ILIHOME p80b

ILIHOME 5.5mm Dual Lens Endoscope Camera

Model: P80B

1. Introduction

Thank you for choosing the ILIHOME 5.5mm Dual Lens Endoscope Camera. This device is designed for detailed visual inspection in hard-to-reach areas, featuring a high-resolution IPS display and versatile dual camera system. Please read this manual thoroughly before operation to ensure proper use and maintenance.

Package Contents:

- ILIHOME Endoscope Camera Unit (Model P80B)
- 5.5mm Dual Lens Probe with 5m Semi-Rigid Cable
- USB Charging Cable
- 32GB TF Card (pre-installed or included separately)
- Accessory Kit (Magnet, Hook)
- User Manual

2. Safety Information

Please observe the following safety precautions to prevent injury or damage to the device:

- **Electrical Safety:** Use only the provided USB cable for charging. Do not attempt to open or modify the device's internal components.
- **Water Resistance:** The camera lens is waterproof, but the main display unit is**NOT water resistant**. Avoid exposing the display unit to liquids.
- **Temperature:** Do not operate or store the device in extreme temperatures.
- **Battery:** The device contains a rechargeable battery. Do not dispose of the battery in fire or expose

it to high heat.

- **Children:** Keep out of reach of children.
- **Intended Use:** This endoscope is for visual inspection purposes only. Do not use it for medical examinations or any other unintended applications.

3. Product Overview

The ILIHOME P80B endoscope camera features a compact design with a 4.5-inch IPS display for clear viewing and a flexible 5-meter semi-rigid cable for reaching confined spaces.



Figure 3.1: ILIHOME Endoscope Camera Main Unit

Key Features:

- **5.5mm Dual Lens Camera:** Integrates two cameras (front and side) into a slim 5.5mm lens, allowing for inspection in very small openings. Users can switch between front view, side view, or both simultaneously.
- **4.5-inch IPS Display:** Provides a high-resolution, realistic, and clear image from various viewing

angles.

- **6 + 1 Adjustable LEDs:** Six bright LEDs on the front camera and one on the side camera ensure clear visibility in dark environments. Brightness is adjustable.
- **5m Semi-Rigid Cable:** The flexible yet firm cable can be bent into various shapes to navigate complex inspection areas and maintains a stable image signal.
- **4000mAh Battery:** Built-in rechargeable battery provides extended operating time.
- **32GB TF Card:** Included for storing captured images and videos.



Figure 3.2: 5.5mm Dual Lens Camera vs. 8.0mm Lens
The 5.5mm dual lens allows access to narrower spaces compared to standard 8.0mm lenses.



Figure 3.3: Clear image on the 4.5-inch IPS display.
The 4.5-inch IPS display offers superior clarity and viewing angles.

4. Setup

4.1 Charging the Device

1. Connect the provided USB charging cable to the charging port on the endoscope display unit.
2. Connect the other end of the USB cable to a standard USB power adapter (not included) or a computer's USB port.
3. The charging indicator light will illuminate, typically red, during charging. It will change color or turn off when fully charged.
4. A full charge typically takes 3-4 hours and provides approximately 6 hours of continuous operation.



Figure 4.1: The device is equipped with a 4000mAh battery for extended use.

4.2 Inserting the TF Card

1. Locate the TF card slot on the side of the display unit.
2. Insert the provided 32GB TF card into the slot with the gold contacts facing down (or as indicated by the diagram near the slot) until it clicks into place.
3. To remove, gently push the card in until it springs out.

4.3 Powering On/Off

1. **To Power On:** Press and hold the Power button (usually marked with a power symbol) for a few seconds until the screen illuminates.
2. **To Power Off:** Press and hold the Power button again until the screen turns off.

5. Operating Instructions

5.1 Navigating the Interface

The device features several buttons for control:

- **Power Button:** On/Off.
- **OK/Confirm Button:** Confirms selections or takes a photo.
- **Menu Button (M):** Accesses settings and options.
- **Camera Switch Button:** Toggles between front camera, side camera, or both.
- **LED Brightness Adjustment:** Increases or decreases the brightness of the camera LEDs.
- **Up/Down/Left/Right Buttons:** Navigation within menus, image rotation.

5.2 Adjusting LED Brightness

The endoscope camera is equipped with adjustable LEDs to provide optimal illumination in various conditions.

1. While viewing live footage, locate the LED brightness adjustment buttons (often marked with a sun symbol or up/down arrows).
2. Press the appropriate button to increase or decrease the LED intensity until the desired brightness is achieved.



Figure 5.1: Adjusting LED brightness for optimal viewing.

5.3 Switching Camera Views

The dual-lens system allows for flexible viewing options:

1. Press the Camera Switch button (often marked with a camera icon or 'Mode').
2. Each press will cycle through the available modes: Front Camera Only, Side Camera Only, and Both Cameras (split-screen view).
3. Select the view most suitable for your inspection needs.

5.4 Capturing Images and Videos

1. **To Take a Photo:** While in live view, press the OK/Confirm button once. A capture icon will briefly appear on the screen, indicating a photo has been saved to the TF card.
2. **To Record Video:** Press and hold the OK/Confirm button for a few seconds to start video recording. A recording indicator (e.g., red dot or timer) will appear. Press and hold the OK/Confirm button again to stop recording.

5.5 Viewing Stored Media

1. Press the Menu button (M) to enter the main menu.
2. Navigate to the 'Gallery' or 'Playback' option using the directional buttons and press OK to select.
3. Browse through your saved photos and videos. Use the directional buttons to select and OK to view.

6. Maintenance

6.1 Cleaning

- **Camera Lens:** After each use, gently wipe the camera lens with a soft, dry cloth to remove any debris. For stubborn dirt, use a slightly damp cloth and then dry thoroughly.
- **Display Unit:** Clean the display screen and body with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Ensure the camera lens is dry before storing.



Figure 6.1: The camera lens is waterproof for easy cleaning and use in damp environments.

6.2 Storage

- Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep the endoscope probe coiled loosely to prevent damage to the cable.
- If storing for an extended period, ensure the battery is partially charged (around 50%) to prolong its lifespan.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully.

Problem	Possible Cause	Solution
No image on screen.	Cable not properly connected.	Ensure the endoscope cable is securely plugged into the display unit.
Image is blurry or dark.	Insufficient lighting; dirty lens.	Increase LED brightness. Clean the camera lens.
Cannot save photos/videos.	TF card full or not inserted correctly.	Check TF card insertion. Delete old files or replace TF card. Ensure TF card is not locked.
Device freezes.	Software issue.	Press and hold the power button for 10-15 seconds to force a restart.

8. Specifications

Feature	Specification
Brand	ILIHOME
Model Number	P80B
Camera Diameter	5.5 mm
Display Size	4.5 Inch IPS Screen
Cable Length	5 meters
LED Lights	6 (front) + 1 (side) adjustable LEDs
Battery Capacity	4000mAh (rechargeable)
Storage	32GB TF Card (included)
Hardware Interface	USB
Water Resistance Level	Camera lens waterproof; main unit NOT water resistant
Recording Modes	Image, Video
Color	Black
Package Dimensions	18.9 x 16 x 7.2 cm; 530 g

9. Warranty and Support

ILIHOME products are manufactured to high-quality standards. For warranty information, technical

support, or service inquiries, please refer to the contact information provided with your purchase or visit the official ILIHOME website. Please retain your proof of purchase for warranty claims.