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› Cainda HD 4K Digital Microscope User Manual

cainda AX-201

Cainda HD 4K Digital Microscope User Manual

Model: AX-201

INTRODUCTION

Thank you for purchasing the Cainda HD 4K Digital Microscope. This portable and versatile microscope is designed for detailed observation and analysis, offering high-resolution imaging and video capabilities. It supports wireless connection to smartphones and tablets, and wired connection to PCs, making it suitable for a wide range of applications including circuit board repair, coin and jewelry inspection, insect and plant observation, and educational purposes. Please read this manual thoroughly to ensure proper use and maintenance of your device.



Image: The Cainda HD 4K Digital Microscope being used to examine a coin, with the magnified image displayed on a computer monitor and a smartphone.

PACKAGE CONTENTS

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

- Cainda HD 4K Digital Microscope (Model: AX-201)
- Adjustable Stand
- USB Charging Cable
- Protective Lens Cover
- User Manual



Image: All components included in the product package: the microscope, its stand, a USB charging cable, and the user manual.

PRODUCT OVERVIEW

Familiarize yourself with the main components of your digital microscope:

- **Microscope Body:** Main unit containing the camera, battery, and controls.
- **Focus Ring:** Large grey ring for adjusting image clarity.
- **LED Brightness Dial:** Controls the intensity of the 8 built-in LED lights.
- **Power/Shutter Button:** Turns the device on/off and captures photos.
- **Zoom Buttons (+/-):** Adjusts digital magnification (1-2X).
- **USB Charging Port:** For charging the internal battery and wired PC connection (Micro USB).
- **Adjustable Stand:** Provides stability for hands-free observation.



Image: The portable design of the microscope, emphasizing its small size, upgraded internal chip, and long-lasting battery.



Image: An internal view showing the optical components and the arrangement of the 8 adjustable LED lights.

SETUP

1. Charging the Microscope

Before first use, fully charge the microscope. Connect the supplied USB charging cable to the microscope's Micro USB port and the other end to a standard USB power adapter (not included) or a computer's USB port. The built-in 900mAh battery provides over three hours of continuous use on a full charge.



Image: A digital representation of the microscope's battery level indicator.

2. Software Installation

To view images and videos from the microscope, you need to install the appropriate software on your device.

- **For iPhone/Android Phone/Tablet:** Download the "WIFI Check" app from your device's app store (Google Play Store for Android, Apple App Store for iOS). Alternatively, scan the QR code provided in the physical user manual to directly access the app.
- **For Windows PC (XP/7/8/10/11) & Mac PC:** Drivers and software can typically be found on the manufacturer's website or a mini-CD (if included). Follow the on-screen instructions for installation.

3. Connecting the Microscope

Wireless Connection (Smartphones/Tablets)

1. Power on the microscope by pressing and holding the Power button.
2. On your smartphone or tablet, go to Wi-Fi settings.
3. Locate and connect to the Wi-Fi network named "HD Microscope" (or similar, refer to your device's specific Wi-Fi name). No password is typically required.
4. Open the "WIFI Check" app. The live view from the microscope should now appear.

WiFi connect with smart phone and tablet
Stable data transfer without delay
900mAh Built-in battery



Image: The microscope demonstrating wireless connectivity with a smartphone and tablet, indicating stable data transfer.



Image: A visual guide showing the wireless connection setup for mobile devices like iPhones, Android phones, iPads, and Android tablets.

Wired Connection (PC)

1. Ensure the necessary drivers and software are installed on your PC.
2. Connect the microscope to your PC using the supplied USB cable.
3. Power on the microscope.
4. Open the installed microscope software on your PC. The live view should appear.

Wired connect with PC (Mac and Windows) Support 3840x2160P display MAX



Image: The microscope connected via USB to a laptop, showing a magnified view of a leaf on the screen.



Image: A visual guide demonstrating the wired USB connection setup for Windows and Mac operating systems.

OPERATING INSTRUCTIONS

Power On/Off

Press and hold the Power button for a few seconds to turn the microscope on or off.

Adjusting LED Brightness

Rotate the LED Brightness Dial located on the microscope body to increase or decrease the illumination of the object. Adjust as needed to achieve optimal viewing conditions and minimize glare.

Focusing

Gently rotate the large grey Focus Ring until the image on your screen becomes clear and sharp. Adjusting the distance between the microscope lens and the object can also help achieve focus.

Zooming (Digital Magnification)

Use the '+' and '-' buttons on the microscope body to digitally zoom in or out. This feature provides additional magnification up to 2X beyond the optical magnification. Note that excessive digital zoom may reduce image clarity.

Capturing Photos and Videos

- **Photos:** While viewing the live feed, briefly press the Power/Shutter button on the microscope, or tap the camera icon within the app/software to capture a still image.
- **Videos:** Tap the video recording icon within the app/software to start and stop video recording. Recorded media will be saved to your connected device's gallery or designated folder.

Using the Adjustable Stand

For stable, hands-free observation, attach the microscope to the provided adjustable stand. This allows for precise positioning and consistent viewing angles, especially useful for prolonged inspection or when working with small, delicate objects.

APPLICATIONS

The Cainda HD 4K Digital Microscope is a versatile tool suitable for various fields:

- **Electronics:** Inspecting circuit boards, soldering points, and small electronic components.
- **Collections:** Examining coins, stamps, jewelry, and other collectibles for authenticity and detail.
- **Biology/Nature:** Observing insects, plants, and other biological specimens.
- **Education:** An excellent tool for students and educators to explore the microscopic world.
- **Industrial Inspection:** Quality control and detailed examination of materials and products.



Image: Demonstrations of the microscope's diverse applications, including examining jade, coins, pet fur, and intricate clock movements.



Image: Magnified view of a feather, showing intricate details.



Image: Magnified view of a leaf, revealing its cellular structure.



Image: Magnified view of a coin, highlighting fine engravings.

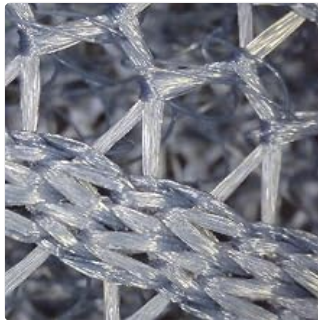


Image: Magnified view of fabric, showing its woven texture.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the microscope body. For the lens, use a lens cleaning cloth and solution specifically designed for optical surfaces. Avoid abrasive materials or harsh chemicals.
- **Storage:** Store the microscope in a cool, dry place, away from direct sunlight and extreme temperatures. Always replace the protective lens cover when not in use to prevent dust and scratches.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. If storing for an extended period, charge the battery to about 50% every few months.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on screen / App not connecting.	◦ Microscope not powered on. ◦ Incorrect Wi-Fi connection (for mobile). ◦ Drivers/software not installed or running (for PC). ◦ Low battery.	◦ Press and hold the Power button to turn on. ◦ Ensure you are connected to the "HD Microscope" Wi-Fi network. ◦ Verify software installation and launch the correct application. ◦ Charge the microscope.
Image is blurry.	◦ Improper focus. ◦ Incorrect distance from object. ◦ Lens is dirty.	◦ Rotate the Focus Ring until the image is clear. ◦ Adjust the distance between the microscope and the object. ◦ Clean the lens with a suitable lens cleaning cloth.
LED lights are too dim or too bright.	◦ LED brightness not adjusted.	◦ Rotate the LED Brightness Dial to adjust illumination.
Cannot capture photos/videos.	◦ App/software issue. ◦ Insufficient storage on device.	◦ Restart the app/software. ◦ Check available storage on your phone/PC.

SPECIFICATIONS

Feature	Detail
Model Number	AX-201
Resolution	Up to 3840x2160P (4K) video, 8MP image
Connectivity	Wi-Fi (for iOS/Android), USB (for Windows/Mac)
Battery Capacity	900mAh (Built-in Lithium Polymer)
Working Time	More than 3 hours (after full charge)
LED Lights	8 adjustable LEDs
Magnification (Maximum)	1000x
Product Dimensions	3.81 x 3.81 x 13.21 cm; 41 g
Material	Metal
Color	Silver Or Black

WARRANTY AND SUPPORT

Cainda products are manufactured to high quality standards. For warranty information, technical support, or customer service inquiries, please refer to the contact details provided on the product packaging or the official Cainda website. Please retain your proof of purchase for warranty claims.

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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

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