



**INNOVATIVE
MICROSCOPES**

Providing High Quality & Economical Microscope Solutions

OPERATION MANUAL

SKU# Trinocular CAMV1



CAMV1



Photo above show CAMV1 mounted with optional I-68TR microscope

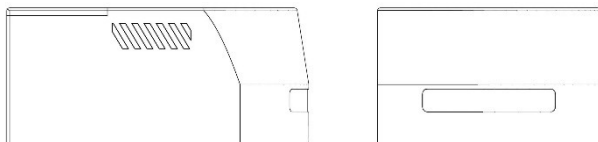
REV 2026-07-30

1. Introduction

Thank you for purchasing the CAMV1 Trinocular Camera.

Before attempting to use your microscope, please read through the instructions and reference the diagrams below.

IN THE BOX



CAMV1 TRINOCULAR CAMERA (1)

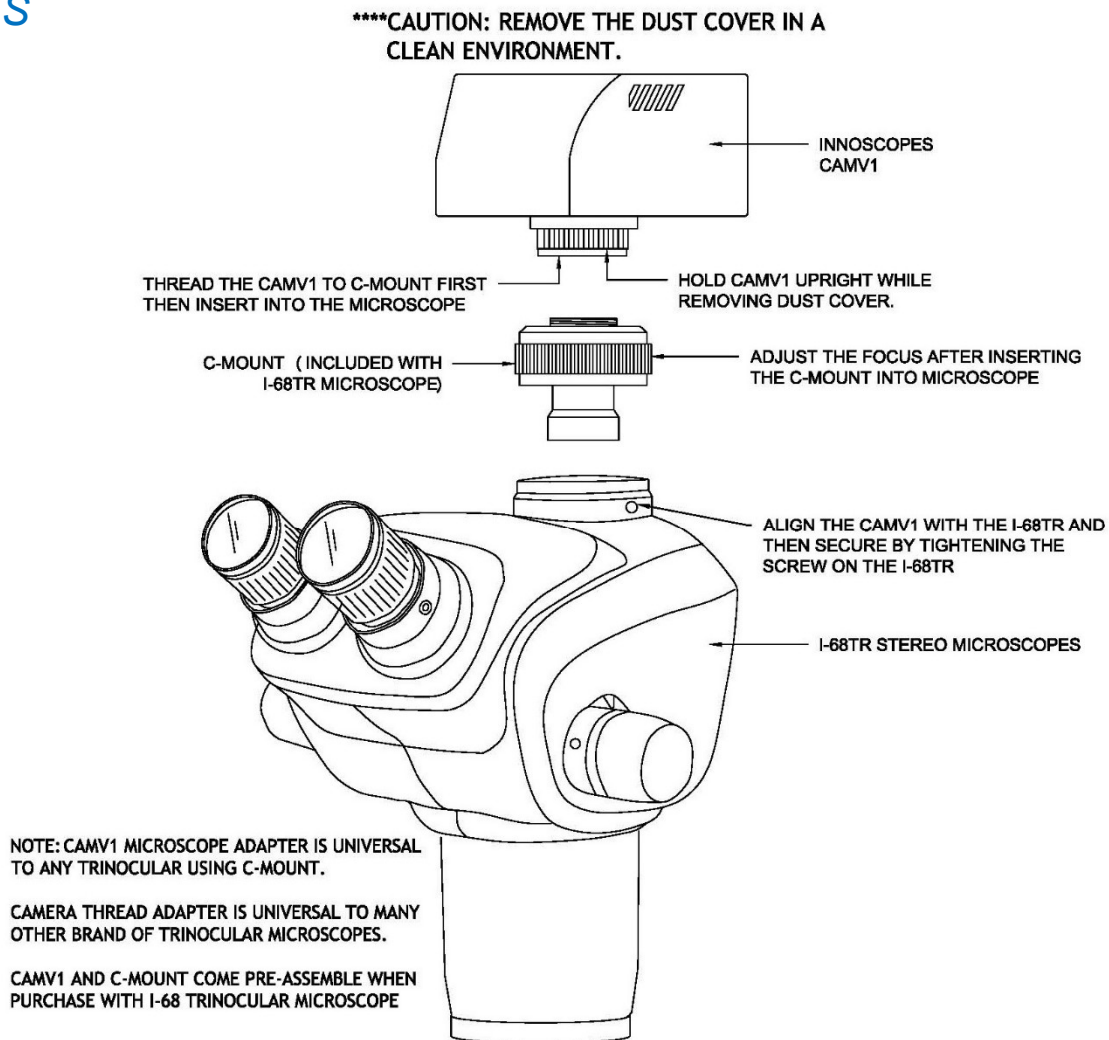


Calibration Slide (1)



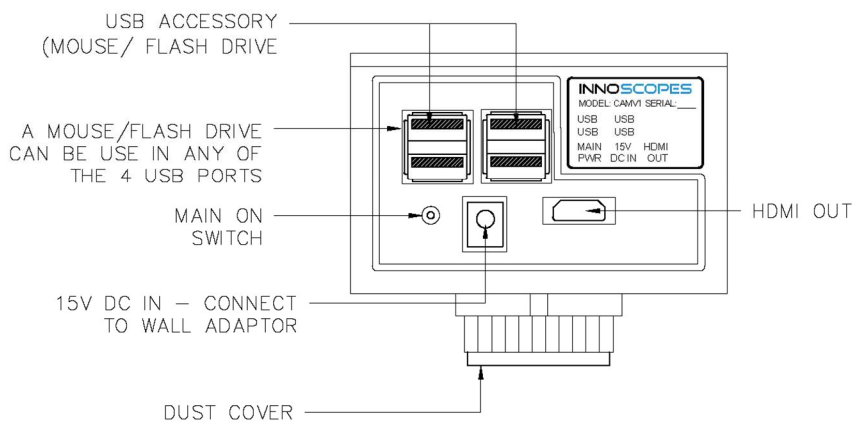
AC adapter (1)

2. PARTS

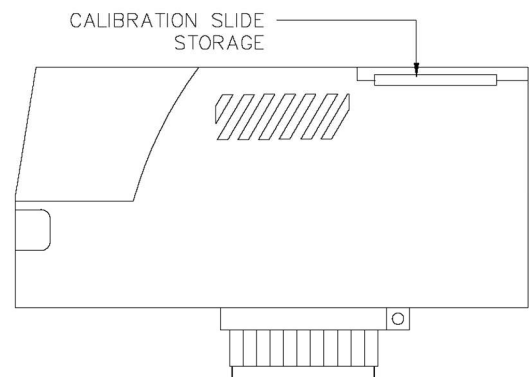


Setup Diagram

BACK OF CAMV1



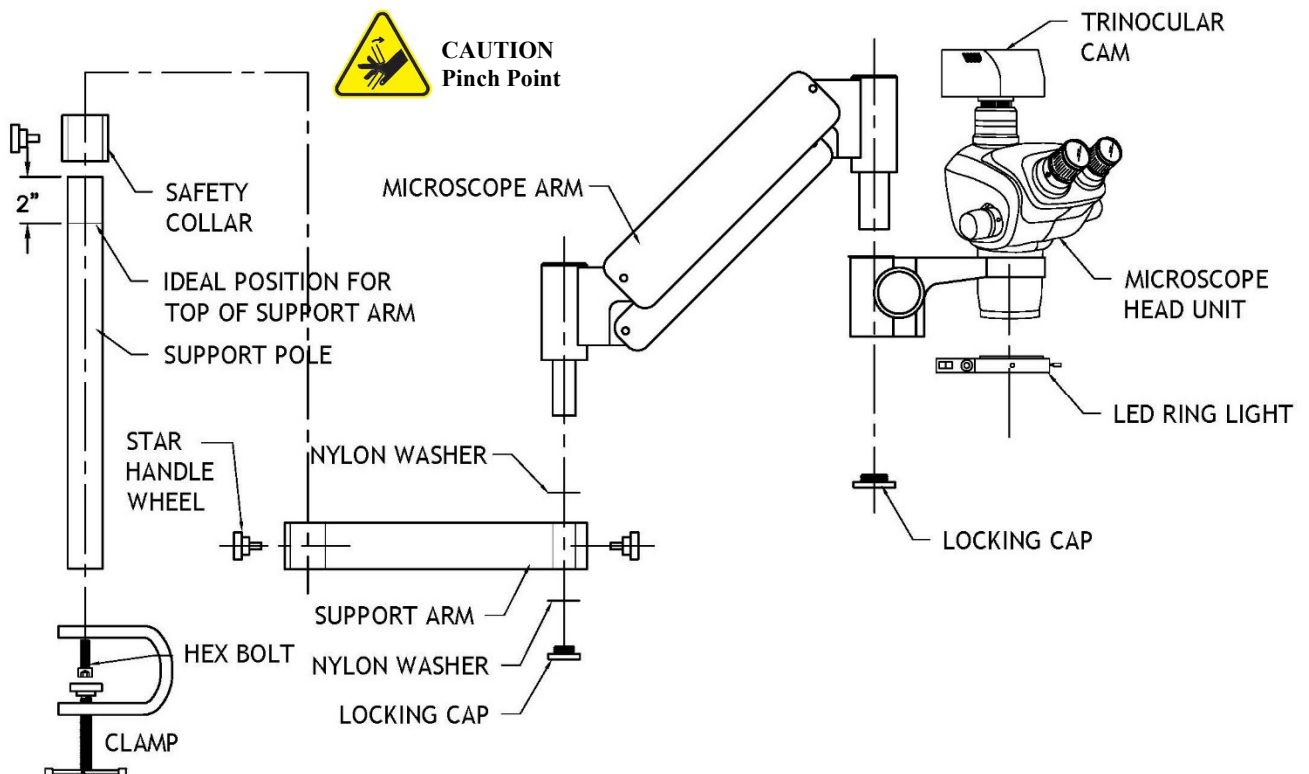
SIDE OF CAMV1



SPECIFICATIONS

Category	Specifications
SKU	CAMV1 TRINOCULAR CAMERA
Image Capture Resolution	1920 x 1080
Frame rate	30 FPS
Video Output	HDMI
AC adapter	US Plug 110V/ DC 15V/2A
Dimensions	102 x 57 x 84 mm (4" x 2.25" x 3.25")
Weight	0.5 lbs. or 0.23 kg
SAFETY	
	The socket-outlet shall be installed near the equipment accessible.
	Do not look directly into LED Light while lights are on.
	Disconnect main power wall adapter when servicing the microscope.

3. ACCESSORY SETUP



Power on

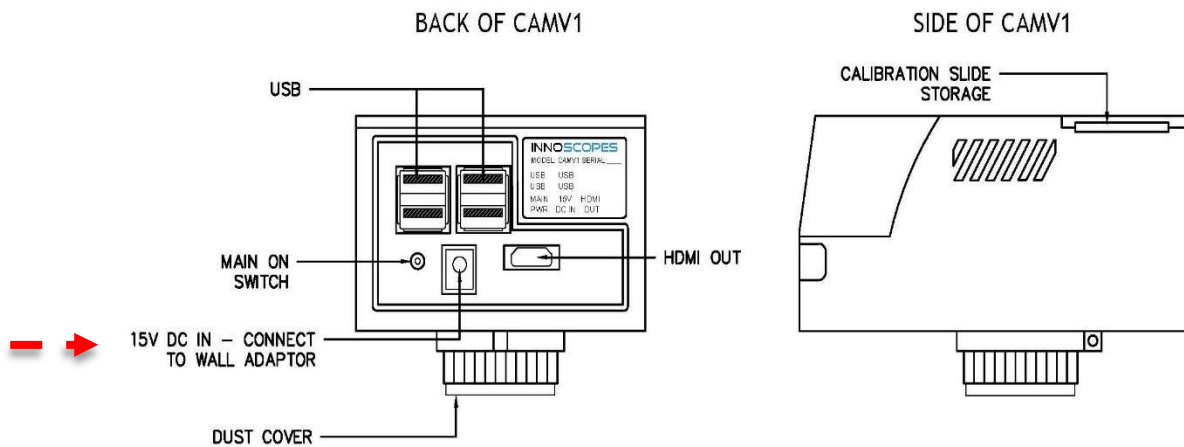
Connect AC adapter to wall outlet (see dashed arrow).

Connect a video cable to HDMI port if a monitor is supplied, prior to power up.

Press the POWER button on the back CAMV1.

Allow 60 secs for operating system to boot up.

Your microscope is ready to use after splash screen Closes.



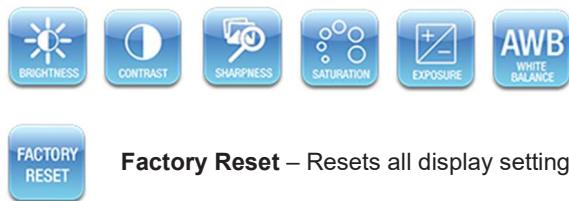
Power off

To POWER down use the on-screen menu.

*Note: Recommend shutting off the CAMV1 at the end of each day.

Display Settings

Brightness, contrast, exposure, saturation, sharpness and white balance should be adjusted to desire settings based on object being viewed.



Factory Reset – Resets all display settings to factory default



4. Using measurement Function

1. Select the Measure icon.



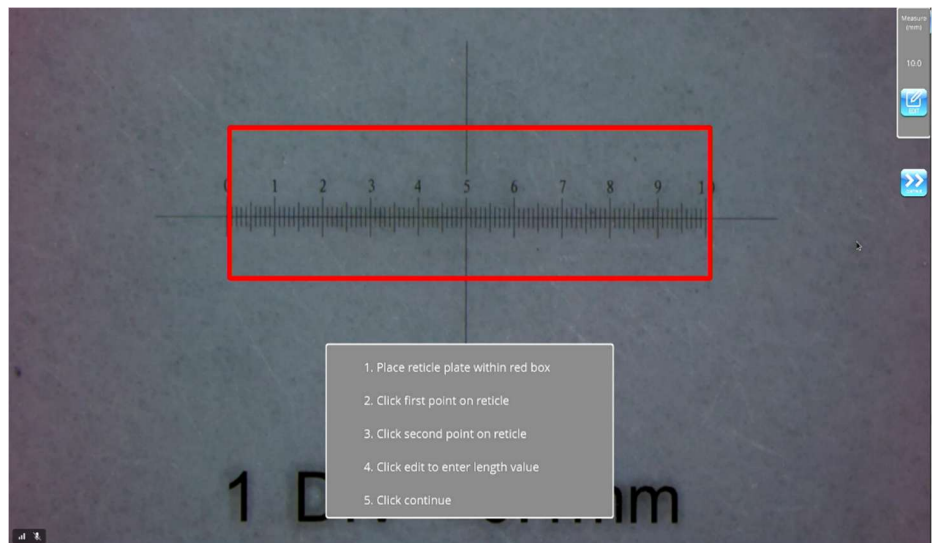
2. Then calibrate Icon



3. Use the provided calibration plate



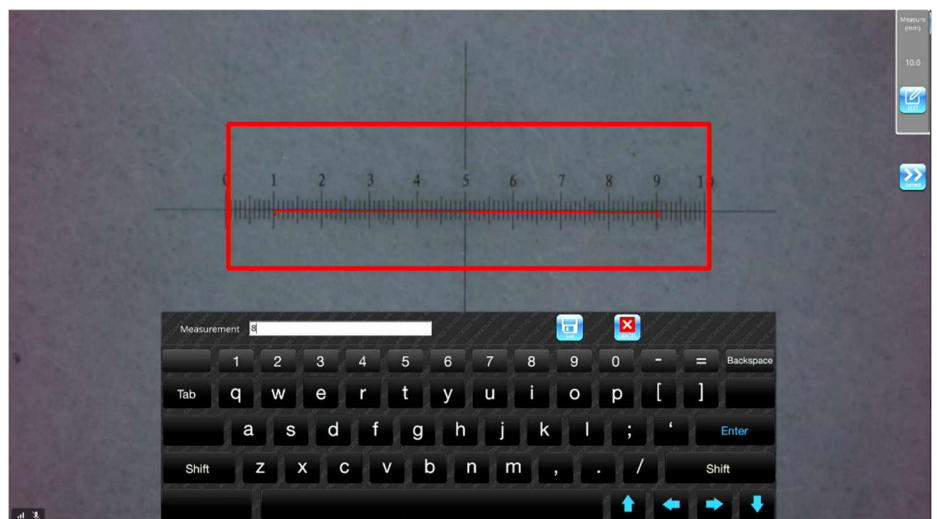
4. Place the calibration plate within the red outline box.
5. Adjust the focus mount knob so the calibration plate is as shown.



6. Click the first point at 1mm then second Point at 9mm.
7. Click edit to enter length value. Value =8



8. Select continue icon to save setting.

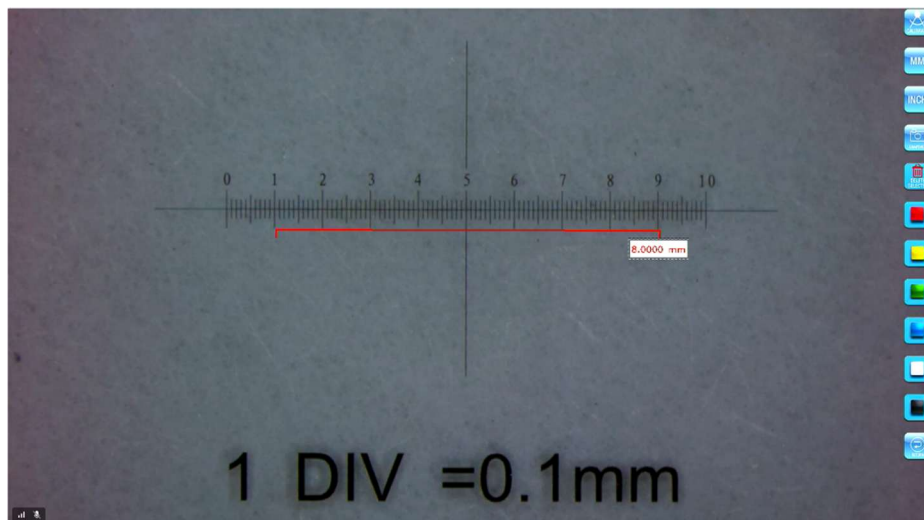


9. Measurement tools are now available.
10. When exiting measurement menu and then entering the menu again, the tool icon will again be shaded grey. (This reminds the operator to verify if the camera has moved and need to be recalibrated.)

***Note:**

1. If the position of the camera has been moved, calibration must be performed again.

11. If there were no changes to the camera position, select calibrate icon then continue icon. This will bypass the calibration process and keep the existing setting.

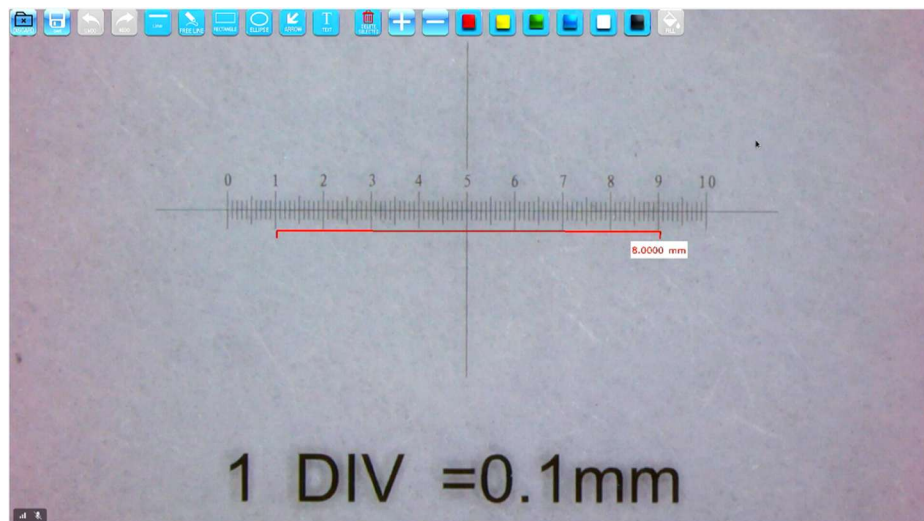


5. CAPTURING IMAGES

1. Make sure your CAMV1 TRINOCULAR CAMERA is powered ON.
2. A USB thumb drive is inserted into a USB port (see Pg. 3 for location).
3. Select Snapshot Icon.



4. The screen will display the captured image along with annotation tools at top.
5. The image could now be saved or discarded. If the image is discarded.



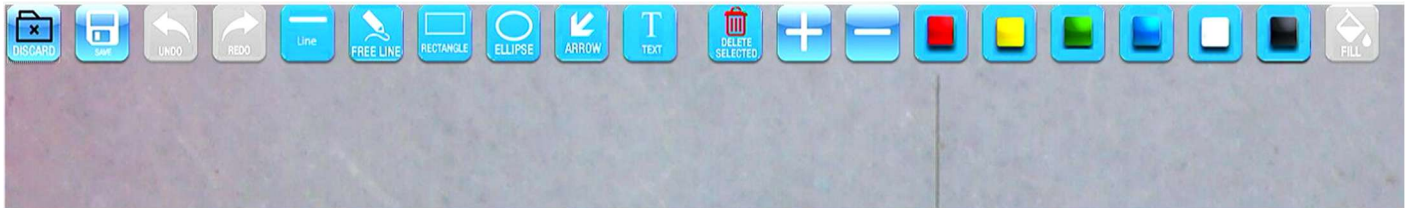
6. ANNOTATION EDITOR

The annotation editor is accessible by pressing the snapshot icon.



Icon Description

1. DISCARD: discard the captured image and return to the snapshot menu
2. SAVE: save captured image with a file name
3. UNDO: undo previous edit
4. REDO: redo last edit
5. LINE: draw a straight line
6. FREE LINE: draw a free hand line segment
7. RECTANGLE: draw a scalable rectangle
8. ELLIPSE: draw a scalable ellipse
9. ARROW: draw an arrow
10. TEXT: text annotation
11. DELETE SELECTED: delete the selected annotation
12. INCREASE SIZE: increase the size of annotated objects and text.
13. DECREASE SIZE: decrease the size of annotated objects and text.
14. COLOR: color palette for annotated objects and text.
15. FILL: fill in selected colors for the RECTANGLE and ELLIPSE tools (shaded grey when no objects are available to fill).



7. Record and Gallery

1. Make sure your CAMV1 TRINOCULAR CAMERA is powered ON.
2. A USB thumb drive is inserted into a USB port (see Pg. 3 for location).
3. Select Record Icon.



4. The Start Icon will be available to record.



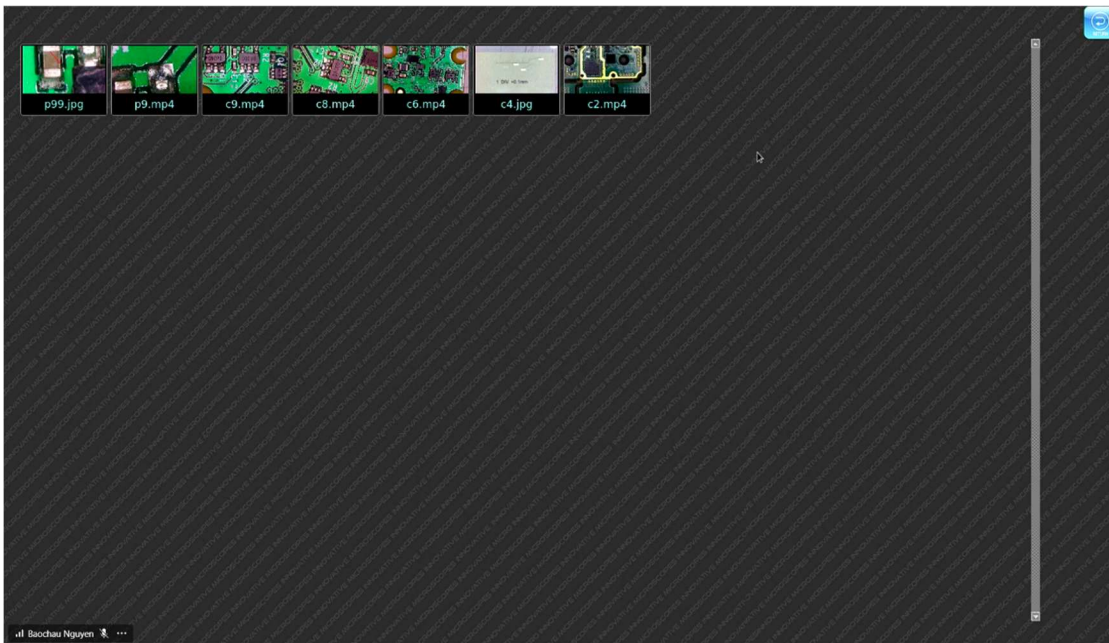
5. The Stop icon will be available when the recording is in progress.



6. When stopping the recording, the save dialogue box will appear. Enter a save name or cancel.



7. The Gallery will appear after saving the file. Videos and images are shown for playback.



8. The selected videos screen has a playback, delete and return screen.



8. CARE AND MAINTENANCE

Your digital microscope is a precision optical instrument and should be treated with care at all times. Follow these care and suggestions and your microscope will need very little maintenance throughout its lifetime.

- + Store your microscope in a dry, clean place.
- + Never use your microscope where operation of such devices is restricted. Improper use creates the risk of serious accident.
- + do not try to access the internal components of your microscope or attempt to modify it in any way. Only authorized technicians should perform maintenance or repairs.
- + Keep your microscope away from water and other liquids. Never use it in the rain or snow. Moisture creates the danger of fire and electric shock.
- + To clean dust or smudges from the LCD screen or other optical component, first blow the dust off with air blower.
- + If the exterior surfaces of your microscope need cleaning, wipe with a moist cloth.

9. TROUBLESHOOTING

Problems	Solution
The unit does not turn on.	+ Wait 60 secs for the operating system to boot up
The screen is blank or unresponsive.	+ ensure that the power is on. + Wait 60 secs for the operating system to boot up + Verify that the object you want to magnify is positioned correctly under the lens. + check the monitor LED light is on + ensure the monitor power connector is secured to the microscope head unit (see pg. 3) + Unplug the power from wall outlet. Wait 5 secs and plug into the outlet. Press the power button
There are smudges or blemishes on the screen.	Clean the screen and lens carefully with a cloth.
USB error	Ensure a USB thumb drive has been inserted into the USB port

10. WARRANTY

Your CAMV1 TRINOCULAR CAMERA Digital Microscope has a One-year limited warranty. Please visit the Innovative Microscopes website for detailed information on all microscopes:

WWW.INNOSCOPES.COM



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