



Manuals.plus /

› WINWEND /

› WINWEND Endoscope Camera User Manual

## WINWEND Grand 30-(2024 version)

# WINWEND Endoscope Camera User Manual

Model: Grand 30-(2024 version)

## 1. INTRODUCTION

This user manual provides detailed instructions for the proper setup, operation, and maintenance of your WINWEND Endoscope Camera. This device is designed for inspecting hard-to-reach areas, offering clear visual feedback on its integrated 4.3-inch LCD screen. Please read this manual thoroughly before using the product to ensure safe and efficient operation.



Figure 1: The WINWEND Endoscope Camera, showcasing its main unit, flexible cable, and included accessories.

## 2. PRODUCT FEATURES

- **4.3-inch Color LCD Screen:** Provides real-time, high-definition image viewing without the need for external devices or software.
- **1080P High-Resolution Camera:** Delivers clear and detailed visuals for effective inspection.
- **180° Image Rotation:** Allows for easy adjustment of the image orientation on the screen for optimal viewing angles.
- **8 Adjustable LED Lights:** Ensures clear visibility in dark or low-light environments, with adjustable brightness levels.
- **IP67 Waterproof Probe:** The camera probe and semi-rigid cable are rated IP67, making them suitable for use in wet and damp conditions.
- **16.5ft (5m) Semi-Rigid Cable:** Detachable and bendable cable for navigating narrow and complex spaces.
- **Ergonomic Design:** Lightweight and designed for comfortable one-handed operation.
- **Practical Accessories:** Includes a hook, magnet, and side mirror to enhance inspection capabilities.

# 4.3 INCH HD IPS SCREEN



4.3"HD Monitor



IPS Accurate Color



Black and  
White Mode



180° Rotation



Figure 2: Detailed view of the 4.3-inch HD IPS screen and its capabilities.



Figure 3: The IP67 waterproof camera probe with adjustable LED illumination.

### 3. WHAT'S IN THE BOX

Your WINWEND Endoscope Camera package includes the following items:

- WINWEND Digital Inspection Camera (4.3-inch LCD industrial endoscope)
- User Manual
- USB Charging Cable (charging plug not included)
- Hook Attachment
- Magnet Attachment
- Side Mirror Attachment

# Semi-Rigid Cord & Practical Accessories



Figure 4: Contents of the WINWEND Endoscope Camera package, including the main unit, cable, and accessories.

## 4. SETUP

### 4.1 Charging the Device

The endoscope camera comes with a built-in Lithium Ion battery. Before first use, or when the battery is low, charge the device using the provided USB charging cable.

1. Connect the small end of the USB charging cable to the charging port on the endoscope camera.
2. Connect the larger end of the USB cable to a standard USB power adapter (e.g., phone charger, computer USB port) or a power bank.
3. The charging indicator light will illuminate. A full charge typically takes approximately 2.5 hours.
4. Once fully charged, the device can operate for up to 3 hours.

### 4.2 Attaching the Semi-Rigid Cable

The 16.5ft semi-rigid cable is detachable for convenience.

1. Align the connector of the semi-rigid cable with the port on the main unit of the endoscope camera.
2. Gently push the cable connector into the port until it clicks securely into place.
3. To detach, press the release button (if present) or pull firmly but carefully on the connector.

### 4.3 Attaching Accessories

The hook, magnet, and side mirror accessories can be attached to the camera probe tip for specialized tasks.

1. Locate the threaded ring at the tip of the camera probe.
2. Select the desired accessory (hook, magnet, or side mirror).
3. Carefully screw the accessory onto the threaded ring until it is secure. Do not overtighten.

## 5. OPERATING INSTRUCTIONS



Figure 5: Control buttons and ports on the WINWEND Endoscope Camera.

### 5.1 Powering On/Off

- **Power On:** Press and hold the **POWER** button located on the front panel until the screen illuminates. The device is ready for use immediately after powering on.
- **Power Off:** Press and hold the **POWER** button again until the screen turns off.

## 5.2 Adjusting LED Brightness

The camera probe is equipped with 8 adjustable LED lights to illuminate the inspection area.

- Press the **Brighten Lights** button (sun icon with plus) to increase the LED brightness.
- Press the **Dim Lights** button (sun icon with minus) to decrease the LED brightness.

## 5.3 Image Rotation

To adjust the image orientation on the screen:

- Press the **180° Rotate** button (circular arrow icon) to rotate the image by 180 degrees. This is useful when the camera is in an inverted position.

## 5.4 Zoom Function

The device supports digital zoom to magnify the view.

- Press the **Zoom Button** (magnifying glass with plus) to zoom in.
- Press the **Zoom out button** (magnifying glass with minus) to zoom out.



Figure 6: Demonstration of the 2X zoom capability.

## 5.5 Black and White Mode

For certain inspection scenarios, a black and white view can enhance contrast.

- The device may have a dedicated button or a setting within the menu to switch between color and black & white display modes. Refer to the on-screen prompts if available.



Figure 7: Comparison of color and black & white display modes.

## 5.6 General Usage Tips

- For optimal image clarity, ensure the camera lens is clean.
- Adjust the LED brightness to avoid glare or underexposure in the inspection area.
- The focal range of the front camera is approximately 0.8 to 3.9 inches (2 to 10 cm). Position the camera within this range for the sharpest image.
- The semi-rigid cable can be bent and held in shape to navigate around obstacles.

# EASY TO USE



No Phone Needed



No Wi-Fi Needed



No APP Needed



Figure 8: Examples of wide applications for the endoscope camera.

## 6. MAINTENANCE

### 6.1 Cleaning

- **Camera Lens:** Gently wipe the camera lens with a soft, lint-free cloth. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth (not directly to the lens).
- **Cable and Main Unit:** Wipe the semi-rigid cable and the main unit with a damp cloth. Do not immerse the main unit in water.
- Ensure all parts are dry before storage.

### 6.2 Battery Care

- To prolong battery life, avoid fully discharging the battery frequently.
- If storing the device for an extended period, charge it to approximately 50% every few months.
- Use only the provided USB charging cable.

## 6.3 Storage

- Store the endoscope camera and its accessories in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep the cable neatly coiled to prevent kinks or damage.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	Low battery; Power button not pressed correctly	Charge the device fully; Press and hold the POWER button for a few seconds.
No image on screen	Cable not connected securely; Camera lens obstructed	Ensure the semi-rigid cable is firmly connected; Clean the camera lens.
Image is blurry or unclear	Object out of focal range; Insufficient lighting; Dirty lens	Adjust distance to object (0.8-3.9 inches); Increase LED brightness; Clean the camera lens.
LED lights are too dim/bright	Brightness setting incorrect	Use the Brighten/Dim Lights buttons to adjust brightness.
Device freezes or becomes unresponsive	Temporary software glitch	Press the Reset button (if available, typically a small pinhole) or power off and restart the device.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	Grand 30-(2024 version)
Screen Size	4.3 inches
Camera Resolution	1080P HD
Cable Length	16.5 ft (5 meters)
Cable Type	Semi-Rigid, Detachable
Water Resistance	IP67 (Probe)
LED Lights	8 Adjustable LEDs
Focal Range	0.8 - 3.9 inches (2 - 10 cm)
Battery Type	1 Lithium Ion (included)
Battery Capacity	2000mAh
Charging Time	Approx. 2.5 hours
Working Time	Approx. 3 hours
Item Weight	1.08 pounds
Package Dimensions	7.76 x 5.24 x 3.11 inches

## 9. SAFETY INFORMATION

- Do not use the device in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep the device away from strong magnetic fields.
- Do not attempt to disassemble or modify the device. Repairs should only be performed by qualified personnel.
- Avoid direct exposure of the camera lens to extremely high temperatures.
- Ensure the charging port is dry before connecting the USB cable.
- This device is not intended for medical use or internal human/animal inspection.
- Keep out of reach of children.

## 10. WARRANTY AND SUPPORT

WINWEND is committed to customer satisfaction. Your product is covered by a manufacturer's warranty against defects in materials and workmanship. For warranty claims, technical support, or any questions regarding your WINWEND Endoscope Camera, please contact our customer service team through the retailer's platform or visit the official WINWEND store page on Amazon:

**Visit the WINWEND Store on Amazon**

Please have your model number (Grand 30-(2024 version)) and purchase details ready when contacting support.