

[Manuals.plus](#) /

› [Andonstar](#) /

› Andonstar ADSM201 HDMI Digital Microscope User Manual

Andonstar ADSM201

Andonstar ADSM201 HDMI Digital Microscope User Manual

Model: ADSM201

INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Andonstar ADSM201 HDMI Digital Microscope. Designed with a 3MP HD sensor and an industrial lens, this microscope is suitable for various applications including PCB inspection, CPU and SMT soldering, phone repair, jewelry appraisal, antique authentication, and observation of plants and insects. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

PRODUCT OVERVIEW

Key Features

- **4X Digital Zoom & 300X Magnification:** Offers a wide range of magnification for detailed observation.
- **Sufficient Working Distance:** Focus range from 4cm to 15cm provides ample space for various tasks.
- **Deep Depth of Field:** Exclusive lens and 3MP HD sensor ensure clear images with significant depth.
- **Adjustable LED Fill Lights:** Two built-in LED lights with adjustable angles and brightness to reduce stray light and enhance image quality.
- **UV Filter:** Protects the lens and reduces parasitic light, beneficial during soldering processes.
- **Durable Metal Stand:** Freely adjustable metal stand for precise positioning and optimal viewing.

Components

The Andonstar ADSM201 microscope system includes the main microscope unit with an integrated display, an adjustable metal stand, two flexible LED fill lights, and a USB power cable.

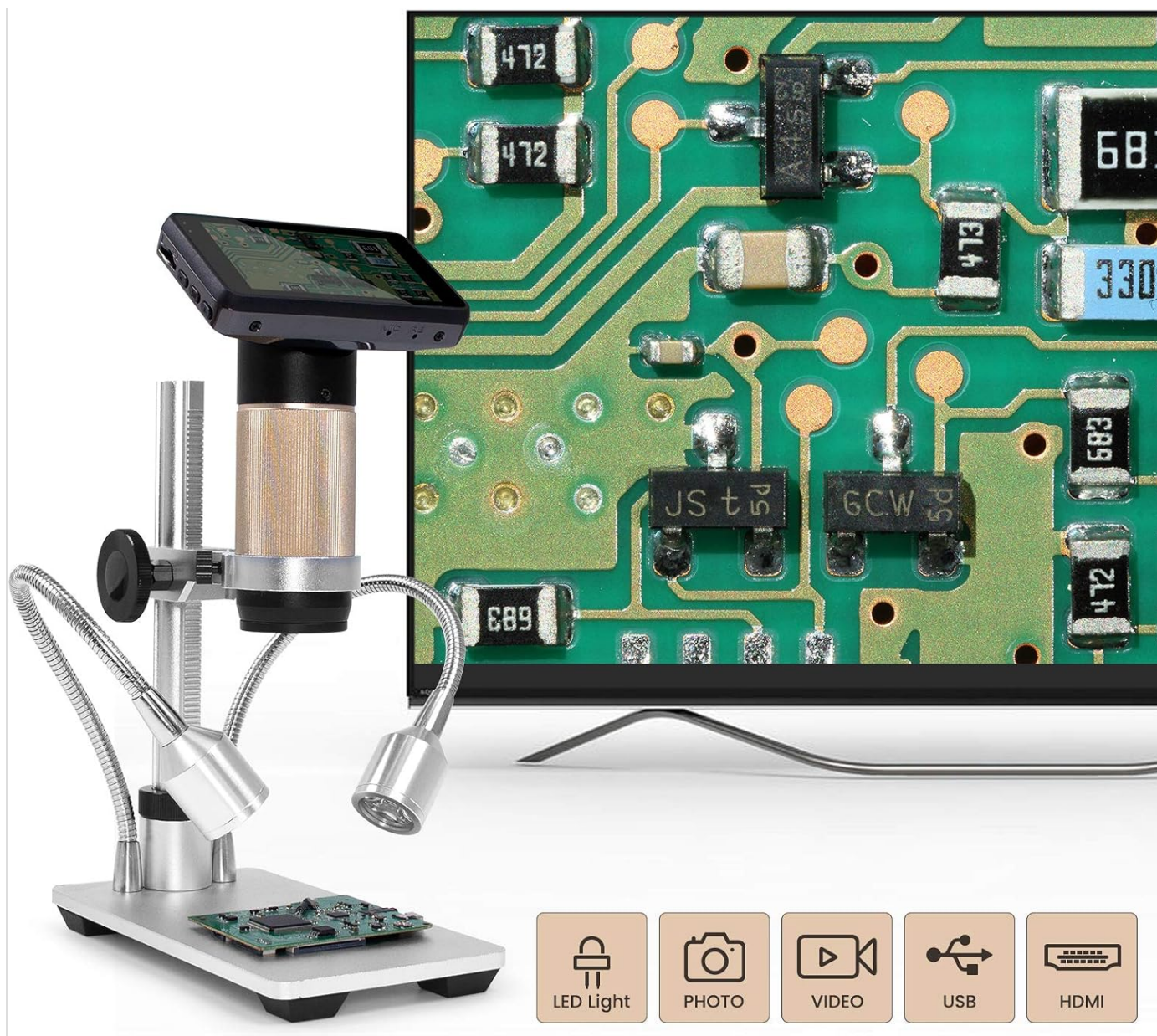


Figure 1: Andonstar ADSM201 HDMI Digital Microscope in use, showing a circuit board magnified on an external display. The microscope unit is mounted on its stand with two adjustable LED lights illuminating the specimen.



Figure 2: The ADSM201 microscope highlighting its versatility for tasks such as PCB inspection and intricate watch repair, showcasing the detailed view it provides.

SETUP

1. **Unpack Components:** Carefully remove all components from the packaging: the microscope unit, metal stand base, vertical support rod, adjustable bracket, and LED lights.
2. **Assemble the Stand:**
 - a. Insert the vertical support rod into the designated hole on the metal stand base and secure it with the provided screw or knob.
 - b. Attach the adjustable bracket to the vertical support rod. This bracket will hold the microscope unit.
3. **Mount the Microscope Unit:** Slide the microscope unit into the adjustable bracket and tighten the securing knob to hold it firmly in place.
4. **Attach LED Lights:** Insert the flexible LED fill lights into the ports on the stand base. Position them to illuminate the area under the microscope.

5. **Connect Power:** Connect the USB power cable to the microscope unit and then to a suitable 5V USB power adapter (not always included) or a powered USB port.
6. **Connect to Display (Optional):** For external viewing, connect an HDMI cable from the microscope's HDMI output port to an HDMI input on a monitor or TV. Alternatively, connect a USB cable to a computer for software-based viewing (software may be required, refer to manufacturer's website).



Figure 3: The fully assembled Andonstar ADSM201 microscope, showing the main unit, adjustable stand, and flexible LED lights.



Figure 4: The ADSM201 microscope unit and stand, with the USB power cable clearly visible for connection.

OPERATING INSTRUCTIONS

1. **Power On:** Once connected to power, press the power button on the microscope unit to turn it on. The integrated display will activate.
2. **Place Specimen:** Place the object you wish to observe on the base plate directly under the microscope lens.
3. **Adjust Height and Focus:**
 - a. Loosen the knob on the adjustable bracket and slide the microscope unit up or down the vertical rod to get a rough focus.
 - b. Use the fine-focus knob on the microscope unit itself to achieve a sharp image.
4. **Adjust LED Lights:** Bend the flexible arms of the LED lights and adjust their brightness using the controls on the

light units to ensure optimal illumination without glare.

- 5. **Digital Zoom:** Use the digital zoom buttons on the microscope unit to increase or decrease the magnification beyond the optical zoom.
- 6. **Image/Video Capture:** The microscope unit typically has buttons for capturing still images or recording video. Refer to the on-screen menu or specific button labels for these functions. Captured media is usually saved to a microSD card (not included).
- 7. **External Display (HDMI/USB):**
 - a. If connected via HDMI, the microscope's view will be mirrored on the external monitor. Ensure the monitor is set to the correct HDMI input.
 - b. If connected via USB to a computer, you will need compatible software (often provided by the manufacturer or available for download) to view and control the microscope.
- 8. **Power Off:** Press and hold the power button to turn off the microscope.

Your browser does not support the video tag.

Video 1: Demonstration of the Andonstar ADSM201 HDMI Digital Microscope in operation, showing a circuit board being examined and magnified on an external display. This video illustrates the clarity and detail provided by the microscope.

MAINTENANCE

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses to gently clean the microscope lens. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth, not directly to the lens.
- **Cleaning the Body:** Wipe the microscope body and stand with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the microscope in a clean, dry, and dust-free environment. Consider using a dust cover.
- **UV Filter:** Ensure the UV filter is clean and free from scratches to maintain optimal image quality and lens protection.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Microscope does not turn on.	Power cable not connected properly; faulty power adapter; power button not pressed correctly.	Check all power connections. Ensure the USB power adapter is functional. Press and hold the power button for a few seconds.
Image is blurry or out of focus.	Incorrect focus adjustment; microscope too high/low; dirty lens.	Adjust the fine-focus knob. Adjust the height of the microscope unit on the stand. Clean the lens carefully.
Image is too dark or too bright.	LED lights not adjusted; ambient lighting issues.	Adjust the brightness and angle of the LED fill lights. Ensure appropriate ambient lighting.

Problem	Possible Cause	Solution
No image on external HDMI monitor.	HDMI cable not connected; monitor input not selected; monitor resolution incompatibility.	Ensure HDMI cable is securely connected. Select the correct HDMI input on your monitor. While the microscope supports HDMI output, actual display resolution may vary depending on the monitor's capabilities and settings.
Cannot connect to computer via USB.	USB cable issue; missing drivers/software; incorrect USB port.	Try a different USB cable or port. Install the necessary drivers or viewing software from the manufacturer's website.

SPECIFICATIONS

Feature	Detail
Model Number	ZXR-201-EU
Magnification Maximum	300x
Digital Zoom	4x
Sensor	3MP HD
Focus Range	4cm to 15cm
Light Source Type	LED (2 adjustable fill lights)
Material	Metal
Item Weight	1.04 kg
Voltage	5 volts
Power Source	Corded Electric
Compatible Devices	Laptop, Television
Objective Lens Description	Achromatic
Real Angle of View	45 degrees
UPC	616361266612

WARRANTY INFORMATION

Specific warranty details for the Andonstar ADSM201 microscope are typically provided with the product packaging or available on the official Andonstar website. Please refer to these resources for information regarding warranty duration, coverage, and claims procedures.

SUPPORT

For technical assistance, product inquiries, or further support, please visit the official Andonstar website or contact their customer service department. Contact information can usually be found on the product packaging or on the manufacturer's website.

You can also visit the [Andonstar Store on Amazon](#) for additional product information and resources.

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