CTW848

IP, AHD, TVI, CVI & CVBS CCTV Camera Tester

User Manual

(V02.I9)



- Thank you for purchasing a CTW848 IP, AHD, TVI, CVI & CVBS CCTV Camera Tester
- User Manual's Safety Information can help you ensure you safely use this complicated device.
- The manual should be stored safely for future reference.
- Keep the S/N label legible for after-sale service within warranty period.
- If you have questions or problems using the Tester, please contact your supplier.

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Error! Bookmark not defined.

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1.Safety information

- CTW848 tester is intended for use in compliance with the local electrical rules.
- The tester should not be sprinkled with water or wet to prevent functional decline or failure.
- Keep liquids dust and dirt away from the tester.
- Avoid bumping or vibration during use or transportation, which may damage and lead to failure.
- ◆ Do not charge the Tester for more than 8 hours, or charge unattended. If the battery becomes unreasonably hot, disconnect from the power source at once, and allow to cool.
- 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 environments like Hospitals or Petrol Stations in the presence of flammable gas.

- Do not disassemble the instrument since no components inside can be repaired by the user. Should disassembly be necessary, please seek the Technical Support of your supplier.
- The tester should be used with utmost care near strong electromagnetic fields.
- Wet hands or items should not be permitted to touch the tester.
- When dirt is difficult to remove, use a soft cloth wrung out after dipping in water with a mild detergent. Wipe finally with a dry cloth.

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2. IP Camera Tester Introduction

2.1 General

The 102mm (4 inch) IPS touch screen IP camera tester is designed for maintenance and installation of IP, AHD, TVI, CVI digital & CVBS analogue CCTV cameras. The tester can reach resolutions of 4K H.264 /4K H.265 camera, mainstream. The 800 x 480 resolution has a 16/9 picture shape that can display network HD cameras and analog cameras in high resolution. The unit supports many ONVIF PTZ and analog PTZ control protocols. The combination of a touch screen and key buttons make the IP camera tester user- friendly.

The tester is also a great tool for Ethernet network testing. Other functions include providing up to 25.5W temporary PoE power to your camera, PING and IP address searches, LED Flashlight, 12V DC <3A temporary power output and much more. Its portability, user-friendly design and many other functions make the tester an essential CCTV Installation tool.

2.2 Packing list

- 1) Tester
- 2) Adaptor DC12V 1A
- 3) Polymer lithium ion battery (7.4V DC 2400mAh)
- 4) BNC cable
- 5) RS485 cable
- 6) Output Power cable
- 7) Audio cable
- 8) Wrist belt
- 9) Tool bag

2.3 Function interface







Bottom v	view
	14
3	Video image signal entry for AHD, CVI, TVI and CVBS cameras (BNC)
4	Battery power switch
5	Return / Close: cancel or exit from active function
6	Confirm key (1 Long press to capture screen interface)
7	Function switching key
8	Press for more than 2 seconds, turn on or off the device, a short press will turn On or Off the menu display
9	RS485 Interface: RTZ control RS485communication
10	LED torch lamp
11	12V DC <3A power output, provisional camera DC power supply
12	PoE power supply output & LAN test port (test PoE or non-PoE IP cameras)
13	12V DC (1Amp) battery charging interface
14	Audio input
15	MicroSD card slot, supports up to 32GB (card excluded)

3. Operation

3.1 Installing the Battery

The tester has a lithium ion polymer rechargeable battery built-in. Disconnect the battery cable inside battery compartment for safety during transportation!

Prior to the use of the instrument, the battery cables inside the battery compartment should be properly connected.

Pressing the (\mathbf{U}) key continuously for more than 2 seconds will power up (or down) the tester.

Note: Use the original power adaptor and connection cable supplied with the device!



When the battery icon shows a full battery, charging is completed.

Note: When the Charge Indicator 🛨 turns off, the battery is approx. 90% fully charged.

Charge time can be extended for about 1 hour more. Charge for no longer than 12 hours.

Mote: Press the 0 key for several seconds to restore the default settings when the

instrument works abnormally.

3.2 Instrument connection

3.2.1 IP camera connection

Power an IP camera with a separate 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 or the network cable is not properly connected.



Note: If the IP camera requires PoE power, this is also provided via the tester's LAN port. The tester will supply PoE Power for the IP camera temporarily over the LAN cable. Click on the POE icon to turn the PoE Power off or on.

3.2.2 Analogue camera connection



 Connect the camera's video output to the tester's BNC female VIDEO IN connector. Connect the camera's DC power. The image will display on the tester after pressing the PTZ icon.

(2) Connect the camera or the speed dome RS485 controller cable to the testers RS485 interface(Note the polarized positive and negative connections of this cable).

(3)

3.2.3 HD Coaxial camera connection

* AHD, TVI & CVI camera are classified as HD coaxial cameras. The CVI Camera instructions following also apply to AHD & TVI cameras.



- (1) Connect the CVI camera's video output to the IP tester's "Video In" interface, Connect DC supply to the camera and the image will display on the tester. The tester only has a CVI enter interface, there is no CVI output.
- (2) Connect the CVI camera or the speed dome RS485 controller cable to the tester RS485 interface.

3.3 OSD menu

- Press the key for 2 seconds to turn On
- Press the key for 2 seconds to turn Off
- Press the between the press that the press again if the test of test

3.3.1 Lite mode

In Lite mode you can easily find Apps for many basic functions:



In Lite mode, click the finger icon in the lower right corner till to yellow, long press the icon to move the function icon to other items. Do not click the finger icon and long press the application icon, can move the icon in folder.





Click on SD card icon to install or remove SD card.



3.3.2 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, HDMI IN, CVBS, TV OUT, LAN, settings etc.



CVBS: Click "CVBS" icon to open Composite Video CVBS App.

LAN info: Display network port or WIFI connection speeds and other network parameters.

POWER OUTPUT: press to select temporary camera "PoE power" App.

Settings: Enter Settings interface.

IP: Enter IP Settings interface.

3.3.3 Screen capture

A long press of the "enter" key captures the screen interface and saves it at any time.



View with the file management path "file management -sdcard- Pictures-Screenshots".

3.3.4 TesterPlay

Mobile tester screen projection (for Android devices).

Create a tester WiFi hotspot. Connect your Android mobile phone or device to the tester's WiFi

hotspot, <u>or</u> connect the tester and mobile phone to the same Wi-Fi network. Tap the "¹²²² icon, and "TesterPlay" App to enter, click the "Start" button to generate a two-dimensional QR code. Using a QR code reader installed on the Android device, download and install the client software. You can then view the tester's screen on the Android device without latency or delay.



For PC screen projection:

Install VLC player on the PC, run VLC player "Media - Open Network Streaming", and enter the RTSP address of the top instrument two-dimensional code, click "play" to view the tester's screen real-time projection.



3.3.5 Rapid video



Auto log in and display of camera image. For operating details refer to the ONVIF function





After exiting the ONVIF App, click Refresh to search ip address.

3.3.6 IP discovery

Press IP discovery icon and the tester will auto-scan and locate the IP addresses of the whole network segment, and auto-modify the tester's IP to the same network segment with the scanned camera's IP. The tester will Auto-search the whole connected network segment, and auto-add the IP's of different network segments. Unactivated Dahua and Hikvision cameras detected can then be set up with the tester's Dahua and Hikvision Test Tools. The user can accept the tester's prompt by pressing 'OK'.

C IP Discovery				🗑 💷 🔒 6:38 PM 🔀
Local IP: 192.168.1.15				
Discovery IP: 192.10	58.1.108			
DHCP Server:	Prompt			
ONVIF	The Dahua camera hasn't been to activate?	activated, whether go	DH test tool	
	Cancel	ОК		
IPC TEST				

Local IP : Tester's IP address. The tester can auto-modify it's IP address to the same network segment as the scanned camera's IP address.

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

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

Rapid ONVIF: Rapid ONVIF Quick link

IPC TEST: IPC TEST Quick link

Applicability: Using the 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, improving engineering efficiency.

3.3.7 Rapid ONVIF test

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

Press icon to enter the ONVIF function, the tester will auto scan all ONVIF cameras in different network segments. It lists camera names and IP addresses on the Left of screen. The tester can auto login to cameras and display a 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 tester will automatically scan different network segments for ONVIF cameras. It lists the cameras by name and IP address on the Device List. The tester can auto login camera and display camera image.

🙆 ONV	/IF	👸 💷 📋 10:55 AM 🔀
Device L		
		Add device
		IP: 192.168.0.1
		OK Cancel
Add		
setting		No device list!

Click the "Refresh" button, the tester will scan the ONVIF camera again. Click the newly displayed ONVIF camera on the "Device List". The tester will show that IP camera's particular information and settings.

Activate HIKVISION Camera: When connected to an unactivated HIKVISION Camera, the tester will auto. recognize, and prompt "The camera is not active, you need to activate it", click "OK" to start activation. Enter a new password for the camera



When you see an "activate success" prompt, click login to display camera image.

CX ONV	ΊF	👸 💷 🗍 10:51 AM 🔀
Device L	ist(1)	
HIKVISIO	0108-20	
Serial 1 192,168	Name:	admin
Location	Password:	admin12345 Hide
	Remember	Non-verification
	Logi	Login Out
Add		
setting		success

Pop-up settings menu when click the "ONVIF setting" icon in the upper left corner

ONV ONV		🕺 🗎	10:21	AM	×
	auto login : Open				
	Video streaming transport : tcp				
	Photo Storage : Auto				
	Video Storage : Auto				
	show focusInfo : Close				
	View manual				
	Restore default settings				
	ОК				

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

Video transmission protocol: UTP and TCP protocol Open

password cracker: Cracks password of cameras

Show focusInfo: Focus Information.

View manual: Open Manual

Restore Defaults: Revert "Rapid ONVIF" to default settings

Confirm: Save the modified parameters

Click "MENU" icon to open camera settings.



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

🔇 ONVIF	Main Strea	m 2560x1440 h	264 🕤 🚅	10:5	6 AM 🔀
Device List(1)	Identification				
HIKVISION DS 20	Time Set				VIEWS /
Serial 1	Maintenance	01-07-2017 星期三14: 17: 16		6	a Para
192.168.0.64	Network Set				
Location city/nan	User Set				
	Web page			12	TICK
	NVT		133		
	Live video	No.	1		1
	Video Set			Car	mora 01
Add	Imaging Set				
	Profiles		-	_	-
setting Refresh	Preview	menu		0	7

ONVIF PTZ control: Tap the image in the direction you want the PTZ camera to move. Tap the left side of the image to pan left, right to pan right, up to tilt up and down to tilt 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.

🔇 ONV	IF			🐻 로 🔒 1	0:56 AM 🔀
Device Li	st(1)	Identification	DHCP:	of	f
		Time Set	ID Addroso:	01	<u> </u>
Serial 1 192.168.0.64 Location city/han	Maintenance	iP Address.	192.168	3.0.64	
	Network Set	Subnet mask: Default gateway:	255.255	.255.0	
	User Set		192.16	8.0.1	
		Web page	Host name:	Hikvis	sion
		NVT	DNS:	8.8.8	3.8
		Live video	NTP servers:	time windows com	
		Video Set			00
Add Login setting Refresh		Login Imaging Set H Profiles -	HTTPS ports:	Enable	08
	Login			Disable	
	Preview	RTSP ports:	Enable	554	

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

Profiles: Click to view video streaming configuration, & switch between major and minor streams.



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

Identification: click "Identification" to view camera information



Time set: click "Time set", Select "Manual set" to set camera time with your tester

() and			m 👝 🗖 🛜		
(X ONV	/IF		👸 루 📙 10:56 AM 🛃		
Device List(1) Identification		Identification	Camera Time 0:47:56 1970/1/1 (Local)		
HIKVISION DS-20		Time Set	Time zone:		
Serial 1	511 00 20	Maintenance			
192.168.0.64 Location city/han		Network Set	CST-8:00:00		
		User Set	Time Set:		
		Web page	Synchronize with computer time		
		NVT	System Time 10-56-50 2017/00/25		
		Live video			
	Video Set		OK Cancel		
Add	Imaging Set		time zone and the system time just to camera time		
Add Login		Profiles	system time can not be changed.		
setting	Refresh	Droviow			

Maintenance: To reset camera software or restore to factory settings:

🔇 ONVIF			📲 🚅 🖣 10:57 AM 🔀	
Device List(1)	Identification			
HIKVISION DS-20	Time Set	Software reset	Soft reset	
Serial 1	Maintenance	Hardware reset	Hard reset	
192.168.0.64	Network Set	Reboot	Reboot	
Ecourion engyman	User Set	Description:		
	Web page	Software reset		
	NVT	when other causes cameras system anomaly, the use of this feature can reply system of the factory, but the user data and cettinen will be retrained		
	Live video			
	Video Set			
Add	Imaging Set	r	not be deleted.	
	Profiles	На	irdware reset	
setting Refresh	Preview			

User Set: Modify camera user name, password etc parameters

🛞 ONV	IF			👸 🚅 📮 10:57 AM 🔀
Device List(1) Ident		Identification	Name: adm	nin
HIKVISION DS-2C Serial 1 192.168.0.64 Location city/han		Time Set	Name. aum	
		Maintenance		
		Network Set	Name:	admin
		User Set	Password:	
		Web page	Role:	Administrator
		NVT		
		Live video		
		Video Set		
		Imaging Set		
Auu		Profiles		Delete Modify Create
settina	Refresh	D		

Network setting : Click "Network Set" to change the IP address. Some cameras cannot accept changes

to their IP address, so there is no change after saving.

🛞 ONV	ΊF			👸 🚅 📙 1	0:56 AM 🔀			
Device List(1)		Identification DHCP:		off				
	N DS 2C	Time Set	IP Address:					
Serial 1	JN D3-20	Maintenance		192.168.0.64				
192.168.0.64 Location city/han		Network Set	Subnet mask:	255.255.255.0				
		User Set	Default gateway:	192.168.0.1				
		Web page	Host name:	Hikvision				
		NVT	DNS:	8.8.8.8				
		Live video	NTP servers:	time windows com				
		Video Set			000			
Add		Imaging Set	HTTP ports.	Enable	80			
	Login	Profiles	HTTPS ports:	Disable				
setting	Refresh	Preview	RTSP ports:	Enable	554			

If it is network video enter to the tester, as the tester supports resolution up to 1080p, the enter 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 "snapshot" icon at screen bottom to take a still screenshot image and store to SD card. If "Enter Name" manual storage dialog box appears, a file name can be created and snapshot saved to SD card, if "Auto-storage" is selected, the tester auto saves the snapshot.

Record : When you click the "Record" icon at the bottom of the screen, video starts recording. A red flashing recording icon appears on the screen with a video time elapsed indicator.

Click the "Stop" icon to stop recording and save the video file to the SD 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 file, click and hold on the file until this screen appears:



Lens simulation : Allows the user to simulate different lenses across a camera's view. Supported lenses: "2.8/3.6/4/6/8/12/16/25mm", Assists selecting a suitable camera lens.



A

Video files can be played with the Video player on the main menu.

PTZ

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



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

PTZ speed setting: use to set the Speed of Horizontal and Vertical PTZ movement.

Home								💷 🗎 6:41 AM 🔀
Left cruise Rig Preset List	ht crui Uut .4-2	016 Wedne	esday 06 - 41	:23 720			-14	
Preset 1				~		-		4
	Pan :					+	0.0	
	Tilt:	-				+	0.0	
								2
	Pan Spe		•			+	0.1	The second se
	2000 B							
	Tilt Spee		9			+	0.1	
	Zoom					4	10	
	200111.			-		т	1.0	
		ОК			Cancel			Set Home
								set preset
	lelete							
Close	i i							

RTSP: Get RTSP address of the current camera

Doc: Automatically generate camera test report document, click "Create document". Click Preview to view the report document.

Documents List	Create documents	X
Preview Delete		

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

	Enter simple message	Create	documents	×
Job/Project name:		Operator:	<u> </u>	
Customer name:		Company:		
Location:		Address:		
Tel/Email:				
choose photo]			

Click doc menu again, to preview the report document.

2017-09-25-11-00-04.pdf				
IPC-TESTER	Report			
Project name :	h	Operator :	j	
Customer name :		Company :		
Location/Building :		Address :		
Test Time/Date :	2017-09-25 10:59:34	Tel/Email :		
Camera Device Info				-
Camera name :	HIKVISION DS- 2CD3T45-I3	Camera Model :	DS-2CD3T45-I3	
Camera time :	1970-1-1 0:51:10			
Network Info				
Ethernet port speed :	100Mb/s	Duplexity :	Full	
Camera IP address :	192.168.0.64	Camera subnet mask :	255.255.255.0	
Gateway :	192.168.0.1	MAC address :	c4:2f:90:73:a8:0e	
DNS :	8.8.8.8			

Icons description: bottom toolbar icon function descriptions

3.3.8 IP camera test

To display mainstream image from 4K H.265 camera



Note: IPC Test App only supports some brands' specific IP cameras currently, these include specific models made by ACTI, AXIS, Dahua, Hikvision, Samsung, and more. If the camera is not fully

integrated, use ONVIF or RTSP Apps.



FIPC Test	👸 💷 📄 10	D:11 AM 🔀
Local IP :	192.168.0.238	Edit
IP camera type:	DAHUA_DH-IPC-HFW2100P	Manual
IPC Cameras IP :	192.168.0.254	search
IPC User Name :	admin	
IPC Password :		Show
IPC Port :	554	
Enter	Reset Restore	Rate

Local IP: This is the tester's IP address. Click "Edit" to enter and change the tester's "IP setting" IP camera type: Click on the IP Camera type to select Manufacturer / model no. of the 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, enter IP camera address, user name and password, click "official" to enter the camera image display interface (DAHUA official protocols currently supported.)



Stream code: When testing a camera via RTSP, you can test mainstream or substream RTSP must be enabled or tester will tip into "auto match fail, switch to manually select"

JIPC Test		8	🚅 📋 10	:11 AM 🔀
Local I ^c				
IP camera typ	i Please sel	ect stream :		
IPC Cameras I	Major stream(256	60x1440H264)		
IPC Passwor	Minor stream1(35	52x288H264)		
IPC Poi	Cancel	ок		
Enter				

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

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 complete, click "Enter" to view the camera's live video



If the IP address has an error or IP camera is not connected, the tester will prompt "Network Error"

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

When you can see video on the IPC Test app, the "Video Menu" icon will appear to the top right. This button gives access to Snapshot, Record, Photo, Playback, PTZ, and Set functions. Refer to the ONVIF manual section to use these functions.

3.3.9 Video monitor test Analog camera test and PTZ control, click icon to enter PAL 2 2:12 PM 2 CVBS PAL 2 2:12 PM 2 Photo Ph

To operate select a function from the Toolbar on the right of screen, functions include "Photos", "Snapshot", "Record", "Playback", "PTZ" and "Set"ings,

Click the 🔀 icon or press "Return" to quit.

For full zoom on the touch screen, click on the screen twice quickly.

(1) PTZ controller parameter setting

Click on the "PTZ" icon to enter PTZ settings:

角 CVBS				PAL	2:	13 PM 🔀
	Protocols:	\leq	Minking B01			10.00
	Port:	\triangleleft	RS485	\supset		
ALL RANGE	Baud Rate:	\triangleleft	2400	\supset		Snapshot
6	Address:	\triangleleft	þ	\supset		
	Tilt speed:	\triangleleft	40	\triangleright		
1	Tilt speed:	\triangleleft	40	\triangleright		Playback
EBUB	Set Position:	\triangleleft	8	\triangleright		
R. A.	Call Position:	$\langle \rangle$	8	\triangleright		PTZ
	ОК		Ca	incel		

A. Protocol

Use the ▲ ▼ arrow keys to move the yellow cursor to "Protocols", use ◀► keys to select a Protocol, from more than thirty PTZ protocols including Pelco-D, Samsung, Yaan, LiLin, CSR600, Panasonic, Sony-EVI etc. Press "OK" or "Cancel" to enter or reject the change you propose.

B. Port

Use the ▲ ▼ keys and move, to "Port" Select the communication port to control the PTZ camera

(RS485)

C. Baud

Move the yellow cursor to "Baud", select a baud rate according to the PTZ camera's specification

(150/300/600/1200/2400/4800/9600/19200/57600/115200)

D. Address

Set the an 0 to 254 Address ID according to the PTZ camera specification, the address data must be

consistent with the speed dome address.

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

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

G. Set position: Select "Set PS", set and save preset position (1 to 128),

H. Call preset **position:** (Go ps) Select, set and save a preset position number (1 to 128). Click "sure" to save. Call a preset number from the PTZ camera menu.



Check and set the protocols, address, interface and baud rate, all must match the cameras spec., then the IPC tester can test. Once the parameters are set, the tester can control the PTZ camera and lens. To control PTZ by touch screen:

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



2) Video and storage setting

Click "set" icon to enter and set Analog video image brightness, contrast and color saturation - as well as the file storage method for snapshot still and video recording. Auto and manual save are supported. Files can be named when manually saved.





For analog video enter, tester resolution is 720 x 480 so Analogue camera zoom may not appear clear. But for digital video enter tester resolution up to 960 x 540 is supported so, a zoom image can still be clear.

(3) Snapshot

Click the "Snapshot" icon when video is visible on screen, to take a picture and save the image to an SD card as JPEG file.

If the unit is set to Manual mode an "Enter Name" pop up box will appear prompting entry of a title for the snapshot. If the unit is set to Automatically set file names, this box will not appear.



(4) Video record

When you click the "Record" icon, video starts recording. Flashing red record indicator shows on the screen and elapsed time of the video appears. Click on the "Record" icon again to stop recording and save the video file to the SD card. If manual storage was selected *before* recording begins, a dialog box "Enter Name" appears when the recording is completed. The file name can be chosen from (English letters, digits or Chinese characters) to store in SD card, tester will store the file to SD card after recording. If "Auto-storage" is selected, tester will store the file to SD card automatically.


(5) Photo

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

To show an image full screen double-tap it. Double-click again the photo to return.



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



(6) Recorded video playback Click the "Playback" icon. Tap the video file image you want to watch.



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



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

3.3.10 CVI camera test

To test a HD CVI or CVI camera and PTZ control, click view icon to enter. When a HD CVI camera signal is connected to the enter, the tester will display it with the image resolution on the top bar. Double-tap the screen to display the image full screen.

The tester supports resolutions:

```
1280 x 720P @25FPS / 1280 x 720P @30FPS / 1280 x 720P @50FPS / 1280 x 720P @60FPS /
1920 x 1080P @25FPS / 1920x1080P @30FPS / 2560 x 1440P @25FPS / 2560 x 1440P @30FPS /
3840 x 2160 @12.5&15FPS
```



(1) PTZ control

1.1 Coaxial PTZ control: Click the "PTZ" icon in the right toolbar to engage the corresponding settings.

"Port": select UTC for	Up The Coax co	ntrol				
CVI	1920	x1080P 2	25FPS		👰 🚡 2:18 F	PM
		/		Aunt		
ANNALS AND					BCA.	
	Addre Horiz					O C Rec
A DEALER IN THE REAL PROPERTY OF	Vertic RS485/RS	5232				
東防侵税	Set Position :					Playt
						Se

Enter PTZ address to set parameters

CVI	1920x108	30P 25FPS		2:18 PM 🔀
	Port :	UTC		Photo
ANNARA CAMULA	Coaxitron:	PTZ		1
6	Address :			Snapshot
SHERE AND	Horizontal Speed :	40	\triangleright	Record
IN THE REAL PROPERTY INTERNAL PROPERTY	Vertical Speed :	40		
安納經理	Set Position :	8		Playback
	Call Position :	8		÷
	ОК	Cano	cel	PTZ
				Set

Operation instructions, refer to "3.3.9 PTZ (1) Video monitor test".

The tester's PTZ address must match the specification of the camera to be able to operate it. Once parameters are correctly set, the tester can control the PTZ camera and lens.



To control a PTZ camera by screen touch:

Sweep left, right, up and down on the screen to control PTZ direction. With two fingers on the screen move them outward and inward to operate the PTZ's camera's Zoom in and out function.

Set Position: To set a preset position move the PTZ camera to the position desired. Tap Set Position and select a preset position number. Tap "Set position" to save that preset position.

CVI	1920	x1080P	25FPS	- ×	🖥 2:19 PM 🔀
		-			
	Port :		UTC		Photo
4833882	Coaxitron:		PTZ		Snapshot
	Address :				
	Horizontal Speed :		40		Record
安格怪器	Vertical Speed :		40		Playback
ite	Set Position :	\triangleleft	8		- Hayback
	Call Position :		8		PTZ
	ОК		Can	cel	Set Set

To reCall a saved preset position: Tap the preset number area, select a saved preset position number with the ◀►keys. Tap "Call Position" to recall that preset position.

CVI	1920x108	0P 25FPS	*** 🛃 2:*	19 PM 🔀
		12		STATE OF
	Port :	UTC		Photo
PRIMARY	Coaxitron:	PTZ		Snapshot
	Address :			
AL REAL	Horizontal Speed :	40		Record
安防管理 ***	Vertical Speed :	40		
HE AL	Set Position :	8		Ріаубаск
	Call Position :	8	\square	PTZ
	ОК	Cance		1×
				Set

1.2 RS485 control



For operating instructions, refer to "3.3.9 PTZ (1) PTZ control parameters setting"

(2) Coaxial camera menu settings

Tap the "UTC" icon, select "menu setting" to enter the camera menu



Enter camera menu address code. When parameter settings are complete press "Enter" or click the icon to call up the camera menu.



Select the parameters with the \blacktriangle , \blacktriangledown , \triangleleft , \blacktriangleright & OK keys.



(3) For Snapshot, Record, Photo viewer and video Playback, refer to "3.3.9 PTZ (1) Video monitor test".

Tap "close menu" to close camera menu.



(4) Save settings

Click "Set" icon on the right toolbar to enter storage settings.

Auto and Manual storage with the ability to create unique file names is supported.

CVI	1920x1080P	25FPS	2:21	PM 🔀
	-	2		Photo
PULLAR CALIFIC	Photo Storage :	Auto		Snapshot
ELERNILS PROVIDE	Video Storage :	Auto		0 0) Record
安防经理	ОК	Cancel		Playback
				PTZ
				Set

3.3.11 TVI camera test

To test a HD TVI or TVI camera and PTZ control, click icon to enter.

When a HD TVI signal is connected, the tester displays the image resolution on the top bar. Double-tap

the screen to display the image full screen.

The tester supports the following resolutions:

1280 x 720P @25FPS / 1280 x 720P @30FPS / 1280 x 720P @50FPS / 1280 x 720P @60FPS

 $1920 \ x \ 1080P \ @25FPS / \ 1920 \ x \ 1080P \ @30FPS / \ 1920 \ x \ 1080P \ @50FPS / \ 1920 \ x \ 1080P \ @60FPS / \ 2048 \ x \ 1536P \ @18FPS / \ 2048 \ x \ 1536P \ @30FPS / \ 2560 \ x \ 1440P \ @15FPS / \ 2560 \ x \ 1440P \ @25 \ FPS / \ 2560 \ x \ 1440P \ @25 \ FPS / \ 2560 \ x \ 1440P \ @25 \ FPS / \ 2560 \ x \ 1440P \ @25 \ FPS / \ 2592 \ x \ 1944P \ @ \ 12.5FPS / \ 100 \ x \ 10$



Coaxial camera menu settings

Tap "UTC" (Up The Coax) icon, select "menu setting" to enter the camera menu

CD TVI	1	920x1080P	25FPS	i 🕫 🔒	2:22 PM 🔀
	Port :				
	Coaxitron:				Photo
	Address :				Snapshot
	PTZ				Record
Constant Constant Party	MENU				
Harrison					Playback
					PTZ
					Set Set

Enter calling camera menu address code, after finishing the parameter settings, you can press the "Enter" key or click on the camera menu



For PTZ control operating instructions for: coaxial camera menu setting, snapshot, recording and playback, refer to section "3.3.10 CVI camera test"

3.3.12 AHD camera test



To test an AHD camera and PTZ control, Click on the

When an active AHD camera signal is connected, the tester will display the image resolution on the top bar. Double-tap the screen to display the image full screen.

The tester supports the following resolutions:

 $1280 \ge 720P @25FPS / 1280 \ge 720P @30FPS / 1920 \ge 1080P @25FPS / 1920 \ge 1080P @30FPS / 2048 \ge 1536P @18FPS / 2048 \ge 1536P @25FPS / 2048 \ge 1536P @30FPS / 2560 \ge 1440P @15 FPS / 2560 \ge 1440P @25 FPS / 2560 \ge 1440P @30 FPS / 2592 \ge 1944P @12.5FPS / 2592 \ge 1944P @20FPS / 3840 \ge 2160P @15FPS.$



(1) Coaxial PTZ control

UTC (Up The Coax) control: select "PTZ control" or "PTZ-2" (AHD has two different UTC control order structures, if "PTZ" can't control, use "PTZ-2").

AHD 😂		1920x10	80P 25FPS	in 🖉 🖉 🚰 2:23	PM 🗙
	Port : Coaxitron:	D D	UTC PTZ		
	PT	Z			
ALAN AND A	РТ	Z-2		T-K	
STREET STREET	ME	INU			

If to coaxial PTZ control the AHD camera, no parameters setting is needed.

For more operation instructions refer to "3.3.10 CVI camera test".

3.3.13 Network tool

(1) IP address scan

Connect RJ45 network cable to the LAN port, click *provided and the context of th*

💵 Netw	ork Tool - SCAN	🐻 🚅 🖥 11:49 AM 🔀
PINE	Scan IP Start IP: <u>192.168.1.1</u> End IP: 192.168. 1.255	Port Number Scan Please enter the IP address: IP addresses
SCAN	start 192.168.1.1 IPC 192.168.1.18 IPC	start

(2) PING Test

Connect a network cable to the LAN port and click the property of not plugged in, tester will respond "Destination host unreachable" or have 100% packet loss. When the tester connects to the device, the send and receive packets should have a 0% packet loss.



Application: PING testing is the most conventional network debugging tool, used to test if a connected IP camera or other network equipment's Ethernet port is working normally and the IP address is correct. It is normal that the first data packet will be lost when the test starts.

(3) Network test (Ethernet Bandwidth test)

To use the Ethernet Bandwidth test, you will need two IP testers. One used as Server and the other as Client. Both devices must be on the same network segment in order to communicate. Click the icon to open the Network Tester app.

E Netw	ork Tool - Network test	🐻 💷 📄 2:57 PM 🔀
	Service IP: 192.168.0.238	192.168.0.238
Russo	Start Server	Start
SCAN		
日		
Network test		
Port Flashing		

a) Start the server: to use the tester as a Server Click on "Start Server". The tester will display its IP

address at the top of the screen.

🖳 Netw	ork Tool - Network test	👸 로 📄 2:57 PM 🔀
	Service IP: 192.168.0.238	192.168.0.238
Tracoo	Stop	Start
SCAN		
	Server listening on TCP port 5001	
Network	TCP window size: 1.00 MByte (default)	
test		
	[5] local 192.168.0.238 port 5001	
	47798	
Port Flashing	[5] 0.0- 1.0 sec 42.7 MBytes 358 Mbits/sec	

b) Start send packet test: Using the other IP tester, type in the Server's IP address at the top right

corner of the screen. Click the "Start" button to send the packets and start network speed test.

💵 Netw	ork Tool - Network test	🐻 로 🖥 2:57 PM 🔀
	Service IP: 192.168.0.238	192.168.0.237
IPracoo	Start Server	Stop
SCAN		152.100.0.207, FOI POILOUUT
Network test		TCP window size: 1.00 MByte (default) [4] local 192.168.0.238 port
		55892 connected with 192.168.0.237 port 5001
		[4] 0.0-1.0 sec 48.8 MBytes 410 Mbits/sec
Port Flashing		[4] 1.0-2.0 sec 48.1 MBytes 404 Mbits/sec

Network bandwidth can also be tested with a computer using compatible network bandwidth testing software. Install network bandwidth testing software on a computer, as a test Client or Server, to do the mutual testing with the tester. If using a computer as the server, the computer IP address is :192.168.0.237

Netwo	k Tester		23
○ 中文	• English		
	(Server)		
	○ (Client)		
	St	art Test	

Tester as Client, tester's IP address is:192.168.0.238. The Server and the Client are on the same network segment, but with different IP addresses. Enter Server's IP address 192.168.0.237 in the tester and click "Start" to test network bandwidth.

🔲 Netw	ork Tool - Network test	🐻 로 🖥 2:57 PM 🔀
	Service IP: 192.168.0.238	192.168.0.237
IP.0000	Start Server	Stop
SCAN		172.100.0.207, 101 port 0001
Network test		TCP window size: 1.00 MByte (default) [4] local 192.168.0.238 port [5600 apprended with
Port		192.168.0.237 port 5001 [4] 0.0-1.0 sec 48.8 MBytes 410 Mbits/sec
Flashing		404 Mbits/sec

Using tester as a Server and a computer as Client, enter tester's IP address to test.

Networ	k Tester			23
○ 中文	English			
	🎧 (Server)			
	Client)	Server IP	192 . 168 . 0	. 238
		Start Test		

When using the tester as Server the results show:

🖳 Netw	ork Tool - Network test	👸 💷 📄 2:57 PM 🔀
	Service IP: 192.168.0.238	192.168.0.238
Proneo SCAN	Stop	Start
SCAN	 Server listening on TCP port 5001	
Network	TCP window size: 1.00 MByte (default)	
test		
	[5] local 192.168.0.238 port 5001 connected with 192.168.0.237 port 47798	
Port Flashing	[5] 0.0- 1.0 sec 42.7 MBytes 358 Mbits/sec	

(4) Port Flashing

Connect a network cable to the tester's "LAN" port, click the icon to open the Port Flashing app. Click "Start". The IP tester sends a unique signal to make the connected LAN port of the switch flash.

🖳 Netw	ork Tool - Port Flashing	灪 ᄰ 📄 2:58 PM 🔀
Network test Port Flashing DHCP	LAN PSE IN	
		Start

If the tester and PoE switch are properly connected, on the LAN port of the PoE switch a LED indicator will flash at a unique frequency. Otherwise you will see no changes to the LAN port.



Application:

The tester will send a signal to make the connected LAN port flicker at unique frequency, enabling a tester user to simply and quickly find the port and connected Ethernet cable. This function can prevent mistakenly disconnecting the wrong cable and interrupting it's service.

(5) DHCP server

To open DHCP server app click on the DHCP icon. Select the "Start" check box at the top and make any changes necessary to the network settings. Click "Save" to start assigning dynamic IP addresses for IP cameras or other networked devices. Click the "Refresh" button to check your Client list.

🖳 Netw	ork Tool - DHCP		🁸 🕺 🖥 2:58 PM 🔀			
test	The router built-in DHCP server to automatically configure each calculated area network TCP / TP protocol.					
	DHCP server :	Stop 🗸 Sta	rt			
	Local address :	192.168.0.238	Edit			
Port	Adress pool Initial IP :	192.168.0.20				
Flashing	Adress pool End IP :	192.168.0.254				
	Address lease :	60 Adress	s lease min(1 ~2880 min,factory			
	Gateways:	192.168.0.1	default 60 min)			
рнср	DNS server :	129.219.13.81				
DITION	Save	Refresh				
_	Client list : D		VIAC IP			
Trace						

(6) Trace route

Trace route is used to determine the path of the IP packet access target.

Note: Trace route testing is only for reference, for accurate tracking use a professional Ethernet tester.

Click on the Trace Route icon Enter tracking IP address or domain name in the Remote Host IP. Set maximum Hop TTL count, default is 30. Click "start" to trace the goal address





(7) Link monitor

Click the **c** icon to open the Link Monitor app. This app is used to see if an IP address is occupied by other network devices, to avoid new IP address conflicts.

Click "Add" and enter the desired IP address. To test different network segments, click the "Settings" icon on the main menu, go to IP Settings and make the necessary changes. Once the IP addresses are added to the Link Monitor list, click "Start". If the IP address Status shows a cross, the IP address is occupied. If the IP address Status shows a tick, the IP address is available. Click "Stop" to stop the test.



Application:

Adding an IP camera or other network device to an existing network, the new IP address must not be already in use. Otherwise it will result IP conflicts that may have unforeseen consequences that will stop some equipment on the network working.

3.3.14 Rapid IP Discovery

Connect RJ45 cable to tester's LAN port. Press it to enter the Rapid IP Discovery app.

Click "Start" to search all connected equipment IP addresses across the whole network segment.

Click "Stop" to stop work.			
🞯 Rapid IP Dis	scovery	8	📄 4:45 PM 🔀
	IP SEARCH		
		Q	start
			stop

3.3.15 PoE power / DC12V 3A power output

When the tester is turned on, the DC12V power output function is automatically switched on.

Connect the IP camera to the tester's LAN port before you turn PoE on. To use PoE Power

Output, click the icon and change the switch to "ON" (or "OFF"). The tester will display "48V ON" at the top left of the screen when PoE power is ON. PoE power is delivered via pins 1, 2, 3, and 6 on the LAN port. Not all IP Cameras accept PoE power.



- 1. Do not connect a power supply source to the "DC12/3A OUTPUT" port!
- 2. Do not connect the DC12V/3A power Out to the DC12V/IN port of the tester!
- 3. 12V @<3A & PoE are for temporary camera powering only.

- 4. If a 12V device draws more than 3Amps, the tester will enter protection mode automatically. To recover, disconnect camera load and restart the tester connected to the mains power adaptor.
- 5. Before turning on the tester's PoE power output, ensure the camera includes this function.
- 5 Ensure you plug in your IP camera to the LAN port prior to turning on PoE power
 - 6. Ensure the tester is fully charged before using camera power, or the tester may warn "low power" or "not able to supply power".



3.3.16 RJ45 cable TDR test (Time Domain Reflectometer)

Single test: Check all 4 pairs cable status, length and attenuation - once.

Repeat test: Continues to check cable status, length and attenuation.

Status: Screen reports "online", "open circuit", or "short circuit" status result.

Length: TDR measures cable length up to 180m, when cable is open, short circuit or damaged. If the screen displays "online", the test result will be inaccurate.

Cable quality test: Green indicates good quality cable, Yellow is for Poor quality cable, Red is Wet

cable. The attenuation value will display when the connected cable is longer than 10 meters.

Advance Test: Includes reflectivity % impedance Ω , and skew ns.

Attenuation reflectivity: After connecting to a device - if reflectivity value is 0 comm. quality is high.

Impedance: After connecting - if value is 100 Ω , that gives the best communication quality, impedance range is generally between 85 to 135 Ω .

Skew: After 1000Mbps link, when skew value is 0ns,it is the best quality communication, if over 50ns, Bit Errors will occur in the transmission. Click "Help" to check the instructions for all parameters.

3.3.17 Audio Record

icon to enter the Audio

00

Recorder app. Click the red button to stop, and the unit will prompt you to save the recording.

Connect an audio device to the IP tester's audio enter port. Click the



3.3.18 Data monitor



Click "Setting" to choose an RS485/RS232 baud rate; it must match the DVR or the Control keyboard.

If The DVR or Control keyboard code to the tester can be read, the protocol will show on the upper right, say Pelco D, if not, P:---

When the tester has received the code, press the "Return" key to empty.

Through the RS485 port, the tester can display the PTZ control code of a keyboard or NVR / DVR. The controller can check the status of the RS485 transmission through the code on the display. (The RS485 communication or baud rate must match.) **Application**: To check the RS485 communication states are normal. An engineer can analyze the protocol and check the data through the displayed code.

3.3.19 Audio player

Click the Audio Player icon to enter, only MP3 format Audio files are supported.



3.3.20 Media player

Click the Media Player icon **()** to enter



The Media player can browse video and image files. Video formats MP4, H.264, MPEG4, and MKV are supported. Files recorded on the IP tester can play directly on the Media player. The Media player will automatically display the video files on the SD card. Click on a file to play, click RETURN to exit. To rename or delete a file, press and hold the file name for a few seconds until the screen below appears. The file can then be Renamed or Deleted by pressing the desired option.



3.3.21 RTSP Player

The RTSP Player app will allow you to view an RTSP video stream from an IP camera. If you were unable to view your camera via the ONVIF or IPC Test apps, it is possible your camera will have an RTSP stream and you can view live video with the RTSP Player.

To open the app, from the main menu select the "APP Tool" folder and then select the "RTSP Player".



If the IP camera uses MJPEG, select RTSP, if the IP camera uses H.264, select the "RTSP HD" icon.

Local IP: This is the IP testers IP address.

RTSP Add: This is where you manually enter the IP camera's RTSP URL, or click Search to search the network for cameras that use an RTSP stream.

IPC Username: Enter the IP camera's user name. IPC Password: Enter the IP camera's password.

Once you have entered the required info., select Enter at the bottom left to view the RTSP stream.



Note: in the event the tester does not auto detect the RTSP stream, contact the camera supplier for the exact RTSP stream url. You may find this on line searching for of the camera model number with the letters RTSP.

3.3.22 Hik test tool

The Hik test tool app is design for activating and debugging Hikvision cameras. It can auto-identify

hikvision cameras that have not been activated and can display images from the Hikvision camera.

Tap HIK icon to enter

 Hikvision activation : When a Hikvison camera that *has not* been activated is connected to the tester, it will auto identify and display "The Camera has not been activated..." at safety mode. Click bottom right corner "OK" button to activate the camera.

HIK HIK		i 📰 🗎	10:26 AM 🔀
No. Type	Tips		
	The camera have		
	activated, activat		
	Cancel	ок	

2.Enter password : Enter a new password, tap "ok" to activate.

						10:26	AM 🔀
		Please e	nter the act	tivation			
		passwor	d				
		Please en	ter no less	than 8 d	inite		
		password		stituitou	igits	DS-2CD	3T45-I3
		Cano	el	ок			
W HIK			i 🗐	10:26 AN	1 🔀		
Online		De De	tail :				
Detection :	Ок	etresn	IP address				
No. Type	IP address	Safe mode	Subnet Mask				
			Gateway		_		
			S/N	admin	-1		
			Username		_		
			Password		oe		
			Login	Play			
		P	Modify network	Modify use			
	a	ctivate success	nable	Factory Rese	et		

3. Confirm activation

After activating the camera, the program default modifies the camera IP. Activating multiple cameras on a local area network and pop-up menu to modify IP can improve project efficiency.

Play: Display image from the camera

Modify network information: Change the camera IP address, subnet mask and gateway etc.



Modify user information: Modify the camera's user name and password.

	8 🛡 🗎	10:27 AM 🔀
		68.0.64
Please enter user nam	e and password :	55.255.0
		D3T45-IS
User name : adr	nin	Imin
Password :		Hide
Cancel	OK	
Cancer	UK	ay

3.3.23 Dahua test tool

The Dahua test tool assists installation and debugging of Dahua IP cameras. It can display images and modify IP address, user name and password etc. This makes testing of Dahua cameras more convenient and faster. Batch activation of Dahua camera and network segment modification is supported.

To enter Dahua test tool, click the	_	icon.

Detection :	F	Refresh	Detail :		
Туре	IP address	Safe mode	IP address :	192.168.1	.108
DH-NVR4216-HDS2	192.168.0.250	Activated			and the state
IPC-HFW4236M-I2	192.168.0.222	Activated	Subnet Mask :	255.255.2	.55.0
IPC-HFW4236M-I2	192.168.0.239	Activated	0-1	100 100	1.1
PC-HDW4238C-A-V2	192.168.0.244	Activated	Gateway :	192.168.	1.1
IPC-HFW4236M-I2	192.168.0.231	Activated	S/N ·	2M03274VA	200030
IPC-HFW4236M-I2	192.168.0.236	Activated	0/11.	20100274174	500000
IPC-HDB4231C-AS	192.168.1.108	Inactived	User name :	admir	1
IPC-HFW4236M-I2	192.168.0.232	Activated			
DH-NVR4216-HDS2	192.168.0.251	Activated	Password :		show
IPC-HFW4236M-I2	192.168.0.238	Activated	See Allowed Physics de Source Source		
IPC-HFW4236M-I2	192.168.0.223	Activated		Diau	
IPC-HFW4236M-I2	192.168.0.240	Activated	Login	Play	
IPC-HFW4236M-I2	192.168.0.221	Activated	Mandle and sounds	11-16-	
PC-HDW4238C-A-V2	192.168.0.242	Activated	Modity network	Modity	iser
IPC-HDW2125C	192.168.0.225	Activated	Careb La		
PC-HDW4238C-A-V2	192.168.0.246	Activated	Enable	Factory F	leset
	Type DH-WK4216-Hb2 IPC-HFW4236M-12 IPC-HFW42M-12 IPC	Type IP address DH-WYR4216-HDS2 192.168.0.250 IPC-HFW4236M-12 192.168.0.239 IPC-HFW4236M-12 192.168.0.234 IPC-HFW4236M-12 192.168.0.234 IPC-HFW4236M-12 192.168.0.236 IPC-HFW4236M-12 192.168.0.236 IPC-HFW4236M-12 192.168.0.236 IPC-HFW4236M-12 192.168.0.238 IPC-HFW4236M-12 192.168.0.238 IPC-HFW4236M-12 192.168.0.238 IPC-HFW4236M-12 192.168.0.238 IPC-HFW4236M-12 192.168.0.238 IPC-HFW4236M-12 192.168.0.224 IPC-HFW4236M-12 192.168.0.225 IPC-HFW4236M-12 192.168.0.225 IPC-HFW4236M-12 192.168.0.246 IPC-HFW4236M-12 192.168.0.245 IPC-HFW4236M-12 192.168.0.245 IPC-HFW4236M-12 192.168.0.245 IPC-HFW4236M-2 192.168.0.245 IPC-HFW4236M-2 192.168.0.245 IPC-HFW4236M-2 192.168.0.246	Type IP address Safe mode DH-NVR4216-HDS2 192.168.0.250 Activated IPC-HFW4236M-12 192.168.0.239 Activated IPC-HFW4236M-12 192.168.0.239 Activated IPC-HFW4236M-12 192.168.0.234 Activated IPC-HFW4236M-12 192.168.0.231 Activated IPC-HFW4236M-12 192.168.0.236 Activated IPC-HFW4236M-12 192.168.0.236 Activated IPC-HFW4236M-12 192.168.0.232 Activated IPC-HFW4236M-12 192.168.0.238 Activated IPC-HFW4236M-12 192.168.0.238 Activated IPC-HFW4236M-12 192.168.0.234 Activated IPC-HFW4236M-12 192.168.0.234 Activated IPC-HFW4236M-12 192.168.0.221 Activated IPC-HFW4236M-12 192.168.0.221 Activated IPC-HFW4236M-12 192.168.0.221 Activated IPC-HFW4236M-12 192.168.0.224 Activated IPC-HFW4236M-12 192.168.0.240 Activated IPC-HFW4236M-12 192.168.0.240	Type IP address Safe mode DH-NVR4216-HDS2 192.168.0.250 Activated Subnet Mask : IPC-HFW4236M-12 192.168.0.220 Activated Gateway : IPC-HFW4236M-12 192.168.0.231 Activated Gateway : IPC-HFW4236M-12 192.168.0.234 Activated Gateway : IPC-HFW4236M-12 192.168.0.236 Activated S/N : IPC-HFW4236M-12 192.168.0.236 Activated S/N : IPC-HFW4236M-12 192.168.0.236 Activated User name : IPC-HFW4236M-12 192.168.0.238 Activated Password : IPC-HFW4236M-12 192.168.0.223 Activated Login IPC-HFW4236M-12 192.168.0.221 Activated Login IPC-HFW4236M-12 1	Type IP address Safe mode DH-NVR4216-HDS2 192.168.0.250 Activated JPC-HFW4236M-12 192.168.0.222 Activated JPC-HFW4236M-12 192.168.0.244 Activated JPC-HFW4236M-12 192.168.0.231 Activated JPC-HFW4236M-12 192.168.0.231 Activated JPC-HFW4236M-12 192.168.0.231 Activated JPC-HFW4236M-12 192.168.0.232 Activated JPC-HFW4236M-12 192.168.0.232 Activated JPC-HFW4236M-12 192.168.0.232 Activated JPC-HFW4236M-12 192.168.0.233 Activated JPC-HFW4236M-12 192.168.0.233 Activated JPC-HFW4236M-12 192.168.0.233 Activated JPC-HFW4236M-12 192.168.0.221 Activated JPC-HFW4236M-12 192.168.0.223 Activated JPC-HFW4236M-12 192.168.0.221 Activated JPC-HFW4236M-12 192.168.0.221 Activated JPC-HFW4236M-12 192.168.0.222 Activated JPC-HFW4236M-12 192.168.0.222

Select the camera from the online detection menu. If camera non-verified login is supported, you can click "play" directly, and view the image.

Menu will prompt, select Mainstream or Substream

DH					🗃 💷 📮 09	9:14 🔀
Online				Detail :		
			ss Safe mod		192.168.5.1	
	IPC-HFW4236M-I2 IPC-HDW4238C-A-V2	192.168.0.22 2 192.168.0.24	20 Activated 14 Activated			
	DH-NVR4216-HDC2 IPC-HDW42380	Diagona polant strange :			192.168.5	
	IPC-HDW42330	Flease select stream .			3E061A7PAA0	
	DH-NVR4216- IPC-HEW4236	instream(1920x10	80 H264)	۰	admin	
	IPC-HFW4236	ostream1(704x576	H264)		idmin12345	
	IPC-HDW42360	Cancel		ок	î <u>1240</u>	
	IPC-HFW4236M-I2 IPC-HFW4236M-I2	192.168.0.2	Activated Activated	You have login		
	IPC-HFW4236M-I2	192.168.0.24	Activated			
	IPC-HDW4238C-A-V2	2 192.168.0.24	Activated			

If the camera does not support non-verified login, pls select "camera" from online detection menu, and enter correct user name and password, then click "log in". After logging successful, you can test it. **Play**: select Mainstream or Substream IP camera live video display.

Modify network information: to modify camera parameters, such as IP address, subnet mask, gateway etc., you will need to enter camera password and log into the camera.

DH DH	l test tool				<i>🗃 💷 2</i> :01	PM 🗙
				Detail :		
	Туре	IP address	Safe mode	IP address :	192.168.5.	
	IPC-HFW4236M-	102 160 0 225	Activator			
		Please enter need c	hange inform	nation :	255.255.25	5.0
	IPC-HDW4238C-A				192 168 5	81
4	IPC-HDB4231C-/	IP address ·	10'	2 168 5 117		
	IPC-HFW4236M-	in dourcoo .				
	IPC-HFW4236M-	Subnet Mask :	255	5.255.255.0		
	IPC-HFW4236M-					
8	IPC-HFW4236M-	Gateway :	19	92.168.5.1		
	IPC-HFW4236M-	Password .			admin12345	
	IPC-HFW4236M-	1 4350014 .				
	IPC-HDW4238C-A	Cancel		ок	Play	
	DH-NVR4216-HD					
	IPC-HFW4236M-	12 192.168.0.239	Activated	Modify network	Modify us	
14	IPC-HFW4236M-	12 192.168.0.222	Activated	includy the treat		
	IPC-HDW4238C-A	-V2 192.168.0.244	Activated	Enable	Factory Re	
				Litable		

Modify user information: modify camera user name and password with ONVIF, Dahua test tool using IPC Tester user name and password (not to be confused with web user name and password).

DH t	est tool				🗃 🐖 🗋 o	9:16 🔰
Online				Detail :		
		IP addres				119
	IPC-HFW4236M-I2 IPC-HDW4238C-A-V2	192.168.0.220	Activated	Subnet Mask :	255.255.25	
	DH-NVR4216- IPC-HDW42380	ase enter user i	name and pass	word :	192.168.5	
	IPC-HDW42330 Only	modify the device	login password.		3E061A7PAA	
	DH-NVR4216-	name :	admin		admin	
	IPC-HEW4236 IPC-HDW42386 Pass	word :			idmin12345	
	IPC-HFW4236 IPC-HFW4236	Cancel		ок	Play	
	IPC-HFW4236M-I2	192.168.0.241	Activated			
	IPC-HFW4236M-I2		Activated			
	IPC-HDW4238C-A-V2		3 Activated		Eactory Re	

Factory reset setting: Camera will be soft reset, and the device's user name, password and network settings saved. Other setting information is reset to factory default.

3.3.24 Update

Copy the update file to an SD card on another device. "Update" directory, if no directory, create one. Click the icon to open the Update menu. Select "Local Update" to update via the SD card. If other applications need updating, the applications will list in the interface. Click related applications, update to the latest version.



Online update: Connect the Internet to update the apps.

System update: Connect the Internet to update systems.

3.3.25 Office

Quick office app (Excel, Word, ppt formats supported) doc. editable

0	Quickoffice	+	1		
OPEN	OPEN OR CREATE NEW FILES				
	Open file				
W	New document				
This app is no longer supported, but all your favorite features & more are now built in to Google Docs, Sheets and INSTALL Slides.					

3.3.26 LED Flashlight

Is a convenience included to assist seeing your work in dimly lit places. Click





While in the flashlight app, click the red button on the torch image to turn On (or Off) the LED lamp. Press again to turn it off. If you press the *state* button to exit the app before switching the torch Off, the lamp will stay on. "Time Setting" can switch off the lamp after a pre-determined period.

3.3.27 Browser

Click or icon to enter:

Connect to the camera's RJ45. Add the camera's IP address and press "Go" to access IP cam's interface.

NOTE: Browser is unable to view live video, use tester's live camera viewing Apps to view vision.



The IP camera and IP tester must be on the same network segment for the browser to interface with the camera. If they are not, press "RETURN" to exit. Open "Settings" from main menu to change the IP tester's network settings to match those of the IP camera.

3.3.28 Notepad:

Notepad can be used to record the important testing results. Click the "Save" key to save the contents.

Notepad can auto record Date and Time record is saved.



Click **Note** icon to view notepad. All saved contents will show. Click each record bar to see the details. To delete files, press and hold the record bar for several seconds. Device will prompt do you wish to delete it?

	Open	루 📮 11:23 AM	X
1			
test1			
2017/09/21,17:13			
2			
L			

3.3.29 System Setting



Language & input: Change carefully as selecting an unfamiliar language may render the tester useless. Change Menu language from: English, Chinese, Korean, Russian, Italian, Polish, Spanish, French or Japanese. Typewriting: You can select a different keyboard:

Settings		员 🚅 🗍 11:07	AM	X
Aa Language & input	Language			
Date/Time		田飞给入法		
IP Settings				
WLAN Net		Android Keyboard (AOSP)		
Brightness		Japanese IME		
Volume				
D SD card				

Date/Time: Set your region, Eastern Australia it is +10 hours GMT or UTC. Then DATE and TIME.

IP setting: Manually set the IP address, Subnet Mask, Default Gateway and DNS address or select

"Dynamic allocation" to use DHCP. To test multiple network segments, click "Advanced" and then "Add" to enter another IP address for the IP tester.

Settings		🔄 📲 🚍 11:34 AM 🚺
Aa Language & input		IP Settings
	Mode: Ethe	ernet ON DHCP serve ON
To Date/Time	IP Set in: Statio	Dynamic(DHCP)
IP Settings	IP Address:	192.168.0.238
WLAN Net	Subnet Mask:	255.255.255.0
Brightness	Gateway:	192.168.0.1
	DNS address:	114.114.114.114
D Card	0	IK PPPOE

WLAN Net: Click "Open WiFi" button to turn WiFi Off or On. Once WiFi is On, click connect WiFi, to scan for wireless networks in your area.

Settings	a:20 PM 🔀	Settings		🥛 🤋 🚺 9:52 AM 🔀
Aa Language & input	Wi-Fi hotspot	Date/Time	WODE	
Date/Time		IP Settings	State Connected	
IP Settings	WIFI ON/OFF ON	🔕 waanaa 👘	The connection speed	ON
WLAN Net	WLAN Net	Brightness	72Mbps	
Brightness	HNH-1 Not Connect	Volume	192.168.0.110	
O Volume	WODE Discontinued	SD card	Forget Cancel	
D SD card	ChinaNet-uHNZ	FTP server		

Click & hold "WIFI" for several seconds, to set a static IP address

Settings			🗐 11:35 AM	×
Aa Language & inpu	WODE			
Date/Time	IP Address:			
IP Settings	Gateway:			
WLAN Net	DNS:			
Brightness		Vinamic(DHCP)		
Volume	Yes	Cancel		
SD card		Not Connect	2	

Wi-Fi hotspot: To create a Wi-Fi hotspot, enter "SSID" name and "PassWord", and then click "OK".



Brightness: Set desired Screen Brightness and adjust Sleep Time settings for the tester.

Volume: Set audio volume level.

SD Card: Displays SD Card Capacity, you can also format the SD card or unmount before removing.

FTP server: Once the tester is connected to a network, a remote computer can be used to read the SD card files via FTP.



Start the FTP server and then enter the tester's FTP address in the PC's address bar. This will enable the PC to read, copy and edit files from the SD card without the use of an SD card reader.

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🔅 cær	android_secure	Junder, backup	1. See	Alarms	Android	
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8 Kell)), ssparskapdate 2008)), SC MAD	LOSTER 28R	Movies 2008	Music 329.95	
2 28 2 58778	Notifications	actest	OW/FfselPhoto	OWFIceMidectape) oue	
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44 本地田舎 (C) (1) 本地田舎 (D)	L printeriden	agerure 200	Nighteres	System Volume Information) system, update	
Ca FEER (1)	L top	L tendata	ThunderDownload	toolsup 210R	Lupdate 3235R	
	ideo ana	alkan 2HR	A SHR	1080s jag	1000ja mark	
	2000-01-02-07-26-42.mp3	2000-01-02-07-42-14.mp3	2000-01-02-07-46-18.mp3	2000-01-02-07-49-02.mp3	Amp3	
	aloggioke	anjog	aaaaa.mp?	Be My Girlanp3.mp3	benberunp3	
	cc.k254	cNi, sim traineddata	and desimplety	erg traineddata	Framareot-v1.8.3cn.apk	
	Mapk Pilapk	mill feibu-F7-mill577-secovery- 20121205.img	Matkaunchapk	mkejaat,2223 jaath264	nisi,ata,aignaip	
	menajog	Contraction of the second	antwork.cfg	pta têg	assa for	

Version information: Shows app version info. Press any app icon for several seconds to uninstall.

Screen display rotation: Click on "Screen Rotation" to flip the tester's display 180 degrees. This permits the user to have the LAN cable on the bottom of the tester.

PTZ address scan: You can toggle the PTZ Address scan Off or On before entering "PTZ controller"

app. This needs to be turned on in order to use the PTZ app Scan feature.

User Feedback: Suggestions or comments can be submitted in writing via your distributor.

Lock Screen: Tester default is Unlocked, it can be Locked by either password or Lock pattern.

Password Screen Lock: To set a password enter digits, letters or characters. Enter again to confirm. When the tester is in standby mode or switched on, you can type your password to enter.

Pattern Screen Lock: Draw a pattern to Lock or Unlock the tester. To modify reset lock screen password. Then draw a new lock pattern.

Restore factory settings: All your personal files and apps will be removed. After restoring, allow an extra 5 minutes or so for the various app's to reload.

3.3.30 File explorer

Click "File" from the top of the menu bar, select internal or external storage. Click on the upper right corner Icon "..." menu will appear, you can select another operation or exit.

BROWSE FILE	FTP	i
/mnt		
asec (0) 9/25/2017 9:57 AM		
media_rw (2) 9/25/2017 9:57 AM		
obb (0) 9/25/2017 9:57 AM		
sdcard (52)		

Browse

Includes Music, Videos, Pictures, Documents, zip files etc. Convenient to manage and view file structures.

BROWSE	FILE	FTP	
FJ Music	Videos Pics	Pics	 D card:3.6 GB Space available:2.5 GB Music:23.1 KB Videos:7.9 MB Pics:85.0 MB
Docs	Zips	V Favorites	 Themes:0 B Docs:343 KB Zips:0 B APKs:0 B Misc:1.0 GB

FTP server

You can choose the internal or an external SD card. For other operation details, refer to FTP settings

BROWSE FILE FTP	
Anonymous login	 external SD internal SD
	start service

3.3.31 Theme

Click Theme icon to enter themes setting. Desktop style : you can select Lite mode or normal mode.

Theme: Pressing any square area's icon color for several seconds, the selected color icon will move automatically to the rectangle area. If you press selected color for several seconds, it will be deleted. Theme colors include fixed and random orders, click "set" to save.
Color

When setting background color, you can select colors from Color Phase, or can enter color's RGB to set.



When color setting is complete, click "set" to set as desktop or application background.





Set as desktop background: Setting color as Desktop background

Set as application background: Set color as Application background

Set at the same time: Setting color as desktop background and application background.

Cancel: Cancel current setting.

Picture: Click a Picture to select, and set as temporarily background to view setting effect. Click "more" to select pictures from local file, and click set to set picture as background.



Sliding effect:

Tester's sliding effect includes stereo effect, folding effect, Left and right folding, rotate effect, Ombre effect etc, selecting one of effect to view slide effect in the square area, and click "set" to save



3.4 Audio test

To test the Audio connect an audio pickup device to the IP tester with the supplied audio cable.



3.5 PoE power output

The tester provides temporary PoE (Power over Ethernet) to an IP camera via the LAN port. Data transmission and 48VDC use the network cable's 1, 2, 3, and 6 pins to deliver power. If the IP camera supports PoE, you can directly connect to the camera *without the use of an external power supply*.



ANote

a. Ensure the cable connected to the tester's Lan port is a straight-line cable without shorts, otherwise the tester may be damaged.

b. Before using PoE power out, check that the IP camera supports PoE powering, otherwise the tester may damage the IP camera.

c. The instrument's PoE maximum power output is 25Watts. Should a high demand power load occur, the tester will shut down to protect itself. To recover, remove the load and re-start tester.

3.6 DC12V 3A power output

When the tester is turned on, DC 12V power out is ON by default. The smaller end of the supplied cable connects to the tester's DC12V <3A OUTPUT, the other end connects to camera's power input.



Application

Power outputs are mainly used for camera field demonstration and testing. If no power is available the tester can provide temporary power, but it should not be used to power a camera for longer periods.



- a. Don't connect power into the "DC12/3A OUTPUT" port of the tester.
- b. Damage may be excluded from any warranty claim.
- c. The tester max. power output is 3 Amps. If a camera draws more, the tester may enter protection mode automatically. To recover, disconnect all cables from the tester and restart.
- d. Ensure the tester has a sufficient charge to be able to provide enough output power.

4. Specifications

4.1 General Specifications

Model	IP Camera Tester
Display	New 102mm (4inch) IPS touch screen cctv tester 800 x 480 native resolution
Network port	10/100/1000Mbps auto adjust, RJ45
WiFi	Built in WiFi, speeds 150Mbps, displays wireless camera image
H.265 Mainstream	New hardware decoder, 4K H.265 / H.264 camera image display
IP discovery	Auto-scan the whole network segment for IP cameras etc.
Rapid ONVIF	Search for camera quickly, auto log in and display camera image.

Hik test tool	Activate Hikvision cameras, display camera image, modify IP, User Name and Password parameters etc.
DH test tool	Activate Dahua cameras, modify IP, User Name & Password parameters etc.
	ONVIF, ONVIF PTZ, Dahua IPC-HFW2100P, Hikvision DS-2CD864-E13, Samsung SNZ 5200 Tiandy TD NC9200S2 Kodak IPC1201 Honeywell
IP camera type	HICC-2300T, RTSP Viewer.

Lens Simulation	Simulate 2.8 / 3.6 / 4 / 6 / 8 / 12 / 16 & 25mm lens view areas
Focus information test	Camera focus info, signal quality test, Image quality test.
CVI video signal test	1 channel CVI via BNC coax interface, resolution 720p 25,30,50,60fps / 1080p 25, 30fps / 2560 x 1440p 25fps, 30fps, 3840 x 2160 12.5 / 15 FPS supported
TVI video signal test	1 channel TVI via BNC interface, resolution 720p 25,30,50,60fps / 1080p 25, 30fps / 2048 x 1536p 18, 25, 30fps, 2560 x 1440p 15,25,30fps / 2688 x 1520p 15fps, 2592 x 1944p 12.5,20fps / 3840 x 2160 12.5 / 15 FPS supported
AHD video signal test	1 channel AHD via BNC interface, resolution 720p 25, 30fps / 1080p 25, 30fps / 2048 x 1536p 18, 25, 30fps, 2560 x 1440p 15, 25, 30fps / 2592 x 1944p 12.5, 20fps, 3840 x 2160 15 FPS UTC control and call of OSD menu supported
Analog video test	1 channel CVBS via BNC interface, PAL or NTSC Auto select
Snapshot, Video record and playback	Capture images and record live video JPG files. Media player can view photos and playback video.
TesterPlay	Sends screen: from tester to Android devices and PC display, at the same time.

12V power output	12V @3Amps DC temporary power to camera
PoE power output	48V PoE temporary power output, maximum power 25W
Screen management	Lite mode and normal model available. Under normal mode, you can change icon sequence and define the number of icons on each page.
Theme	Self-define icons, desktop and application interface background, modify interface sliding effect
Drop-down menu	Includes PoE power switch ,IP settings, CVBS, etc.
Audio test	1 channel audio signal input
PTZ control	RS485, 600-115200bps Baud, compatible with more than 30 protocols such as PELCO-D/P, Samsung, Panasonic, Lilin, Yaan, etc.
RS485 data monitor	Captures command data from controlling device for analysis, also sends hexadecimal
Network test	IP address scan, link scan, and Ping test. Quickly search the for IP camera's IP address on your network
POWER	
External power supply	DC 12V @ 1A
Battery	Built-in 7.4V Lithium polymer battery, 2400mAh
Rechargeable	Charge working time 8 hours after charging 4 to 5 hours
Parameters	
Operation setting	OSD menu, select your desired language: English, Chinese, Korean, Russian, Italian, French, Polish, Spanish, Japanese etc
Auto off	1-30 (mins)
General	

Working Temperature	-10°C to +50°C
Working Humidity	30% to 90% Relative Humidity
Dimension/Weight	126mm x 83mm x 33mm / 0.32kg

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