ILIHOME A7

ILIHOME Dual Lens Endoscope A7 User Manual

Model: A7 | Brand: ILIHOME

1. Introduction

This manual provides detailed instructions for the safe and effective operation of your ILIHOME Dual Lens Endoscope, Model A7. Please read this manual thoroughly before using the device and retain it for future reference. This endoscope is designed for visual inspection in hard-to-reach areas, featuring a dual-lens camera, a 4.3-inch IPS screen, and a 16.5ft semi-rigid cable.

2. Key Features

- **7.9mm Dual Camera:** Equipped with two 1080p cameras. The front camera has a focus distance of 4-10cm, and the side camera has a focus distance of 2-6cm.
- **16.5ft Detachable Semi-Rigid Cable:** The cable can be detached from the main unit, allowing for replacement or use with different lengths and lens sizes (available separately from ILIHOME).
- **4.3 Inch IPS Screen:** Provides high resolution, realistic colors, and clear images from various viewing angles. The software is optimized for smooth display.
- **8+1 LED Lights:** Features 8 adjustable LED lights on the main camera and 1 high-intensity LED on the side camera for improved visibility in dark environments.
- **IP67 Waterproof Probe:** The camera probe is rated IP67, making it suitable for use in wet conditions.

3. Package Contents

Verify that all items are present in the package:

- ILIHOME Dual Lens Digital Borescope (Main Unit)
- 16.5ft Semi-Rigid Camera Cable (7.9mm dual lens)
- User Manual (this document)
- Micro USB Charging Cable
- Accessory Set (Hooks, Magnets)

- Storage Bag

4. Setup

1. **Charge the Device:** Before first use, fully charge the endoscope's main unit using the provided Micro USB cable and a standard USB power adapter (not included). The charging indicator will show progress.
2. **Connect the Camera Cable:**

   Align the connector of the camera cable with the input port on the main unit. Gently push until it clicks into place. Ensure a secure connection.



Image: The main unit of the ILIHOME endoscope with the detachable camera cable connected via USB. The cable is coiled next to the unit.

3. **Attach Accessories (Optional):** If needed, screw the hook or magnet accessory onto the tip of the camera probe for retrieving objects.

5. Operating Instructions

1. **Power On/Off:** Press and hold the power button (usually marked "ON/OFF") on the main unit to turn the device on or off. The 4.3-inch IPS screen will illuminate.



Image: A close-up of the ILIHOME endoscope's main unit, highlighting its 4.3-inch full-color IPS screen.

2. **Adjust LED Lights:** Use the dedicated light adjustment wheel or buttons on the main unit to increase or decrease the brightness of the LED lights on the camera probe. This helps illuminate dark inspection areas.



Image: The endoscope camera head with its LED lights active, demonstrating illumination. An inset shows the light intensity adjustment wheel and indicators for weak to strong light.

3. **Switch Between Front and Side Cameras:** The ILIHOME A7 features dual lenses. Press the camera switch button (often labeled with a camera icon or "M") to toggle between the front-view camera and the side-view camera.



Image: A diagram illustrating the endoscope probe within a pipe, showing the distinct fields of view for the front (A) and side (B) cameras, along with how these views appear on the endoscope's screen.



Image: An exploded diagram of the endoscope's camera head, detailing the internal components of both the front and side 1080P cameras.

4. **Capture Images/Videos:**
    - To take a photo, press the photo capture button (often marked with a camera icon).
    - To record video, press the video recording button (often marked with a video camera icon). Press again to stop recording.

    Captured media is typically saved to an inserted MicroSD card (not included) or internal memory, depending on the model.
5. **Review Media:** Access the gallery or playback mode on the device to review captured photos and videos.

6. Maintenance

- **Cleaning the Probe:** After each use, especially in dirty or wet environments, gently wipe the camera probe with a soft, damp cloth. For stubborn grime, a mild detergent can be used, followed by a clean, damp cloth. Ensure the probe is dry before storage.
- **Cleaning the Screen:** Use a soft, lint-free cloth to clean the IPS screen. Avoid abrasive materials or harsh chemicals.
- **Storage:** Store the endoscope and its accessories in the provided storage bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, charge the device regularly, even if not in frequent use. Avoid fully discharging the battery for extended periods.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery; Loose cable connection.	Charge the device fully; Ensure the camera cable is securely connected.
No image on screen.	Camera cable not connected; Camera lens obstructed.	Reconnect the camera cable; Clean the camera lens.

Problem	Possible Cause	Solution
Image is dark or unclear.	Insufficient LED light; Dirty lens; Incorrect focus distance.	Adjust LED brightness; Clean the camera lens; Ensure object is within 4-10cm (front) or 2-6cm (side).
Cannot switch between cameras.	Incorrect button press; Software glitch.	Press the camera switch button firmly; Restart the device.

8. Specifications

Brand	ILIHOME
Model Number	A7
Camera Diameter	7.9mm
Camera Resolution	1080p (Front & Side)
Front Camera Focus Distance	4-10 cm
Side Camera Focus Distance	2-6 cm
Cable Length	16.5 ft (5 meters)
Screen Size	4.3 Inch IPS
LED Lights	8 (Front) + 1 (Side) Adjustable LEDs
Water Resistance	IP67 (Probe)
Connectivity	USB (for charging/data transfer)
Item Weight	0.69 Kilograms
Package Dimensions	20.8 x 14.4 x 8.1 cm

9. Warranty and Support

ILIHOME provides a 1-year warranty for borescope cables. If your cable is damaged under any circumstances, you may be eligible for a replacement. For any questions, technical assistance, or warranty claims, please contact ILIHOME customer service. They provide 24-hour professional and attentive support.
Please refer to your purchase documentation or the ILIHOME official website for the most current contact information.

© 2026 ILIHOME. All rights reserved.

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