

IP camera tester

User Manual

(V01.00)

MT-8510



- Thank you for purchasing the IP camera tester. Please read the manual before using the IP camera tester and use properly.
- For using the IP camera tester safely, please first read the 「Safety Information」 carefully in the manual.
- The manual should be kept well in case of reference.
- Keep the S/N label for after-sale service within warranty period. Product without S/N label will be charged for repair service.
- If there is any question or problem while using the IP camera tester, or damages occurred on the product, please contact our technical Department.

■

■ **FCC Warning Statement**

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,
- which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - - - Reorient or relocate the receiving antenna.
 - - - Increase the separation between the equipment and receiver.
 - - - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - - - Consult the dealer or an experienced radio/TV technician for help.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept

any interference received, including interference that may cause undesired operation.

- The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Content

1. Safety information	1
2. IP Camera Tester Introduction	2
2.1 General.....	2
2.2 Packing list.....	3
2.3 Function interface	4
3. Operation	7
3.1 Installing the Battery	7
3.2 Instrument connection	8
3.2.1 IP camera connection	8
3.2.2 Analog camera connection	9
3.2.3 HD Coaxial camera connection.....	9
3.2.4 HDMI IN	10
3.3 OSD menu	11
3.3.1 Drop-down Menu	11
3.3.2 Short-cut menu	12
3.3.3 Screen capture.....	13
3.3.4 Link monitor	13
3.3.5 TesterPlay	15
3.3.1 OTDR	16
3.3.2 Loss test	32
3.3.3 Laser source	33
3.3.4 IP discovery	34
3.3.5 IPC Test pro.....	35
3.3.6 Rapid ONVIF	36
3.3.7 NON ONVIF	49
3.3.8 HDMI IN	51

3.3.9	Analog camera test	54
3.3.10	Color-bar generator (TV OUT)	60
3.3.11	Auto HD (*Optional)	61
3.3.12	HD Coaxial & Analog level test (* Optional)	61
3.3.13	CVI camera test (* Optional)	64
3.3.14	TVI camera test (* Optional)	70
3.3.15	AHD camera test (* Optional)	72
3.3.16	NET TOOL PRO	73
	(1) IP address scan	73
	(2) PING Test	74
	(3) Network test (Ethernet bandwidth test)	74
	(4) Port Flashing	77
	(5) DHCP server	78
	(6) Trace route	79
	(7) Link monitor	79
3.3.17	PoE++ power / DC12V 3A and DC 5V 2A USB power output	80
3.3.18	DC 24V 2A power output	81
3.3.19	Cable Test	82
3.3.20	RJ45 cable TDR test	83
3.3.21	Cable Tracer	86
3.3.22	PoE++ Detection	87
3.3.23	15V power input test	88
3.3.24	Digital Multi-meter (* Optional)	89
3.3.25	Optical power meter (* Optional)	98
3.3.26	Visual Fault Locator (* Optional)	100
3.3.27	Audio Record	101
3.3.28	Data monitor	102
3.3.29	Audio player	102
3.3.30	Media Player	103

3.3.31 RTSP Player	103
3.3.32 Hik test tool	105
3.3.33 Dahua test tool	109
3.3.34 Update.....	114
3.3.35 Office	115
3.3.36 LED Flashlight	115
3.3.37 Browser.....	116
3.3.38 Notepad.....	117
3.3.39 Professional WIFI Analyzer	118
3.3.40 System Setting	119
3.3.41 File explorer.....	123
3.3.42 SFP optical module connection	124
3.3.43 Audio test.....	125
4. Specifications	125
4.1 OTDR Technical Specifications.....	125
4.2 General Specifications	126
4.3 Laser Source specifications	130
4.4 Multi-meter specifications.....	131
4.5 Optical power meter specifications	133
4.6 Visual fault locator specifications	134

1. Safety information

- ◆ The tester is intended to use in compliance with the local rules of the electrical usage and avoid to apply at the places which are inapplicable for the use of electrics such as hospital, gas station etc.
- ◆ To prevent the functional decline or failure, the product should not be sprinkled or damped.
- ◆ The exposed part of the tester should not be touched by the dust and liquid.
- ◆ During transportation and use, it is highly recommended to avoid the violent collision and vibration of the tester, lest damaging components and causing failure.
- ◆ Don't leave the tester alone while charging and recharging. If the battery is found severely hot, the tester should be powered off from the electric source at once. The tester should not be charged over 8 hours.
- ◆ Don't use the tester where the humidity is high. Once the tester is damp, power off immediately and move away other connected cables.
- ◆ The tester should not be used in the environment with the flammable gas.
- ◆ Do not disassemble the instrument since no component inside can be repaired by the user. If the disassembly is necessary indeed, please contact with the technician of our company.
- ◆ The instrument should not be used under the environment with strong electromagnetic interference.
- ◆ Don't touch the tester with wet hands or waterish things.
- ◆ Don't use the detergent to clean and the dry cloth is suggested to use. If the dirt is not easy to remove, the soft cloth with water or neutral detergent can be used. But the cloth should be tweaked sufficiently.

About Digital Multi-meter

- ◆ Before using, you must select the right input jack, function and range.
- ◆ Never exceed the protection limit values indicated in specifications for each range of measurement.
- ◆ When the tester is linked to a measurement circuit, do not touch unused terminals.
- ◆ Do not measure voltage if the voltage on the terminals exceeds 660V above earth ground.
- ◆ At the manual range, when the value scale to be measured is unknown beforehand, set the range selector at the highest position.
- ◆ Always be careful when working with voltages above 60V DC or 40V AC, keep fingers behind the probe barriers while measuring.

- ◆ Never connect the meter with any voltage source while the function switch is in the current, resistance, capacitance, diode, continuity, otherwise it will damage the meter.
- ◆ Never perform capacitance measurements unless the capacitor to be measured has been discharged fully.
- ◆ Never measure any of resistance, capacitance, diode or continuity measurements on live circuits.

Visual laser sources

When you turn on visual laser sources, please don't stare at it, or will damage to eyes

When not using it, please turn it off and cover the protective cap.

2. IP Camera Tester Introduction

2.1 General

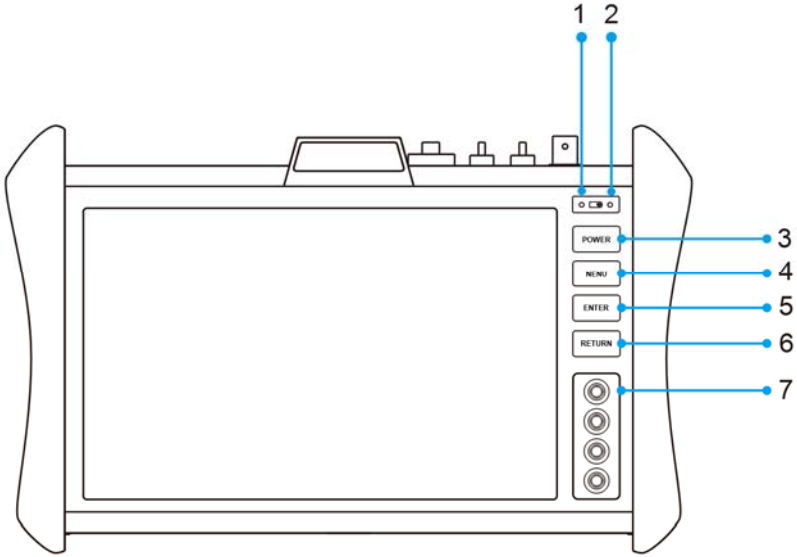
The 8 inch touch screen IP camera monitor is designed for maintenance and installation of IP cameras, analog cameras, 8MP TVI, 8MP CVI, 8MP AHD, 8MP EX-SDI cameras, as well as testing 4K H.264 camera via mainstream, The high resolution enables it to display network HD cameras and analog cameras in high resolution. The unit supports many ONVIF PTZ and analog PTZ control. The combination of touch screen and key buttons make the IP camera tester very user-friendly.

The tester is also a great tool for Ethernet network testing. It can test PoE power voltage, protocol, PING, and IP address searching. You can use the blue cable tracer to locate individual connected cables from a bundle of cables. Test LAN cable for proper connection termination. Other functions include providing 90W PoE++ power to your camera, HDMI IN and OUT, CVBS loop test, testing IP and analog at the same time, LED Flashlight, DC 12V 3A, DC 24V 2A, power output and much more. Its portability, user-friendly design and many other functions make the IP tester an essential tool for all installers or technicians.

2.2 Packing list

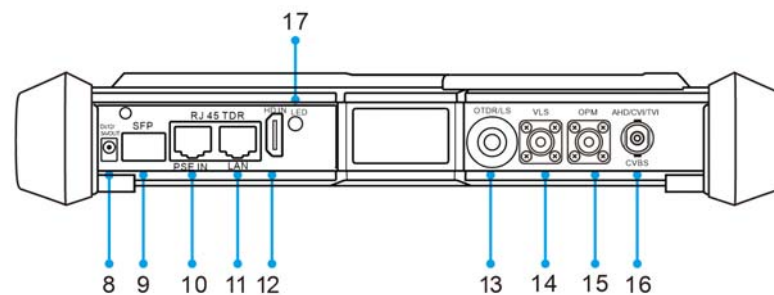
- 1). Tester
- 2). Adaptor DC15V 1.6A
- 3). Network cable tester
- 4). Polymer lithium ion battery (11.1V DC 5200mAh)
- 5). BNC cable
- 6). RS485 cable
- 7). SC, ST connector (Only for optical power meter)
- 8). Multi-meter test leads one pair of red and black (only for the Multi-meter models)
- 9). Output Power cable
- 10). Audio cable
- 11). TDR alligator clamp (only for TDR models)
- 12). 8GB TF card
- 13). Safety cord
- 14). Tool bag
- 15). Manual

2.3 Function interface

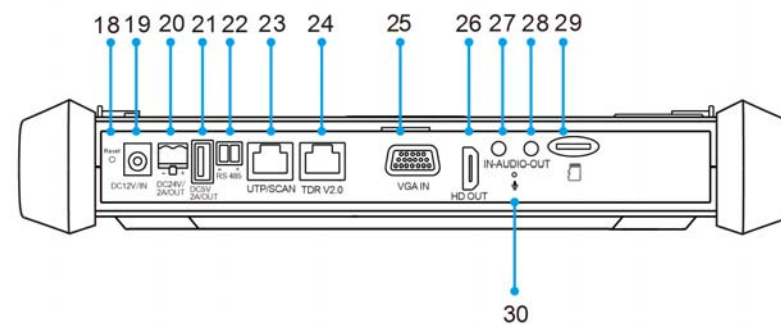


1		The charge indicator: it lights red while the battery is being charged. As the charging is complete, the indicator turns off automatically
2		it lights red while the tester is slept
3		Press more than 3 seconds, turn on or off the device, short press to turn on or off the menu display
4		Menu key
5		Confirm key
6		Return/Close : Return or cancel while setting parameters of the menu
7		Multimeter interface (Optional)

Top interface



Bottom interface



8	DC12V 3A power output , for provisional DC power supply.	Reset:reboot machine
9	SFP	
10	PSE power supply input interface/Lan test interface	
11	PoE++ power supply output/Lan test interface	
12	HDMI IN.	
13	OTDR/LS Interface	
14	Visible red laser source emits Interface(Optional)	

15	Optical power meter interface (Optional)
16	Video image /AHD/TVI/CVI signal input (BNC interface) /AHD/TVI/CVI(Optional).
17	LED lamp
18	Reset:reboot machine
19	DC 15V 1.6A charging interface.
20	DC 24V 2A output
21	USB 5V 2A power output , transmit data
22	RS485 Interface: RS485communication for the PTZ.
23	UTP cable port: UTP cable tester port/ Cable tracer port.
24	RJ45 TDR3.0 port.
25	VGA input
26	HDMI OUT
27	Audio input
28	Audio output and earphone interface
29	TF card moveable, default 8G, support TF card up to 32G.
30	Microphone

3. Operation

3.1 Installing the Battery

The tester has built-in lithium ion polymer rechargeable battery. The battery cable inside battery cabin should be disconnected for safety during transportation!

Prior to the use of the instrument, the battery cables inside the battery cabin should be well connected. Usually it doesn't need to disconnect the cable at the normal use.

Pressing the key  continuously can power on or off the tester.

 Notice: Please use the original adaptor and connected cable of the device!

 When the battery icon is full or the charge indicator turns off automatically, indicate the battery charging is completed.

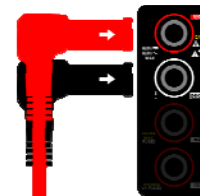
 Notice: When the Charge Indicator  turns off, the battery is approximately 90% charged.
The charging time can be extended for about 1 hour and the charging time within 12 hours will not damage the battery.

 Notice: Press the key  several seconds to restore the default settings when the instrument works abnormally.

Multi-meter: the red and black multi-meter pen must insert the corresponding port.

 Warnings: Instrument communication port is not permitted access circuit voltage over 6V, otherwise damage the tester.

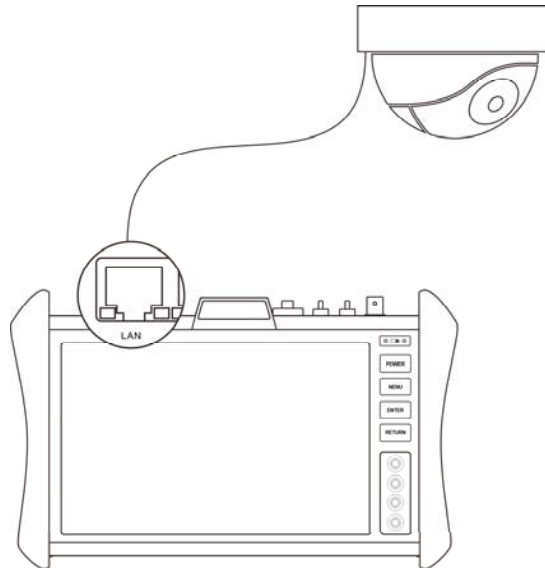
 Warnings: Not allow insert multi-meter pen in the current terminal to measure voltage.



3.2 Instrument connection

3.2.1 IP camera connection

Power an IP camera with an independent power supply, then connect the IP camera to the IPC tester's LAN port, if the link indicator of the tester's LAN port is green and the data indicator flickers, it means the IP camera and the IPC tester are communicating. If the two indicators don't flicker, check if the IP camera is powered on or the network cable is not functioning properly.



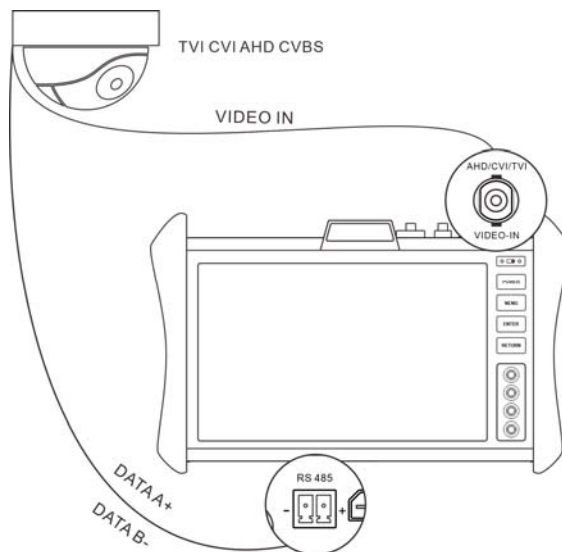
Note: 1) If the IP camera requires PoE power, then connect the IP camera to the IP tester's LAN port . The tester will supply PoE Power for the IP camera. Click the icon POE to turn the PoE Power off or on.

2) If use the tester's menu to turn off the tester's PoE power supply, the PoE switch and the power sourcing equipment are allowed to connect to the tester's PSE port, and the PoE power will be supplied to the IP camera by the tester's LAN port. On this condition, the tester cannot receive data from IP camera, but the computer connected to the PoE switch can receive the data via the the tester.



Warning: PoE switch or PSE power sourcing equipment only can be connected to tester "PSE IN" port, otherwise will damage the tester.

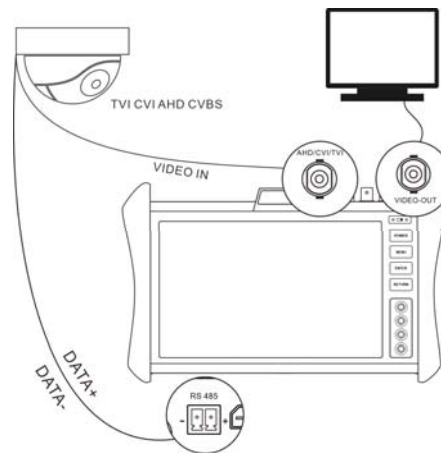
3.2.2 Analog camera connection



- 1) Connect the camera's video output to the IP tester's VIDEO IN. The image will display on the tester after pushing the PTZ icon.
- 2) CCTV IP Tester "VIDEO OUT" interface connect to the Video input of monitor and optical video transmitter and receiver, the image display on the tester and monitor.
- 3) Connect the camera or the speed dome RS485 controller cable to the tester RS485 interface.(Note: positive and negative connection of the cable)

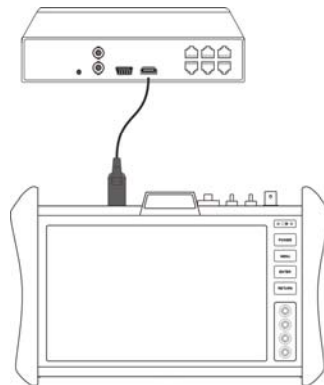
3.2.3 HD Coaxial camera connection

* SDI, CVI, TVI, AHD camera are classified as HD coaxial cameras. Hereby the following instruction of how to connect SDI camera to the tester is also applied to CVI, TVI, and AHD camera.



- 1) Connect the SDI camera's video output to the IP tester's "SDI IN" interface, the image will display on the tester. The tester only come with SDI input interface. There is no SDI output interface.
- 2) Connect the SDI camera or the speed dome RS485 controller cable to the tester RS485 interface.

3.2.4 HDMI IN



DVR or other device's HDMI out port connect to tester's HDMI in port, the meter will display input image.

3.3 OSD menu

Press the key  2 seconds to turn on

Press the key  again to turn off

Short press the key  to enter sleep mode, press it again to test.

If tester works abnormally and cannot be turned off, Press the key  several seconds to turn off, the tester reset.

3.3.1 Drop-down Menu

Press and slide at right top right corner twice to open shortcut menu. The shortcut menu includes PoE power output, IP settings, Wi-Fi, HDMI IN, LAN, Brightness, settings etc.



Light: Turn On/Off the flashlight.

Auto HD: Automatically recognize type of HD input signal

HDMI IN: Click HDMI IN to enter, In HDMI IN mode, It can converter test from analog to digital with dual test window IP &HDMI IN or Analog & HDMI in.

IP Setting: Enter IP Settings interface.

LAN INFO: Display network port or WIFI connection real-time upload and download speeds and other network parameters.

TOUCH POINT: Display contact point place.

WIFI: Turn on WLAN net and displays current WLAN status.

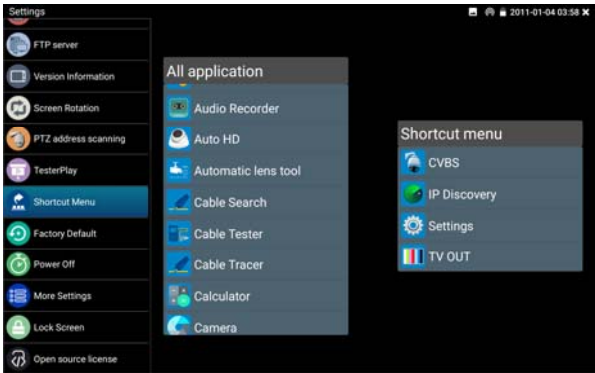
POWER OFF: Turn off the meter.

3.3.2 Short-cut menu

You can call short-cut menu by press tester's "menu" key, you can self- define short-cut menu.



Press the key , you can turn on it, and switch functions, then press  to enter app, tap other area on the screen, to exit the menu.



You can long press any app in the all applications list, it will auto move to shortcut menu. If delete any app in the shortcut menu, please select a app and press several seconds, it will be deleted.

3.3.3 Screen capture

Long press the key "enter", can capture screen interface and save it in any time.



You can go file management to view "file Explorer –sdcard- Pictures—Screenshots".

3.3.4 Link monitor

Tap icon "Link Monitoring" at left corner on the screen to enter.

It can detect instrument port rate 10/100/1000M, signal quality detection, upload and download speed, etc. in real time. It can be used to detect whether the network video access bandwidth of devices such as NVR is normal.



When using a four-core cable to connect to a Gigabit device, would prompt "the link limited".



Advanced link monitor

It is for monitoring CVBS loop, Ethernet statistics, error frame statistics, frame length etc

Link Monitor

50% 100% 2022-03-05 00:45:09

LAN1 Loopback closed

LAN2 Loopback closed

Stop measuring

Ethernet statistics

Type	Bandwidth	Network utilization rate	Upload	Download	Unicast	Broadcast	Multicast
LAN1	0	0	0	0	0	0	0
LAN2	1000Mb	0.0%	0Kb	0Kb	0	3	0

Frame errors

Frame type	Pause	Oversize	Undersize	FcsErr	Jabber	Collision	Fragment
LAN1	0	0	0	0	0	0	0
LAN2	0	0	0	0	0	0	0

Frame size statistics

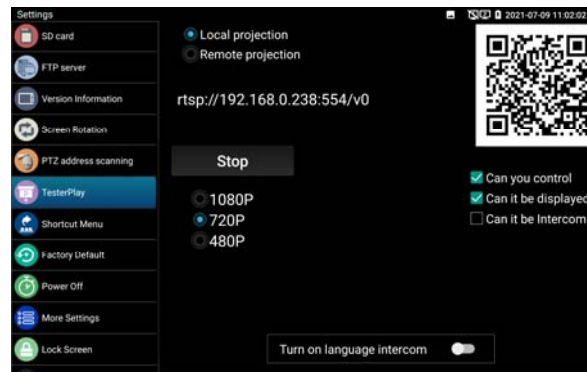
Frame type(Byte)	64	64-127	128-256	256-511	512-1023	>1023
LAN1	0	0	0	0	0	0
LAN2	1	6	0	0	0	0

3.3.5 TesterPlay

Mobile phone projection (only supports phones with Android system)

When using local projection, the meter creates a WIFI hotspot, the phone connects to the meter hotspot, or the meter and the phone connect to the same WIFI network. When using Internet projection, the meter and phone is connected to the Internet.

Click the system setting icon on the main interface, and click the "TesterPlay" app. Click "Start", the meter generates RTSP address, and after installing the client software on the mobile phone, you can watch the real-time projection from the tester, and you also can control the meter remotely.

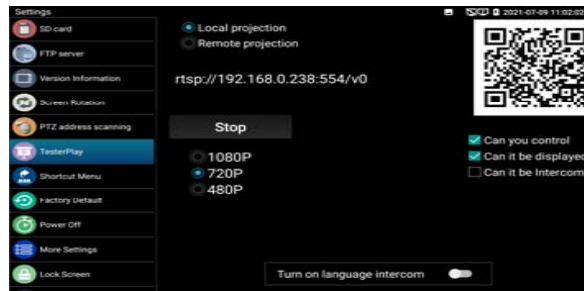


Turn on the voice intercom, you can carry out the voice intercom on the mobile phone and tester.

Note: Please turn on the voice intercom before connecting to the mobile app, otherwise the intercom may be abnormal. If the intercom is abnormal or cannot be intercom, reconnect the mobile app.

Install the "Remote Control" APP on the Android phone, open it and click "Local projection/Remote projection". At this time, the mobile phone will display the real-time screen projection of the Tester, and

you can touch the screen to control the Tester. (If the screen is not displayed, please quickly slide the left menu of the Tester interface system settings or switch the Tester interface)

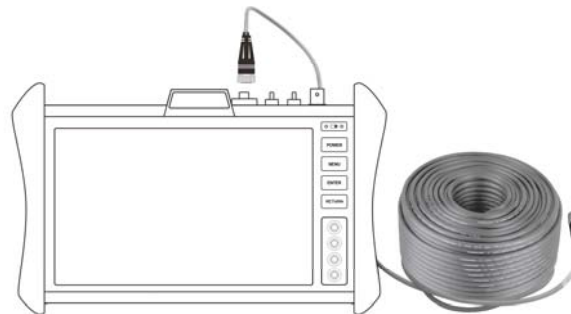


After the voice intercom is turned on, the resonance between the mobile phone and the Tester can be improved by adjusting the distance between the devices or turning down the volume.

Install the VLC player on the PC, open the VLC player "Media - Open Network Streaming", enter the RTSP address above the meter's QR code, and click "Play" to watch the real-time projection of the Tester. (The phone can also install VLC player for screen projection viewing)

3.3.1 OTDR

Connecting fiber→ Setting parameters→Testing→Tracer viewing



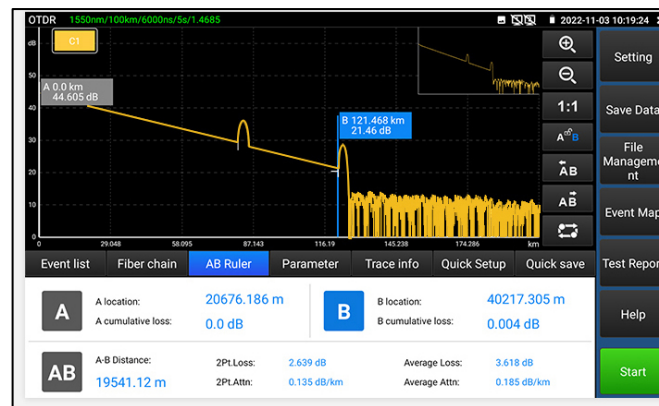
1 Fiber connection

Connect the fiber to the top optical interface of OTDR. It adopts FC-PC optical connector.

Notice: When using OTDR to measure optical fiber, working light in the measured optical fiber couldn't exist. Or the instrument will be damaged.

2 Auto OTDR test

Auto OTDR by default, click "OTDR test" or select wavelength, Pulse width and measurement duration in the "Quick Setup" to start testing. Another parameters setting as below:

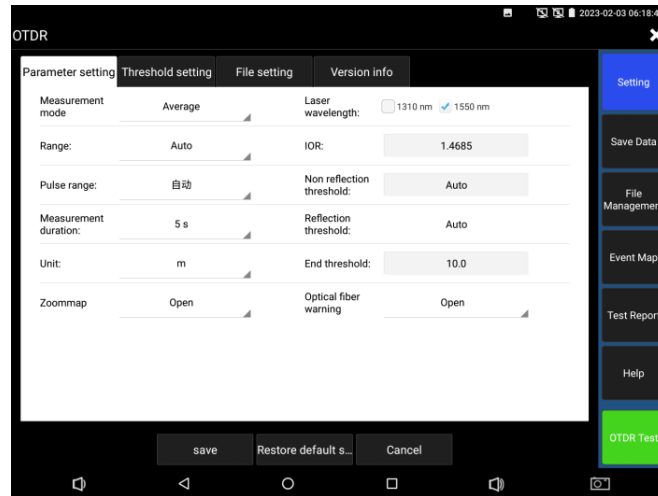


3 Expert OTDR test

Manually to select the range, pulse width, etc parameters, the test result will be more accurate. Can zoom the curve tracer, and view event map details.

Quick test can set laser wavelength, distance range, pulse width and measurement duration parameters.

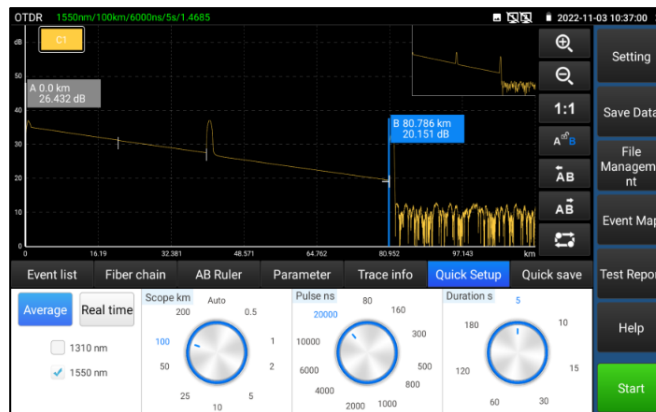
Setting can set laser wavelength, distance range, pulse width, measurement duration, measurement mode, IOR, Non reflection threshold and end threshold parameters, the reflection threshold is the specified item.



4 Setting

1) Quick Setup

Can quickly set wavelength, distance range, pulse width and measurement duration parameter, if find the parameters are properly on testing, can quickly to change them.



2) Parameter setting

Laser wavelength: Selected by user, it provides several options, wavelength of single mode fiber: 1310nm, 1550nm and 1610nm; users can simultaneously select 2 wavelengths at most to measure, and set analysis and file saving with different wavelength. In addition, multi wavelength measurement is valid only under the average measurement mode. Multi wavelength measurement is forbidden under the real-time measurement mode. (If the fiber over 100KM, Please select 1550nm wavelength for testing)

Distance scope: Selected by user, options include “auto, 500m, 1Km, 2Km,5Km,10Km,25Km, 50Km, 100Km and 200Km”. If the length is uncertain, it is recommended to use automatic range, for known length, it is recommended to use a range containing 1.5 times the minimum length.

Measurement duration: 5s, 10s, 15s, 30s, 60s, 120s, 180s is optional, If the current measurement model is real-time measurement, the selected duration of measurement won't play role in the measurement. When need the meticulous and smooth curve, can select the longer measurement time.

Pulse width: Selected by user, options include “auto, 5ns, 10ns, 20ns, 30ns, 50ns, 80ns, 160ns, 300ns, 500ns, 800ns, 1000ns, 2000ns, 4000ns, 6000ns,10000ns, 20000ns”.

Measurement mode: Selected by user, options include “average measurement and real-time measurement”. When selected real-time measurement mode, the selected duration of measurement won't play role in the measurement.

Refractivity: Set by user, the default value is 1.4685. The refractivity is key parameter for calculating the length, please don't modify it at will.

Unit: Set by user, options include “m and ft”

Reflection threshold: No option or user setting is provided in OTDR instrument.

Non-reflection threshold: Set by user, input scope: 0.01~2.99, the default value is: auto. When the manual setting value is 0.00, it will transfer to auto value.

End threshold: It is used as the threshold value for looking over event point when the instrument treating data, i.e.: event points that lower than the set value of end threshold will be removed, while the event points that higher than the set value of bundling threshold will be displayed. For options set by user, input scope is: 1~19.99dB, the default value is: 5.00dB.

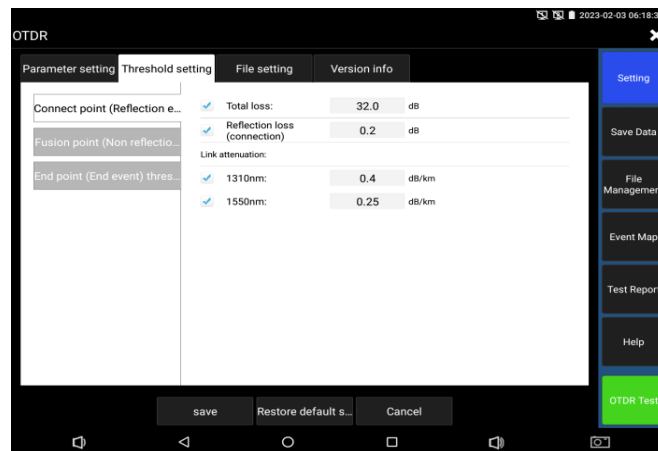
Optical warning of optical fiber: Options include “ON and OFF”, When in ON, if the optical fiber has

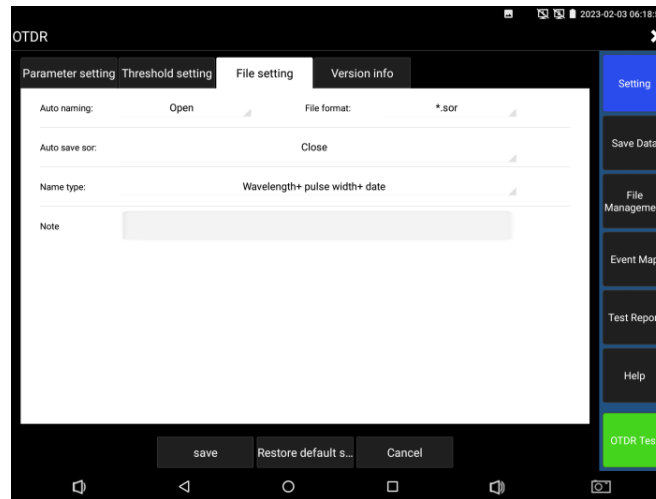
optical signal, the instrument will pop up alarm.

Default setting recovery: Distance scope is “auto”, pulse width is “auto”, duration of measurement is “5 s”, laser wavelength is “1550nm”, measurement mode is “average mode”, length unit is “meter”, refractivity is “1.4685”, back scattering coefficient is “auto”, reflection threshold is “auto”, non-reflection threshold is “auto”, end threshold is “5.0dB”, When finished setting, please click “Save” to save the parameters.

3) Threshold setting

In Event map, can set loss and link attenuation parameters of fusion and connect point event, If less than reference value, then judge as PASS, otherwise, will judge as Failed.





If not select the parameter, then will not judge.

Total loss: The total loss value of fiber link. Input scope: 0-60, If less reference value, then judge as PASS, otherwise, will judge as Failed.

Reflection loss (connect point): The loss value of connector. Input scope: 0-60, If less reference value, then judge as PASS, otherwise, will judge as Failed.

Non reflection loss (fusion point): The loss value of Fusion point or bend point fiber. Input scope: 0-60, If less reference value, then judge as PASS, otherwise, will judge as Failed.

Link attenuation coefficient: Different wavelength of fiber, the attenuation coefficient is different. Input scope: 0-60, If less reference value, then judge as PASS, otherwise, will judge as Failed.

4) File setting

Auto naming: Options include “Open and Close”. When the auto naming status is “ON”, the auto naming category is optional. When the auto naming status is “OFF”, the auto naming function is off.

File format: Set by user, options include “otdr and sor”format.

Name type: Optional automatic naming of wavelength, pulse width, date, range, comment, etc. It will take effect when automatic naming is turned on.

Note: It is used for edit the content of name type.

5 Curve tracer

When setting and saved the parameters, click “Start” to start the testing, the wavelength/ distance range/pulse width/duration of measurement/refractivity will display at the top of interface, when finished the testing, will create the trace. Click the “Stop” to end the testing.

Definition of trace: After the first measurement, reflection power diagram is displayed as distance function, the diagram is called trace.

Trace displays the measurement result by graphic mode on the screen. The vertical axis represents the power, while the lateral axis represents the distance. The event point is marked with red symbol.



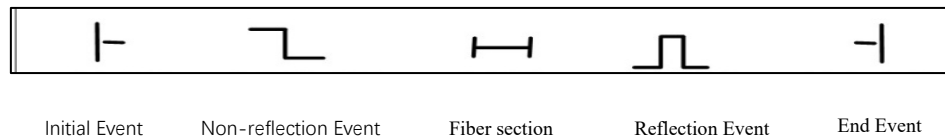
① Trace area ② Trace operation button area ③ Information area ④ Menu button area

6 Instruction of Events Categories

Events on optical fiber indicate these abnormal points that brought loss or sudden change of reflection power beyond normal scattering of optical fiber material, including various kinds of connection and bending, loss of flaw or fracture on the optical fiber link.

Event points displayed on the screen is the abnormal points in the optical fiber that led to deviation of trace, which are classified with special symbols on the trace.

Events include “reflection event” and “non-reflection event”.



Initial Event

“Initial event” on the OTDR trace is the event that marks the starting point of optical fiber. Under default conditions, “initial event” is located at the first event (usually be the first connector of OTDR) of the tested optical fiber. The event belongs to reflection event.

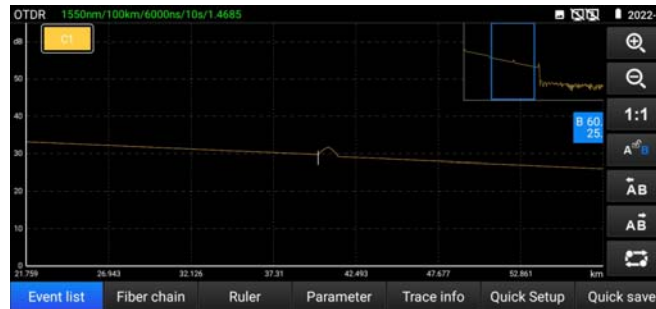
End Event

“End event” on the OTDR trace is the event that marks the terminal of optical fiber. Under default conditions, “end event” is located at the last event of the tested optical fiber. The event is called optical fiber terminal event (usually be the end or fracture point of the tested optical fiber), which usually belongs to reflection event.

Reflection Event

When optical pulse energy is reflected (such as on the connector), reflection event occurs. On the trace, reflection event is shown as peak signal, as shown in the picture.

Non-reflection Event



Non-reflection event brings loss on the whole transmission link of optical fiber, but no light reflection.

On the curve, non-reflection event is shown as drop of optical power, as shown in follow picture.

Event Inspection

OTDR sends optical pulse into the optical fiber that waited for inspection, then, begins to accept the returned optical signal immediately, and calculate the distance of “event” in the optical fiber. The further the event is, the longer the time for returning back to OTDR will be. The distance can be

calculated according to the time when receiving the event.

Through inspecting the curve of the reflected signal, the optical transmission characteristics of optical fiber, connector and joint can be confirmed.

7 Instruction of Info Window Area of the Main Interface

Contents of info window include measurement parameter, event list, scale plate A/B, and analyzed parameter, etc.

Data displayed in the event list include: serial number, category, position, plug-in loss, attenuation coefficient, echo loss, and accumulate loss. “Serial number” indicates the information of the nth event that currently displayed on the trace graph; “Category” indicates the event category of the event point; “Position” indicates the distance from the initial point of the optical fiber to the event point; “Plug-in loss” indicates the quantity of plug-in loss of the event; “Attenuation coefficient” indicates the attenuation characteristics of the optical fiber from the last event point to the current event point; “Echo loss” reflect the reflection value of the event point; “Accumulate loss” indicates the loss value of optical fiber from the initial point to the current event point. Contents of information of event list are shown in follow picture. The event point data and event section data are separately displayed in the event list. Serial number of event only numbers the event points. Event category displays the following information by picture: initial event, optical fiber section, reflection event, non-reflection event, and end event. Corresponding pictures of event category are shown in follow picture. When looking over information of event list, click the icon “event” through the touch screen, then the information of event list can be found in the info window.



Optical fiber link information includes file name, measurement date, measurement time, link length, link loss, link attenuation coefficient, and quantity of event. Definition and setting of file name, duration of measurement, and measurement date are shown in “set” menu. When looking over information of optical fiber link, click the “fiber link” through the touch screen, then the information of optical fiber link can be found in the info window. Contents of information of optical fiber link are shown in follow picture.



Information of scale plate includes position of point A (or B), plug-in loss of point A (or B), back scattering coefficient of point A (or B), accumulate loss of point A (or B), distance of A B section, loss between two points of AB section, attenuation coefficient between two points of AB section, and LSA attenuation coefficient of AB section. Sign post is used to mark and analyze a single event, curve section and distance. The information of sign post shows distance, loss and attenuation coefficient between sign posts. When changing any sign post, the record value will also be changed along with it. When looking over information of scale plate, click the icon “scale plate” through the touch screen, then the information of scale plate can be found in the info window. Contents of information of scale plate are shown in follow picture.



Measurement parameter includes laser wavelength, distance scope, pulse width, refractivity, back scattering coefficient, reflection threshold, bundling threshold, non-reflection threshold, and duration of measurement. The definition and setting are shown in “setting” menu. Can click “Fiber link” to view the fiber link information, Fiber link information is shown in follow picture.



8 Trace zoom

1) Touch screen zoom operation instructions

Use the center point of the two fingers as the center to zoom. When the horizontal angle between the two fingers and the center is less than 45 degrees, zoom horizontally.

When the horizontal angle between the two fingers and the center is more than 45 degrees, zoom vertically. Touch the top right thumbnail twice to restore the original state of the trace.

Trace Movement

Press the trace and move in any horizontal or vertical direction.

2) Instruction of Trace Operation Button Area



Horizontal amplification: click the button on the touch screen to enlarge the curve horizontally.



Horizontal reduction: click the button on the touch screen to reduce the curve horizontally.



1: 1 restore: restore the scaled curve in the original 1:1 ratio.



After clicking the button on the touch screen, in this state, the left and right arrow keys move the a pole.



After clicking the button on the touch screen, in this state, the left and right arrow keys move the b pole.



After clicking the button on the touch screen, in this state, the left and right arrow keys move the a and b pole at the same time.



Move the marker to the left and touch the screen to click the button, the pole A/B in the selected state will move to the left.



Move the stick to the right and touch the screen to click the button, the pole A/B in the selected state will move to the right.



Track switching. This button takes effect only when multiple curve tracks are opened. After clicking the button on the touch screen, you can switch between different curves.

9 Date Saving

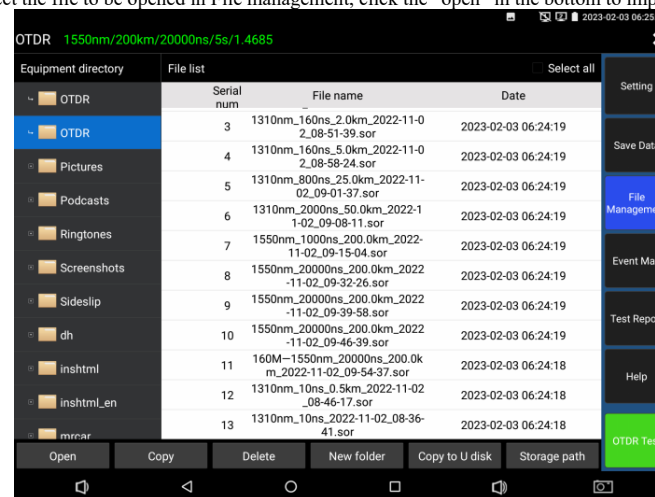
Click “Quick Save” will auto naming and save the file, according to “Setting-file setting” name type to name the file.

Click the icon “Save date” to select the path to save the file and modify the file name. Can choose the save file format in “Setting-file setting”, the file support PDF and .SOR file format.

Default save files in the internal SD card of the OTDR directory.

10 Data import

Select the file to be opened in File management, click the “open” in the bottom to import the curve file.



11 File management

Open: Open the selected the curve file, 4 traces can be simultaneously selected at most on main page.

Rename: Rename the checked file or folder.

Copy: Copy the selected file or folder to External or internal SD card.

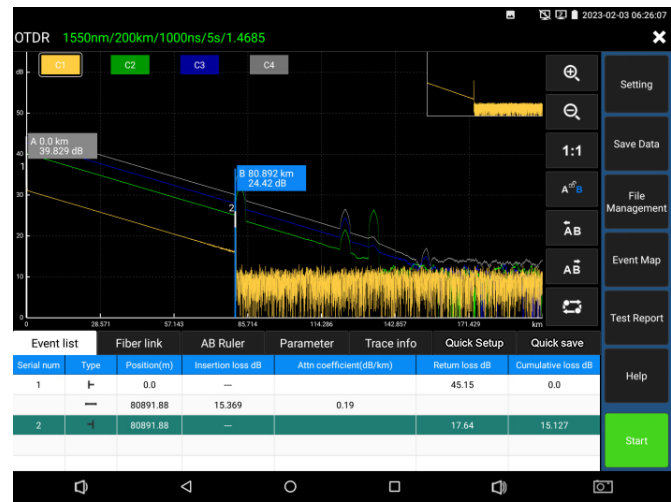
Delete: Delete the selected file or folder.

New folder: Create a new folder in the selected directory of "Equipment directory". The new folder will be used as the default storage path.

Storage path: Set or view the current storage curve path.

12 Analysis of “Multi-traces setting”

Click the trace 1/2/3/4 of “Multi-traces setting”, 4 traces can be displayed at most. The opened traces are distinguished through different colors.



13. Instruction of Button “Trace 1/2/3/4”

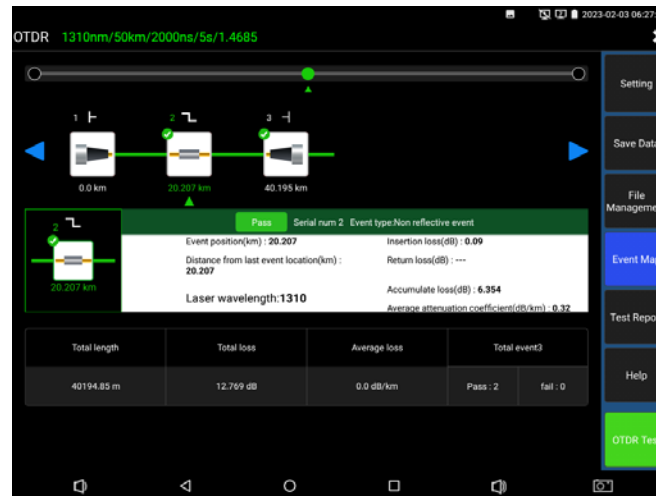
Button icons in the trace operation area are valid to all opened traces simultaneously. Current trace can be switched through the trace switching button or through clicking “C 1” (or “C 2”, “C 3”, “C 4”) directly. The data in the info window is that of the current trace. Or click C1/C2/C3/C4 at left upper corner to switch the trace.

After the scaling, switching the traces of different ranges will automatically restored to 1:1. Switching the traces of the same range will not restore the scaling.

Click “delete” to remove the trace.

14 Event Map

Display the quantity of event, link loss, link length, link attenuation coefficient. Click again to switch to trace.



Initial Event: The starting point of link.



Reflection Event: Connector, reflection event is shown as peak signal.



Non-reflection Event: Fusion point or optical fiber bending, non-reflection event is shown as drop of optical power.



End Event: The terminal of fiber, the end event with reflection peak is the normal end.



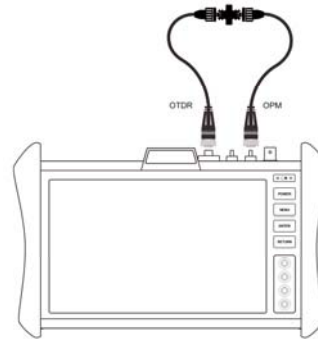
End Event: Optical fiber bending, the end event with non-reflection peak is the fracture.

15 Test report

Can save trace trajectory, event, parameter, optical fiber link, rules list ,etc information, can save the 4 traces simultaneously, can create EXCEL or FDF file test report.

3.3.2 Loss test

Use short standard jumpers to connect the OTDR and LS ports of the instrument respectively to set the reference value.

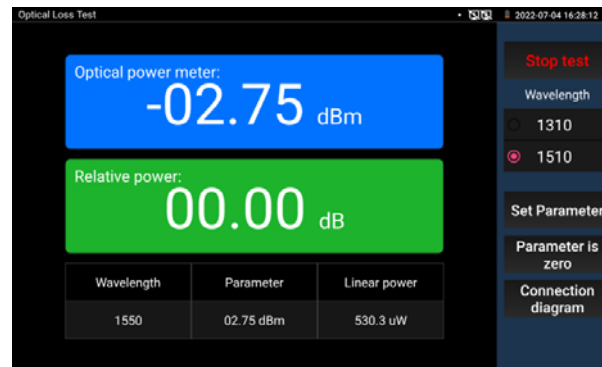


After setting the reference value, let's talk about the optical device being connected to the OTDR and LS interface of the instrument

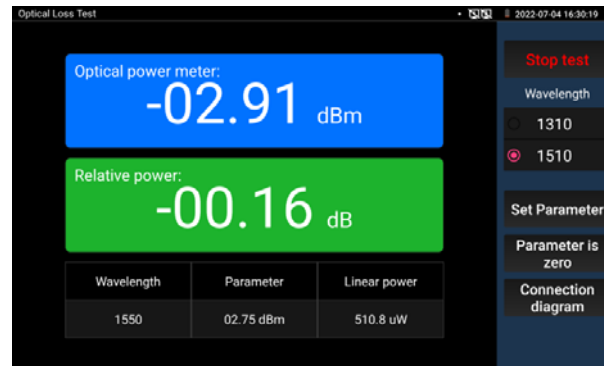
It is used to test the insertion loss of optical passive devices.

Click loss test of optical fiber test to enter interface.

Calibration: Connect standard jumper to meter's OTDR and LS port, click "Start", after power is stable, click "Reference"



After setting the reference, connect the tested optical device to meter's OTDR and LS port, click "Start", the relative power on the interface is insertion loss value of the tested device

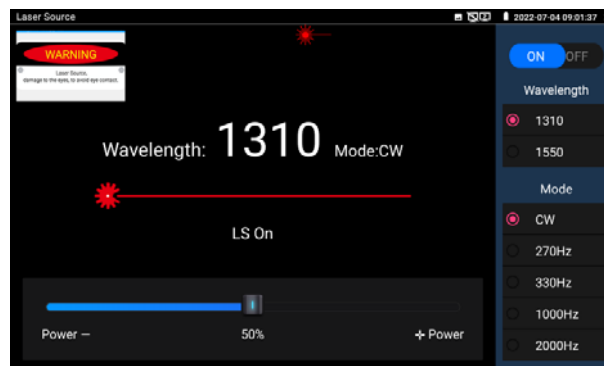


Please calibrate before each test, the test results will be more accurate

3.3.3 Laser source

Laser source output stable power laser with same wavelength as OTDR function,

Which be used for engineering and maintenance of optical fiber communication and CATV, fiber parameter setting, the production and research of optical components.



Open/Off: Turn on/off the laser source

Wavelength: 1310/1550/1610 are optional, the wavelength same as OTDR module

Mode: Switch the frequency of laser source, CW/270Hz/330Hz/1000Hz/20000Hz

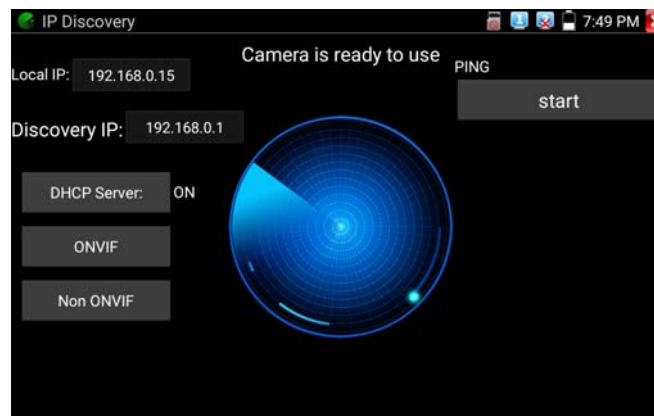
Power: Through the slider to adjust the power, the power range is 1-100

WARNING: Please don't look the laser directly, will damage the eyes.

Stability: CW, $\pm 0.2\text{dB}$ /15min (tested after 15min turn on laser source)

3.3.4 IP discovery

Press IP discovery , tester auto-scan the whole network segment IP, as well as auto-modify the tester's IP to the same network segment with the scanned camera's IP.



Local IP: Tester's IP address, Tester can auto-modify the tester's IP to the same network segment with the scanned camera's IP

Discovery IP: Connected tester equipment's IP address. If the camera connected to the tester directly, tester will display the camera's IP address, if tester connects to Local Area Network, it displays the current IP address.

Temp IP: After searching IP address, the modified tester's IP address will not be saved, if you do not select "Temp IP" the modified tester's IP address will auto-save after searching.

Start: PING function, Click "Start", can PING camera's IP

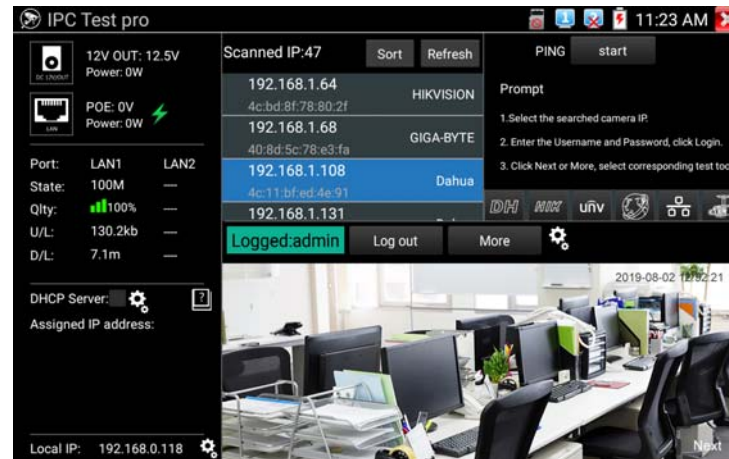
Rapid ONVIF: Rapid ONVIF Quick link

NON ONVIF: NON ONVIF Quick link

Applicability: Using IP discovery app, you don't need to know the first two digits of camera's IP address, it can auto-scan the whole network segment IP, and auto-modify tester's IP address, greatly improved engineering efficiency .

3.3.5 IPC Test pro

Camera test often need to open multiple apps, "IPC Test pro" app, using new technology and combine multiple functions to one APP, it can increase efficiency.



Application:

Support multi-segment IP address scan, can visual display camera manufacturer, click IP address to play the image.

Connect IP camera, can supply the power to PoE camera.

Real-time display network port connection status.

By one key to connect camera test tool, browser can login and configure camera.

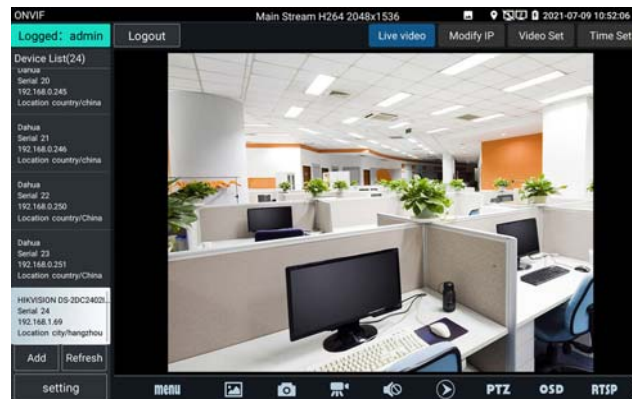
Batch activate Hikvision and Dahua cameras.

3.3.6 Rapid ONVIF

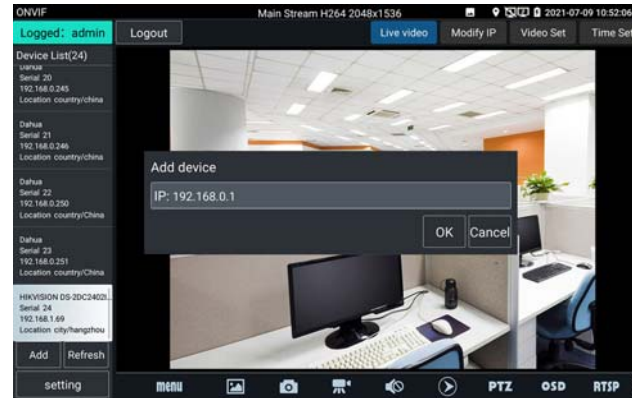
Rapid ONVIF can display 4K H.265/4K H.264 camera image by tester mainstream, one key to activate Hikvision camera.

Rapid ONVIF can display 4K H.265/4K H.264 camera image by tester mainstream, one key to activate Hikvision camera

Press  enter ONVIF function, the meter auto scan all ONVIF cameras in different network segments. It lists cameras name and IP address on the Left of screen. Tester can auto login camera and display camera image. Factory default use admin password to auto login, if you modified the password, then default use the modified password to login.



If you select ONVIF Rapid mode, the meter automatically scan different network segments for ONVIF cameras. It lists the camera name and IP address on the Device List. Tester can auto login camera and display camera image.



Click the button “Refresh”, tester will scan the ONVIF camera again. Click the newly displayed ONVIF camera on the “Device List”. The tester will show the IP camera’s relative information and settings.

Pop-up settings menu when click the icon of the upper left corner



Cross network scan: After open this function, enter “Setting” - “IP Settings” - “Advanced” to add other network segments IP, Rapid ONVIF function can across network segments to scan camera’s IP.

Auto Login: After open this function, tester can auto login camera and display camera image (The login password is the same with last time, the first time using password is the default password "admin")

Video transmission protocol: UTP and TCP protocol

Open password cracker: Cracks password of cameras

View manual: Open Manual

Restore Defaults: Revert “Rapid ONVIF” to default settings

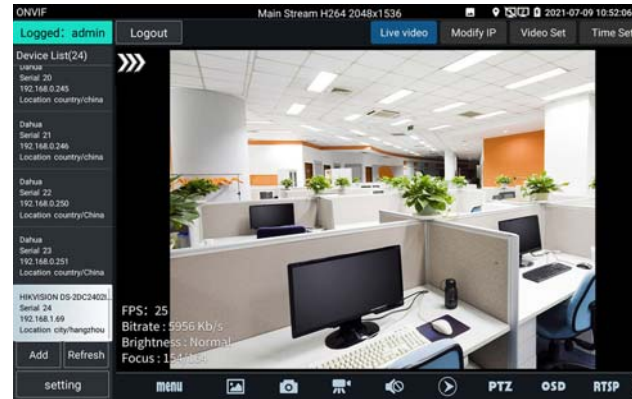
Confirm: Save the modified parameters

Click “MENU” icon to open camera setting .

Live Video: Click “Live Video” to view the live video feed from the IP camera. To make the image full screen, double tap on the video. Stretch two fingers outward or inward on the touch screen to zoom the image in or out.

While in the “Live video” menu, click “Video Menu” at the top right of the image to access the following tools: Snapshot, Record, Photo, Playback, PTZ and Settings

ONVIF PTZ control: Tap the image in the direction you want the PTZ camera to move. Tap the left side of the image to move left, right to go right, up to go up and down to go down. Compatible IP PTZ cameras will rotate accordingly. PTZ rotation direction is displayed on top left corner of the image.



IP camera video settings: Click “Video Set” to enter the IP camera’s encoder and resolution settings. Make the desired changes and click “OK” to save.

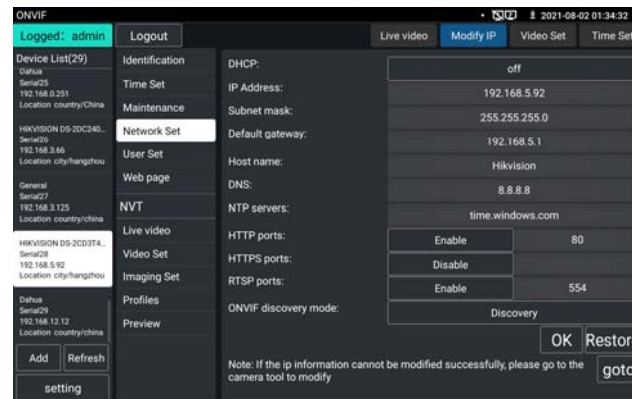
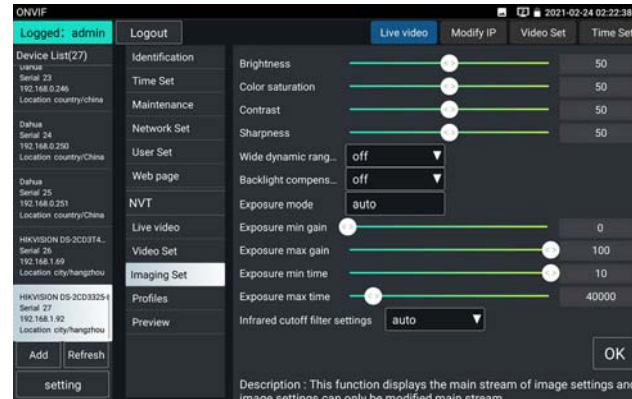
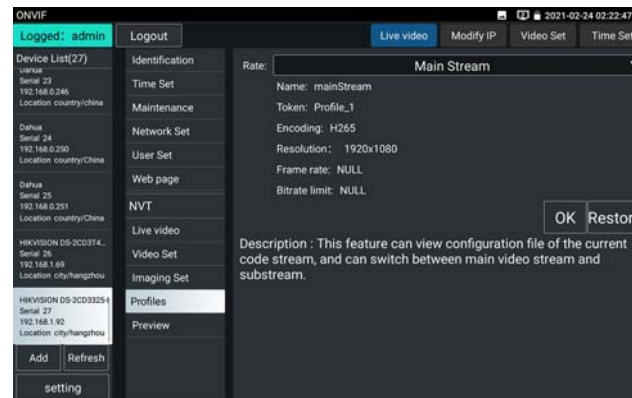


Image setting: Click “Imaging Set” to adjust image brightness, saturation, contrast, sharpness and backlight compensation mode.

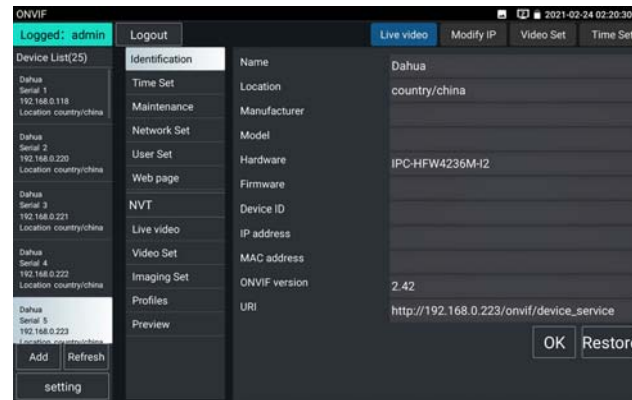


Profiles: Click “profiles”, can view video streaming current configuration files, as well as switch between Major stream and minor stream .

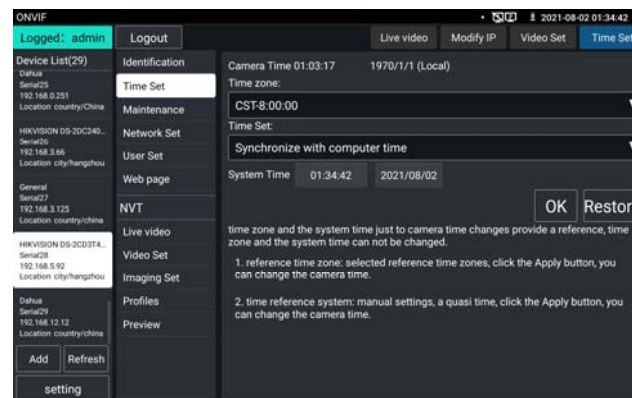


Preview pictures: Quickly preview and zoom in or out pictures, automatically and manual refresh

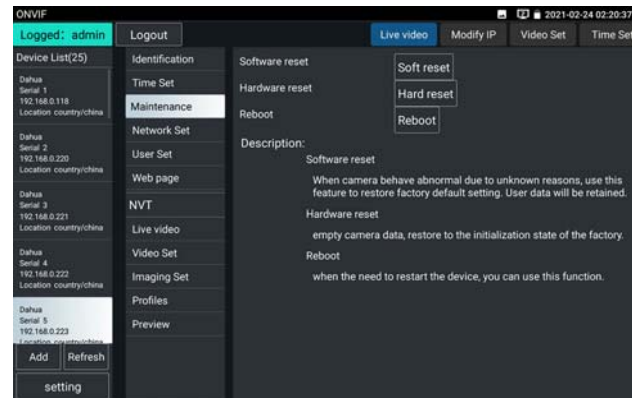
Identification: click “Identification” to view information of the camera



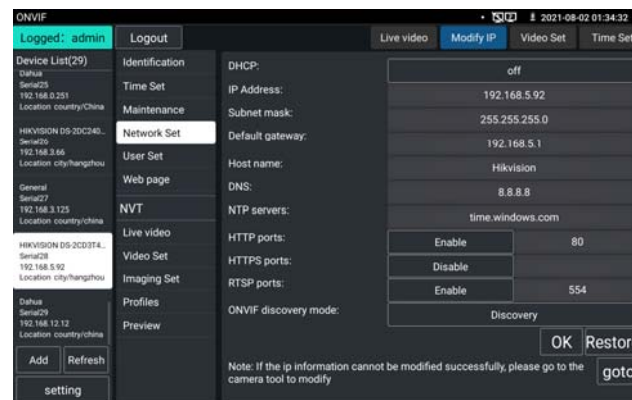
Time set: click "Time set", Select "Manual set" to set up the time of camera



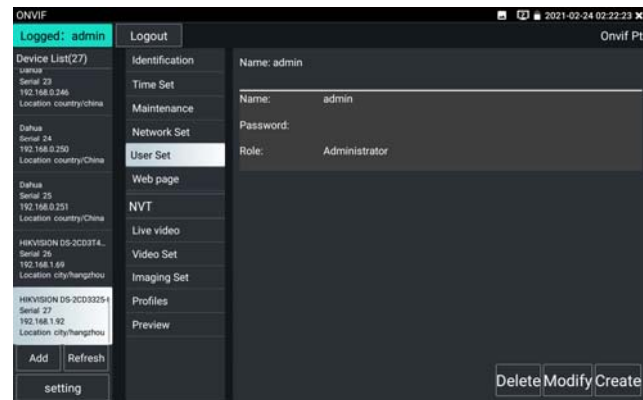
Maintenance: For camera software reset or restore to factory settings.



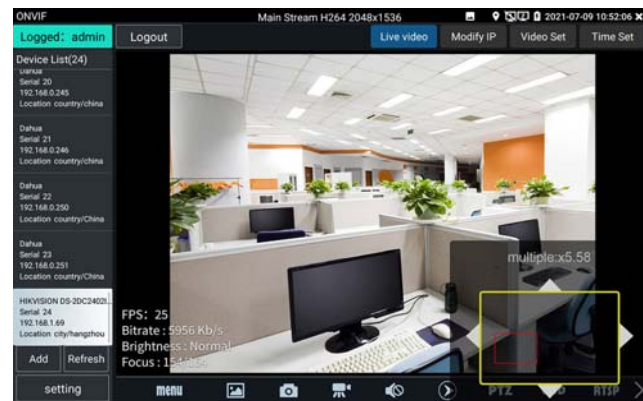
Network setting: Click “Network Set” to change the IP address. Some cameras cannot support change IP address, so there is no change after saving.



User Set: Modify camera user name, password etc. parameters



Zoom in image: Press the  key to enter the zoom mode. Press it again to exit zoom mode. When the image is enlarged tap left, right, up or down on the image to move the whole image on the screen



When the image is enlarged, if not operate on touch screen, it can operate by the keyboard, press the key "ZOOM+" to zoom in , press the key "ZOOM-" to zoom out ,press upward and downward key to move image.

If it is network video input to the tester, as the tester supports resolution up to 1080p, the input image will be very clear after it is enlarged. This is greatly helpful for the installers to ensure the IP camera's video coverage and decide the IP camera's install site.

Image can only be enlarged on SD mode (The icon "ONVIF" is SD mode.)

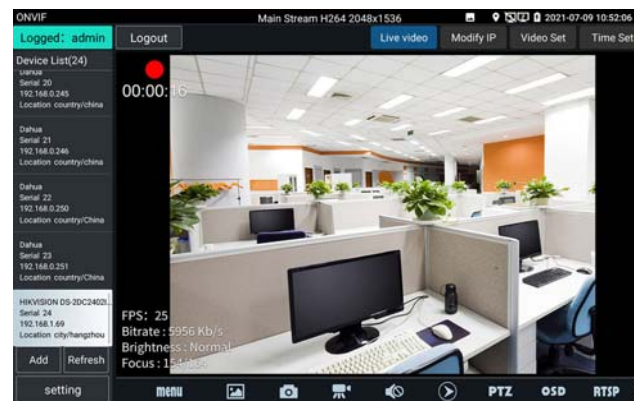
Select relative function on the bottom Toolbar to operate, "Snapshot", "Record", "Photos", "Video playback", "Storage set", "PTZ control" etc.

Snapshot: Click bottom "snapshot" to screenshot the image and store it to SD card.

if select manual storage, appears dialog box "Input Name", user-defined the files name (by Chinese character, English letter, or digit) to save in SD card, if select "Auto-storage", the tester auto stores the files after snapshot.

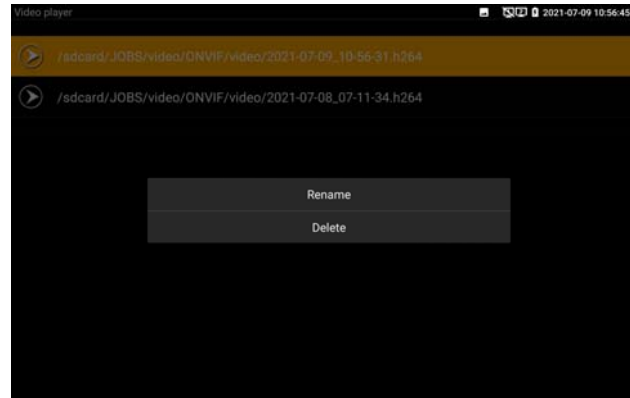
Record: When you click bottom the "Record" icon, video starts recording. A red recording icon appears the screen and begins to flash and a timer appears indicating the time elapsed for the video.

Click on the "Stop" icon to stop recording and save the video file to the TF card.



Playback: Click the "Playback" icon to view saved videos. Double click the video you want to play.

Click to return to the last menu

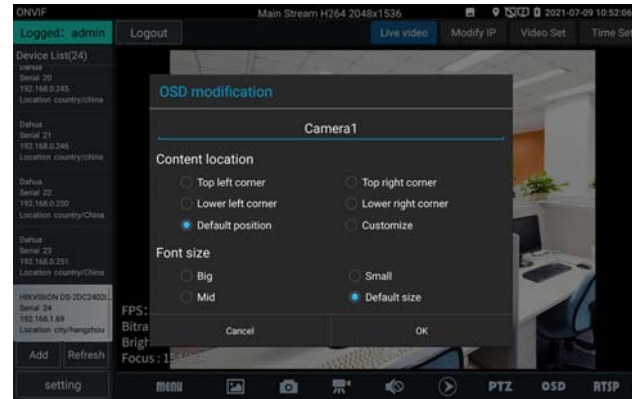


To rename or delete a photo, click and hold on the file until this screen appears:

Video files can play in the Video player on the main menu.

Modify channel name: clicking "OSD" will pop up OSD settings, including time, channel name and other optional items.

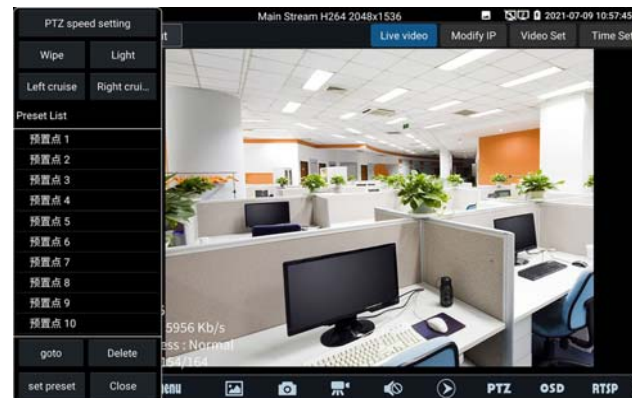




PTZ

Set preset position: Move the camera to preset position, enter the preset number on the Bottom right corner to complete position preset.

Call the preset position : Select the preset number on the left, click "Call" to call preset



PTZ Speed set: Horizontal and Vertical Speed set



RTSP: Get RTSP address of the current camera

Doc: Auto generate test reports document of camera, click "generate document". Click Preview to view the report document



Enter the camera test information, click "Create Document" to complete the report.

Enter simple message

Create documents

Job/Project name:

Operator:

Customer name:

Company:

Location:

Address:

Tel/Email:

choose photo

**can skip

Click doc menu again, you can preview the report document.

2016-09-02-06-48-32

Saved on device

1/1

Test results

Maintenance Company : zz client : zz
Contact : zz client address : zz
contact number : # client number : yy
Test time : 1472798912242

Device Information
Camera name : HIKVISION%20DS-2CD3T45-I3
Camera Model : DS-2CD3T45-I3
Camera time :

network status
ip : 192.168.1.64
subnet mask : 255.255.255.0
gateway : 192.168.1.1
DNS : 8.8.8.8
MAC : c4:2f:90:73:a8:0e
Maximum support Bandwidth : 100Mb/s
Network transmission mode : Full
Network traffic :

Image Information
Encoding format : H264
Resolution : 2560x1440
Frame rate : 25
Bit Rate : 4096
photo path :

Icons description: the description of function icons on the bottom toolbar

3.3.7 NON ONVIF

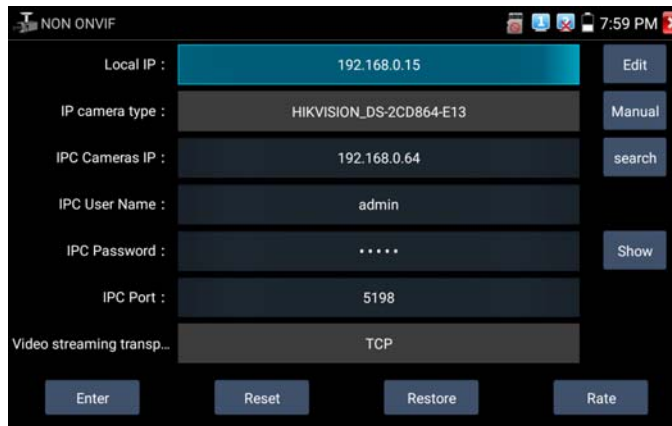
Display image from the 4K H.265 camera by mainstream

Click icon  to enter IP camera test



Note: Currently, the IPC Test App only supports some brands' specific IP cameras, these include specific models made by ACTI, AXIS, Dahua, Hikvision, Samsung, and many more. If the camera is not fully integrated, please use the ONVIF or RTSP apps.

IPC test interface



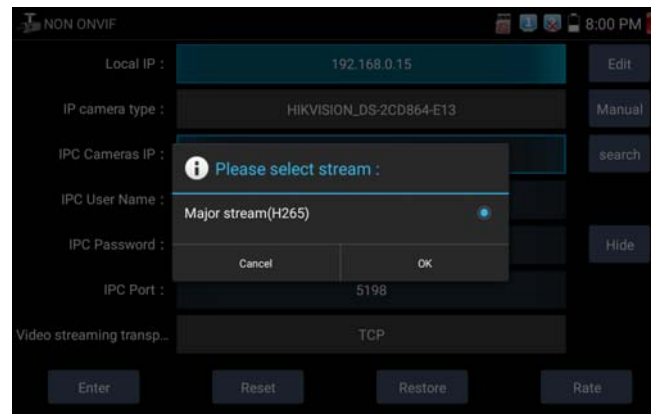
Local IP: This is the tester's IP address. Click "Edit" to enter "IP setting" and change the tester's IP address settings.

IP camera type: Click on the IP Camera type to select the Manufacturer and model number of the integrated IP camera.

"Manual": Click IP camera type, list Honeywell, Kodak, Tiandy, Aipu-waton, ACTi, WoshiDA IP camera etc. If the brand has offered official original protocols, pls select camera type, input IP camera address, user name and password, click "official" to enter the camera image display interface (Currently, only support DAHUA official protocols)



Stream code: When test camera via RTSP, you can select mainstream or sub stream to test (if camera's RTSP have not been start or without, it will tip "auto match fail, please switch to manually selecting").



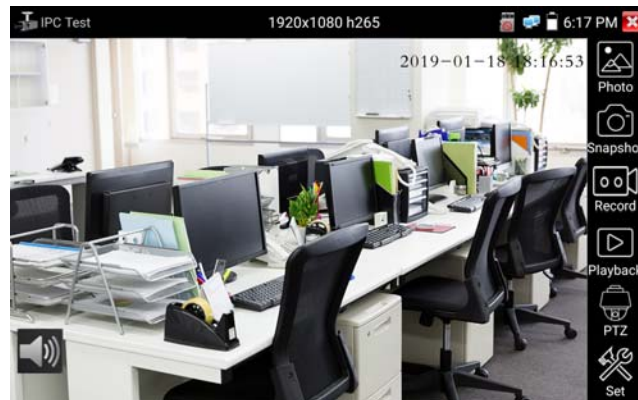
IP Camera's IP: Enter the IP camera's IP address manually or click "Search" to auto-scan for the IP camera's IP address. It is better to directly connect the IP camera to the tester so the search results will only display the camera's IP address. If the tester is connected to a PoE switch, it will find and display several IP address.

IPC User Name: Enter IP camera's user name.

IPC Password: Enter IP camera's login password.

IPC Port: When you select the IP camera type, it will default the camera's port number and doesn't need to be changed.

After all settings are completed, click "Enter" to view the live video.



If IP address setting has error or IP camera is not connected.. The tester prompts "Network Error"

Click  to quit from image display and return to IP camera test interface.



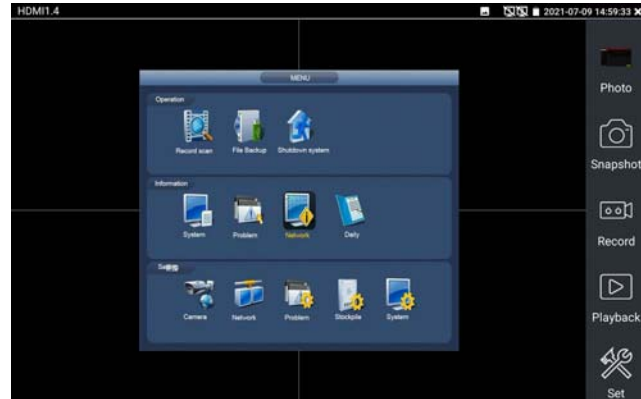
Once you are viewing video on the IPC Test app, you will see the "Video Menu" icon on the top right. This button will give you access to Snapshot, Record, Photo, Playback, PTZ, and Set. Please refer to the ONVIF section to use these functions.

3.3.8 HDMI IN

HDMI in HD signal test, Tap icon "  "to enter

When tester receives HDMI in image, the top tool bar shows the resolution of this image. You can select "resolution" to set resolution in the setting menu. Tap screen by twice, full image display.

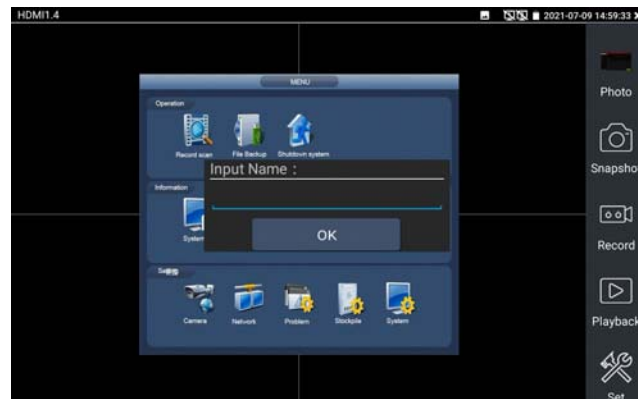
Support resolution up to 4K_3840*2160/2K_2560*1440P/1920×1080p /1920×1080i /720×480p /720×576p /1280×720p/1024×768p/1280×1024p /1280×900p /1440×900p



(1) Snapshot

Click the icon "Snapshot", when the video in, to take a picture and save the current video frame in the SD card as JPEG file.

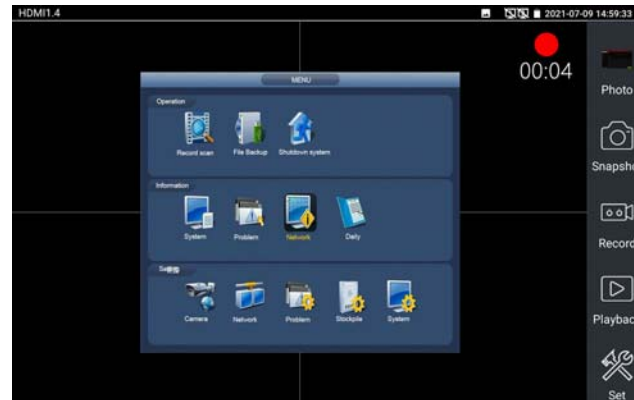
If the unit is set to the manual mode an "Input Name" pop up box will appear and you can enter a title for the snapshot. If the unit is set up to automatically set file names, this box will not pop up.



(2) Video record

When you click the "Record" icon, video starts recording. A red recording icon appears on the screen and begins to flash and a timer appears indicating the time elapsed for the video. Click on the "Record" icon again to stop recording and save the video file to the SD card.

if select manual storage, before recording begins, appears dialog box "Input Name", user-defined the files name(by Chinese character, English letter or digit) to store in TF card, tester will hereby store the files in TF card after recording. if select "Auto-storage", tester will auto store the files in TF card after recording.

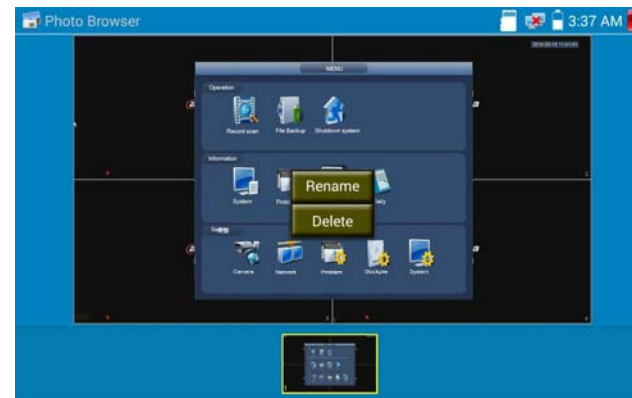


(3)Photo

Click the icon "photo" to enter, click the selected thumbnail photo to display it on the screen.

Double-tap the image you want to view to make it full screen. Double-click again the photo to return.

To rename or delete an image, click and hold on the file until this screen below appears

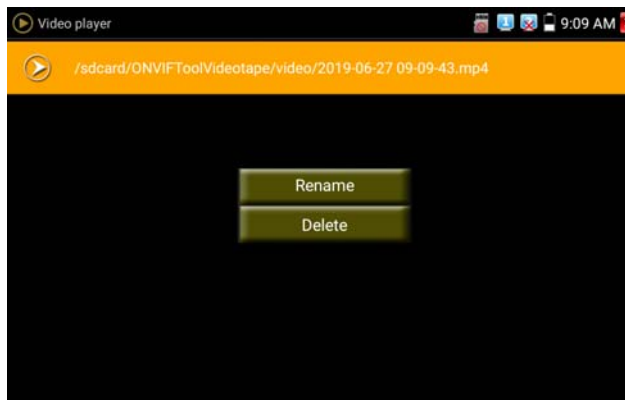


Click  to close and return to PTZ controller.

(4) Recorded video playback

Click the "Playback" icon to view your recorded videos. Tap on the video file image you want to watch.

To rename or delete a video, click and hold on the file until this screen appears:



Video files also can play in the main menu "Video Player".

3.3.9 Analog camera test

Analog camera test and PTZ control, click icon  to enter

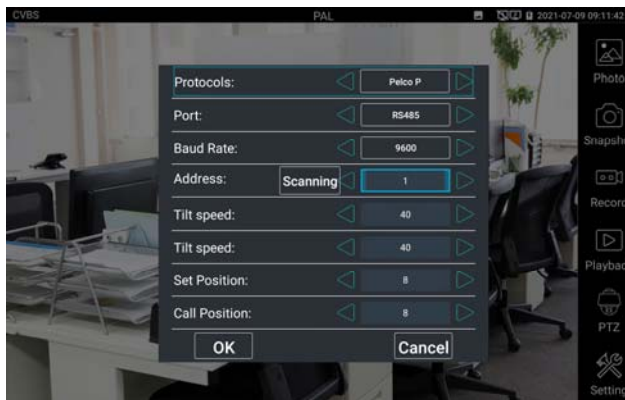
Select relative function on the right side Toolbar to operate, functions including "Photos", "Snapshot", "Record", "Playback", "PTZ", "Set".

Click X, or press  to quit.

Click the screen twice quickly, can be full zoom in on the touch screen.

1) PTZ controller parameter setting

Select and click icon "PTZ", to enter PTZ setting:



A. Protocol

Use the up and down arrow keys to move the yellow cursor to the "protocol", set corresponding Protocol and support more than thirty PTZ protocols. Such as Pelco-D, Samsung, Yaan, LiLin, CSR600, Panasonic, Sony-EVI etc.

B. Port

Click and move to "port" Select the communication port for the PTZ camera controlling (RS485)

C. Baud

Move the yellow cursor to "Baud ", Select the baud rate according to baud rate of the PTZ camera.(150/300/600/1200/2400/4800/9600/19200/57600/115200)

D. Address

Set the ID according the ID of PTZ camera (0~254), the setting address data must be consistent the speed dome address.

E. Pan speed: Set the pan speed of PTZ camera (0~63)

F. Tilt speed: Set the tilt speed of PTZ camera (0~63)

G. Set preset position (Set PS)

Click and select "Set PS", set and save preset position number(1~128).

H. Call the preset position (Go PS)

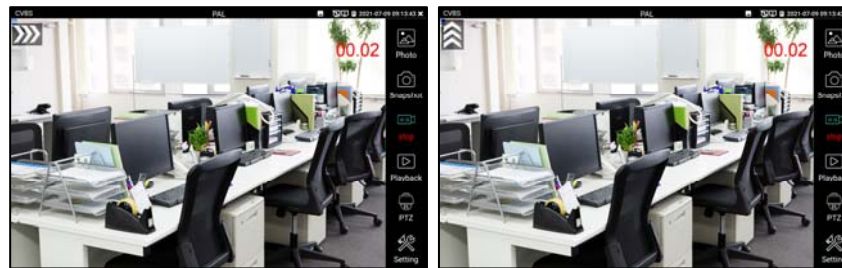
Click and select "Set PS", set and save preset position number (1~128), click "sure" to save, Call some special preset number, can call the dome camera menu



Check and set the protocols, address, interface and baud, all must be consistent with the dome camera, then the IPC tester can test. After setting the parameter, the tester can control the PTZ and lens

To control PTZ by screen touch:

Tap left, right, upward and downward on the touch screen to control the PTZ rotation direction. By two fingers move outward and inward on the touch screen to zoom in and out the PTZ.



PTZ Control:

Press the key     control the PTZ direction of rotation

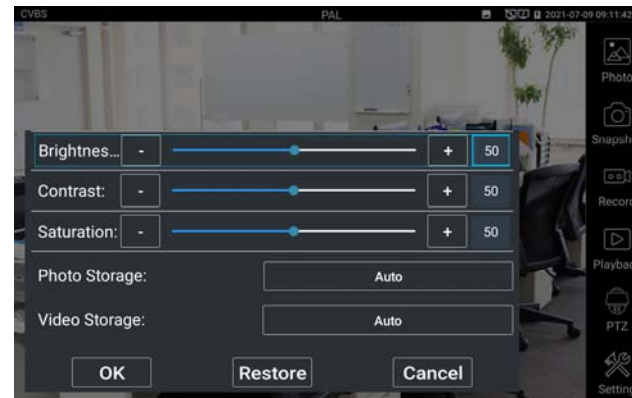
Press the key  or  , switch on or turn off the aperture.

Press the key  or  , adjust the focus manually

Press the key  or  , manually adjust the zoom

2) Video and storage setting

Click icon "set", to enter and set analog video image brightness, contrast, color saturation, as well as the file storage way after snapshot and recording, support auto-storage and manual storage. When select manual storage, user can name and store the files.



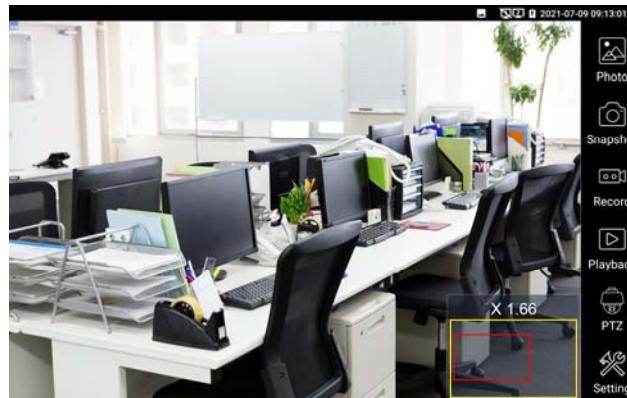
3) 4 x zoom image display and Video out

When image input, press  to enter "zoom", press it again to quit.

Using the touch screen to control PTZ camera movement:

Tap left, right, upward or downward on the video image to move the PTZ camera in a desired direction.

Stretch two fingers outward or inward on the touch screen to zoom the image in or out.



If not use touch screen to operate, press the key  to zoom out, press the key  to zoom in, press upward and downward key to move the image.

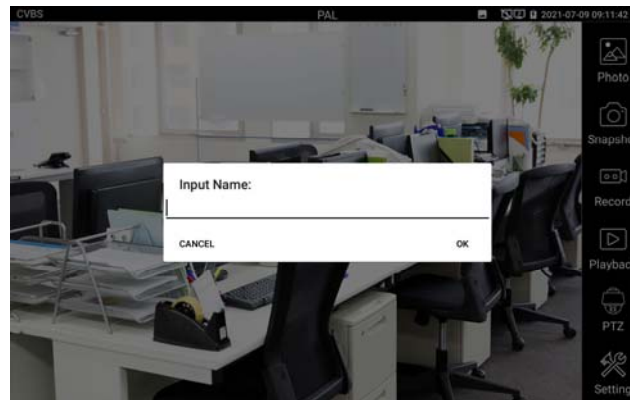


For analog video input, as the resolution is 720*480, it is normal that the zoom in image is not clear. But for network digital video input, as it supports resolution up to 1280*960, the zoom in image is still very clear. This is very helpful for IP camera installation.

4) Snapshot

Click the icon "Snapshot", when the video in, to take a picture and save the current video frame in the SD card as JPEG file.

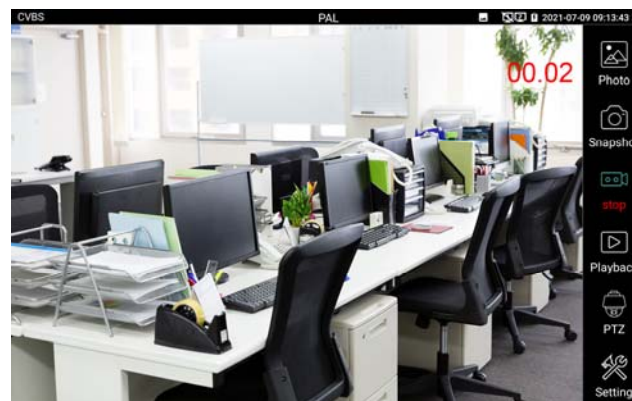
If the unit is set to the manual mode an "Input Name" pop up box will appear and you can enter a title for the snapshot. If the unit is set up to automatically set file names, this box will not pop up.



5) Video record

When you click the "Record" icon, video starts recording. A red recording icon appears on the screen and begins to flash and a timer appears indicating the time elapsed for the video. Click on the "Record" icon again to stop recording and save the video file to the SD card.

if select manual storage, before recording begins, appears dialog box "Input Name", user-defined the files name(by Chinese character, English letter, or digit) to store in SD card, tester will hereby store the files in SD card after recording. if select "Auto-storage", tester will auto store the files in SD card after recording.



(6) Photo

Click the icon "photo" to enter, click the selected thumbnail photo to display it on the screen.

Double-tap the image you want to view to make it full screen. Double-click again the photo to return.

To rename or delete an image, click and hold on the file until this screen below appears.

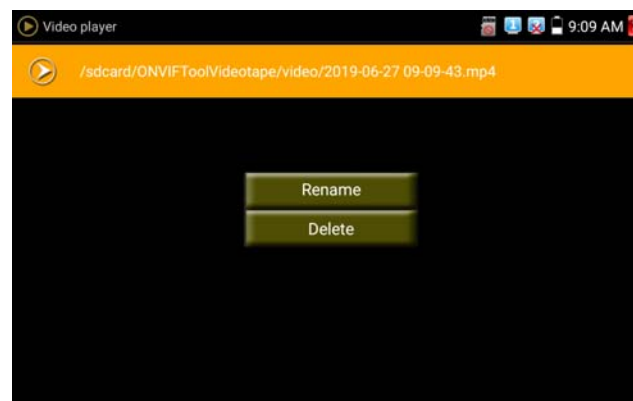


Click  to close and return to PTZ controller.

(7) Recorded video playback

Click the "Playback" icon to view your recorded videos. Tap on the video file image you want to watch.

To rename or delete a video, click and hold on the file until this screen appears:



Video files also can play in the main menu "Video Player".

Image loop test: Test video optical transmitter and receiver and video cable, connect one end to the tester "VIDEO OUT" port, and the other end connected to "VIDEO IN" port, the signal send via "VIDEO OUT" port, and received via "VIDEO IN" port, If the testing is ok, the tester displays several gradually dwindling photos on the desktop.

3.3.10 Color-bar generator (TV OUT)

Click  to enter, the tester sends the color bars from the "Video out" port, Click the icon "Type", select " CVBS/CVI/TVI/AHD" output formats.



Click the selected color-bars, testing image or single bar (red, green, blue, white or black). Double click to full display on the screen and output, click "X" to return main menu.

Application

BNC loop test: Tester can send and receive color bar generator through the tester's "video out and video in" port, it is for testing transmission channels, such as video Optical, video cables etc. The tester "VIDEO OUT" port to connect optical terminal's sending port, and "VIDEO IN" port to optical terminal's connect its receiving port.

A. When maintaining the dome camera, the tester sends out the color bar by its BNC output to the monitor at the monitoring center. If the monitor receive the color bar, it means the video transmit channel works normally. Meanwhile on the basis of the received color bar, the monitoring center can

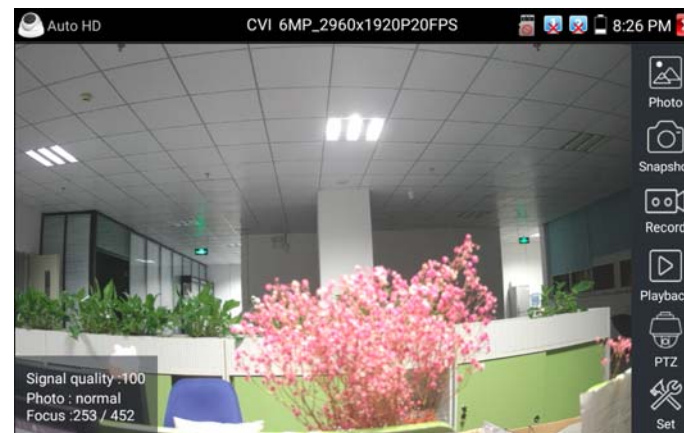
judge if transmission has loss or interference.

B. The tester sends out the pure color bar (such as white and black color), to test the monitor whether has bright or black dots

C. The tester sends out video signal image to test if the image received by the monitor has excursion.

3.3.11 Auto HD (*Optional)

Auto-recognize the resolution and Auto-display the image of the connected camera. Support coaxial PTZ control and call OSD menu, support up to 8MP TVI/CVI/AHD cameras.



3.3.12 HD Coaxial & Analog level test (* Optional)

Through hardware high-speed sampling and processing technology, accurately measure video peak level, sync level and burst level. It is used for level measurement of HD coaxial cameras, judge whether the working image of the camera and the image after attenuation by BNC cable transmission are normal, quickly detect and eliminate faults.



Image display: Select the camera type, no need to select the resolution, click the camera icon, can browse the camera image directly.

Level Meter Test: Need to select the camera type and resolution, click "test" to test the level

Color bar generation: Click "CVBS", quickly enter color bar generation app

Test Result: The percentage and signal grid of the level value. Compared with the reference value.

When the value is lower than the threshold, the background color will be grayed and appear the warning icon. Different camera and cable lengths, different level value.

Reference value: The normal value at this resolution, it is used to reference and compare test results, click "value" to modify.

Threshold: Critical value at this resolution. Lower this value, will appear image noise on the screen, click "value" to modify.

Reset: Click "Reset" to reset the reference value and threshold.

Create documents: The testing report can save customer information, level meter test information, camera information and Instrument information.

Test report

Preview

Delete

Create

back

AHD-2019-08-02-11-39-31.pdf

AHD-2019-08-02-11-39-31

project name:test
client's name:
address:
Contact information:
Note:

TESTER information
Peak level:1128
Sync level:232
Burst level:161

Camera information
Camera type:AHD
Camera resolution:8MP

TESTER information

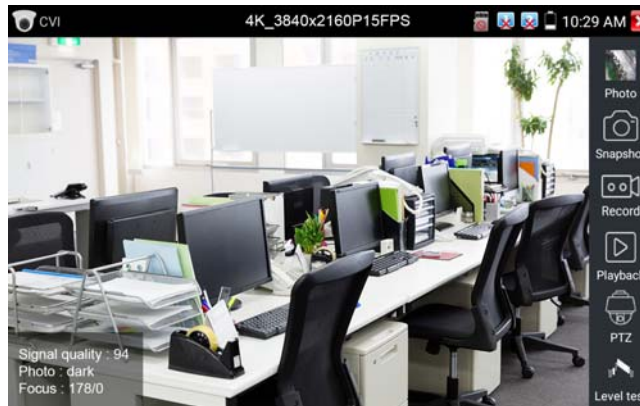
3.3.13 CVI camera test (* Optional)

HD CVI camera, CVI dome camera test and PTZ control, click icon  to enter

When HD CVI signal input, the tester will display the image resolution on the top bar. Double-taps on the screen to make the image displayed full screen.

The tester supports resolution as follows:

1280x720P 25FPS / 1280x720P 30FPS / 1280x720P 50FPS / 1280x720P 60FPS / 1920x1080P 25FPS /
1920x1080P 30FPS/2560x1440P 25FPS/2560x1440P 30FPS/ 2592x1944P 20FPS / 2960x1920P
20FPS / 3840 x 2160P 12.5/15 FPS



(1) PTZ control

1.1 Coaxial PTZ control

Click the icon "PTZ" on the right toolbar to do the corresponding setting.

"Port": select coaxial control

