SeeStation™

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Quick User Guide to set up IP cameras

1. IP Camera Connection

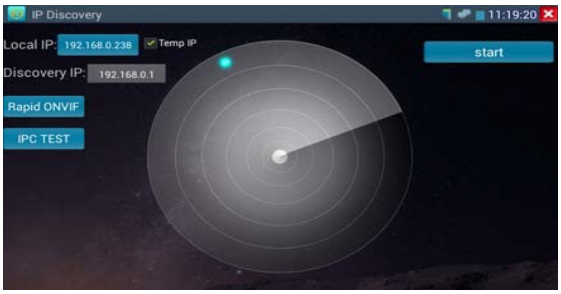
Connect the IP camera to the tester's LAN, click on the icon labelled POE to turn the POE power on or off. Or connect the IP camera to the tester's DC12V2A/OUT by the 12V power supply cable. (See picture below)

Note: If the link indicator of the tester's LAN port is green and the data indicator flickers, it means the IP camera and the tester are communicating. The tester's upper right corner will show the  icon.

2. IP Discovery to quickly find IP camera's IP

Using the IP discovery app, the tester will auto scan all the IPs on the network segment and auto modify the tester's IP to match those of the IP camera.

Step 1: Click IP discovery  , the tester will auto scan all the IPs on the network segment and auto modify the testers IP to match the IP camera. No need to modify the tester's IP manually.



Note: *If "Temp IP" is "√", the tester's modified IP will not be saved,*
if "Temp IP" is not "√" the tester's modified IP will be saved.
Click "Start" to go on the IP camera PING testing to check if the IP address is correct.

Step 2: Click "Rapid ONVIF", the tester will auto log in and display image feed from the IP camera.

Or click "IPC TEST" to find if there are IPs matching the IP camera and use the IPs to view the IP camera video.

Step 3: If no image displays, please go back to IP discovery interface to make sure "Temp IP" is not "√"
Note:

1) Before using IP discovery app, connect the IP camera and tester by LAN cable

2) If the tester connects to the Local area network but not to the IP camera, IP Scan app can scan all the IP on the network, but you won't be sure which IP belongs to the camera

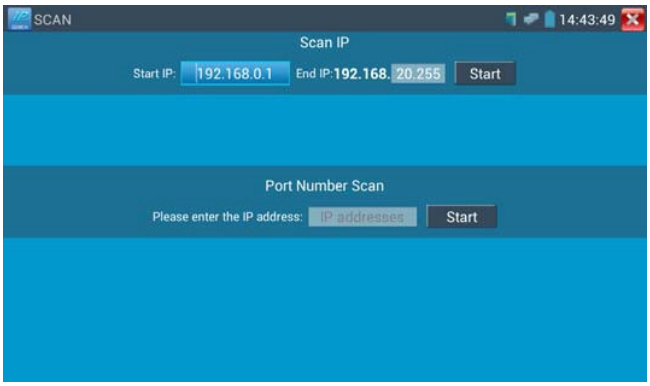
3) IP discovery app cannot work if the tester connects to Wi-Fi

3. Confirm IP camera IP

If you don't know the IP camera IP, please use "IP address scan "to search

- Click the icon 

to enter IP search.
- Set the start IP and end IP (IP that will be searched should be in the range between start IP and end IP). For example, if Hikvision camera default IP is 192.0.0.64, then the start IP should be 192.0.0.1, the end IP should be 192.0.2.255.

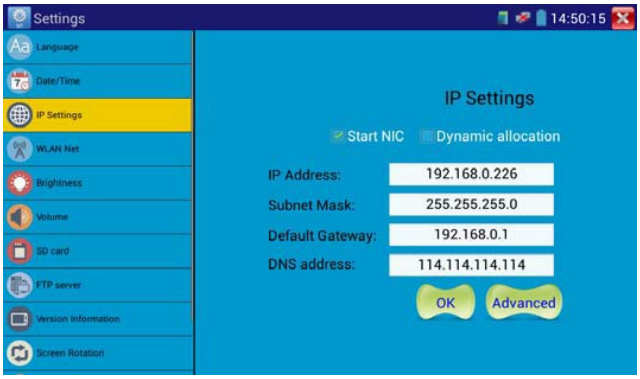


Generally the IP cameras have factory default IP, if you don't know the camera IP, please refer to the IP camera manual or consult available source.

4. Set the tester's IP to match the IP camera in the same network segment

Note: If you did not use the IP dicovery app to auto mofidy the tester's IP, please refer to the following instructions

- Click  to enter and click "IP settings"
- Change the tester's IP address to match the IP camera in the same network segment, for example IP Camera's IP is 192.0.0.64， the tester's IP should be 192.0.0.X, the digital "X" should be within the range of 1-63 or 65~254, (the number 64 cannot be used, because if "x" is 64, the tester and IP camera are using the same IP, it cannot test). Generally, subnet mask will not need to change, gateway address setting should be consistent with the camera, it should be 192.0.0.1

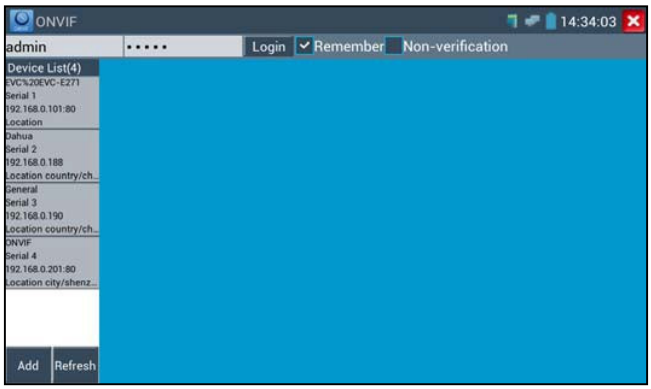


5. Use ONVIF to view IP camera video

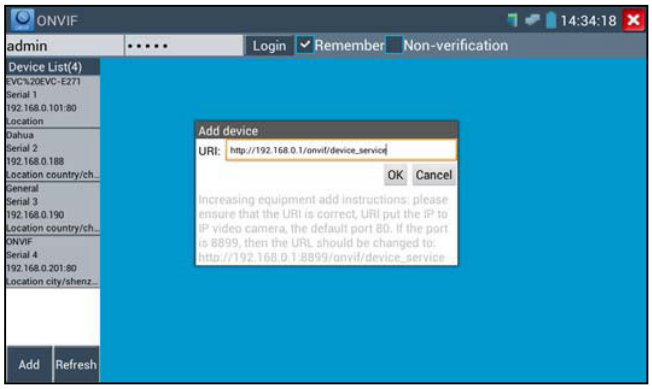
The Open Network Video Interface Forum (ONVIF) app is used to connect to ONVIF compliant IP cameras only. If the IP camera's video stream is MPEG4, use the ONVIF (SD) mode. If your IP camera's video stream is H.264, use ONVIF HD (High Definition), HD mode cannot support MPEG4. While in SD mode, if the network camera resolution is 720P or higher, the image display may be delayed. While in HD mode, if the network camera stream is H.264, the tester can fluently display the image up to 1080P.

Click icon  to enter the ONVIF app. Then tap either the "ONVIF" icon for SD mode (MPEG4) or the "ONVIF HD" icon for HD mode (H.264).

If you select ONVIF SD or HD mode, the tester automatically scans different network segments for ONVIF cameras. It lists the camera name and IP address on the Device List. If no cameras appear under the device list, try clicking on the Refresh button

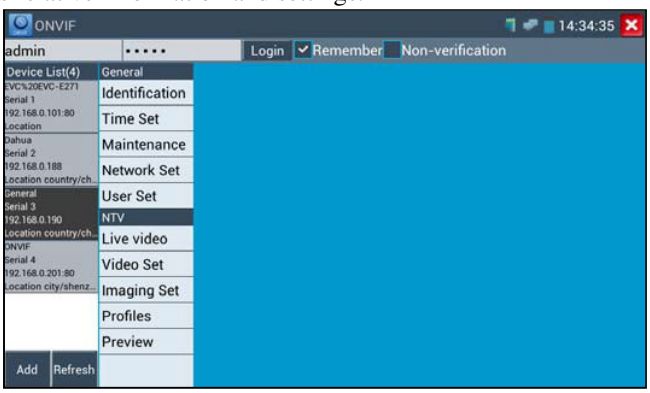


If your IP camera does not appear after scanning the network, you can manually add an IP camera by clicking on the "Add" button on the bottom left. The URL address should be identical to the ONVIF camera service address. (With your camera's IP address entered into the URL). Click OK to add the manually entered camera and then click the "Refresh" button.



Click the "Refresh" button; The tester will scan the ONVIF camera again.

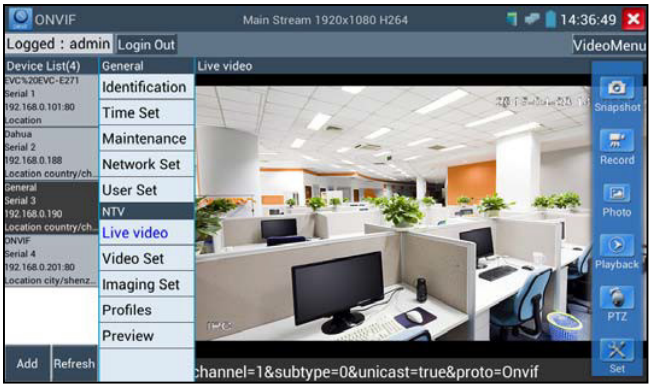
Click the newly displayed ONVIF camera on the "Device List" and the tester will show the IP camera's relative information and settings.



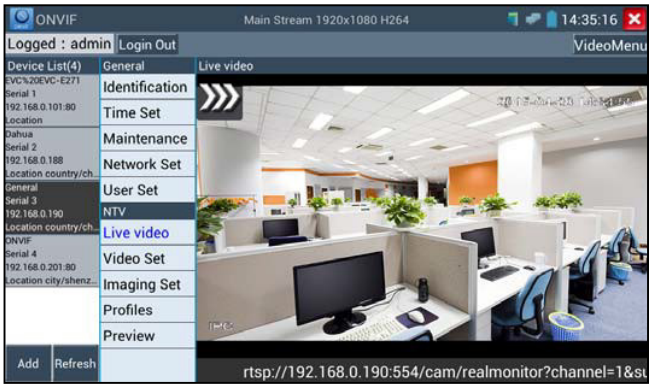
After selecting your ONVIF camera, enter the IP camera's username and password at the top left of the screen and then click "Login". After you log in, click on the camera under "Device List". Once you are connected to the camera, the following options become available: Identification, Time Set, Maintenance, Network Set, User Set, Live Video, Video Streaming, Image Set and Profiles.

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.

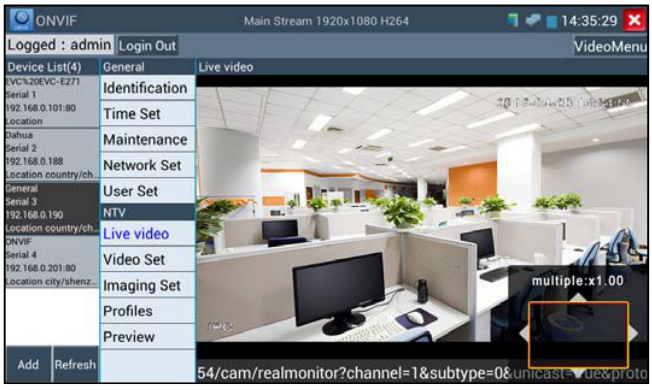
While in the "Live video" menu, click "**Video Menu**" at the top right of the image to access the following tools: **Snapshot, Record, Photo, Playback, PTZ and Settings**



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.



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 [TELE] to zoon in , press the key [WIDE] 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.)

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.

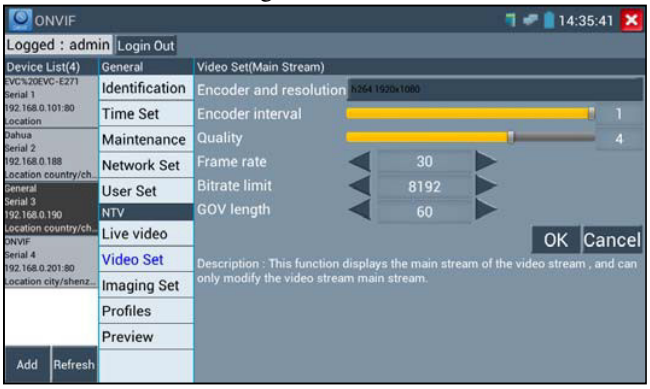


Image setting: Click "Imaging Set" to adjust image brightness, saturation, contrast, sharpness and backlight compensation mode.

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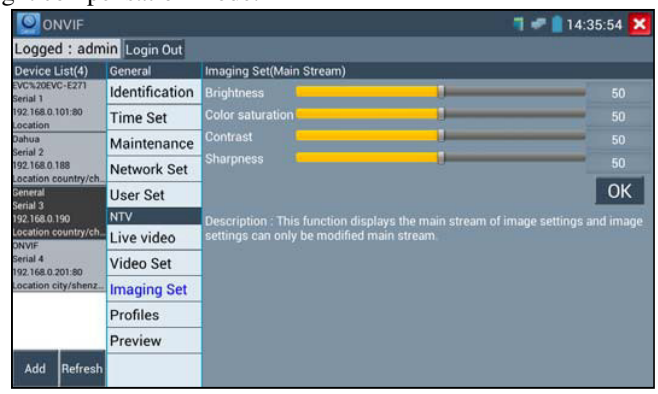
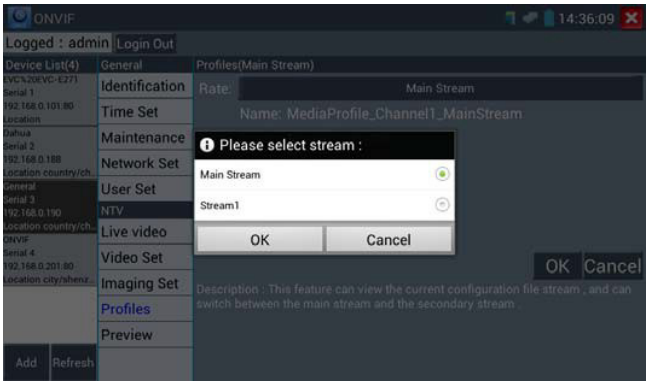
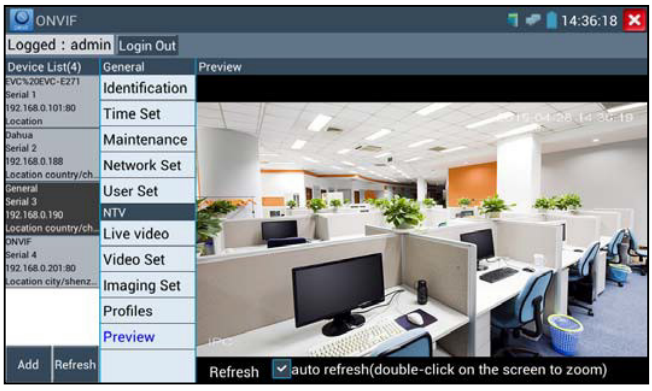


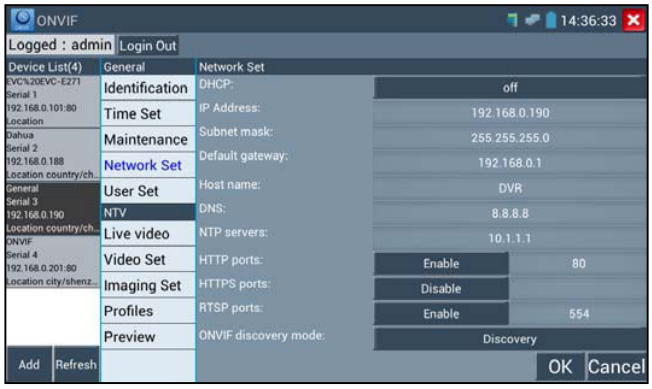
Profiles: Click "profiles", can view video streaming current configuration files, as well as switch between Major stream and minor stream.



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

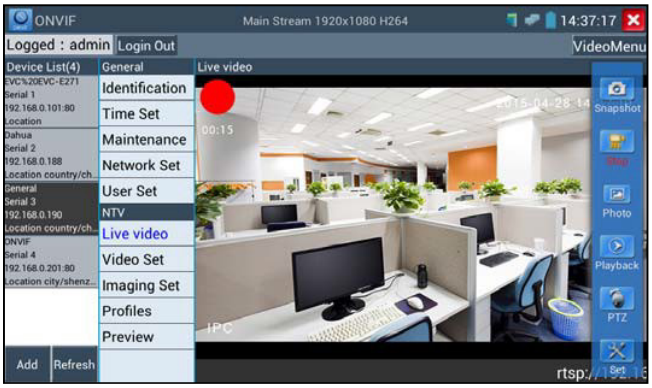


Network setting: Click "Network Set "to change the IP address settings. Note: Some cameras are not fully ONVIF compliant and cannot support changing their IP address, so there is no change after saving.

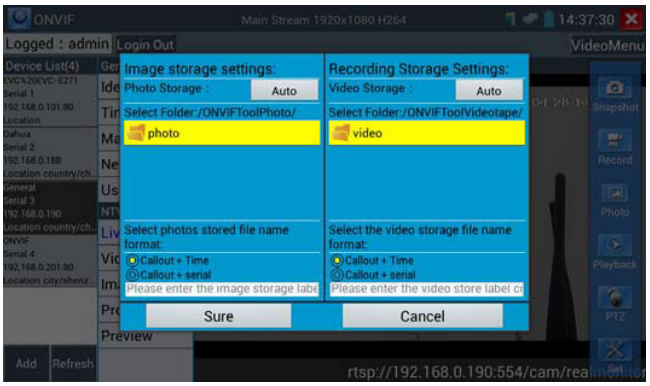


Snapshot: Click "snapshot" to save the current image as a JPEG file on the SD card
if select manual storage, appears dialog box "Input Name", user-defined the files name(by Chinese character, English letter, or digit) to save in SD card, if select "Auto- storage", the tester auto stores the files after snapshot.

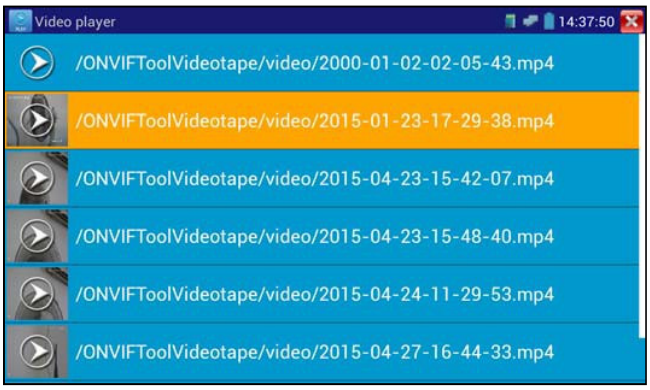
Record: When you click the "Record" icon, video starts recording. A red recording icon appears on the screen and begins to flash and a timer appears indicating the time elapsed for the video. Click on the "Stop" icon to stop recording and save the video file to the SD card.



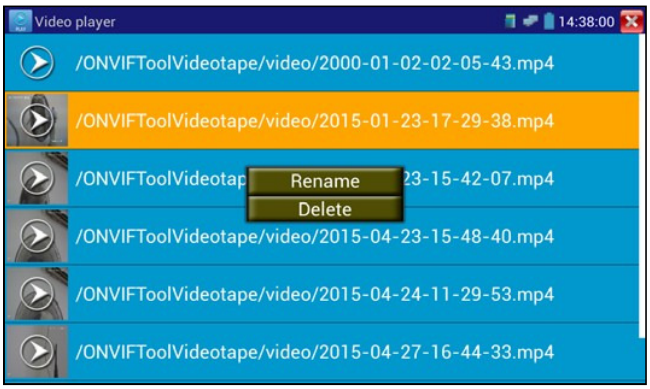
Set: Click on the "Set" icon to change Snapshot and Video recording file name settings. You can set Auto storage, which sets filenames by time or set manual storage. Click "Sure" to save file name settings.



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.

6. Use IP camera protocols to view IP camera video, please go "IPC test''

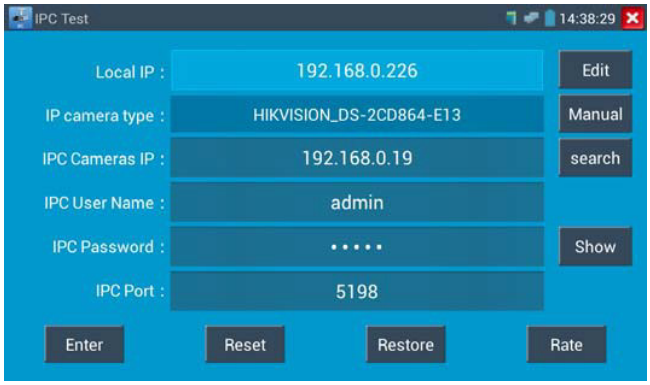
The "IPC Test" app is used for IP cameras that are fully integrated by name with the IPC tester device. If the IP camera's video stream is MPEG4, use the IPC Test (SD) mode. If your IP camera's video stream is H.264, use IPC HD (High Definition).

Click icon  to enter IP camera test

Display high-definition images, support snapshot, video record and playback. Currently, the IPC tester only support some brands' specified IP cameras, the brands include Dahua, Hikvision, Kodak, Samsung, etc. OEM service is available. Clients can send us the IP camera for our engineers to try to add the protocols to the tester.

⚠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



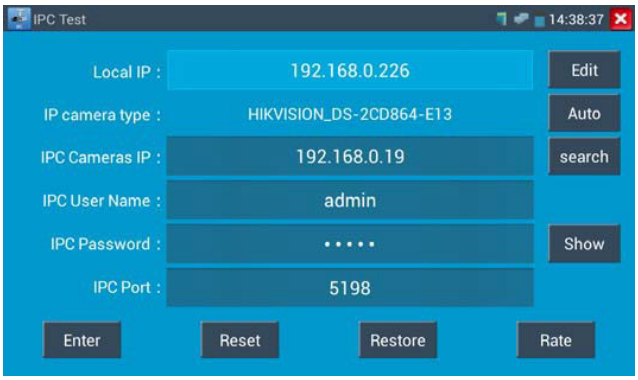
Local IP: This is the tester's IP address. Click "Edit" to enter "IP setting" and change the tester's IP address settings

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

1. When "IP camera type is Manual", please select type by manually.

Click IP camera type, list Honeywell, Kodak, Tiandy, Aipu-waton, ACTi, WoshiDA IP camera etc. If the brand has offered official original protocols, please 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)

2. When "IP camera type" is "Auto", the tester auto- match the camera type.



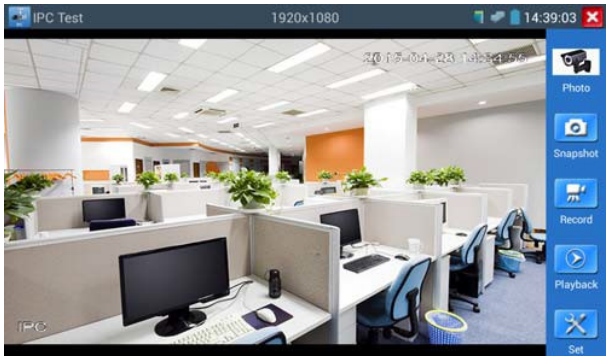
IP Camera's IP: Enter the IP camera's IP manually or click "Search" to auto scan for the IP camera's IP. It is better to directly connect the IP camera to the tester so the search results will only display the camera's IP. If the tester is connected to a PoE switch, it will find and display several IP.

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"

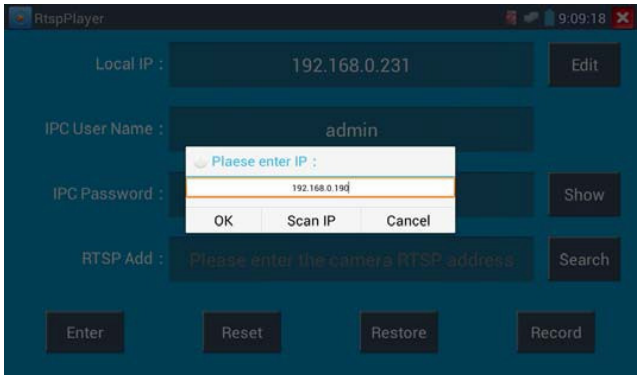
Click  to quit from image display and return to IP camera test interface.

⚠ 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.

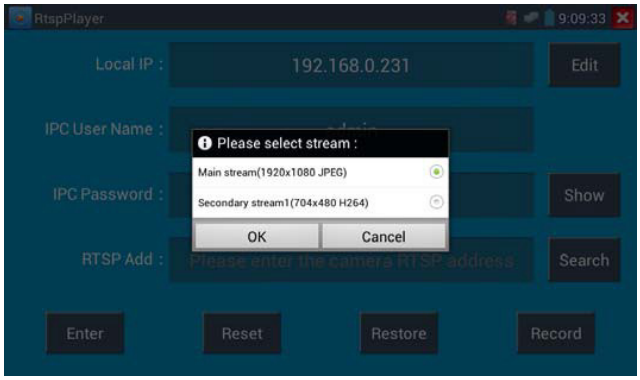
7. Use RTSP to view the IP camera video, please go RTSP Player

The RTSP Player app will allow you to view the 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.

From the main menu, select the "APP Tool" folder and then select the "RTSP Player" to open the app. If the IP camera uses MJPEG, select the RTSP icon. If the IP camera uses H.264, select the "RTSP HD" icon.



Local IP: This is the tester's IP address.
RTSP Add: This is where you can manually enter the IP camera's RTSP URL or click on 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 all the necessary information, select Enter at the bottom left to view the RTSP stream.



Note: in the event the tester does not auto detect the rtsp stream, refer to the specific camera manufacturer for the specific rtsp stream url. you may find this on line with a search of the camera model number and the word rtsp.

8. Use IP camera mobile app to view IP camera video, please go IPC VIEWER

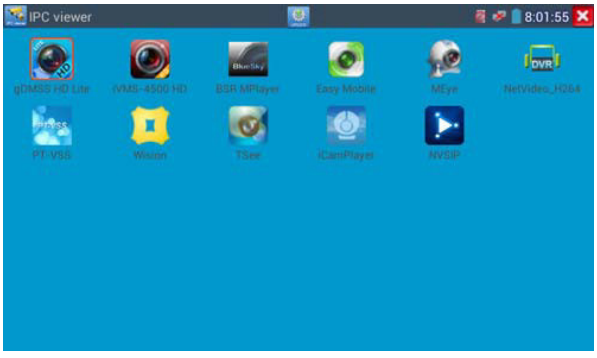
In addition to the ONVIF app or the IPC Test app, you can use one of the mobile apps in the IPC Viewer folder to view IP camera video. If you cannot find your desired mobile apps, you can send us the mobile apps (Android version. APK files) for our engineers to install in the tester, if successfully installed, the tester will allow you to see the IP camera image by IP camera viewer.

Click icon "IP camera viewer" to enter, run and set the mobile apps parameter to see the corresponding IP camera's image.

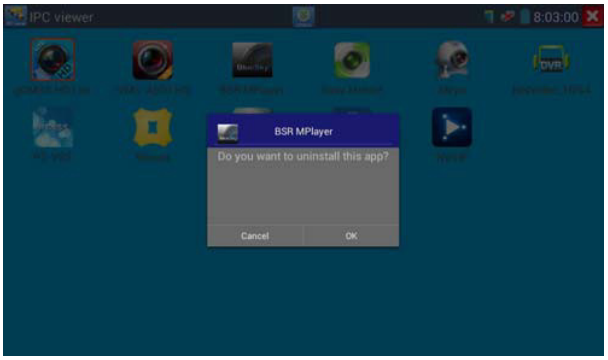
Mobile apps displays IP camera's image by software decompression, hereby the image may be not clear or fluent.

Note: The mobile apps are third party applications. We do not support these apps nor make

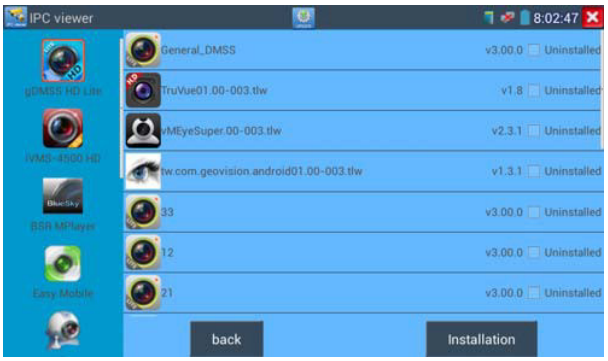
any usage claims. We do not assume any legal liability.



Click desktop icon several seconds, to uninstall this application



Click icon “update” in the IPC viewer interface, to update mobile apps.

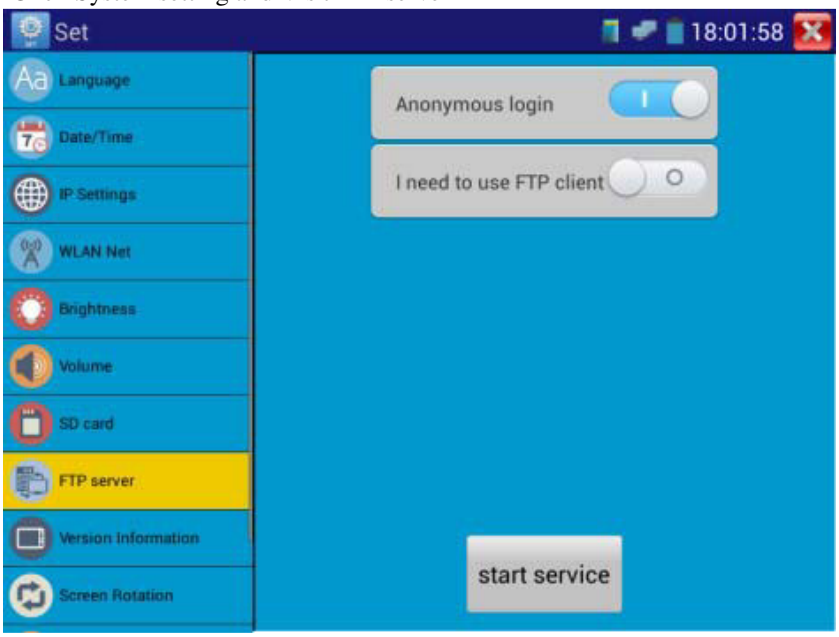


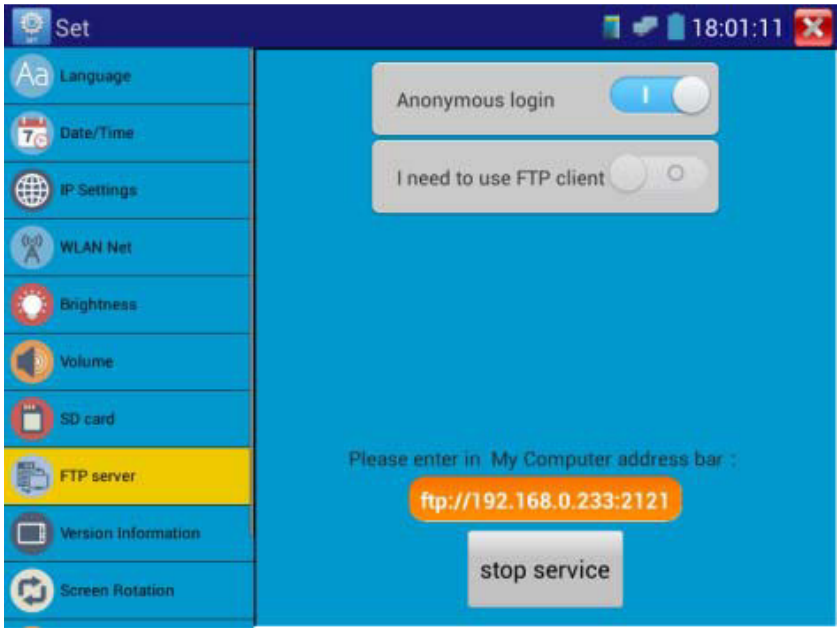
Note: How to install desired IP camera apps into the tester?

1) Send us the mobile apps (Android version. APK files) for our engineers to intall in the tester, if successfully installed, we will send the apps (programmed by our engineers) back to clients

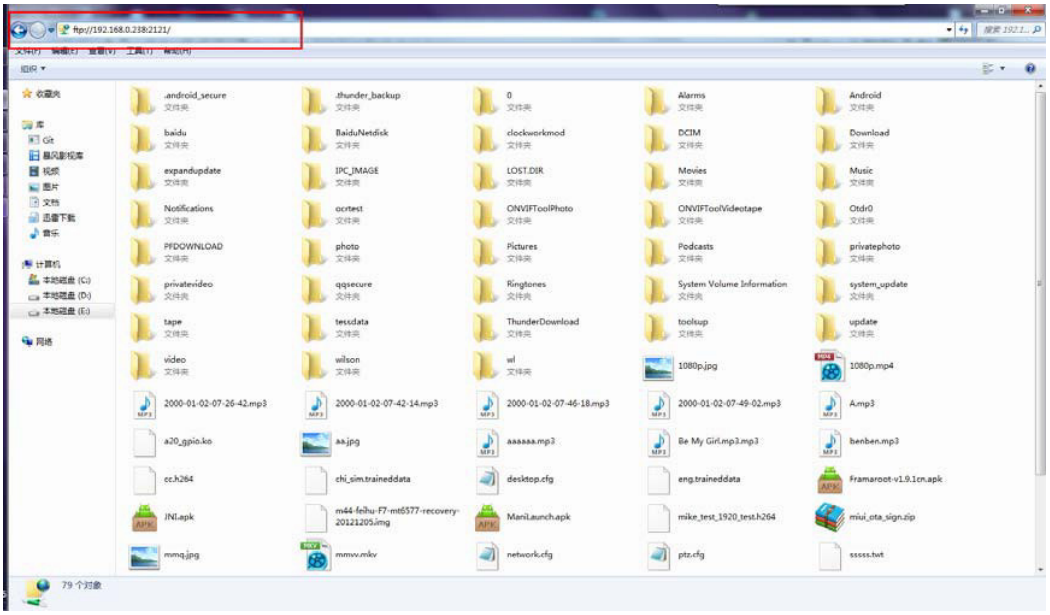
2） Use the tester’s FTP server, PC can read SD card files via network. Connect the tester to network by wifi or network port.

A. Click System setting and Visit FTP server



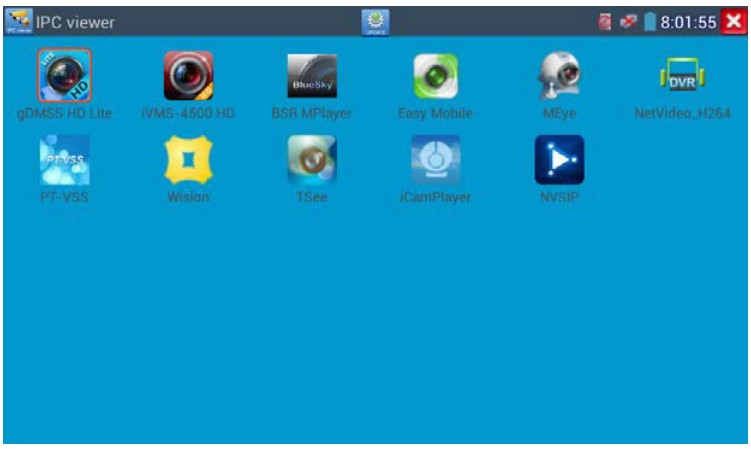


B. Start FTP server, input the tester's ftp address in the PC computer address bar. This will enable PC to read, copy and stick the files from testers' SD card without the use of SD cardreader. (ftp://192.168.0.233:2121）



C. Put the programmed apps into PC's FTP folder "expandupdate", the tester will synchronous have the programmed apps in its "expandupdate". If found no folder "expandupdate", create one.

3) Click icon “update” in the IPC viewer interface, to install the new mobile apps.



4) Click “Installation” to finish installing the new apps to the IPC viewer.