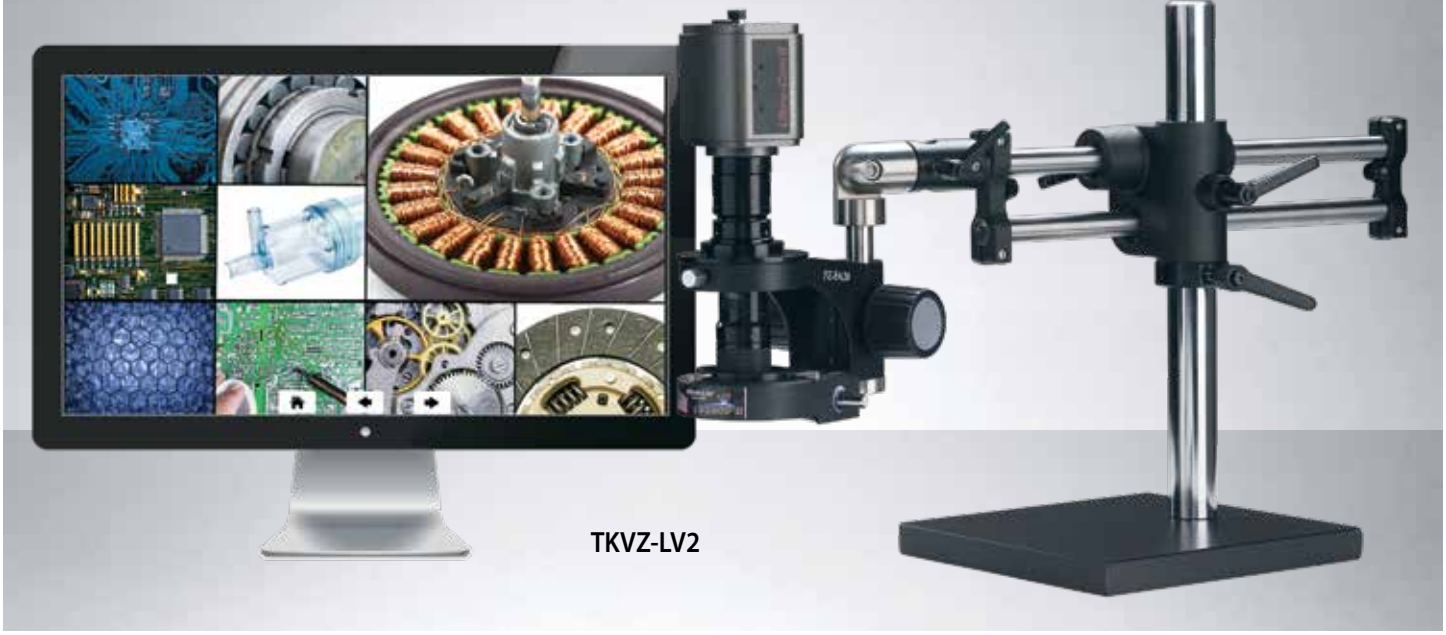
Assembly Instructions

FOR MICROZOOM SERIES

O.C.White Co.

MicroZoom

Modular High Magnification



TKVZ-LV2

TKVZ-HU-LV2

TKDVZ

Assembly Instructions

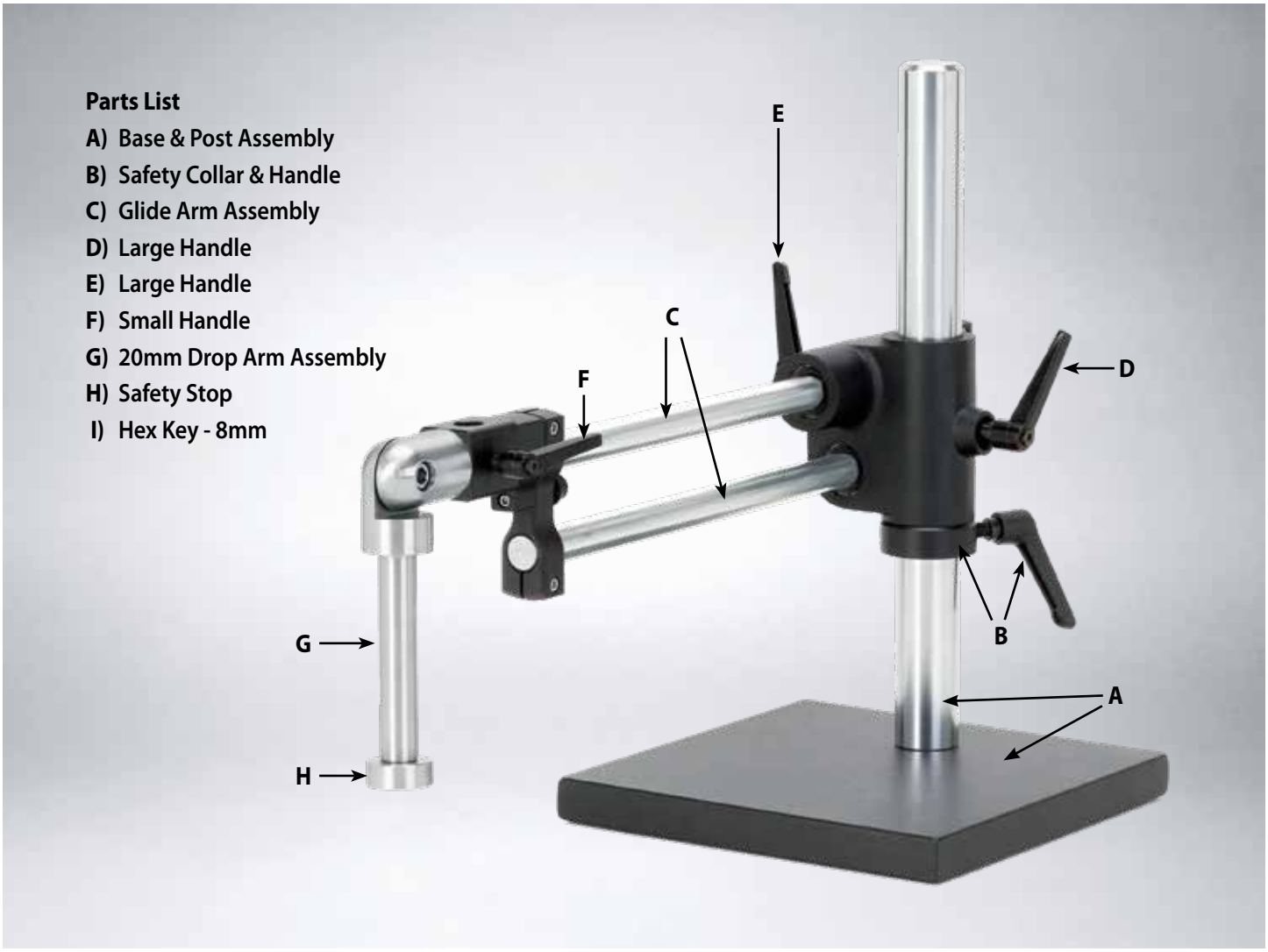
FOR MICROZOOM SERIES

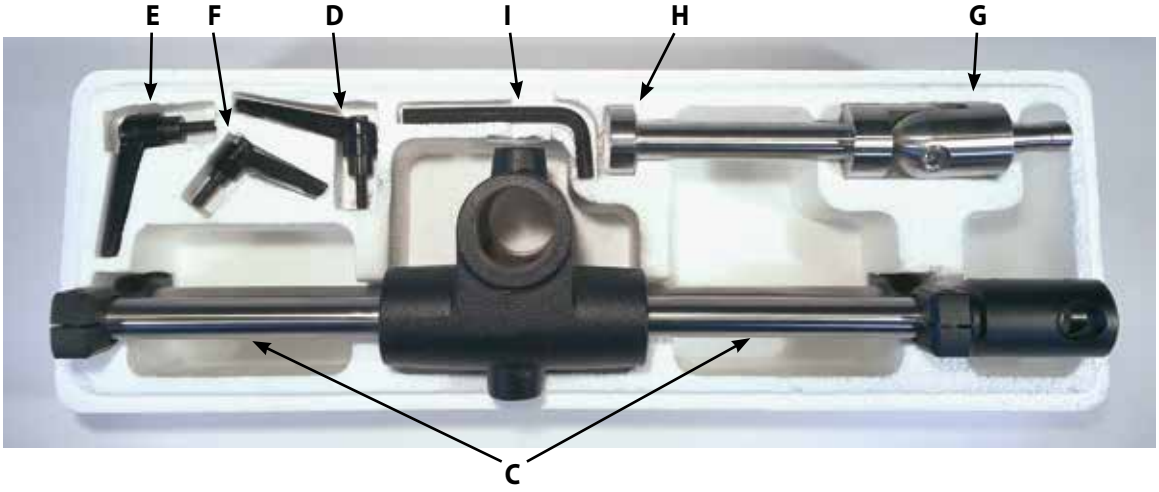
O.C.White Co.

O.C. White Ball Bearing Base Components

Parts List

A) Base & Post Assembly
B) Safety Collar & Handle
C) Glide Arm Assembly
D) Large Handle
E) Large Handle
F) Small Handle
G) 20mm Drop Arm Assembly
H) Safety Stop
I) Hex Key - 8mm



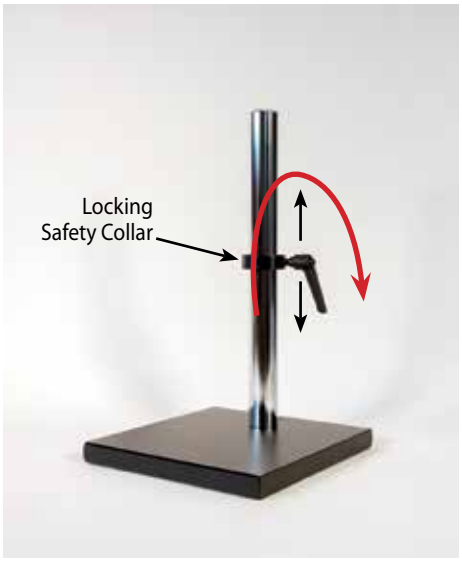


Assembly Instructions

FOR MICROZOOM SERIES

O.C.White Co.

O.C. White Ball Bearing Base Assembly



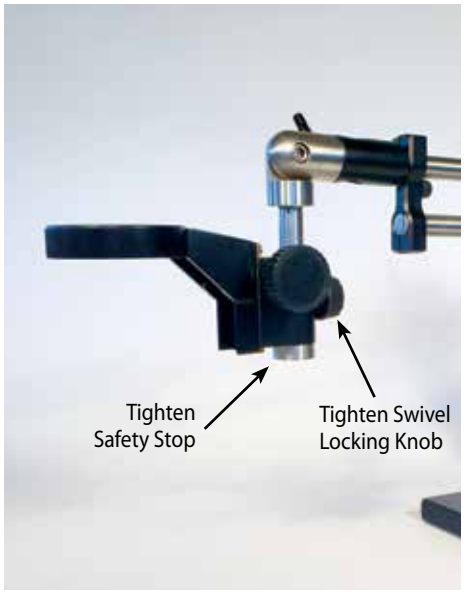
1. Place the base stand on a sturdy level surface and position Safety Collar at approximate working distance. **Tighten lock handle firmly.**

2. Insert Locking Handles into Glide Arm locations shown and screw in several turns. **Do not tighten.**

3. Slide Glide Arm down post to Safety Ring. Tighten post locking handle firmly.

4. Slide Drop Arm into socket at the end of the Glide Arm. Loosen the locking bolt with the 8mm Hex Key to position shaft plumb to the floor. **Tighten very firmly.**

5. Slide microscope Focusing Mount up onto shaft. Tighten the Locking Knob lightly.

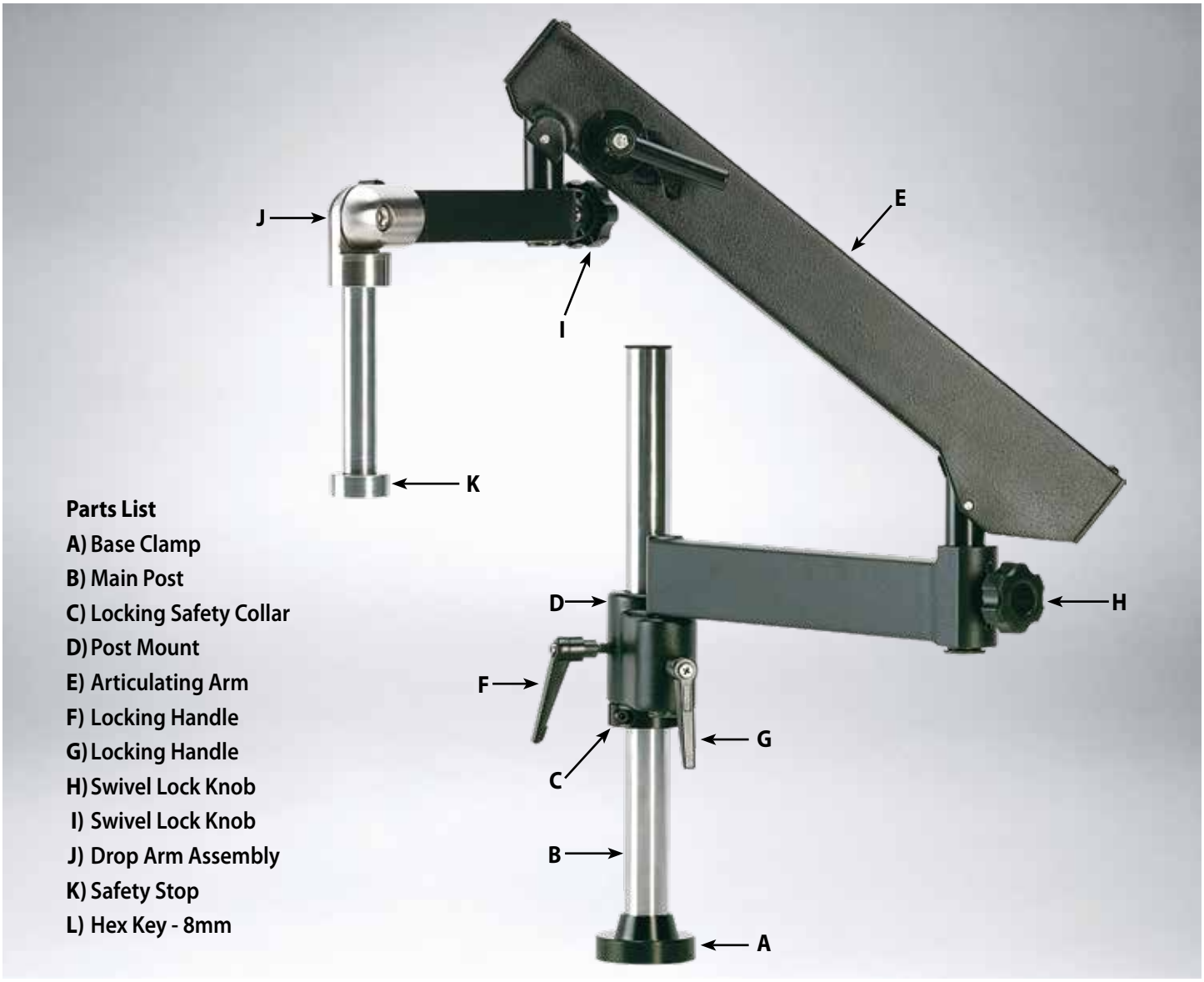


6. Screw Safety Stop onto end of shaft tightly. Reposition Focusing Mount down to Safety Stop and tighten. Adjust position of Focusing Mount and tighten the Swivel Locking Knob.

Assembly Instructions
FOR MICROZOOM SERIES

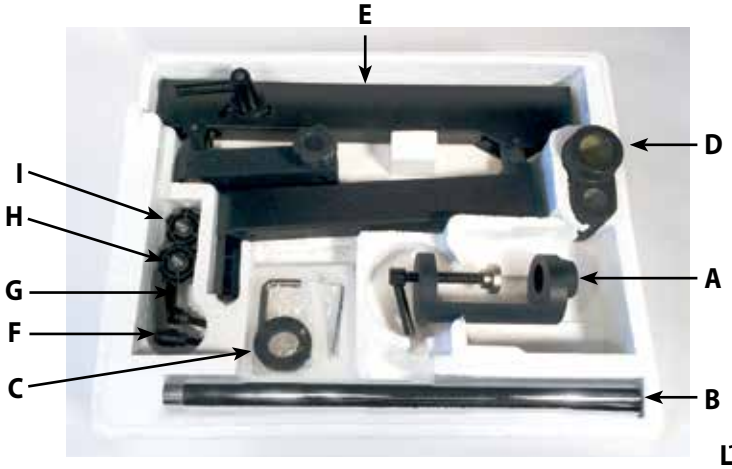
O.C.White Co.

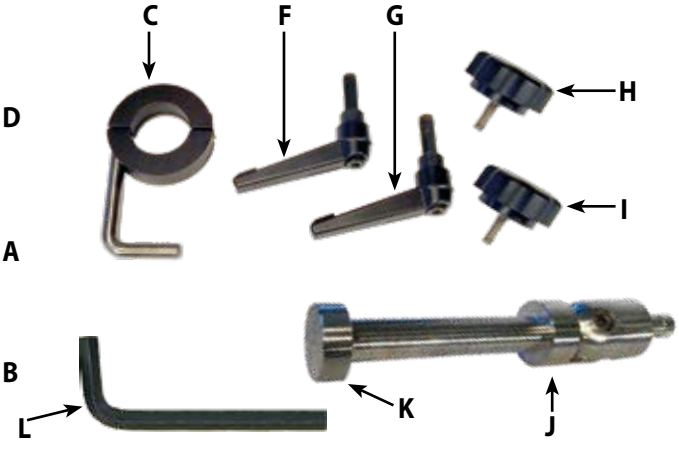
O.C. White Articulating Arm Components



Parts List

A) Base Clamp
B) Main Post
C) Locking Safety Collar
D) Post Mount
E) Articulating Arm
F) Locking Handle
G) Locking Handle
H) Swivel Lock Knob
I) Swivel Lock Knob
J) Drop Arm Assembly
K) Safety Stop
L) Hex Key - 8mm



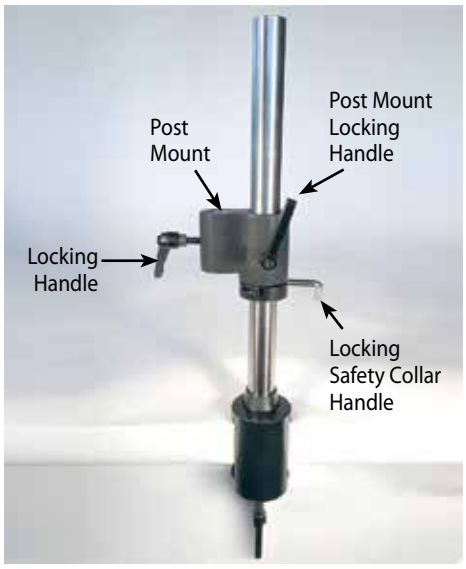


Assembly Instructions
FOR MICROZOOM SERIES

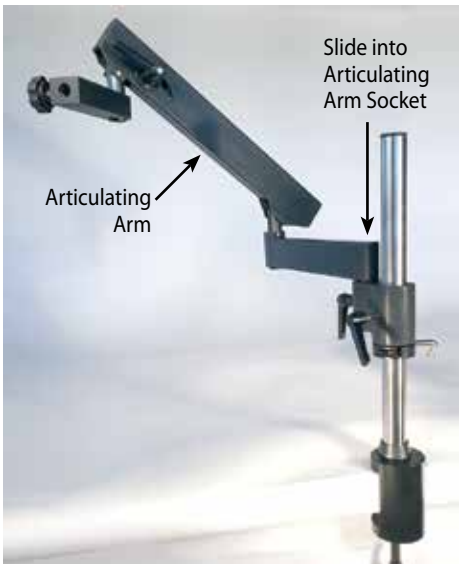
O.C.White Co.

O.C. White Articulating Arm Assembly

1. Screw Main Post into top of Base Clamp. Slide jaw of Base Clamp onto edge of table top. Ensure full contact of the clamp to the edge of the table. Tighten clamp handle firmly until unit is held securely.



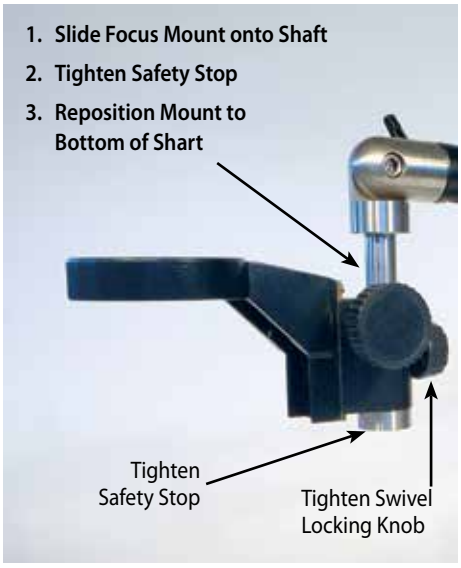
2. Position Safety Collar at approximate working distance. Tighten it's lock handles firmly. Insert locking handles into Articulating Arm locations shown and screw in several turns, but **do not tighten.**



3. Slide Articulating Arm into Flex Arm socket. **Tighten post locking handle firmly.**

4. The angle adjustment of the Articulating Arm is secured by the Locking Handle. Loosen counter-clockwise to desired angle and **tighten firmly**.

5. Slide Drop Arm into socket at end of Articulating Arm. Loosen hex bolt and position shaft plumb to floor. Tighten locking handle first, then **tighten hex nut very firmly**.



6. Slide Focus Mount onto Drop Arm shaft. Lightly tighten knob. Screw Safety Stop onto end of shaft firmly. Reposition Focusing Mount down to Safety Stop and tighten knob. Slide microscope head into Focus Mount opening and secure small locking knob.

Assembly Instructions

FOR MICROZOOM SERIES

O.C.White Co.

MicroZoom Lens Assembly

1. Drop Focusing Arm Adaptor into Focusing Mount.

2. Tighten Focus Arm Set Screw clockwise to securely attach.

3. Insert MicroZoom Lens. *(You may have to unscrew the black Zoom Stop Screws to fit it through opening. Lightly rescrew in if neccessary.)* These screws are for locking your lens, if desired, to one specific magnification.

4. Secure in place with supplied allen wrench. Turn clockwise to tighten.

5. Slide CCD Adaptor down on top of Zoom Lens.

6. Tighten allen set screw, turning clockwise with allen wrench.

7. Screw C Mount Adaptor on to bottom of Ultra-Cam® II, turning clockwise.

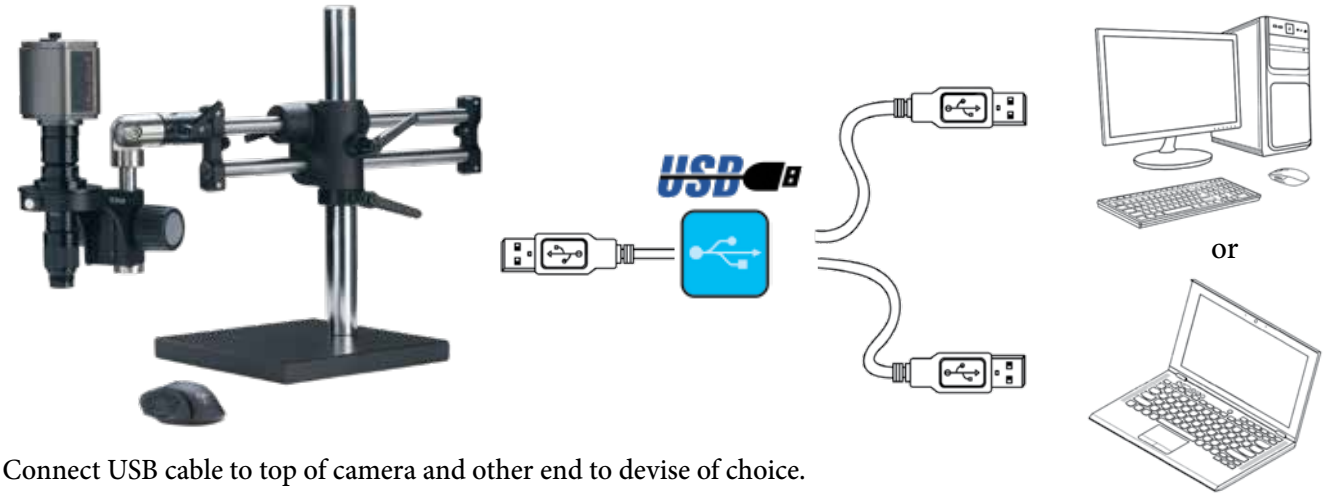
8. Slide the Ultra-Cam® II and C Mount Adaptor on top of the CCD Adaptor and secure it by tightening the allen set screw with allen wrench clockwise.

9. Attach the USB dongle (far right), HDMI cable (middle), and power cord (far left). After attaching HDMI cable to monitor and plugging in power cord, your MicroZoom is ready to use.

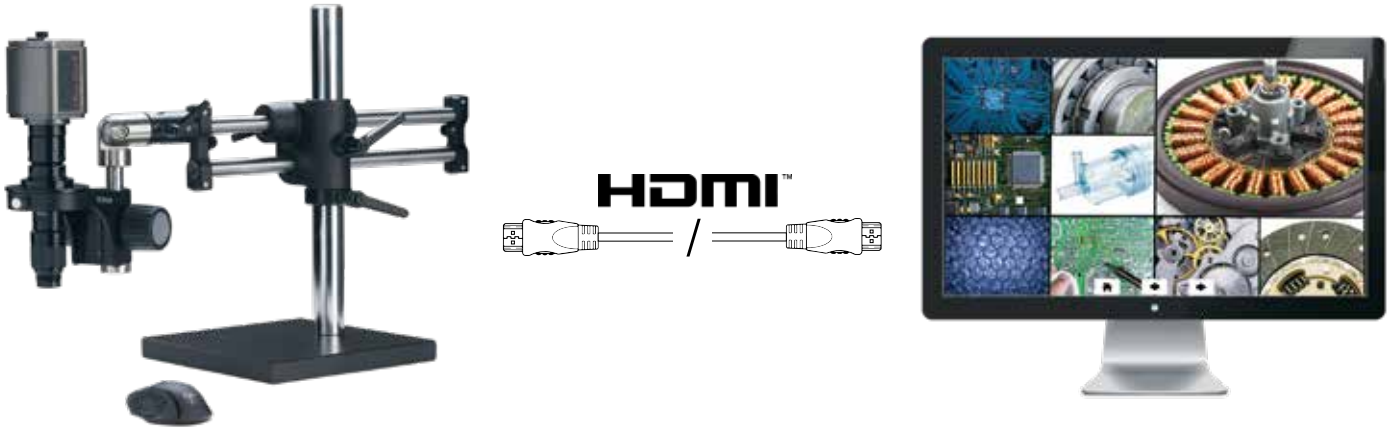
Assembly Instructions
FOR MICROZOOM SERIES

O.C.White Co.

MicroZoom Imaging Setups



Connect USB cable to top of camera and other end to devise of choice.



Connect HDMI cable to top of camera and other end to monitor of choice.

See next page for Heads-Up Display setup instructions.

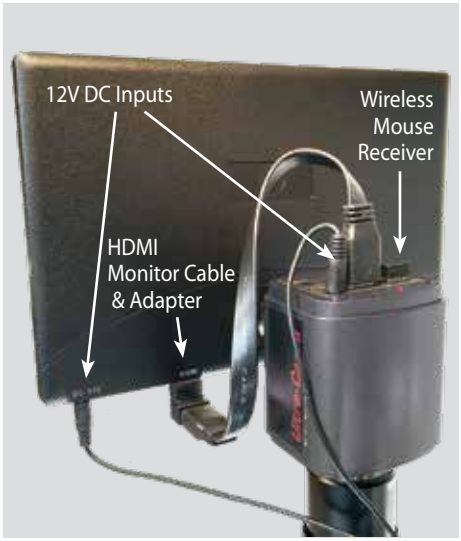
Assembly Instructions
FOR MICROZOOM SERIES

O.C.White Co.

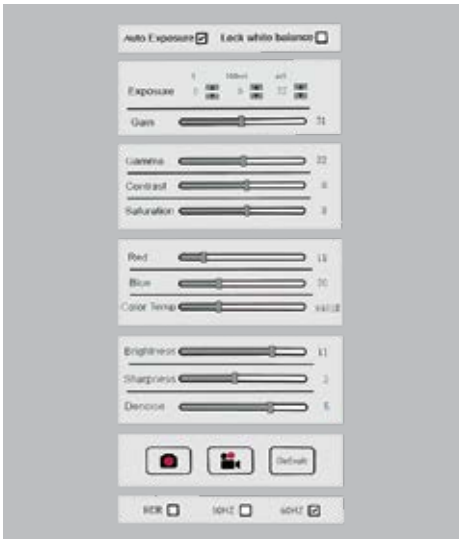
MicroZoom HD Video Components

A) 12" Monitor w/ Mount
B) 5MP Hybrid Digital Camera
C) Screen to Case Mounting Screws
D) SD Card - 8 Gb
E) Screen Mounting Bracket
F) 100-240v (50/60hz) Transformer
G) "Y" Power Splitter
H) Cord for Transformer
I) USB Cord
J) HDMI "L" Adapter
K) Long HDMI Cable
L) Short HDMI Cable
M) Wireless Mouse
N) Mouse Receiver *(Ships in bottom of mouse)*
O) "AA" Mouse Battery

1. Attach monitor to camera with both mounting screws turned **finger tight.** Attach C Mount Adaptor and CCD Adaptor to camera by turning counterclockwise until seated.



2. Slide Camera & Monitor Assembly into the top of the lens. Attach cables as shown. Insert Wireless Mouse Receiver into USB port on camera.



3. Turn ON Camera & Screen. Using the mouse, toggle left-hand side hidden window. Open the Settings tab, and select 60hz for optimal performance.

Assembly Instructions
FOR MICROZOOM SERIES

O.C.White Co.

How to Parfocal your MicroZoom

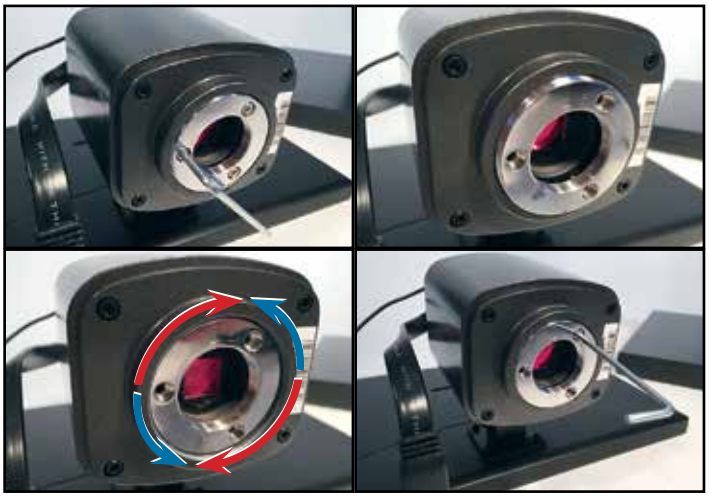
Why Parfocal your Microzoom? Parfocaling enables you to cycle through your microscope's zoom range without losing focus.

Part Number	Description	Working Distance	
		Millimeters	Inches
VZ-OB-025	.25x Auxiliary lens for O.C. White 4.5x MicroZoom	300mm	11.8 inches
VZ-OB-050	.5x Auxiliary lens for O.C. White 4.5x MicroZoom	175mm	6.8 inches
VZ-OB-075	.75x Auxiliary lens for O.C. White 4.5x MicroZoom	113mm	4.4 inches
VZ-OB-150	1.5x Auxiliary lens for O.C. White 4.5x MicroZoom	51mm	2 inches
VZ-OB-200	2x Auxiliary lens for O.C. White 4.5x MicroZoom	36mm	1.4 inches

1. Set working height of MicroZoom to preferred distance approximately 3.5". If you are using an auxiliary lens, refer to the chart at right for working distance setting.

2. Rotate the Zoom Ring to 4.5, its highest zoom setting. Adjust lens height (via focusing arm) until on-screen image is in focus.

3. Rotate the Zoom Ring to 0.7x. If image is out of focus, you will need to adjust chrome mount. Remove lens from focusing arm and remove lens from camera.

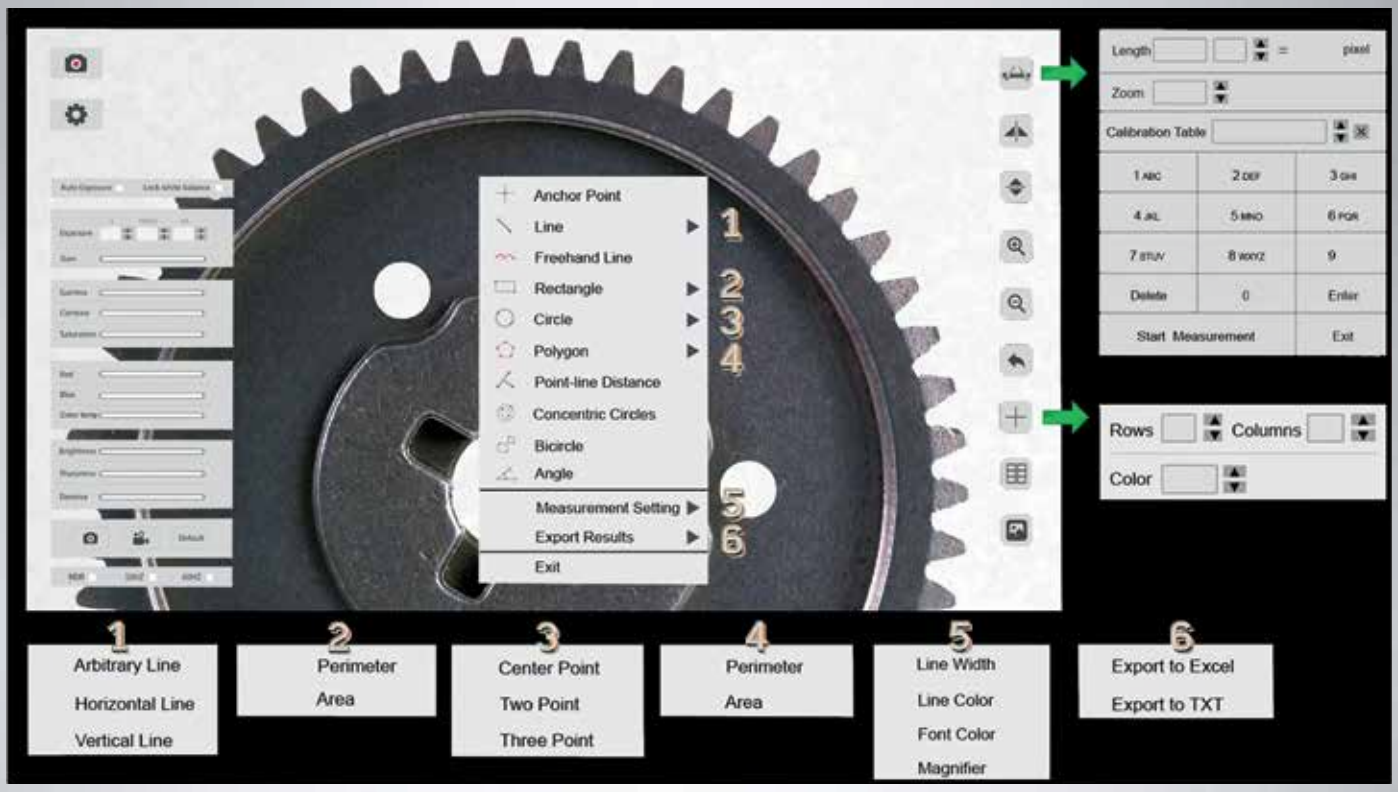


4. Unscrew the 3 hex bolts from mount. Rotate chrome mount in or out one position (until bolt hole realigns) and reinstall (1) bolt. Reassemble lens, camera, and screen and recheck focus using steps (2 & 3). **Repeat and readjust (if necessary) until field is focused** at both high and low zoom (reinstall remaining bolts at this time).

Assembly Instructions
FOR MICROZOOM SERIES

O.C.White Co.

AIMS Advanced Imaging & Measurement Suite
INTEGRATED SOFTWARE FUNCTIONS FOR ALL CAMERA BASED SYSTEMS



Our exclusive **Ultra-Cam II™ 5MP Hybrid HDMI/USB Camera** pulls double duty for both production and quality assurance needs. The AIMS System's Software documentation as well as PC software suite are available for download at **https://support.ocwhite.com**. Featuring both HDMI and USB outputs, its **integrated smart camera controls include a host of onboard software features including**:

Image Capture
Quickly capture image and videos while inspecting directly to the 8GB SD card. Sort and archive to a PC.

Calibrated Measure
An entire array of Measurement Tools for high precision and repeatable measurements without a PC!

Real Time Compare
Compare live video feed with previous captured images. Search and sort for instant comparison.

Ultra-High Sensitivity
Industry leading low light sensitivity allows for crystal clear images where competitors cameras fail. More sensitivity requires less light for less glare!

NEW!

AIMS PC SUITE ADDS REMARKABLE FEATURES TO AIMS FOR MAXIMUM PRODUCTIVITY AND PRECISION!

Extended Depth of Focus
This specialized tool allows for 'stacking' of multiple image captures of tall objects taken at various focal lengths, into a single super high clarity image.

Ultra-High Sensitivity
Inspecting something that is just too big to view all at once? Capture multiple images of the object, then 'stitch' them together digitally to create a single extra-large image.

OC123