjustment of  $\pm 5$ . Working distance is 76mm. ACCU-SCOPE'S Stereo microscopes feature a three-way illumination system, which may be used to provide transmitted light, reflected light or a combination of both. Your Stereo microscope comes completely assembled and ready to 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 3055 microscope series has two objectives. The objectives may be changed by rotating the objective turret around the finger grips. Additional magnification ranges can be obtained through the use of 15x or 20x eyepieces. Information, product availability and pricing information is available from your authorized ACCU-SCOPE distributor.

## 4.0 ILLUMINATION SYSTEM

The 3055 Stereo microscope series is equipped with a built-in, three-way illuminator system. The illumination system consists of a 12 volt 10 watt halogen bulb for incident light from above and a variable 12 volt 10 watt halogen bulb transmitted light from below. The intensity of either illuminator may be varied by rotating the intensity dial located on the side of the base.

## 5.0 OPERATING INSTRUCTIONS

Follow these simple instructions to begin using your stereo microscope:

1. Your stereomicroscope should always be used on a hard, flat and stable surface.
2. Plug the detachable grounded 3-wire line cord into the microscope. Next plug the line 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 three types of illumination:
  - Incident Light (top) - to view opaque specimens.
  - Transmitted Light (bottom) - to observe translucent specimens.
  - Incident & Transmitted- to develop contrasting conditions on any variety of specimens.
4. Place a specimen on the stage plate area directly below the center of the stereo microscope 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 and rotatable 360 degrees to maximize your viewing comfort.
5. Focus the stereo microscope at the highest power by turning the focus control knob to the highest magnification power and then use the large focusing knob(s) to bring the specimen in to focus. Rotate the control knob 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 knobs 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 stereo microscope:

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. **NOTE:** All optical glass surfaces should be cleaned using a circular motion.

## **7.0 LAMP REPLACEMENT**

If lamp replacement is necessary, follow these simple instructions: **DANGER!!!** Do not attempt to change the lamp before allowing it to completely cool

### **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 and lay the microscope back on its arm.
3. Unscrew the illuminator housing.
4. Remove the bulb from the lamp socket in the lamp housing.
5. Insert the new bulb into the lamp socket using care not to leave fingerprints on the bulb.
6. Re-screw the lamp housing, and return the microscope to the upright position.

Replacement Bulb: Catalog No. 3363 for both top and bottom illuminators

## **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 by misuse, neglect, abuse, in-transit damage, 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 or by normal wear. 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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