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› OMAX 5MP USB Digital Microscope Camera User Manual

OMAX A3550S

OMAX 5MP USB Digital Microscope Camera User Manual

Model: A3550S

Brand: OMAX

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your OMAX 5MP USB Digital Microscope Camera (Model A3550S). This camera is designed to capture high-resolution still images and stream live video from your microscope directly to your computer. It is compatible with various Windows operating systems and includes user-friendly software with advanced features for image analysis and processing.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x 5MP Digital Camera (Model A3550S)
- 1 x CD including Driver, Software, and User's Instruction
- 1 x 23.2mm to 30mm Adapter
- 1 x 23.2mm to 30.5mm Adapter
- 1 x USB Cable



Image: Contents of the OMAX 5MP USB Digital Microscope Camera package, including the camera, software CD, USB cable, and two mounting adapters.

Key Features

- **High Resolution:** 5MP (2592x1944 pixels) color digital camera for clear imaging.
- **Advanced Software:** Includes editing, processing, and measuring software.
- **Wide Compatibility:** Compatible with modern Windows operating systems (XP through Windows 10).
- **Developer Support:** Supports Native C/C++, C#, Directshow, Twain, Labview.
- **Versatile Mounting:** Fits 3 mounting sizes: 23.2mm, 30mm, and 30.5mm (two mounting adapters included).

TECHNICAL SPECIFICATIONS

Hardware

Model	A3550S
Image Sensor	Aptina 1/2.5" color CMOS
Resolution	2592x1944 pixels (5M pixels)
Pixel Size	2.2 μm x 2.2 μm
Frame Speed	2fps at 2592x1944, 3fps at 2048x1536, 5fps at 1600x1200, 7.5fps at 1280x1024
Interface	USB 2.0 only
Mounting Sizes	23.2mm eyepiece tube; Adapters for 30mm and 30.5mm eyepiece tubes
Dimensions	Φ27.2mm x 40mm
Operating Environment	-10°C to 60°C
Power	Direct via USB port
Gross Weight	0.62 kg

Software Compatibility

The included software is compatible with modern Windows operating systems. Please refer to the software CD or manufacturer's website for the most up-to-date compatibility chart.

SETUP GUIDE

1. Physical Installation

- 1. Prepare your Microscope:** Identify the ocular tube or photo tube on your microscope where the camera will be inserted. If your microscope has a 23.2mm tube, the camera can be inserted directly.
- 2. Attach Adapters (if necessary):**
 - If your microscope has a 30mm photo port, use the 23.2mm to 30mm adapter.
 - If your microscope has a 30.5mm photo port, use the 23.2mm to 30.5mm adapter.



Image: One of the included mounting adapters, used to fit the camera into different microscope tube sizes.

3. **Insert the Camera:** Gently slide the OMAX 5MP Digital Microscope Camera into the prepared ocular tube or photo tube of your microscope. Ensure it is seated securely.
4. **Connect to Computer:** Plug the USB cable into the camera's USB port and connect the other end to an available USB 2.0 port on your computer.

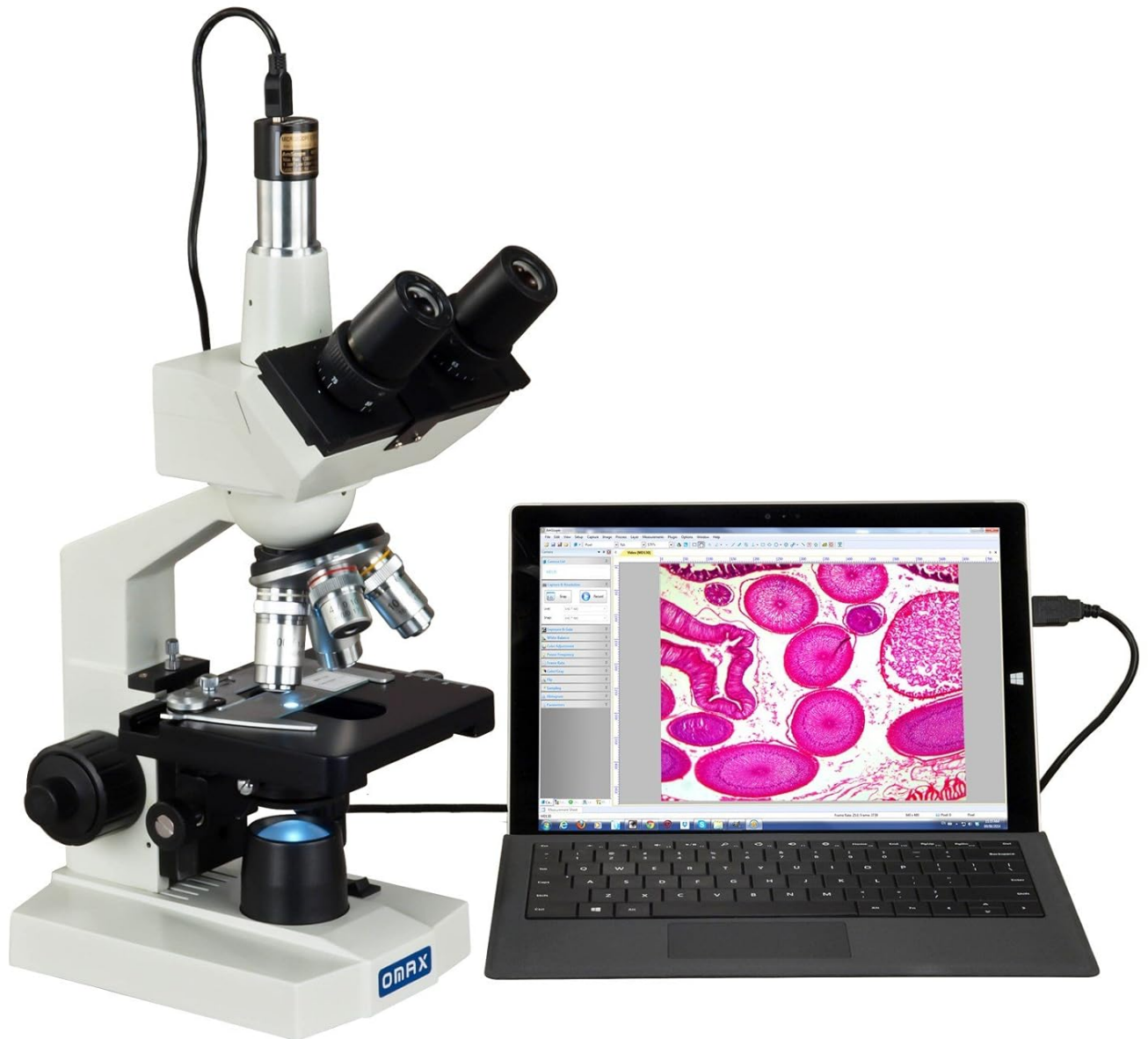


Image: The OMAX 5MP USB Digital Microscope Camera installed on a microscope, connected via USB to a laptop displaying the live microscope view.

2. Software Installation

1. **Insert Software CD:** Place the included software CD into your computer's CD/DVD drive.
2. **Run Installer:** Follow the on-screen prompts to install the camera drivers and the OMAX imaging software. If your computer does not have a CD drive, please visit the OMAX official website to download the latest software and drivers.
3. **Restart Computer:** It is recommended to restart your computer after the installation is complete to ensure all drivers are properly loaded.

OPERATING INSTRUCTIONS

1. Launching the Software

After successful installation, locate the OMAX imaging software icon on your desktop or in the Start Menu and launch the application.

2. Live View and Focus

Upon launching, the software should automatically detect the camera and display a live feed from your microscope. Adjust the microscope's focus knobs to achieve a clear image on your computer screen. You may need to adjust the resolution settings within the software for smoother live viewing, especially when moving the slide.

3. Capturing Images and Videos

- **Still Images:** To capture a still image, click the "Snapshot" or "Capture" button within the software interface. The captured image will typically appear in a gallery or preview window. You can then save it to your desired location on the computer.
- **Video Recording:** To record live video, locate the "Record" or "Video" button. Click once to start recording and again to stop. The video file will be saved to a default or specified directory.

4. Software Features

The OMAX imaging software offers several advanced features:

- **Stitching:** Combine multiple images to create a larger, panoramic view.
- **EDF (Extended Depth of Focus):** Merge images taken at different focal planes to create a single image with greater depth of field.
- **Annotations:** Add notes, shapes, measurements, and watermarks directly onto your images for analysis and presentation.
- **Image Processing:** Adjust brightness, contrast, color balance, and other parameters to enhance image quality.

MAINTENANCE

- **Cleaning the Camera Lens:** Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the camera's lens. Avoid using abrasive materials or harsh chemicals.
- **General Cleaning:** Wipe the camera body with a dry, soft cloth. Do not immerse the camera in water or any cleaning solutions.
- **Storage:** When not in use, store the camera in a dry, dust-free environment, preferably in its original packaging or a protective case.
- **Software Updates:** Periodically check the OMAX official website for software and driver updates to ensure optimal performance and compatibility.

TROUBLESHOOTING

Problem: Camera not detected by software.

Solution:

- Ensure the USB cable is securely connected to both the camera and the computer.
- Try connecting to a different USB port on your computer.
- Verify that the camera drivers are correctly installed. Check Device Manager in Windows for any unknown devices or driver errors.
- Restart your computer.

- Ensure the software is the correct version for your operating system.

Problem: Image is blurry or out of focus.

Solution:

- Adjust the coarse and fine focus knobs on your microscope.
- Ensure the camera is fully inserted into the microscope's tube.
- Check if the correct adapter is used for your microscope's tube size.

Problem: Live view is laggy or slow.

Solution:

- Reduce the resolution setting within the OMAX imaging software for live viewing. You can increase it again before capturing a still image.
- Ensure your computer meets the minimum system requirements for the software.
- Close other demanding applications running in the background.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your OMAX 5MP USB Digital Microscope Camera, please refer to the documentation included with your product or visit the official OMAX website. You can also contact OMAX customer service directly for assistance.

Manufacturer: OMAX

For additional resources and product information, please visit the [OMAX Store on Amazon](#).

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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