



3061 ZOOM STEREO
MICROSCOPE SERIES
INSTRUCTIONS

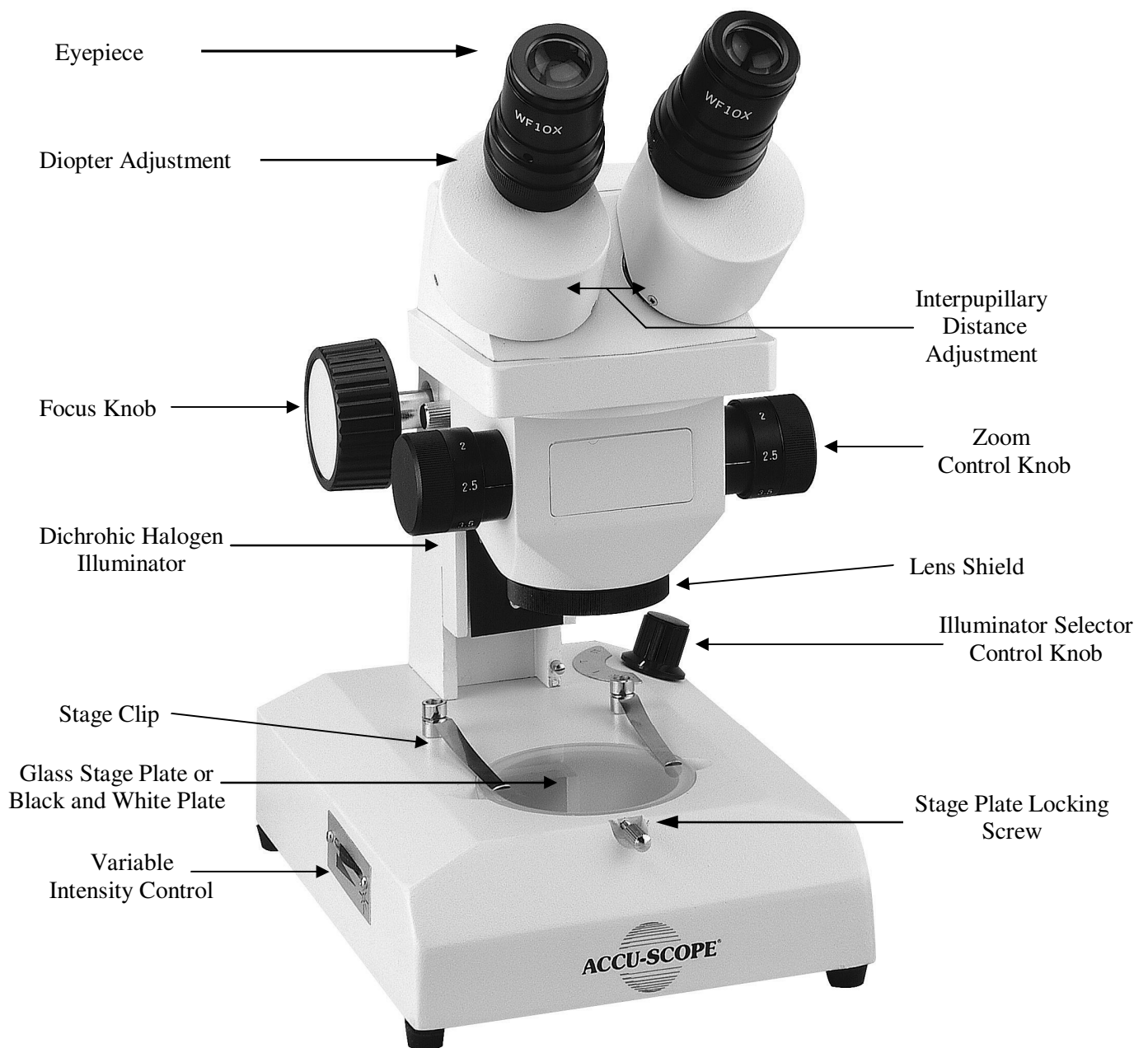
ACCU-SCOPE INC.
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Commack, NY 11725

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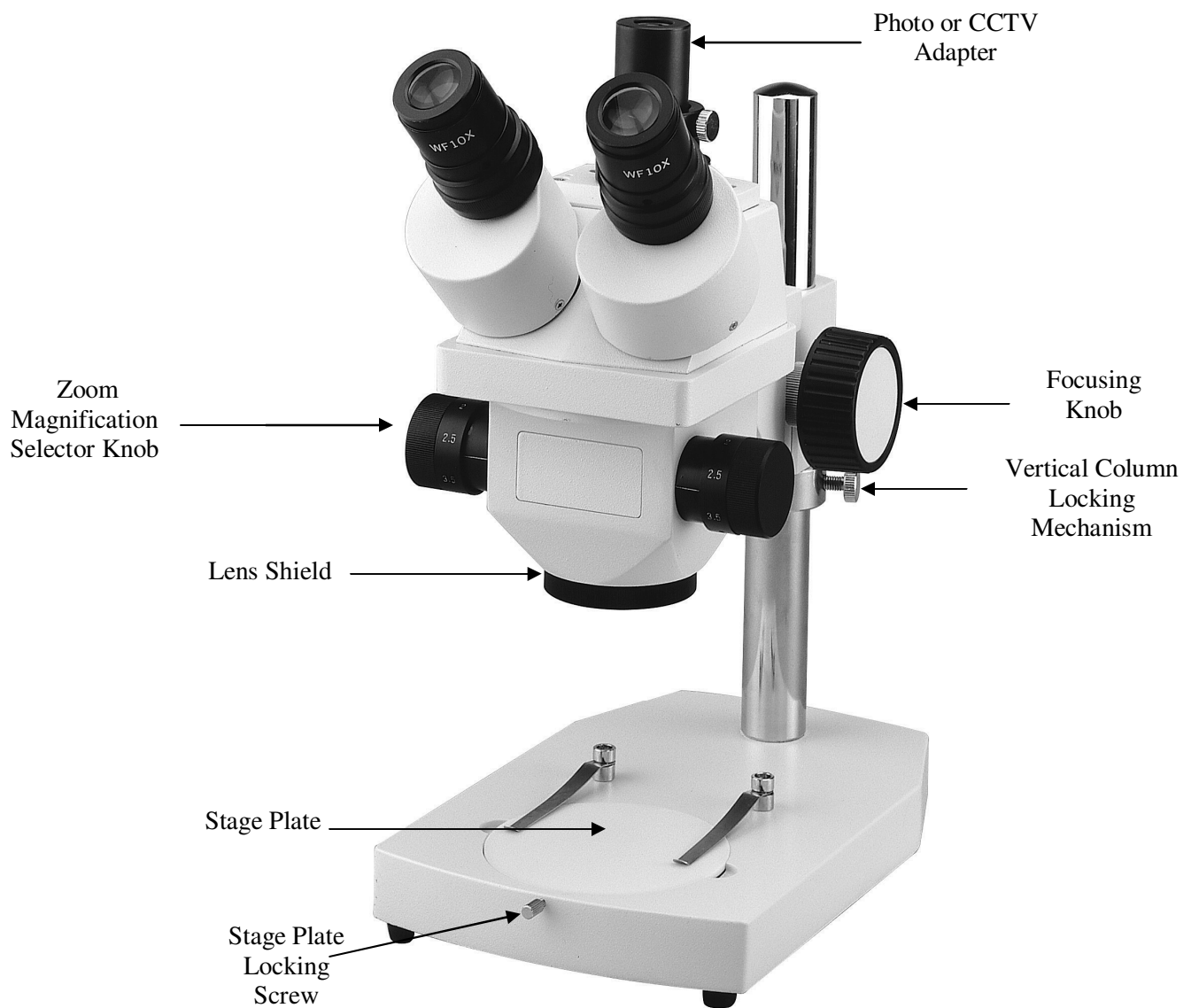
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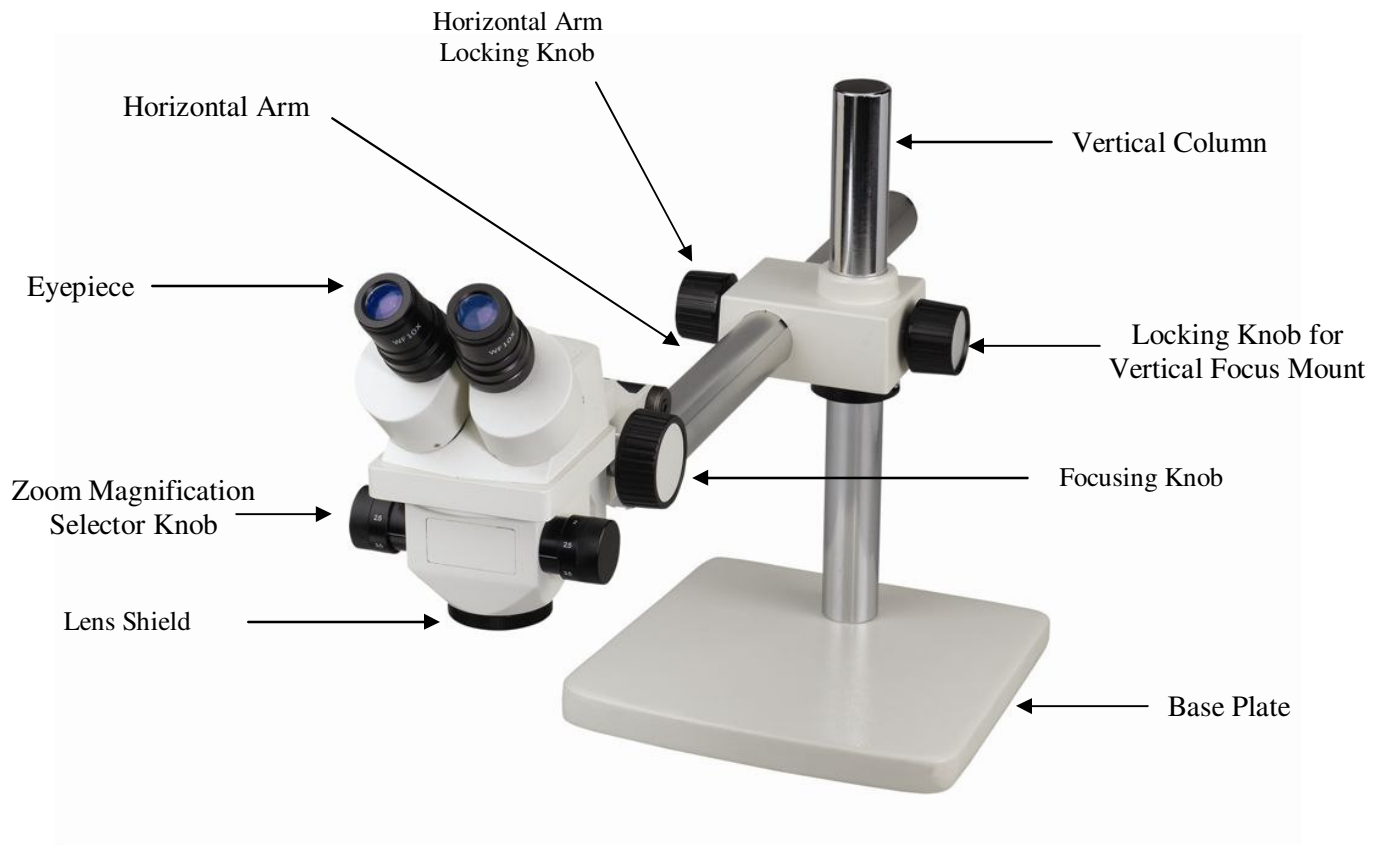




ACCU-SCOPE 3061 ZOOM STEREO SERIES



3060 Trinocular Zoom Stereo Microscope on Pole Stand



3062US Zoom Stereo Microscope on Universal Stand

1.0 INTRODUCTION

Congratulations on the purchase of your new ACCU-SCOPE® Zoom Stereo microscope. ACCU-SCOPE's 3061 Zoom Stereo microscope 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 3061 Zoom Stereo microscope series is ideal for electronics, industry, research, life science, education and photomicrography applications.

2.0 IMPORTANT FEATURES

All ACCU-SCOPE® Zoom Stereo microscopes have zoom magnification systems. Total magnification is the product of eyepiece magnification by the objective magnification:

EYEPIECES	X	OBJECTIVES	=	ZOOM MAGNIFICATION
10x		0.75x to 3.5x		7.5x to 35x

Inclined eyepiece tubes allow for interpupillary distance of 55mm to 75mm and diopter adjustment of ± 5 . Working distance is 80mm. The 3061 Zoom Stereo Microscope Series feature a four-way illumination system which may be used to provide transmitted light, reflected light or a combination of both. The 3061 Zoom 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 stereo microscope.

3.0 MAGNIFICATION SYSTEM

Standard magnification range of the 3061 Zoom Stereo microscope series is 7.5x-35x. The small knobs numbered 0.75x thru 3.5x are the zoom control knobs. Once in focus (see section 6.0) the user may view specimens through the entire magnification range while remaining in focus by rotating the zoom control knob. Additional magnification ranges can be obtained through the use of auxiliary objectives or different eyepieces. Information, product availability and pricing information is available from your authorized ACCU-SCOPE distributor.

4.0 ILLUMINATION SYSTEM

ACCU-SCOPE'S 3061 Zoom Stereo Microscope Series are equipped with a built-in, four-way illuminator system. The convenient on/off selector knob is located on the base of the instrument and controls both the incident and transmitted illumination. The illumination system consists of either 6 volt 15 watt variable intensity halogen dichroic incident light from above and a cool white 5 watt fluorescent transmitted light from below or a variable LED incident light and an LED transmitted illumination system.

5.0 OPERATING SYSTEM

Follow these simple instructions to begin using your Zoom Stereo microscope:

1. Your stereo microscope should always be used on a dry, hard, flat and stable surface.
2. Plug the 3-wire line cord into a grounded electrical outlet.
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. 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 stereo microscope at the highest power by turning the zoom control knob to 3.5x and then use the large focusing knob(s) to bring the specimen into focus. Rotate the zoom control knob to the lower powers.
6. To compensate for differences between your left eye and right eye, the microscope is equipped with dual diopter adjustments. Check to ensure the specimen is in focus and both eye tubes are rotated completely clockwise. Using your right eye only and looking through the right eyepiece only, focus on the specimen by rotating the diopter ring counterclockwise. Do not focus by using the large focusing knob. Switch to the left eyepiece and with your left eye only, repeat this procedure.

6.0 CLEANING THE OPTICS

Do not attempt to disassemble the inclined binocular or trinocular 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 Zoom 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, with a circular motion, 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.

7.0 LAMP REPLACEMENT – Halogen/Fluorescent System

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 bulbs: Top Halogen Illuminator – Catalog #3370

Bottom Fluorescent Illuminator – Catalog #3368-61

LIMITED MICROSCOPE WARRANTY

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. LED bulbs are warranted for a period of 2 years from the date of purchase to the original end user. This warranty does not cover damage caused in-transit, 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. 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 only 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. 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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