AmScope SF-2TRAZZ-TP

AmScope SF-2TRAZZ-TP 4X-200X Trinocular Stereo Microscope User Manual

Model: SF-2TRAZZ-TP

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your AmScope SF-2TRAZZ-TP Trinocular Stereo Microscope. This instrument features precision zoom optics, a robust track-stand, dual-LED illumination for both reflected and transmitted light, and an integrated 9.7-inch touchscreen imaging system. It is designed for a wide range of applications, including biological specimen observation, electronic component inspection, and educational purposes.

What's in the Box

Carefully unpack all components and verify that you have received the following items:

- Microscope Head (Trinocular)
- Track-Stand Base with Dual Illumination
- 9.7-inch Touchscreen Camera System
- WF10X Eyepieces (Pair)
- WF20X Eyepieces (Pair)
- 0.5X Barlow Lens
- 2X Barlow Lens
- Power Adapter
- Dust Cover
- User Manual



Image: The AmScope SF-2TRAZZ-TP microscope shown with its various accessories, including eyepieces, Barlow lenses, power cable, and stage plates.

Setup

1. Assembly

1. Place the track-stand base on a stable, level surface.
2. Carefully attach the microscope head to the track-stand pillar, securing it with the provided locking screw.

3. Insert the WF10X eyepieces into the ocular tubes of the microscope head. Ensure they are fully seated.
4. If desired, screw in the 0.5X or 2X Barlow lens into the objective housing for additional magnification options.
5. Mount the 9.7-inch touchscreen camera system onto the trinocular port at the top of the microscope head. Connect the necessary cables as indicated in the camera system's separate manual.



Image: A fully assembled AmScope SF-2TRAZZ-TP trinocular stereo microscope, showing the head, eyepieces, and track-stand.

2. Power Connection

Connect the power adapter to the microscope's power input port, typically located at the rear of the base. Plug the adapter into a standard electrical outlet (AC 100V-240V, 50/60Hz).



Image: Rear view of the microscope base, highlighting the power input port and power switch.

Operating Instructions

1. Powering On and Illumination Control

1. Flip the main power switch on the microscope base to the 'ON' position.
2. Use the separate switches and dimmer controls on the base to activate and adjust the intensity of the top (reflected) and bottom (transmitted) LED illuminators.



Image: The microscope base with a transparent stage plate, demonstrating the transmitted (bottom) LED illumination.



Image: The microscope base with an opaque stage plate, suitable for use with reflected (top) LED illumination.

2. Placing a Specimen

Place your specimen on the stage plate. For transparent specimens, use the transparent stage plate and transmitted illumination. For opaque specimens, use the opaque stage plate and reflected illumination.

3. Adjusting Magnification

The microscope offers a zoom magnification range from 4X to 200X. Rotate the zoom knob on the microscope head to change the magnification. You can further adjust the total magnification by swapping the 10X eyepieces for 20X eyepieces or by installing the 0.5X or 2X Barlow lenses.

4. Focusing

Use the coarse focus knobs on the track-stand to bring the specimen into approximate focus. Then, use the fine focus knob (if available, or the same coarse knob for precise adjustment) for sharp image clarity.

5. Using the Touchscreen Imaging System

The integrated 9.7-inch touchscreen allows for direct viewing, image capture, and video recording. Refer to the separate

manual for the touchscreen system for detailed instructions on:

- Navigating the user interface.
- Capturing still images and recording videos.
- Storing files on microSD.
- Transferring data via USB or Wi-Fi.
- Connecting to an external monitor or television via micro-HDMI.



Image: The AmScope microscope with its digital imaging system connected to a laptop, showcasing the live view of a magnified object.

Maintenance

1. Cleaning Optics

Use a soft, lint-free cloth and a specialized optical cleaning solution to gently clean eyepiece lenses and objective lenses. Avoid touching optical surfaces with bare hands. For stubborn dust, use an air blower.

2. General Care

- Keep the microscope covered with the dust cover when not in use.
- Store the microscope in a dry, dust-free environment.
- Avoid exposing the microscope to direct sunlight or extreme temperatures.
- Do not attempt to disassemble the optical or mechanical components beyond what is described in this manual.

Troubleshooting

Problem	Possible Cause	Solution
No image visible	Eyepieces not inserted correctly; objective not aligned; illumination off; specimen not in focus.	Re-insert eyepieces; check objective position; turn on illumination; adjust focus knobs.
Image is blurry	Not properly focused; dirty lenses; incorrect eyepiece/Barlow lens combination.	Adjust focus; clean lenses; ensure correct optical components are used.
Illumination not working	Power not connected; power switch off; dimmer set to minimum; LED failure.	Check power connection; turn on power switch; adjust dimmer; contact support if LEDs are faulty.
Touchscreen not responding	Power issue; software glitch; physical damage.	Ensure camera system is powered; restart the system; refer to touchscreen manual; contact support.

Specifications

Feature	Specification
Model Number	SF-2TRAZZ-TP
Magnification Range	4X-200X (with included eyepieces and Barlow lenses)
Eyepieces	WF10X, WF20X
Barlow Lenses	0.5X, 2X
Objective Lens Description	Achromatic
Light Source Type	Dual LED (Reflected and Transmitted)
Stand Type	Track-Stand
Imaging System	9.7-inch Touchscreen Camera (5MP)
Compatible Devices	Tablet (integrated), External Monitor/TV via HDMI
Material	Metal

Feature	Specification
Color	White
Item Weight	18.5 Pounds
Power Source	Corded Electric
UPC	840979138409

Warranty Information

This AmScope microscope comes with a 5-Year Manufacturer Warranty. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or visit the official AmScope website.

Customer Support

For technical assistance, replacement parts, or any questions regarding your AmScope SF-2TRAZZ-TP microscope, please contact AmScope customer support. Contact information can typically be found on the AmScope website or in the packaging materials.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question