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WANLUTECH IPC-1910C Plus

User Manual for WANLUTECH 8K IP Camera Tester

Model: IPC-1910C Plus

1. Introduction

This manual provides detailed instructions for the proper use, setup, operation, and maintenance of the WANLUTECH IPC-1910C Plus 8K IP Camera Tester. This device is a versatile tool designed for professionals in the security and surveillance industry, offering comprehensive testing capabilities for IP, TVI, CVI, AHD, and Analog cameras, as well as network and cable testing functions. Please read this manual thoroughly before operating the device to ensure safe and efficient use.

2. Safety Information

- **Battery Safety:** The device contains a Lithium Ion battery. Do not disassemble, puncture, or expose the battery to extreme temperatures or fire. Ensure the insulating paper piece is removed from the battery compartment before first use.
- **Power Supply:** Use only the original charger and power adapter provided with the device. Using unauthorized chargers may damage the device and void the warranty.
- **Environmental Conditions:** Operate the device within specified temperature and humidity ranges. Avoid exposure to water, dust, and corrosive substances.
- **Electrical Hazards:** Exercise caution when testing live circuits or PoE connections. The device supports 60V withstand voltage on UTP ports, but always follow standard electrical safety procedures.
- **Maintenance:** Do not attempt to repair the device yourself. Refer all servicing to qualified personnel.

3. Package Contents

Upon opening the package, verify that all items listed below are present and in good condition:

- WANLUTECH IPC-1910C Plus 8K IP Camera Tester Unit
- Power Adapter/Charger
- UTP Cable Tester Remote
- BNC Cable

- RS485 Cable
- Audio Cable
- DC Power Cable
- Safety Lanyard
- Carrying Case
- User Manual (this document)



Figure 3.1: WANLUTECH IPC-1910C Plus Tester and its complete set of accessories.

4. Product Overview

Familiarize yourself with the various ports and components of the IPC-1910C Plus tester:

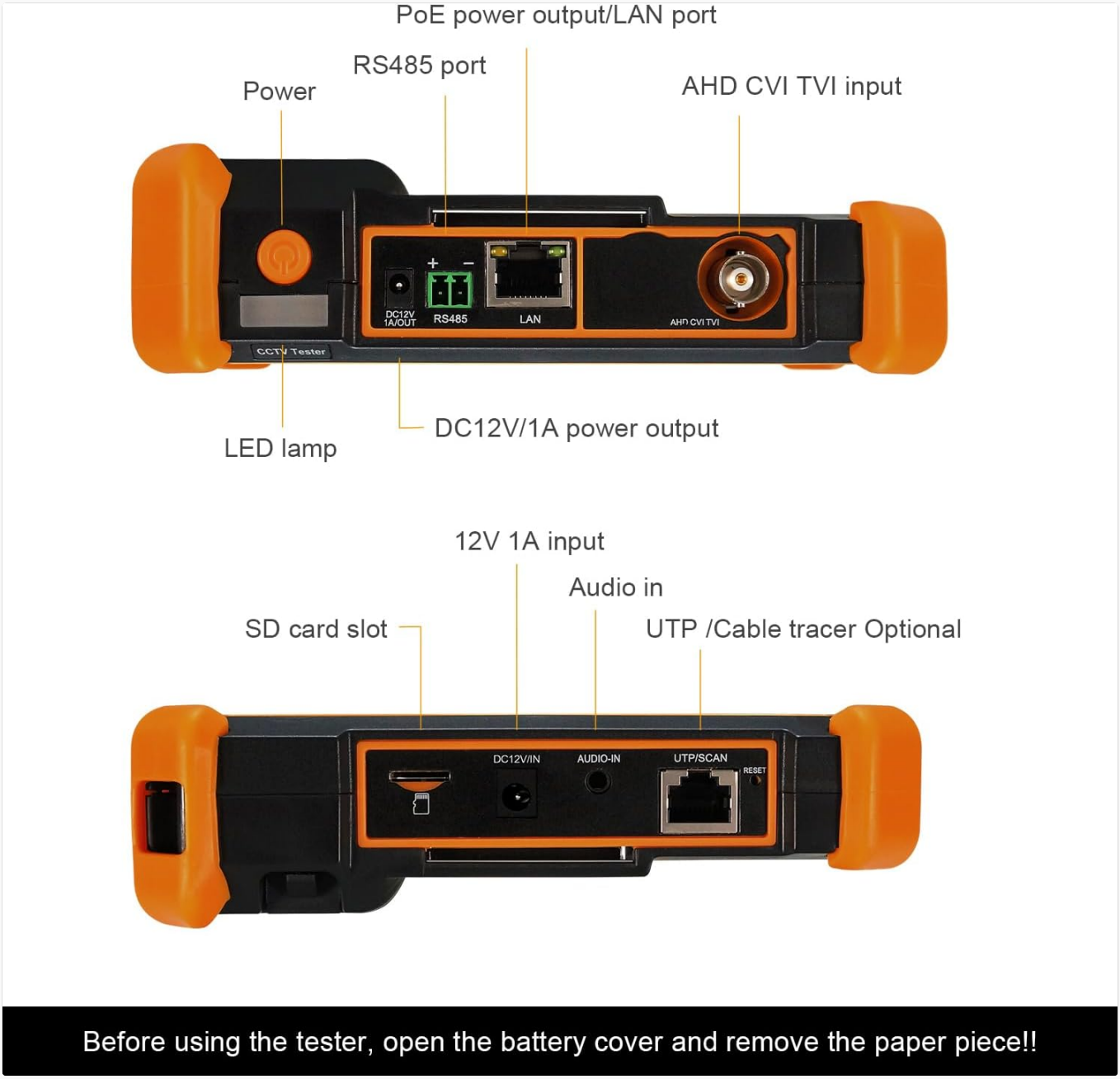


Figure 4.1: Top view of the tester with labeled ports including PoE/LAN, RS485, and AHD/CVI/TVI input.



Figure 4.2: Bottom view of the tester with labeled ports including SD card slot, 12V input, Audio input, and UTP/Scan port.

5. Setup

1. **Initial Battery Preparation:** Before first use, open the battery cover and remove the paper piece isolating the battery. This ensures proper electrical contact and allows the battery to charge.
2. **Charging the Device:** Connect the provided power adapter to the DC 12V 1A input port on the tester and plug it into a power outlet. The charging indicator will illuminate. A full charge typically takes approximately 3.5 hours.
3. **Powering On/Off:** Press and hold the power button located on the side of the device to turn it on or off.
4. **Language Settings:** Upon first boot, you may be prompted to select your preferred language. If not, navigate to the system settings to adjust the language.

6. Operating Instructions

6.1. IP Camera Test (8K Support)

The IPC-1910C Plus supports testing of 8K IP cameras, providing real-time image detection and playback capabilities.

1. Connect the IP camera to the tester's LAN port using an Ethernet cable.

2. Navigate to the "IP Camera Test" application on the touchscreen.
3. The tester will automatically detect and display the camera's video stream. You can view 8K camera images in real-time and play 8K video files.



Figure 6.1: Real-time 8K camera image detection and 8K movie playback on the tester.

6.2. CCTV Camera Test (TVI/CVI/AHD/CVBS)

The tester automatically recognizes and supports 8MP TVI, CVI, AHD, and Analog (CVBS) cameras without manual switching, improving efficiency.

1. Connect the coaxial camera to the AHD CVI TVI input port.
2. Select the "CVBS & HD Camera" application.
3. The tester will auto-detect the camera type and resolution, displaying the live feed.
4. Utilize functions such as snapshot, video record & playback, coaxial PTZ control, and OSD menu access.

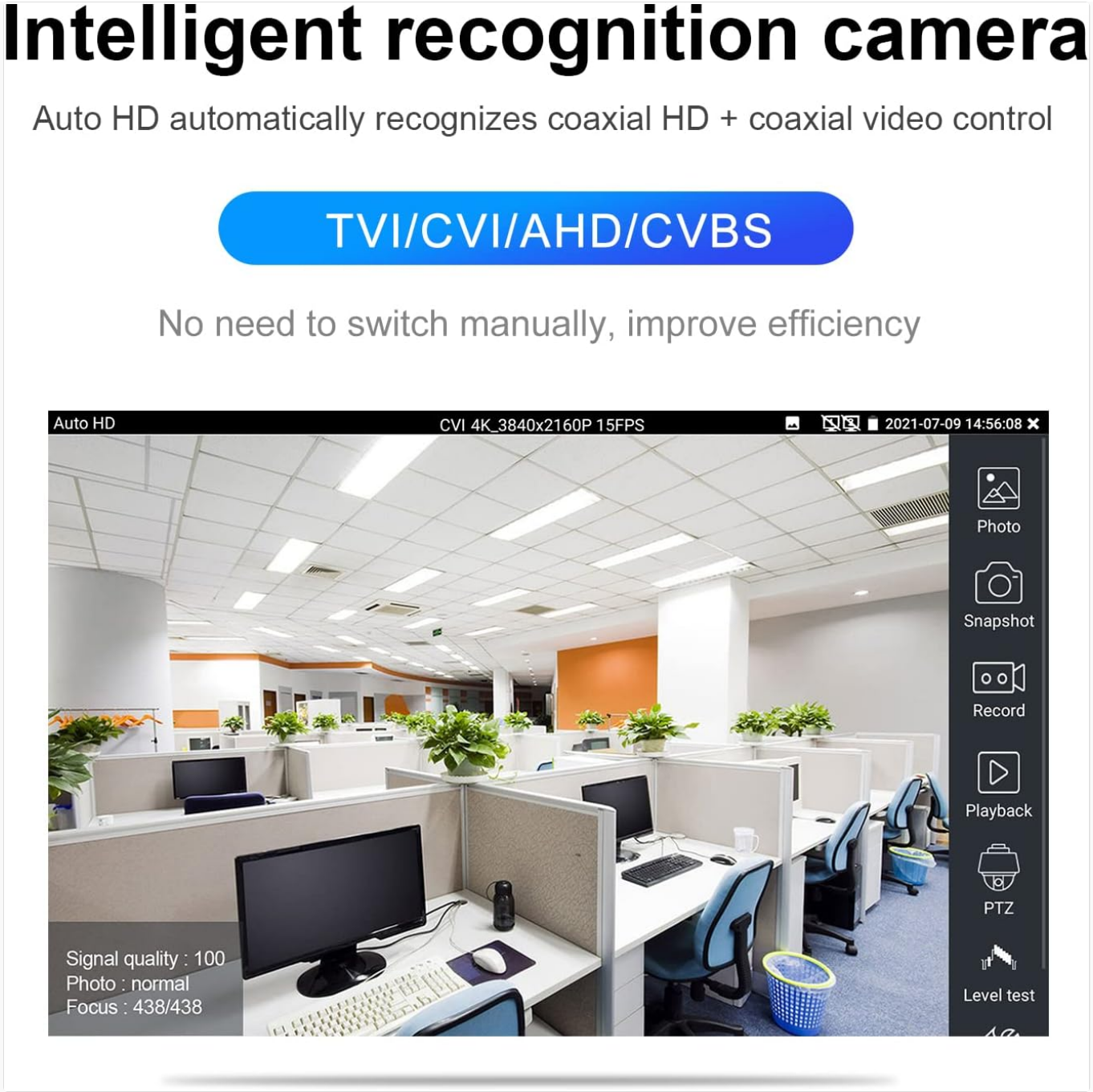


Figure 6.2: Automatic recognition and display of various coaxial camera types.

6.3. Cable Testing Functions

The device offers comprehensive cable testing capabilities, including UTP cable testing, RJ45 TDR, and an electroscope function.

- **UTP Cable Test:** Connect the RJ45 cable to the UTP/SCAN port and the remote unit. The tester will display the cable sequence and connectivity status, identifying near-end, mid-end, and far-end fault points.
- **RJ45 TDR Cable Test:** Measures cable shorts, opens, and length up to 180 meters.
- **Cable Tracer / Electroscope:** Quickly detect the near-end, mid-end, and fault points of RJ45 cables. The electroscope function allows non-contact detection of AC voltage, indicating live wires with flashing red LEDs and buzz sounds. It can intelligently identify neutral and live wires.



60V withstand voltage

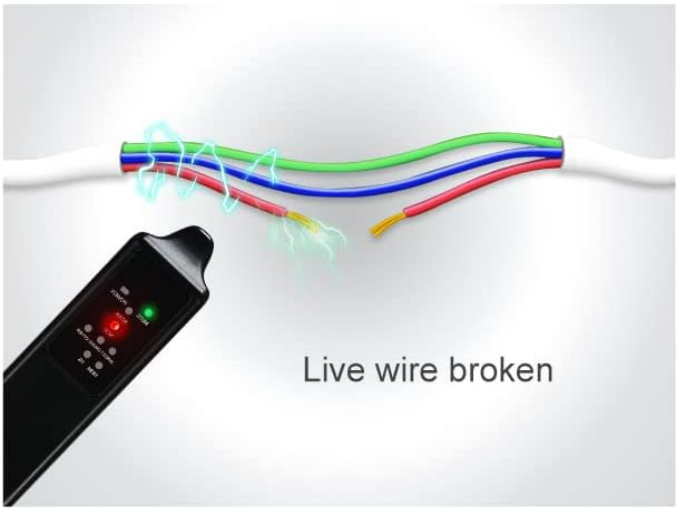
UTP port support max 60V withstand voltage, support PoE switch live tracing



PD powered test

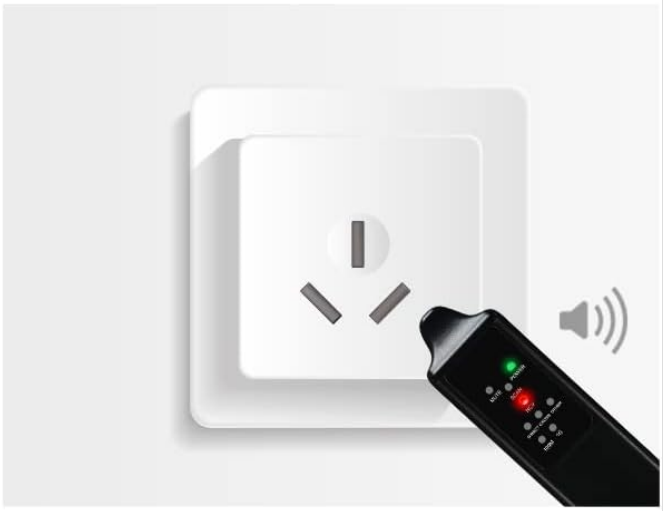
Checking the PoE supplying power pins, PoE is standard or non-standard

Cable Tracer+Electroscope



Non-contact electroscope (Safe)

When detected the Alternating Current voltage, the LED light will flashing red and buzz sounds



Intelligently identify the neutral wire and live wire

Live wire: the indicator quickly flash, rapid buzz sounds

Neutral wire: the indicator is OFF or slow flash, no buzz sound or slow buzz sounds

Figure 6.3: Cable tracing and testing in progress, along with electroscope functionality.



Figure 6.4: Illustrations of PoE withstand voltage testing and non-contact live wire detection.

6.4. Power Output (PoE & DC12V)

The tester can provide power to cameras and other devices, simplifying on-site installations.

- **48V PoE Power Output:** Supports Power over Ethernet (PoE) with a maximum output of 25.5W. Connect a PoE-compatible camera to the LAN port.
- **DC12V 3A Power Output:** Provides 12V DC power for non-PoE cameras or other devices. Connect the device to the DC12V/3A output port.



Figure 6.5: Power output connections for 12V DC and PoE cameras.

6.5. Network Tools

The tester includes various network diagnostic tools:

- **Ping:** Test network connectivity to IP addresses.
- **IP Scan:** Discover active devices on the network.
- **Port Flash:** Locate network ports by flashing the link light on connected devices.
- **DHCP Server:** Assign IP addresses to devices.
- **Trace Route:** Trace the path of data packets across a network.

6.6. Other Functions

- **Audio In:** Supports audio input for recording and saving audio.
- **LED Lamp:** High brightness LED light for working in dark environments.
- **PTZ Control:** Control Pan/Tilt/Zoom functions of compatible cameras.

- **RS485:** For controlling PTZ cameras and other devices via RS485 protocol.
- **Local Two-Way Voice Intercom:** Communicate with engineers or personnel at the camera location.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. If storing for extended periods, charge the battery to approximately 50% every three months. The built-in 2600mAh Lithium polymer battery provides up to 9 hours of working time on a full charge.
- **Firmware Updates:** Check the manufacturer's website periodically for firmware updates to ensure optimal performance and access to new features.

8. Troubleshooting

If you encounter issues with your IPC-1910C Plus tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Battery is depleted or insulating paper is still in place.	Charge the device fully. Ensure the battery insulating paper has been removed from the battery compartment.
Device does not charge.	Faulty charger/cable, battery issue, or charging port damage.	Ensure the charger and cable are securely connected and undamaged. Try a different compatible charger if available. Verify the battery insulating paper is removed. If the issue persists, contact customer support.
Touchscreen is unresponsive.	Software glitch or hardware malfunction.	Restart the device. If the problem continues, perform a factory reset (refer to system settings). If still unresponsive, contact customer support.
Camera image is not displayed.	Incorrect connection, camera not powered, or incompatible camera type.	Verify all cables are securely connected. Ensure the camera is powered on. Confirm the camera type (IP, TVI, CVI, AHD, CVBS) is supported and the correct test mode is selected on the tester.
Cable test results are inaccurate.	Damaged cable, faulty remote unit, or incorrect test procedure.	Ensure the cable is not damaged. Check the remote unit for proper function. Follow the cable testing instructions carefully.

If you encounter a problem not listed here or if the suggested solutions do not resolve the issue, please contact WANLUTECH customer support for assistance.

9. Specifications

Feature	Specification
Model Number	IPC-1910C Plus
Display	4 inch IPS Touchscreen, 800x480 resolution
IP Camera Test	Supports 8K IP camera test, H.265/H.264

Feature	Specification
CCTV Camera Test	8MP AHD/CVI/TVI, Analog (CVBS)
Cable Test	UTP cable test, RJ45 TDR (max. 180 meters), Cable Tracer, Electroscope
Power Output	DC12V 3A, 48V PoE (max 25.5W)
Network Tools	Ping, IP Scan, Port Flash, DHCP Server, Trace Route
Battery	1 Lithium Ion battery (included), 2600mAh
Battery Life	Up to 9 hours working time
Charging Time	Approx. 3.5 hours
Item Weight	2.4 pounds
Package Dimensions	10.55 x 5.75 x 4.02 inches

10. Warranty and Support

For warranty information, please refer to the documentation provided at the time of purchase or contact WANLUTECH directly. As the manufacturer, WANLUTECH is committed to providing support for its products. If you have any questions, technical issues, or require assistance, please contact WANLUTECH customer support. They aim to respond to inquiries within 12 hours.
You can typically find contact information on the product packaging, the official WANLUTECH website, or through your point of purchase.

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