

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Walfront](#) /

› [Walfront Y102 USB IP67 Endoscope User Manual](#)

Walfront Y102

Walfront Y102 USB IP67 Endoscope User Manual

Comprehensive guide for your Y102 USB 3-in-1 Endoscope.

1. INTRODUCTION

The Walfront Y102 USB IP67 Endoscope is a versatile inspection camera designed for various applications, including industrial, automotive, and household inspections. Featuring a 5.5mm lens with 6 adjustable LED lights and a 5-meter cable, it provides clear visuals in dark or hard-to-reach areas. Its 3-in-1 USB design ensures wide compatibility with Android devices and computers.

Key features include:

- **Convenient and Practical:** 6 adjustable LED lights for improved visibility in dark environments.
- **Premium Quality:** Durable construction for long-term use.
- **Extensive Usage:** Compatible with Android devices and computers via its 3-in-1 USB connection.
- **Great Performance:** 2.0MP CMOS HD camera for enhanced image resolution and clarity.
- **Product Brief:** 5.5mm diameter lens, IP67 waterproof rating, and 5-meter USB cable.

2. PRODUCT COMPONENTS

The Y102 Endoscope package includes the main endoscope unit with its integrated cable and USB connector, along with several useful accessories.



Figure 2.1: The Walfront Y102 USB Endoscope, showing the camera head, control unit, coiled 5-meter cable, and the 3-in-1 USB connector (USB-A, Micro USB, USB-C).



Figure 2.2: The endoscope unit displayed with its standard accessories: a side mirror for angled viewing, a hook for retrieving objects, and a magnet for metallic items.

The control unit, located on the cable, features a button for capturing images and a rotary dial for adjusting the

brightness of the LED lights.



Figure 2.3: Detail of the control unit, highlighting the capture button and the integrated wheel for adjusting the intensity of the LED illumination.

3. SETUP INSTRUCTIONS

To begin using your Walfront Y102 Endoscope, follow these steps to connect it to your device:

1. **Install Application:** For Android devices, download and install a compatible endoscope application from your device's app store. Popular choices include "USB Camera", "OTG View", or "AN98". For Windows PCs, you may need to install a specific driver or use a webcam application.
2. **Connect Endoscope:** Plug the appropriate USB connector (USB-A, Micro USB, or USB-C) into your Android smartphone, tablet, or computer's USB port. Ensure your device supports OTG (On-The-Go) functionality for Android.
3. **Launch Application:** Open the installed endoscope application. The application should automatically detect the endoscope and display the live video feed.



Figure 3.1: Illustration of the endoscope connected to a smartphone (left) and a laptop (right), demonstrating its multi-device compatibility.

4. OPERATING INSTRUCTIONS

Once connected and the application is running, you can begin using your endoscope for inspection:

1. **Insert Endoscope:** Carefully insert the camera head into the area you wish to inspect. The flexible cable allows for navigation through tight spaces.
2. **Adjust LED Lights:** Use the rotary dial on the control unit to adjust the brightness of the 6 LED lights. Increase brightness in dark environments for clearer images.



Figure 4.1: The endoscope camera head with its 6 adjustable LED lights providing illumination for inspection.

3. **Capture Images/Videos:** Use the button on the control unit to take still photographs. Most applications also offer a record button within the software interface to capture video footage.
4. **Utilize Accessories:** Attach the side mirror for viewing at a 90-degree angle, the hook for retrieving small objects, or the magnet for picking up metallic items.

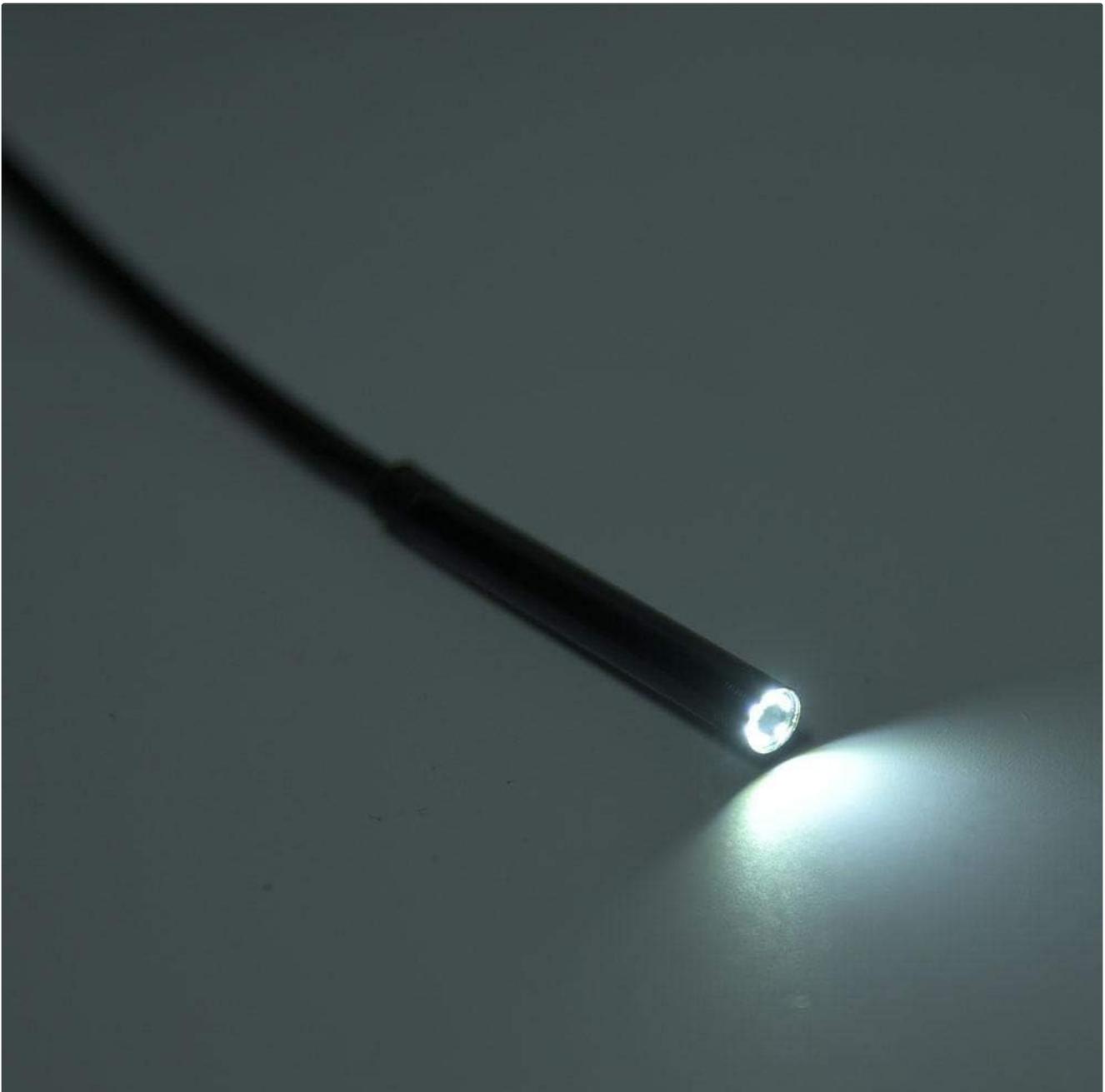


Figure 4.2: Practical applications of the endoscope, including inspecting internal wall structures and accessing areas behind appliances.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your endoscope:

- **Cleaning:** After each use, especially in dirty or wet environments, gently wipe the camera lens and cable with a soft, damp cloth. The IP67 rating indicates resistance to dust and water immersion up to 1 meter for 30 minutes, but it is not designed for prolonged underwater use or harsh chemicals.
- **Drying:** Ensure the endoscope and its connectors are completely dry before storing.
- **Storage:** Store the endoscope in a cool, dry place, away from direct sunlight and extreme temperatures. Coil the cable loosely to prevent kinks or damage.
- **Avoid Bending:** Do not excessively bend or crimp the cable, as this can damage internal wiring.

6. TROUBLESHOOTING

If you encounter issues with your Walfront Y102 Endoscope, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image displayed / Device not recognized.	<ul style="list-style-type: none"> • Incorrect app or driver. • Device does not support OTG (for Android). • Loose connection. • Insufficient power from USB port. 	<ul style="list-style-type: none"> • Ensure you have installed a compatible endoscope app or PC driver. • Verify your Android device supports OTG and that OTG is enabled in settings (if applicable). • Reconnect the endoscope firmly to the USB port. • Try connecting to a different USB port or a powered USB hub.
Image is blurry or dark.	<ul style="list-style-type: none"> • Insufficient lighting. • Lens is dirty. • Object too close/far from lens. 	<ul style="list-style-type: none"> • Adjust the LED brightness using the rotary dial on the control unit. • Clean the camera lens gently with a soft cloth. • Adjust the distance between the lens and the object. The optimal focus range is typically 5 cm to infinity.
App crashes or freezes.	<ul style="list-style-type: none"> • App compatibility issues. • Device resource limitations. 	<ul style="list-style-type: none"> • Try a different endoscope application. • Close other applications running in the background on your device. • Restart your device.

7. SPECIFICATIONS

Feature	Detail
Model	Y102
Lens Diameter	5.5mm
Camera Resolution	2.0MP CMOS HD (Video Capture Resolution: 480p)
LED Lights	6 adjustable LEDs
Cable Length	5 meters
Waterproof Rating	IP67
Connectivity	3-in-1 USB (USB-A, Micro USB, USB-C)
Compatibility	Android (OTG support required), Windows PC
Macro Focus Range	5 cm - ∞
Product Dimensions	4.72 x 4.72 x 1.38 inches
Item Weight	0.704 ounces
Color	Black
Manufacturer	Walfront

8. WARRANTY AND SUPPORT

For information regarding warranty coverage and terms for your Walfront Y102 Endoscope, please refer to the documentation provided at the time of purchase or contact the seller directly. Support inquiries, technical assistance, or questions about product functionality should also be directed to the point of purchase or the manufacturer's official support channels.

© 2024 Walfront. All rights reserved. Information subject to change without notice.

Related Documents - Y102

	<p>Hangzhou Kua Shi Technology Smart Camera Model Differences</p> <p>Details on model differences for Hangzhou Kua Shi Technology's BoyKeep Smart Camera series, including model names, FCC ID, and shared technical specifications.</p>
	<p>DIE PERLE Fine Jewelry Catalog - Pearls & Diamonds</p> <p>Explore the exquisite collection of fine jewelry from DIE PERLE, featuring pearls, diamonds, gold, and silver pieces. Shop rings, necklaces, bracelets, and earrings.</p>
	<p>FCC Test Report: Shenzhen Distar Dashcam (Model Y09) - FCC ID 2BKLC-Y09</p> <p>Official FCC Test Report for the Shenzhen Distar Dashcam (Baideluo, Model Y09, FCC ID: 2BKLC-Y09), detailing compliance with FCC Part 15 Subpart C regulations. Includes test results and specifications from Shenzhen ZKT Technology Co., Ltd.</p>
	<p>Interface //</p>