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WANLUTECH IPC-5200C Plus

WANLUTECH IPC-5200C Plus IP Camera Tester User Manual

Model: IPC-5200C Plus

Brand: WANLUTECH

INTRODUCTION

The WANLUTECH IPC-5200C Plus is a versatile 5.4-inch IPS touchscreen IP camera tester designed for professionals in CCTV and surveillance system installation and maintenance. It integrates multiple functionalities including IP camera testing, analog camera testing, various HD coaxial camera tests (TVI, CVI, AHD, SDI), cable testing, network tools, and power output capabilities. This manual provides detailed instructions for setting up, operating, and maintaining your device.



Image: The WANLUTECH IPC-5200C Plus IP Camera Tester with its main screen displaying various test functions, accompanied by included accessories such as cables, power adapter, and cable tracer.

PRODUCT FEATURES

- IP & Analog Camera Testing:** Features a 5.4-inch IPS touch screen with IP Discovery, Quick ONVIF, IPC test, RTSP play, and Client APK support. Automatically views video and creates testing reports. Supports batch activation of Hikvision and Dahua cameras, IP address modification, and password changes. Includes CVBS analog camera test with 1 channel BNC input (NTSC/PAL auto-adapt).
- HD Coaxial Camera Testing:** Supports 8MP TVI / CVI / AHD / SDI camera testing and UTC control, including OSD menu access. Auto HD recognition for resolution and image display of Analog and HD cameras.
- Multifunctional Connectivity:** Equipped with 1 channel HDMI input (supports 4K 30FPS) and 1 channel VGA input. Provides 48V PoE power output (max 30W) and DC12V/3A power output for temporary camera power.

- **Network Tools:** Integrated tools include Ping, IP scan, Port Flash, DHCP server, and Trace Route. Built-in Wi-Fi allows display of wireless camera images and creation of a Wi-Fi hotspot.
- **Cable Testing:** Features a digital cable tracer for BNC, network, and telephone cables. Supports UTP cable connection status display and RJ45 cable TDR testing for cable pair status, length, attenuation, reflectivity, impedance, and skew.
- **Power & Battery:** Built-in 7.4V Li-ion battery, 3350mAh capacity.

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.
2. **Charging the Device:** Connect the included charger to the device's power input port and plug it into a standard electrical outlet. Allow the device to fully charge before initial operation. The charging indicator will provide status.
3. **Powering On/Off:** Press and hold the power button located on the device to turn it on or off.



Before using the tester, open the battery cover and remove the paper piece!!

Image: Top and bottom views of the IPC-5200C Plus showing various ports including PoE power output/LAN, HDMI input, SDI IN, AHD CVI TVI CVBS IN, DC12V/3A power output, LED lamp, SD card slot, RS485 port, Audio in, UTP port/Cable tracer port, 12V 1A input, and VGA input. An important note indicates to remove the battery isolation paper before use.

OPERATING INSTRUCTIONS

IP Camera Test (IPC Test Pro)

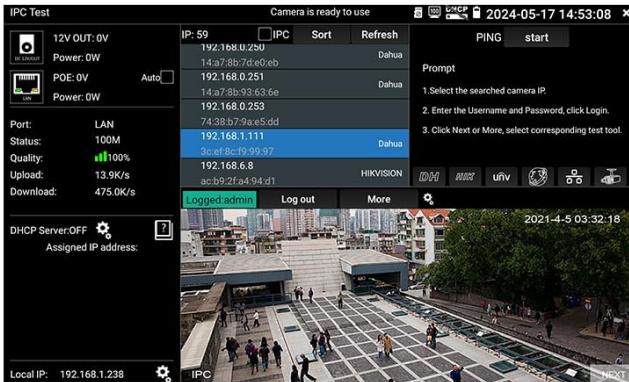
This function allows for comprehensive testing of IP cameras, including PoE power supply, network quality assessment, and real-time video display. It supports IP Discovery, Quick ONVIF, and Client APK for various camera brands.

- **IP Discovery:** Automatically searches for all network segment IP addresses connected to the tester and allows modification of the tester's local IP address to match the camera's network segment.

- Quick ONVIF:** Automatically logs in and displays images, live video, and allows creation of test reports, modification of IP addresses, and channel names.
- HIK / DH Camera Test:** Supports batch activation, IP address modification, password changes, and self-defined channel names for Hikvision and Dahua cameras.
- Multiple Preview:** Connect the camera to the LAN port. The Multi-preview APP supports synchronized preview of multiple cameras (up to 16 simultaneous previews). Playback is at 2 to 3 frames per second. For smooth real-time preview, use the "ONVIF" APP.

IPC Tester

It can display POE or DC12V Power supply voltage and power, IP address scanning, display camera image ; Network quality and real-time upload/download speed testing, DHCP server



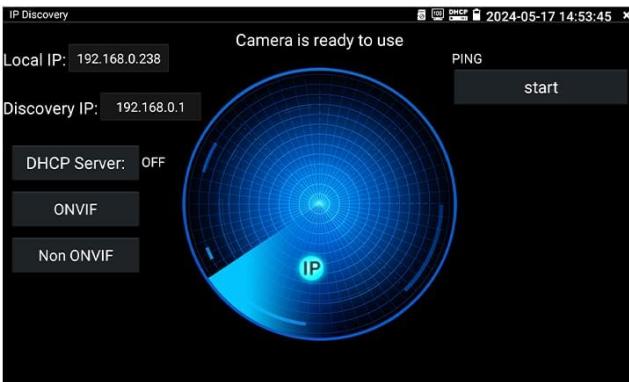
Quick ONVIF

Automatically log in and display images, live video, create test reports, modify IP, modify channel name.



IP Discovery

Automatically search for all network segment IP addresses connected to the tester and automatically modify the tester's local IP address to be in the same network segment as the camera.



CVBS & HD Camera

Using "AUTO HD" app can automatically recognize AHD/TVI/CVI/CVBS cameras and display resolution and frame rate on the screen, supports UTC control & call OSD menu, menu settings, screenshot, video recording, photo browsing, video playback, storage settings, etc.



Image: Screenshots illustrating the user interface for IPC Test (showing network information and live video), Quick ONVIF (showing camera login and live view), IP Discovery (showing network scan), and CVBS & HD Camera settings (showing OSD menu and PTZ controls).

HD Coaxial Camera Test (TVI CVI AHD SDI)

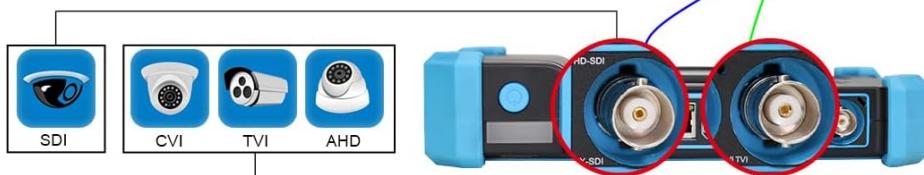
The tester supports various HD coaxial camera types up to 8MP resolution, including TVI, CVI, AHD, and SDI. It features auto-recognition of resolution and image display.

- **Connection:** Connect the coaxial camera to the appropriate BNC input port on the tester.
- **Auto HD:** The device will automatically adapt to the camera type and display the video feed.
- **PTZ Control & OSD Menu:** Utilize the PTZ control functions and access the camera's OSD menu via the tester for configuration.
- **Functions:** Access functions like 'Photos', 'Snapshot', 'Record', 'Playback', 'PTZ', and 'Set' from the right-side toolbar.



HD Coaxial 4.0 Test

Support 8MP AHD/CVI/TVI/SDI camera test,
support coaxial PTZ & call OSD menu.



HD Coaxial 4.0



coaxial PTZ control



call camera OSD menu



Snapshot and view



video record and playback



4x Zoom

Resolution comparison table :

HD coaxial camera type/ Resolution	720P	1080P	3MP	4MP	5MP	6MP	4K(8MP)
CVI 4.0	1280 x 720P 25/30/50/60 FPS	1920 x 1080P 25/30 FPS	—	2560 x 1440P 25/30 FPS	2592 x 1944P 20FPS 2880 x 1620P 25FPS	2880x1920 20FPS	3840 x 2160P 12.5/15 FPS
TVI 5.0	1280 x 720P 25/30/50/60 FPS	1920 x 1080P 25/30 FPS	2048 x 1536P 18/25/30 FPS	2688x1520P 15FPS 2560 x 1440P 15/25/30 FPS	2592 x 1944P 12.5/20FPS 2960 x 1660/20FPS	—	3840 x 2160P 12.5/15 FPS
AHD 4.0	1280 x 720P 25/30 FPS	1920 x 1080P 25/30 FPS	2048 x 1536P 18/25/30 FPS	2560 x 1440P 15/25/30 FPS	2592 x 1944P 12.5/20FPS	—	3840 x 2160P 15 FPS

NOTE: CVI 5MP/6MP need to be viewed in "AUTO HD"

SDI type/Resolution	720P	1080P	1080i	4MP	4K(8MP)
HD-SDI	1280x720P 25/30/50/60 FPS	1920x1080P 25/30/50/60 FPS	1920x1080i 50/60 FPS	—	—
EX-SDI-V2.0 (support coaxial control)	1280x720P 25/30/50/60 FPS	1920x1080P 25/30/50/60 FPS	1920x1080i 50/60 FPS	4MP-2560x1440P 25/30 FPS	8MP-3840x2160P 25/30 FPS
EX-SDI-V1.0	1280x720P 25/30/50/60 FPS	1920x1080P 25/30 FPS	1920x1080i 50/60 FPS	—	—
3G-SDI	—	1920x1080P 50/60 FPS	—	—	—

Image: Diagram illustrating the connection for HD Coaxial 4.0 Test, showing support for SDI, CVI, TVI, and AHD cameras. A table provides a resolution comparison for various coaxial camera types and SDI types, including 4K (8MP) resolutions.

Cable Testing

The IPC-5200C Plus includes advanced cable testing capabilities for network and coaxial cables.

- **RJ45 Cable TDR Testing:** Test cable pair status, length (up to 180m), attenuation, reflectivity, impedance, and skew. Note that only network cables exceeding 10 meters can be tested for attenuation.
- **Cable Tracer:** Use the digital cable tracer to locate BNC, network, and telephone cables within a bundle. It can also search shielded cables. The "G" indicator signifies the continuity of the shielded network cable.
- **Cable Tester:** Test UTP cable connection status and display it on the screen. Detect near-end, mid-end, and far-

end fault locations of RJ45 cable plugs.

RJ45 Cable TDR Test

Test once: Test cable pair status, length(up to 180m), attenuation(only network cables exceeding 10 meters can be used for testing).

Advanced Test: Test cable reflectivity, impedance, skew.

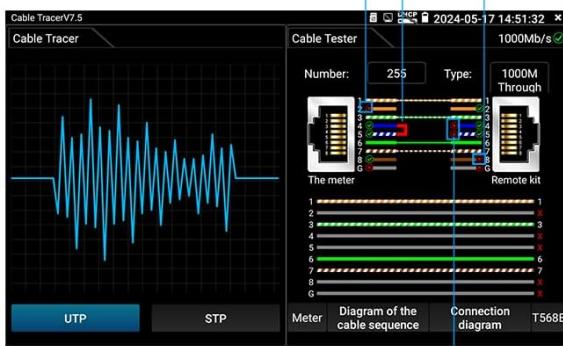


Cable Tracer

Cable Tracer: search for network cables, BNC cables, shielded network cables from the chaotic cables.

The 8th core of the registered jack on the cable tracer is faulty

The 2nd core of the registered jack on the CCTV tester is faulty



The 4th and 5th cores have breakpoints 1 meter away from the registered jack on the cable tracer

Cable Tester

Cable Tester: test continuity, cable sequence, fault location of network cables.

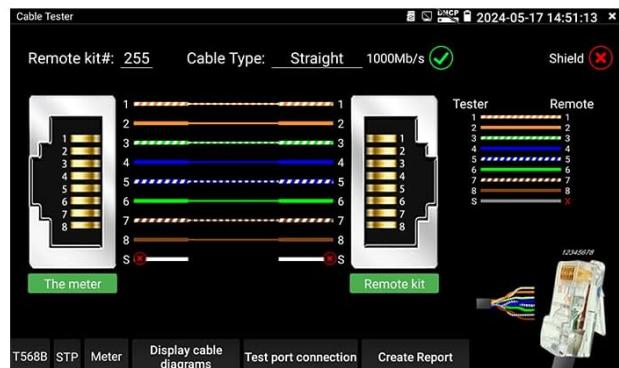


Image: Screenshots demonstrating the RJ45 Cable TDR Test interface with results for length and attenuation, and an advanced test showing reflectivity, impedance, and skew. Also shown are diagrams for the Cable Tracer and Cable Tester functions, illustrating how to connect and interpret results for network cable continuity and fault detection.

Network Tools

The device features built-in professional network testing tools to assist with network diagnostics.

- Ping:** Test network connectivity and response time.
- IP Scan:** Discover active devices on the network.
- Port Flash:** Locate network ports by flashing the link light.
- DHCP Server:** Assign IP addresses to devices.
- Trace Route:** Trace the path of data packets across a network.
- Other Tools:** Includes LLDP, Link Monitor, and Socket Tool.

Image: Screenshots of the Network Tools interface, showing options for Ping, IP Scan, Port Flash, DHCP Server, Trace Route, and other diagnostic utilities.

HDMI & VGA Input

The tester can function as a display for external video sources via HDMI and VGA inputs.

- **HDMI Input:** Supports up to 4K 30FPS video input. Connect an HDMI source (e.g., NVR, DVR) to the HDMI IN port.
- **VGA Input:** Connect a VGA source to the VGA IN port.
- **Display Functions:** Supports image display, screenshot, record, and playback of the input video. Note that the tester cannot set the signal output devices.



HDMI & VGA input

WANLUTECH CCTV tester has HDMI input and VGA input function, supporting image display, screenshot, record, playback. CCTV tester will be as a display. HDMI input support max 4K 30fps, Please note that the tester cannot set the signal output devices(NVR, DVR, etc.)



PoE Power Output

Support 48V PoE power output, max support 30W

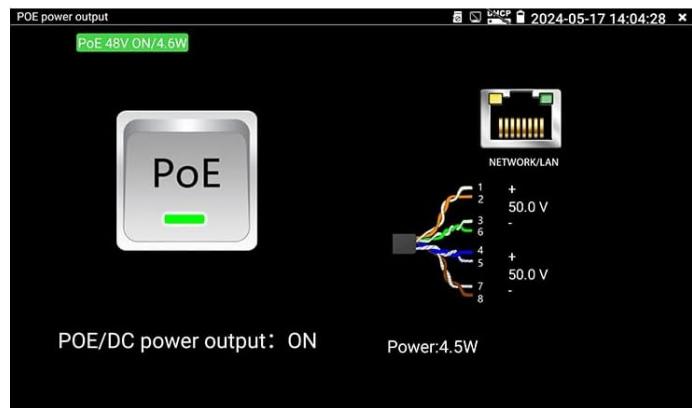


Image: Diagrams showing how to connect an NVR/DVR to the tester via HDMI input and a device via VGA input. Also illustrates the PoE power output function, showing the tester providing power to a PoE camera.

PoE Power Output

The device can supply power over Ethernet (PoE) to compatible cameras or devices.

- **Output:** Supports 48V PoE power output, with a maximum power of 30W.
- **DC12V/3A Output:** Provides a DC12V/3A power output to temporarily power cameras or other devices.

HDMI & VGA input

WANLUTECH CCTV tester has HDMI input and VGA input function, supporting image display, screenshot, record, playback. CCTV tester will be as a display. HDMI input support max 4K 30fps. Please note that the tester cannot set the signal output devices(NVR, DVR, etc.)



Image: Screenshots showing the PoE power output activation screen and the PoE & Power Info screen, which displays real-time voltage and power consumption for PoE output and 12V input/output.

Additional Tools & Functions

- Audio Input:** Supports 1 channel audio signal input to test sound normality.
- Quick Screen Capture:** Press and hold the designated button for quick screen capture.
- Built-in Tools:** Includes a flashlight, calculator, audio recorder, video player, and audio player.
- Wi-Fi Hotspot:** Built-in Wi-Fi allows the device to display images from wireless cameras and create a Wi-Fi hotspot.
- TesterPlay (Screen Projection):** The "TesterPlay" app supports simultaneous display on the tester, PC, and mobile phone. Install "TesterPlay" on Android mobile phones or VLC player on PC to receive screen information from the tester in real-time.

Network Tools

Built-in professional network testing tools, such as Ping, IP scan, DHCP server, PPPOE, Trace Route, Port Flash, LLDP, Link Monitor, etc.

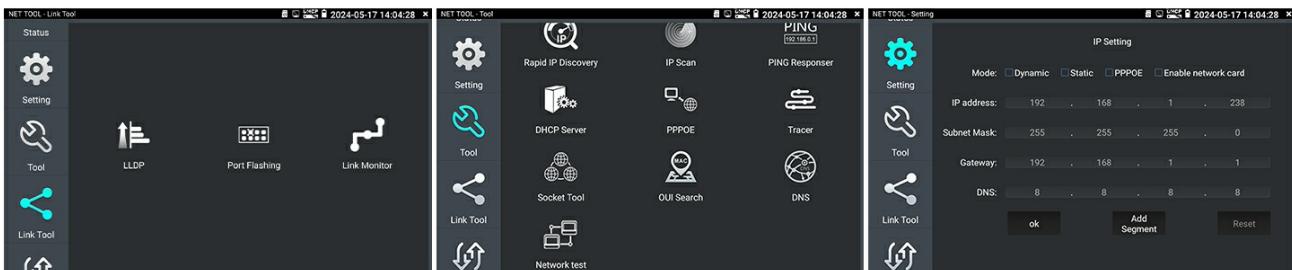


Image: Diagrams showing the audio input port and the quick screen capture button. Also displays icons for built-in tools such as flashlight, calculator, audio recorder, video player, and audio player.



PoE Power Output

Support PoE power output, DC48V, max power 25.5W



PoE & Power Info

Power input: DC12V, Power output: DC12V/3A

Support to check the real-time voltage, power of Power output and power input port.

PoE & Power Info			
	PoE output	12V input	12V output
voltage	50.0V 50.0V	0.0V	12.7V
power	3.2W	0.0W	0.0W

Image: Screenshots of the Application Update interface, showing options for Local Update, Online Update, and App Management. Also, a screenshot of the Wi-Fi Hotspot settings, indicating how to enable or disable the hotspot function.

APPLICATION UPDATE

The tester supports various methods for updating its applications and firmware to ensure optimal performance and access to the latest features.

- Local Update:** Update the device using files stored locally on the device or an SD card.
- Online Update:** Connect the device to the internet via Wi-Fi and perform updates directly from the manufacturer's servers.
- App Management:** Manage installed applications, including updating and installing new apps provided by the manufacturer.

SPECIFICATIONS

Feature	Detail
Brand	WANLUTECH
Model Number	IPC-5200C Plus
Display	5.4-inch IPS Touchscreen
Power Source	Battery Powered
Battery Type	7.4V Li-ion, 3350mAh (included)
Min. Operating Voltage	7.4 Volts (DC)
PoE Power Output	48V, Max 30W
DC Power Output	DC12V/3A
HDMI Input	Supports 4K 30FPS

Feature	Detail
VGA Input	Yes
IP Camera Support	IP Discovery, ONVIF, RTSP, Client APK, Hik/DH batch tools
HD Coaxial Support	8MP TVI/CVI/AHD/SDI, UTC control, OSD menu
Analog Camera Support	CVBS (NTSC/PAL auto-adapt)
Cable Testing	RJ45 TDR, Cable Tracer, UTP Cable Test
Network Tools	Ping, IP Scan, Port Flash, DHCP Server, Trace Route, Wi-Fi
Item Weight	1 Kilogram (2.2 pounds)
Package Dimensions	10.2 x 5.79 x 4.09 inches

MAINTENANCE

- Cleaning:** Use a soft, dry cloth to clean the device's screen and body. Avoid abrasive cleaners or solvents.
- Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. When not in use for extended periods, ensure the battery is partially charged (around 50%) to prolong its lifespan.
- Battery Care:** Regularly charge the battery. Avoid fully discharging the battery frequently, as this can reduce its overall lifespan. If the device will not be used for a long time, charge it every 3-6 months.
- Software Updates:** Periodically check for and install software updates to ensure optimal performance and access to new features. Refer to the "Application Update" section for instructions.

TROUBLESHOOTING

Device does not power on:

- Ensure the battery isolation paper has been removed.
- Verify the battery is charged. Connect the charger and attempt to power on.
- If the power button is unresponsive, contact customer support.

No image display from camera:

- Check all cable connections between the camera and the tester.
- Ensure the camera is powered on. If using PoE, verify the PoE output is enabled on the tester.
- For IP cameras, ensure the camera's IP address is in the same network segment as the tester. Use the IP Discovery function.
- For HD coaxial cameras, ensure the correct camera type (TVI/CVI/AHD/SDI) is selected or that "Auto HD" is enabled.

Cable test results are inaccurate or show errors:

- Ensure the cable is properly terminated and connected to the correct ports on the tester and remote unit (if applicable).

applicable).

- Verify the cable is not damaged.
- For TDR tests, ensure the cable length is within the measurable range (e.g., >10m for attenuation).

Touchscreen unresponsive:

- Restart the device.
- Ensure the screen is clean and free of debris or moisture.
- If the issue persists, contact customer support.

WARRANTY AND SUPPORT

WANLUTECH is committed to providing quality products and customer service. For any questions or support needs regarding your IPC-5200C Plus IP Camera Tester, please contact the manufacturer directly.

- **Contacting Support:**

- Locate your order on your Amazon account, view order details, and click "get product support" to message WANLUTECH.
- Alternatively, find "WANGLU TESTER" on the product detail page and use the messaging option.

- **Manufacturer Information:** WANLUTECH is a manufacturer with over ten years of experience in developing and manufacturing CCTV testers and OTDRs.

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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - IPC-5200C Plus



[WANLUTECH 8K IP Camera Tester \(K15 Series\) User Manual](#)

Comprehensive user manual for the WANLUTECH 8K IP Camera Tester (K15 Series). Covers installation, operation, and testing of IP, HD analog (8MP TVI/CVI/AHD/EX-SDI/SDI/CVBS), 8K H.265/4K H.264 cameras, network diagnostics, SFP, OPM, VFL, DMM, and more. Essential for CCTV and network installers.

 <p>WANLUTECH Multi-function Network Cable Tester User Manual</p>	<p><u>LT-300S Multi-function Network Cable Tester User Manual</u></p> <p>User manual for the WANLUTECH LT-300S Multi-function Network Cable Tester, detailing its features, interface, instructions for cable tracing, UTP/continuity testing, length measurement, port flashing, PoE detection, and optional optical power meter and visual fault locator functions.</p>
<p>Multi-function Tester Quick Guide</p> 	<p><u>WANLUTECH Multi-function Tester Quick Guide</u></p> <p>Comprehensive quick guide for the WANLUTECH Multi-function Tester, covering OTDR functions, IP camera testing, laser source, optical power meter, visual fault locator, and various cable tests. Includes detailed operation, settings, specifications, and safety information for professional fiber optic and network technicians.</p>