**Andonstar AD210, AD115**

# Andonstar AD210 & AD115 User Manual

Digital Microscope System and Portable Handheld Microscope

## 1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Andonstar AD210 10.1 Inch LCD Digital Microscope and Andonstar AD115 Portable Handheld Microscope with Flexible Boom Arm Stand. Please read this manual thoroughly before using the products to ensure proper functionality and longevity.




Figure 1.1: Andonstar AD210 Digital Microscope and AD115 Handheld Microscope with Boom Arm Stand.

## Product Features

- **AD210 Digital Microscope:** Features a 10.1-inch IPS display with a 178° viewing angle, supporting 1080P video and 12MP photo capture.
- **Enhanced Coin Viewing:** The AD210 includes an upgraded 10.2-inch working distance metal stand, ideal for observing large coins like 38.1 mm (1.5 in) silver dollars.
- **Electronics Repair:** The AD210 provides ample working space and durability, making it suitable for various soldering and electronics repair tasks.
- **AD115 Portable Handheld Microscope:** Offers 2-in-1 flexibility, functioning as a portable handheld microscope or attaching to a flexible boom arm stand.
- **Ultimate Positioning Flexibility (AD115 Stand):** The boom arm stand provides 360-degree rotation and a maximum extension of 27.5 inches (70 cm) for precise positioning.

## 2. Package Contents

Before proceeding with setup, please verify that all components are present in your package:

- Andonstar AD210 Digital Microscope Unit (with 10.1-inch LCD and stand)
- Andonstar AD115 Portable Handheld Microscope Unit
- Flexible Boom Arm Stand for AD115
- Power Adapter
- USB Cable
- Remote Control (for AD210)
- 32GB MicroSD Card
- 5 Biological Glass Slides
- User Manual (this document)




Figure 2.1: Andonstar AD210 Digital Microscope and its accessories, including the remote control, 32GB SD card, and biological slides.

# 3. Setup Guide

## 3.1. Andonstar AD210 Digital Microscope Assembly

1. Unpack all components of the AD210 microscope.
2. Attach the microscope unit to the metal stand, ensuring it is securely fastened.
3. Connect the power adapter to the microscope and plug it into a power outlet.
4. Insert the provided MicroSD card into the designated slot on the microscope unit.
5. Adjust the flexible LED lights on the stand to illuminate your observation area.

### 3.2. Andonstar AD115 Portable Handheld Microscope and Boom Arm Stand Assembly

1. For handheld use, simply ensure the AD115 unit is charged or connected via USB.
2. To use with the boom arm stand, attach the clamp of the boom arm to a stable surface, such as a desk edge.
3. Securely mount the AD115 handheld microscope onto the end of the boom arm. Ensure the connection is firm to prevent accidental drops.
4. Adjust the boom arm's joints and rotation to achieve your desired viewing angle and position.




Figure 3.1: The Andonstar AD115 in handheld configuration and mounted on its flexible boom arm stand, demonstrating its versatility.

## 4. Operating Instructions

### 4.1. Andonstar AD210 Digital Microscope Operation

1. **Power On/Off:** Press and hold the power button on the microscope unit or remote control to turn the device on or off.
2. **Focus Adjustment:** Rotate the focus wheel on the microscope body to achieve a clear image on the 10.1-inch IPS display.
3. **Magnification:** Adjust the distance between the lens and the object, and use the digital zoom functions if available, to change magnification.
4. **Photo/Video Capture:** Use the dedicated buttons on the unit or remote control to capture 12MP photos or record 1080P videos. Files will be saved to the inserted MicroSD card.
5. **Illumination:** Adjust the brightness and angle of the two flexible LED lights on the stand for optimal lighting of your subject.




Figure 4.1: The AD210's 10.1-inch IPS LCD display offers a wide 178-degree viewing angle, supporting high-resolution 12MP photos and 1080P video recording.

## Applications for AD210:

- **Coin Observation:** Position coins on the base. For larger coins like silver dollars (38.1 mm), ensure the monitor mounting ring is secured to the bottom of the lens for full view. The 10.2-inch working distance allows for observation of entire coins.




Figure 4.2: The AD210 is optimized for coin observation, providing a full view of various coin sizes, including large silver dollars, thanks to its extended working distance.

- **Electronics Repair:** The generous working distance and stable metal stand make the AD210 ideal for soldering and inspecting circuit boards.




Figure 4.3: The AD210 provides ample space and stability, making it a valuable tool for electronics repair and soldering tasks.

- **Biological Observation:** Use the included biological glass slides to explore microscopic structures.




Figure 4.4: The AD210 comes with five biological glass slides, allowing users to discover and share the micro-world, such as onion cells or insect parts.

## 4.2. Andonstar AD115 Portable Handheld Microscope Operation

The AD115 offers versatile usage modes:

- **Method 1: Table Support:** Place the microscope on a flat surface, using it as a stable base for observation.
- **Method 2: Handheld Mode:** Hold the microscope directly above the object you wish to observe. This is ideal for quick inspections or fieldwork.
- **Method 3: Flexible Boom Arm Stand:** Attach the AD115 to the boom arm stand for extended reach, precise positioning, and hands-free operation. The stand allows for 360-degree rotation and a maximum extension of 27.5 inches (70 cm).




Figure 4.5: The AD115 offers 2-in-1 flexibility, allowing it to be used with table support, as a handheld device, or mounted on the flexible boom arm stand.




Figure 4.6: The AD115's flexible boom arm stand provides ultimate positioning flexibility, with a maximum extension of 27.56 inches (70 cm) and 360-degree rotation.

## 5. Maintenance

- **Cleaning the Lens and Display:** Use a soft, lint-free cloth specifically designed for optical surfaces to clean the microscope lens and LCD display. Avoid abrasive materials or harsh chemicals.
- **General Cleaning:** Wipe the body of the microscopes and stands with a dry or slightly damp cloth. Ensure no liquid enters the electronic components.
- **Storage:** Store the microscopes in a clean, dry environment, away from direct sunlight, extreme temperatures, and excessive dust. Use protective covers if available.
- **Battery Care (AD115):** If the AD115 has an internal rechargeable battery, ensure it is charged regularly, especially if stored for long periods, to maintain battery health.

## 6. Troubleshooting

- **No Power:** Ensure the power adapter is securely connected to the AD210 and the power outlet. For AD115, check battery charge or USB connection.
- **Blurry Image:** Adjust the focus wheel carefully. Ensure the object is within the microscope's working distance. Clean the lens if smudges are present.
- **Screen is Blank/No Image:** Check power connection. Ensure the microscope unit is properly connected to the display (AD210). Restart the device.
- **Cannot Capture Photo/Video:** Verify that a MicroSD card is inserted correctly and has sufficient free space. Check if the card is locked (read-only).
- **Remote Control Not Responding:** Check the battery in the remote control. Ensure there are no obstructions between the remote and the microscope's IR receiver.

## 7. Specifications

| Feature | Specification |
|---|---|
| Model Names | AD210, AD115 |
| Brand | Andonstar |
| Display (AD210) | 10.1 Inch IPS LCD (178° viewing angle) |
| Photo Resolution (AD210) | 12MP |
| Video Resolution (AD210) | 1080P |
| Working Distance (AD210) | Upgraded 10.2 inches (metal stand) |
| Boom Arm Extension (AD115) | Max 27.5 inches (70 cm) |
| Boom Arm Rotation (AD115) | 360 degrees |
| Light Source Type | LED |
| Material | Metal |
| Color | Black |

## 8. Warranty and Support

Andonstar products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official Andonstar website. In case of any issues or for technical support, please contact Andonstar customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

**Manufacturer:** Andonstar Technology Co., Ltd

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**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

### Answered questions about this manual

**I am considering purchasing the Andonstar AD210, but the power voltage is listed as AC 240V. Can it be used with AC 100V in Japan?**

Based on the product specifications for the Andonstar AD210, the device is powered via a USB cable and a Power Adapter. Most modern digital microscope power adapters are "universal switching" adapters (input: 100V-240V), which...

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