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› Andonstar AD206 LCD Digital Microscope User Manual

Andonstar AD206-BLACK

Andonstar AD206 LCD Digital Microscope User Manual

Model: AD206-BLACK | Brand: Andonstar

1. INTRODUCTION

The Andonstar AD206 LCD Digital Microscope is designed for detailed observation and precision work, particularly in electronics repair, soldering, and examination of small objects. It features a 7-inch display, adjustable magnification up to 200X, and integrated lighting to provide clear and stable images for various applications. This manual provides comprehensive instructions for setting up, operating, and maintaining your AD206 digital microscope, ensuring optimal performance and longevity.



Figure 1.1: User engaged in electronics work using the Andonstar AD206 digital microscope, demonstrating its application in detailed tasks.

Applications

- Electronics repair and soldering (e.g., circuit boards, phone components)
- Jewelry and antique examination
- Coin and stamp inspection
- Textile analysis
- Observation of plants and insects
- Watch repair



Figure 1.2: Visual representation of the diverse applications for the AD206 digital microscope, highlighting its versatility across different fields.

2. PRODUCT OVERVIEW

2.1 Components

The Andonstar AD206 digital microscope typically includes the following components:

- Digital Microscope Unit with 7-inch LCD Display
- Adjustable Stand
- Remote Controller
- USB Power Cable
- External LED Lights (2 units)

- User Manual (this document)
- CR2 battery for remote (included)



Figure 2.1: All standard components included with the Andonstar AD206 digital microscope, ready for assembly and use.

2.2 Key Features

- **High-Quality Optics:** Equipped with a high-quality lens and sensitive CMOS sensor for excellent image clarity and depth. A UV filter on the lens helps reduce reflection.
- **7-inch Adjustable Display:** Provides a large, clear view of magnified objects, allowing for comfortable observation and adjustment for optimal viewing angles.
- **Adjustable Stand:** Allows for precise positioning of the microscope unit relative to the object, with a focus range of 2-17 cm.
- **Image Rotation:** Utilize the remote controller to rotate the image on the screen, eliminating the need to physically move the object during observation or repair.
- **Dual Lighting System:** Features 8 built-in adjustable LED lights around the lens and 2 additional adjustable LED lights on the stand, ensuring adequate and customizable illumination.
- **Capture & Recording:** Easily capture still images and record videos using the remote controller or buttons on the display. Files can be saved to a micro SD card (not included, supports up to 32GB).



Figure 2.2: The AD206 microscope unit with its remote control, illustrating the primary components for operation.



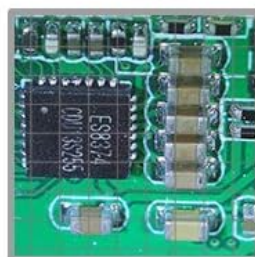
Figure 2.3: The microscope unit being held, showcasing its design and the capability for observing objects with a perceived 3D effect.



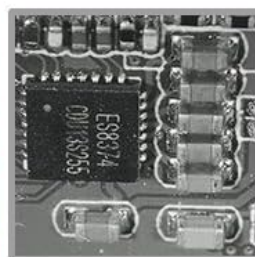
Image rotation



Inverted



Line Setting Black & white



FUNCTIONAL REMOTE

Figure 2.4: The remote control and screen interface, highlighting the image rotation and display adjustment functions.



Figure 2.5: Detailed view of the microscope's lens assembly, illustrating the integrated 8 LED lights and UV filter.

3. SETUP

3.1 Assembly

1. Carefully unpack all components from the packaging.
2. Attach the microscope unit to the adjustable stand. Ensure it is securely fastened.
3. Connect the two external LED lights to their designated ports on the stand base.
4. Insert the CR2 battery into the remote controller.

3.2 Power Connection

Connect the USB power cable to the microscope unit's USB port and then to a compatible 5V power adapter (not included) or a personal computer. The external LED lights are powered separately via their own connection to the main power supply.



Figure 3.1: Overview of the microscope's ports and power connections, detailing where to connect the USB power and external LED lights.

3.3 Initial Power On

Once assembled and powered, press the power button on the microscope unit to turn it on. The 7-inch LCD display will illuminate.



Figure 3.2: Front view of the microscope display, indicating button functions for power, mode, navigation, capture, and LED adjustment.

4. OPERATING INSTRUCTIONS

4.1 Focusing and Magnification

Adjust the height of the microscope unit on the stand to change the focus and magnification. The optimal focus range is between 2 cm and 17 cm from the object. Rotate the focus wheel on the microscope unit for fine-tuning the image clarity.

Focus Range 2-17cm



Figure 4.1: Illustration of the microscope's adjustable working distance, allowing for a focus range from 2cm to 17cm.

4.2 Adjusting LED Lights

The microscope features both built-in LEDs around the lens and two external adjustable LED lights. Use the dedicated buttons on the display or the remote controller to adjust the brightness of these lights for optimal illumination of your subject.

4.3 Image and Video Capture

To capture an image or record a video, press the corresponding button on the display or the remote controller. Ensure a micro SD card (not included) is inserted into the memory card slot on the back of the display unit to save your recordings.

4.4 Image Rotation

The remote controller allows for convenient image rotation on the screen. This feature is useful for adjusting the viewing orientation without disturbing the object being observed.

4.5 Video Demonstration

Watch this official video from Andonstar Technology Co., Ltd. demonstrating the AD206 Digital Microscope in action, including its capabilities for detailed observation of circuit boards and other small components.

Video 4.1: An official demonstration of the Andonstar AD206 Digital Microscope, showcasing its high-resolution imaging and practical use for inspecting electronic components.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Andonstar AD206 digital microscope.

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the microscope lens. Avoid abrasive materials or harsh chemicals.
- **Cleaning the Display:** Wipe the 7-inch LCD display with a soft, dry cloth. For stubborn smudges, a slightly dampened cloth with water can be used, followed by immediate drying.
- **Dust Protection:** When not in use, cover the microscope with a dust cover to prevent dust accumulation on the lens and internal components.
- **Storage:** Store the microscope in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** If the remote controller's battery (CR2) runs low, replace it with a new one to ensure continued functionality.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your AD206 digital microscope.

Problem	Possible Cause	Solution
No image on screen / Power off	Power cable not connected; Power button not pressed; Faulty power adapter.	Ensure power cable is securely connected. Press the power button. Try a different 5V USB power adapter.
Blurry image	Incorrect focus; Object too close/far; Dirty lens.	Adjust the height of the microscope unit. Rotate the focus wheel for fine adjustment. Clean the lens with an optical cleaning cloth.
Image too dark/bright	LED brightness setting is incorrect.	Adjust the brightness of the built-in and external LED lights using the display buttons or remote controller.
Cannot capture images/videos	No micro SD card inserted; SD card full or corrupted.	Insert a micro SD card (max 32GB). Format the SD card or use a new one if full/corrupted.
Remote controller not working	Battery low or dead; Remote not pointed at IR receiver.	Replace the CR2 battery. Ensure the remote is pointed towards the infrared receiver on the microscope unit.

7. SPECIFICATIONS

Feature	Detail
Model Number	AD206-BLACK
Display Size	7 inches
Magnification	Up to 200X
Focus Range	2 cm - 17 cm
Lighting	8 built-in LEDs, 2 external adjustable LEDs
Power Source	5 Volts (USB powered)
Remote Battery	1 CR2 battery (included)
Storage	Micro SD card (up to 32GB, not included)
Product Dimensions	7.87 x 4.72 x 7.48 inches
Item Weight	2.99 pounds
Color	Black

8. WARRANTY AND SUPPORT

The Andonstar AD206 digital microscope comes with a one-year warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards.

For technical support, warranty claims, or any inquiries regarding your product, please contact Andonstar customer service through their official website or the retailer where the product was purchased. Please have your model number (AD206-BLACK) and purchase details ready when contacting support.

For more information and resources, visit the official Andonstar Store:[Andonstar Official Store](#)