Andonstar AD246S-M

Andonstar AD246S-M HDMI Digital Microscope

User Instruction Manual

Introduction

The Andonstar AD246S-M is a versatile digital microscope designed for a wide range of applications, including electronics repair, coin collection, and biological observation. Featuring a 7-inch LCD screen, 2160P UHD video recording, and multiple interchangeable lenses, it provides high-quality magnification up to 2000x. Its robust Pro Boom Arm Stand ensures stability for precise work. This manual provides comprehensive instructions for setting up, operating, and maintaining your microscope.



Figure 1: Andonstar AD246S-M Digital Microscope Overview

What's in the Box

Verify that all components listed below are included in your package:

- 1x Microscope host
- 1x Lens A
- 1x Lens D
- 1x Lens L
- 1x Slide holder
- 1x 32G Micro SD card
- 1x USB cable
- 1x Switch cable

- 1x HDMI cable
- 1x Remote control
- 5x Prepared Slides
- 1x Observation box
- 1x Tweezers
- 1x Instruction Manual



Figure 2: Package Contents

Setup and Assembly

Follow these steps to assemble your Andonstar AD246S-M digital microscope:

1. **Assemble the Stand:** Attach the vertical support rod to the base plate. Ensure it is securely fastened.
2. **Attach the Microscope Head:** Slide the microscope head assembly onto the vertical support rod. Tighten the

adjustment knobs to secure it at the desired height.

3. **Install Lenses:** The microscope comes with three interchangeable lenses (L, A, D). To change a lens, unscrew the retaining screws, carefully remove the current lens, insert the desired lens, and tighten the screws.
4. **Connect Power and Accessories:** Connect the power adapter to the microscope. Plug in the USB cable for PC connection or the HDMI cable for external display, if desired. Connect the flexible LED lights to the base.

For a visual guide on assembly, please refer to the video below or the included PDF instruction manual: Installation Manual (PDF)

Video 1: Andonstar AD246S-M Unboxing and Assembly

This video provides a step-by-step guide on how to unbox and assemble your Andonstar AD246S-M digital microscope, ensuring proper setup of all components.

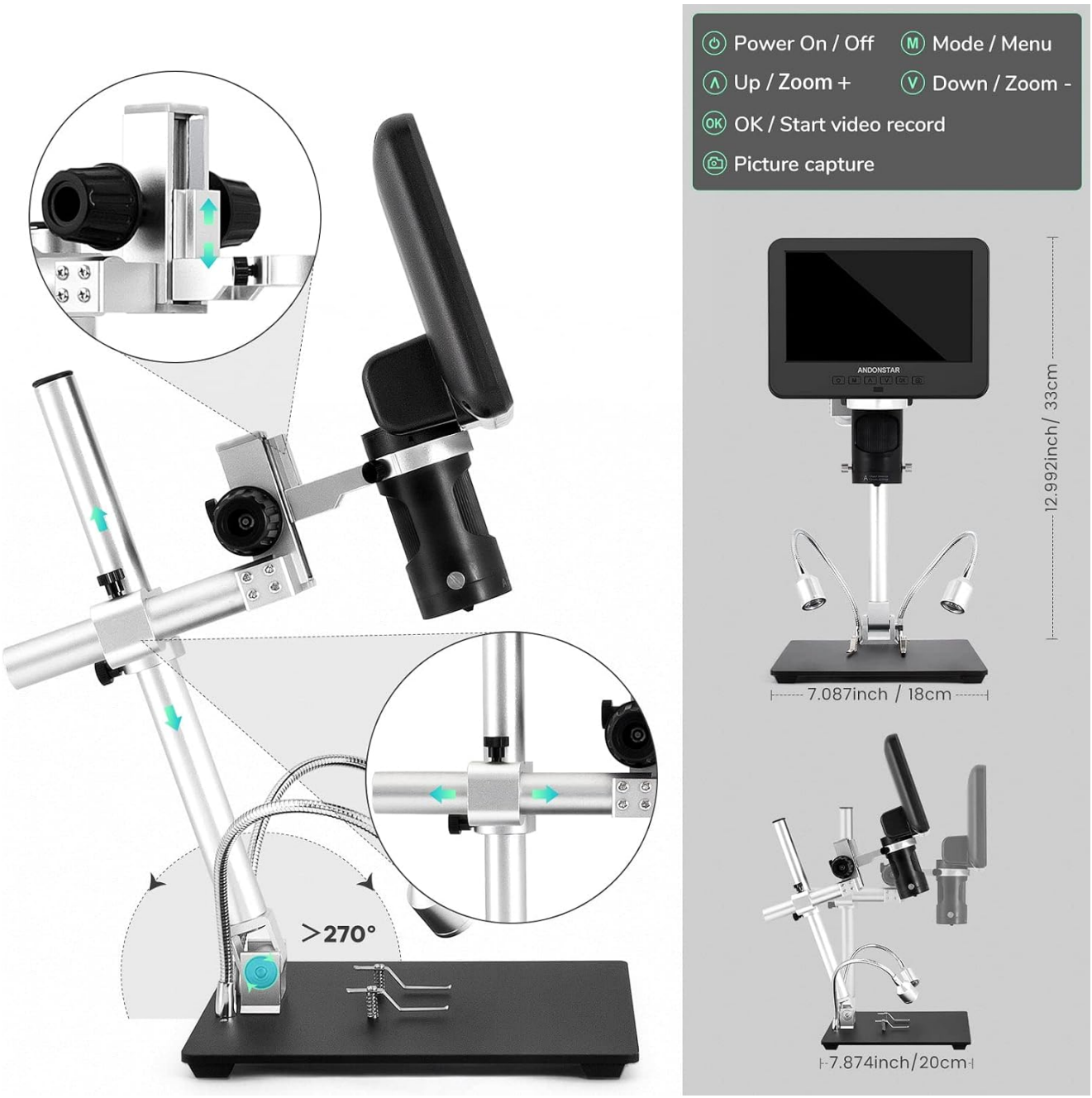


Figure 3: Pro Boom Arm Stand Adjustments

Video 2: Andonstar AD246S-M Upgraded Pro Metal Stand for Soldering

This video highlights the features and stability of the upgraded Pro metal stand, demonstrating its utility for soldering and other precision tasks.

Operating Instructions

Lens Usage

The Andonstar AD246S-M comes with three specialized lenses to cater to different observation needs:

- **Lens L (15-60x on screen, 60-240x on 28-inch HDMI monitor):** Ideal for soldering and electronics repair due to its high working distance (90mm-300mm).
- **Lens A (4.5-180x on screen, 18-720x on 28-inch HDMI monitor):** Suitable for observing whole coins, parts, plants, or stones with a working distance of 12mm-320mm.
- **Lens D (450-510x on screen, 1800-2040x on 28-inch HDMI monitor):** Designed for observing biological slides with a short working distance of 4mm-5mm.



Figure 4: Three Lenses for Various Uses

Video 3: Andonstar AD246S-M, Use Lens L with High Working Distance

This video demonstrates the high working distance of Lens L, making it ideal for soldering and detailed electronics

work.

Video 4: Andonstar AD246S-M Lens A for Coin Collection
Watch how Lens A is used to observe details on coins, showcasing its suitability for collectors and enthusiasts.

Video 5: Andonstar AD246S-M, Use Lens D to Observe Slides
This video illustrates the powerful magnification of Lens D for examining biological slides, providing clear and detailed views.

Display and Output

The microscope features a 7-inch LCD display for direct viewing. For larger audiences or more detailed analysis, you can connect the microscope to an external monitor via HDMI or to a Windows PC via USB.



Figure 5: 7-Inch 2160P Video Record Display

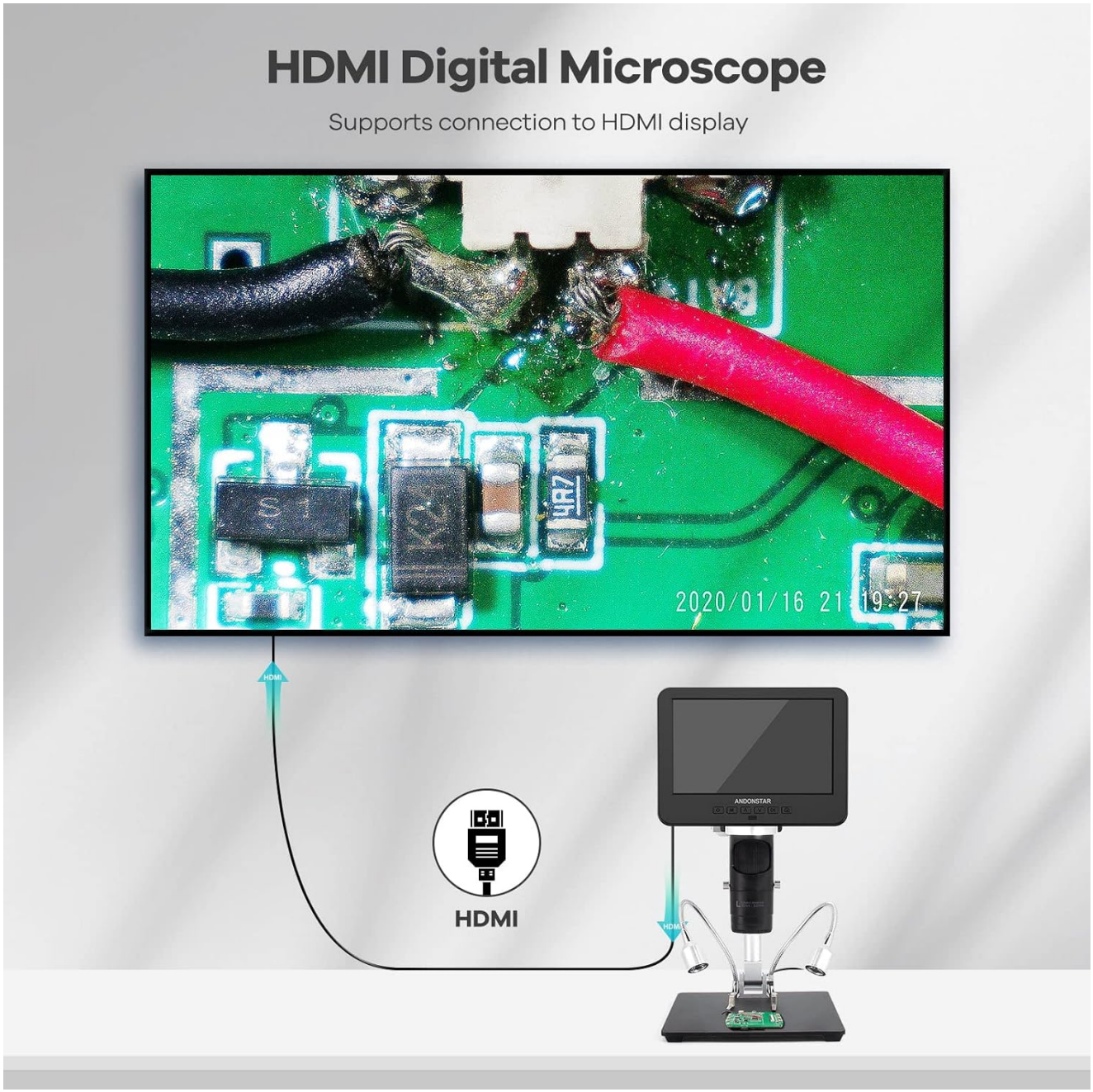


Figure 6: HDMI Digital Microscope Connection



Figure 7: USB Connection to a Computer

Magnification

Achieve up to 2000x magnification on an external 28-inch HDMI monitor, allowing for incredibly detailed observation of microscopic objects.

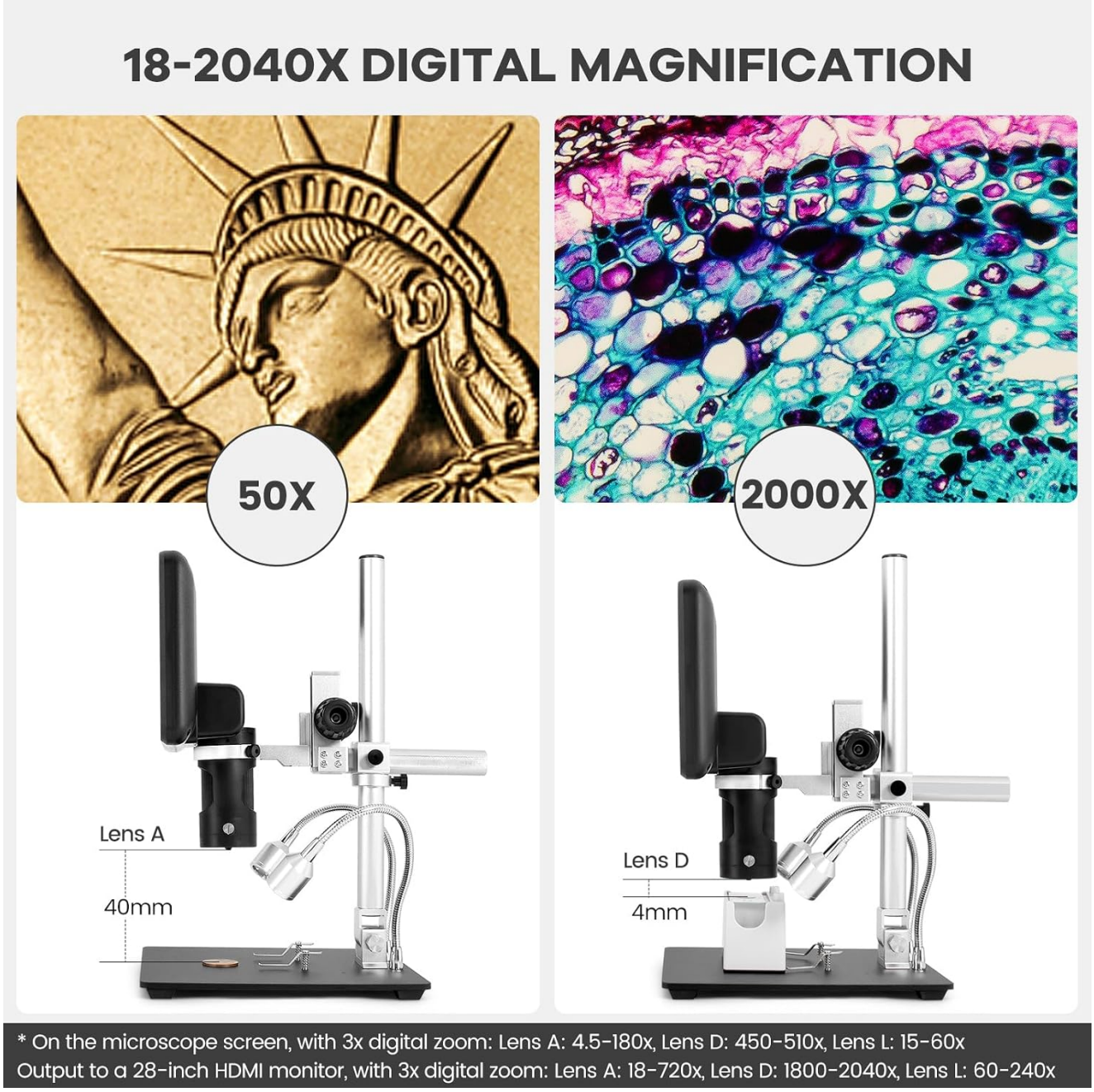


Figure 8: 18-2040x Digital Magnification

Remote Control and Lighting

The included wireless remote control allows for convenient operation from a distance, supporting functions like image discoloration and digital zoom. The adjustable LED lights provide optimal illumination for various observation conditions.



Figure 9: Convenient Remote Control

Photo and Video Capture

Easily capture and store images or videos of your observations directly onto the provided 32GB Micro SD card. This allows for documentation, sharing, and further analysis of your microscopic findings.



Figure 10: Photo and Video Storage

Maintenance

To ensure the longevity and optimal performance of your Andonstar AD246S-M digital microscope, follow these maintenance guidelines:

- **Cleaning Lenses:** Use a soft, lint-free cloth specifically designed for optical lenses. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth, not directly to the lens.
- **Cleaning Body:** Wipe the microscope body and stand with a dry or slightly damp soft cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** When not in use, store the microscope in a clean, dry, and dust-free environment. Keep it away from direct sunlight and extreme temperatures.
- **Handling:** Always handle the microscope with care. Avoid dropping it or subjecting it to strong impacts.

Troubleshooting

If you encounter any issues with your microscope, refer to the following common problems and solutions:

- **No Power:** Ensure the power adapter is securely connected to both the microscope and a working power outlet. Check the power switch on the microscope.
- **Blurry Image:** Adjust the focusing wheel on the microscope. Ensure the correct lens is installed for your desired working distance. Clean the lens if smudges are present.
- **No Display on External Monitor:** Verify the HDMI or USB cable connection. Ensure the external monitor is set to the correct input source. Check the microscope's output settings.
- **Remote Control Not Responding: Ensure there are no obstructions between the remote and the microscope's sensor. Check the remote's battery.**
- **Cannot Save Photos/Videos: Ensure the 32GB Micro SD card is properly inserted and not full. Check the card's write-protection switch.**

If the problem persists, please contact customer support for assistance.

Specifications

Feature	Detail
Brand	Andonstar
Model Name	AD246S-M
Product Dimensions	7.8 x 7 x 13 inches (12.99"L x 6.69"W x 11.02"H)
Item Weight	4.95 pounds (2.25 Kilograms)
Magnification Maximum	2040x (on 28-inch HDMI monitor)
Display	7-inch LCD
Video Record Resolution	2160P UHD

Feature	Detail
Light Source Type	LED
Material	Metal stand, HDMI output, Windows PC output
Date First Available	May 9, 2022

Warranty and Support

Andonstar provides 24-hour professional after-sales service for this product. For any inquiries or support needs, please refer to the contact information provided with your purchase or visit the official Andonstar website.
Protection plans are available for extended coverage:

- **2-Year Protection Plan**
- **3-Year Protection Plan**
- **Complete Protect (monthly plan)**

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

Anonymous

Email

you@example.com

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