








User Manual

Statement




If the user manual doesn't help you to solve the problem, please call our technology center for technical support.

Notice

1. Installation Environment

-  Keep away from the places for high-temperature, heat source and direct sunlight;
-  Keep away from water and if wet, power off immediately.
-  Avoid using in the damp environment; the reference range for operation humidity is below 85%RH.
-  Avoid using in too hot or too cold environment, the reference range for operation temperature is $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
-  Please install it horizontally or wall mount, avoid strenuous vibration and do not place other items on top of the unit.

2. Transport and Handling

-  Please handle the item carefully.
-  Do not move the item between too hot and too cold areas.
-  Please disconnect the item from the mains before moving.



Notice:

1. Do not fall down the camera or beat it strongly.
2. Do not touch the optical components for the image sensor, such as the lens, if necessary, please place a clean and moistened cloth with alcohol and wipe the dirt gently; When not in use, please place the dust cover onto the item to protect the image sensor.
3. Do not aim the camera directly into the sun or at other intense light sources that could affect the image quality, this will also shorten the service life for the image sensor.
4. Keep away from laser when it is working, otherwise the image sensor can be damaged.
5. If the equipment is not working properly, please contact the store or the service center, do not disassemble or modify the equipment in any way.

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1 Product Introduction

1.1.Product Overview

Thank you for choosing X series high definition SmartP2P IP Camera, the IP Camera combines a high definition digital video camera with network connectivity and a powerful web server to bring high definition video to your desktop from anywhere on your local network or over the Internet. It includes indoor HD PTZ camera, indoor HD cube camera, outdoor HD waterproof camera etc. It is very suitable for home, shops, offices and so on.

Product features:

- Support High profile H.264 encoding, 3 kinds of resolution video stream simultaneously, suitable for Local, Internet and Cross-platform view;
- Support Wi-Fi protocol 802.11b/g/n;
- Support WPS/QSS one key Wi-Fi configuration;
- Support one touch Wi-Fi configuration on mobile phone before connect to the network;
- Support max. 64G SD/TF card storage for the alarm video and pictures, timing snapshot and recording, support MP4 format;
- Built-in web server, use one port to send all the data, users can facilitates network setting;
- Support IE/Firefox/Chrome/Safari browser to view video and configure device;
- Support P2P private network through transmission via manufacturer cloud platform;

- Provide IOS/Android mobile phone Apps;
- Provide Windows/Mac OS PC client software.

1.2. Product Exposition

Please check carefully if all listed items are included in the package, it includes camera, power adapter, network cable, installation bracket. If anything missing, please contact vendor in time.

The camera functions maybe different due to different product model, the main functions as below:

- **Main chip and sensor:** Due to main control chip and sensor is different, so the camera support different resolution:720P, 1080P and above;
- **Power input port:** Check power supply if 5V or 12V. Plug right power supply, or it will damage the camera or cannot run. We suggest to use the default power adapter.
- **RJ45 Port:** Network port;
- **Wi-Fi function:** The device features Wi-Fi function, built-in Wi-Fi module and antenna. The Wi-Fi antenna includes built-in Wi-Fi antenna, integration antenna, separated antenna and so on. The separated antenna would be packed with the camera in the gift box, users should install it to camera before it works.
- **IR-CUT:** A filter switching device, from day and night to switch to a different filter, then forbid or allow the infrared light in, which make the picture more true;
- **Lens:** Due to focus length of lens is different, so vision angle of lens is different. Please twist the lens for best effect if the video is fuzzy;
- **PTZ:** Control PTZ remotely, view video from several vision angle. Some device have PTZ function and some device have not PTZ due to the product cover is different, and PTZ moving angle maybe different;
- **SD socket:** Some product use SD socket and some use MicroSD socket due to the products cover are different, Max support 64GB memory card;
- **MIC inside:** Can collect the sound from camera workplace;
- **Speaker inside:** can play sound from device start, talking and alarm;
- **Audio in port:** If the camera without MIC in it, you can connect extra MIC to collect sound;
- **Audio out port:** If the camera without speaker in it, you can connect extra sound systems;
- **Alarm in port:** Connect with switchable sensor, check sensor signal if high or low to judge if detect any event;
- **Alarm out Port:** Connect with external alarm device, control device alarm action when detect any event;
- **Reset button:** After the camera started, press and hold the reset button for at least 10 seconds, it restores default settings and reboot; press and hold the reset button for 3 seconds to set up the Wi-Fi by using WPS/QSS; press the reset button briefly, the Wi-Fi indicator will flashes for a few seconds while the camera was connecting with Wi-Fi connection, you can assess Wi-Fi signal intensity by the flash frequency, the faster flash, the stronger signal;
- **Wi-Fi indicator:** Blue LED for Wi-Fi indicator that be used to display Wi-Fi work state, such as off, slow flash, fast flash, steady work etc;
- **Work status indicator:**Red LED is operation indicator that displays the state of equipment,there are off, slow

flash and flashlights flash, when someone access video,otherwise slow flash;

- **POE function:** The function that supply power to camera through network cable. But you need the camera with POE module. the device connect to POE switcher by a network cable and POE switcher supply power for device through the network cable;
- **PIR function:** The device with PIR sensor, used for detect the human movement, it trigger alarm if detect any abnormal.

2 Device Connection

2.1.Connection Diagram

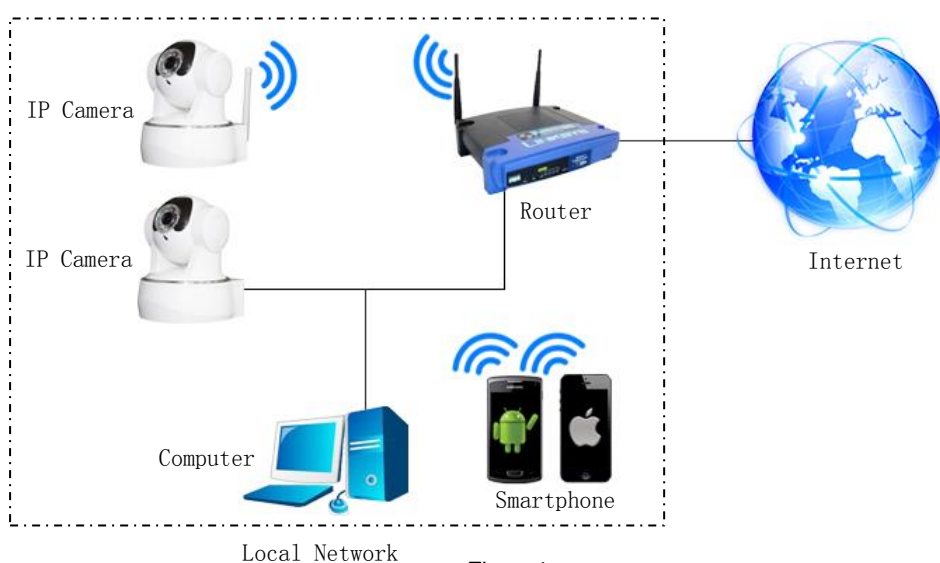


Figure1

Power on the camera by attaching the power adapter, and then connect the camera and router by network cable, so you can visit the camera via computer in LAN and view camera video as <<3. View video by browser>>

You can also connect camera and router by Wi-Fi, you need to configure Wi-Fi of the camera as<<[2.2 Wi-Fi Setting](#)>>.

2.2.Wi-Fi Setting

You can setting up the Wi-Fi as the following three way.

2.2.1. Configuration via network cable connection

Connect the camera and router by network cable as Figure1, please login the camera as <<3.View video by browser>>, access to system configuration interface to finish the setting as<<[5.1.2.3 Wi-Fi setting](#)>>.Pull up the network cable, then you can connect the router by Wi-Fi.

2.2.2. WPS/QSS One key configure Wi-Fi

Power on the camera and wait for 1 minute, the camera started, hold on reset button 3 seconds, and then click "WPS/QSS" button of the router, the camera and router will be configured Wi-Fi as WPS/QSS protocol, after configuration successfully, the blue Wi-Fi indicator of the camera will quickly flash several times, and then it will be connected to router automatically and the blue indicator will be always on.

Notice: Due to some router do not support WPS/QSS function, so you can not use the configuration way.



Figure2

2.2.3. Mobile Phone Setting

Install the "Cam Viewer 1" App in android phone or iPhone at first, open the App, access to **More** interface, select "One key configure Wi-Fi" and fill in Wi-Fi SSID and password, and then click configure to finish the setting as Figure3.



Figure3

Tips:

- Before configuration, please power on the camera, after 5 minutes, you can configure the camera (blue Wi-Fi indicator flash slowly), otherwise you can't configure, and must power on the camera again;
- Move mobile phone speaker to camera MIC, click **Configure**; (please confirm if the camera have

- MIC, otherwise the configuration will be unsuccessfully)
- After configuring successfully, the blue Wi-Fi indicator will flash several times quickly, and then connect to router automatically and the blue indicator is always on. You can click **Configure** several times when the configuration is unsuccessfully.

3 View Video by Browser

3.1. Access to camera webpage and install Plug-in

Double click to Open the “SearchPro” in the attached CD and click **Search** as Figure 4.

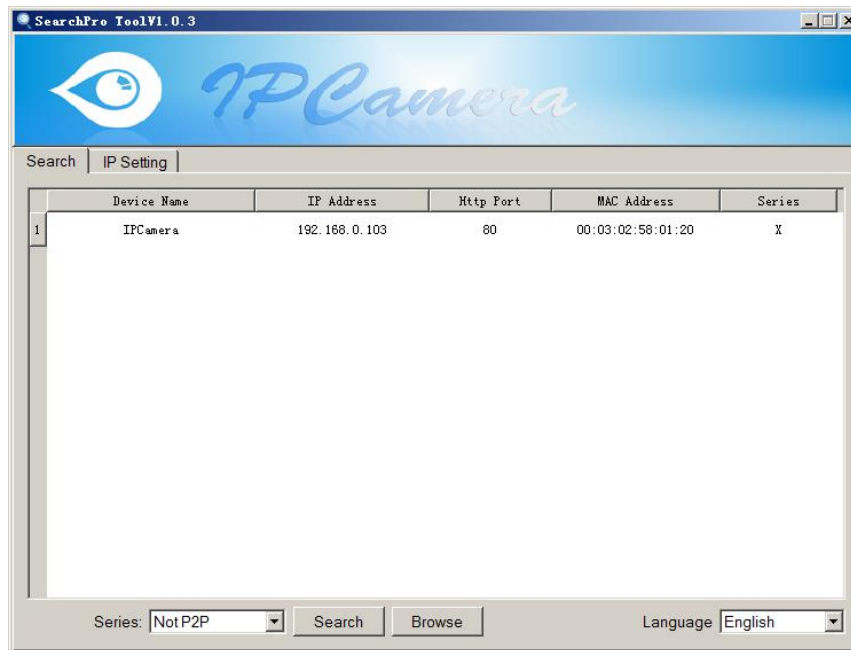


Figure4

Select the founded device and double click it to open to view in the browser, enter user name and password at popup dialog to login camera webpage as Figure5.

Tips: default username/password:admin/12345, please modify the password for safety.

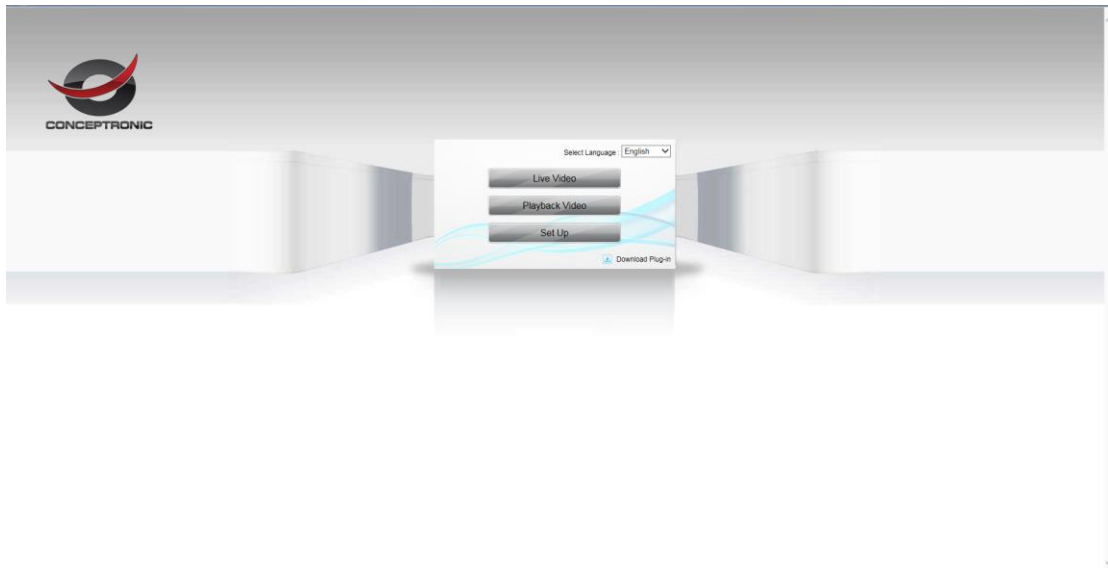


Figure5

- Need to download plug-in when first use, click “download plug-in” as figure 6, click **Run** to install it.

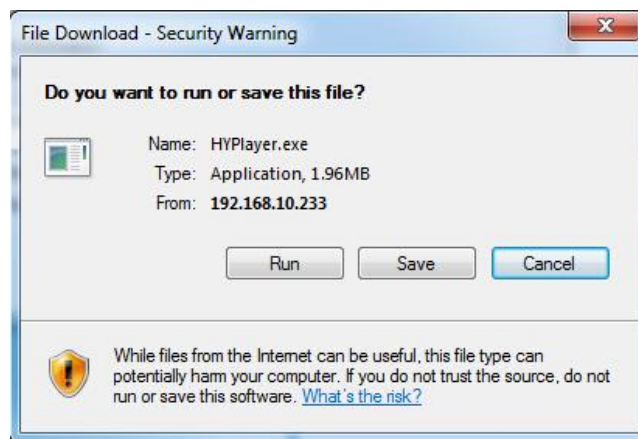


Figure6

3.2. View Live Video

Access to Live Video interface, it plays video automatically as Figure7.

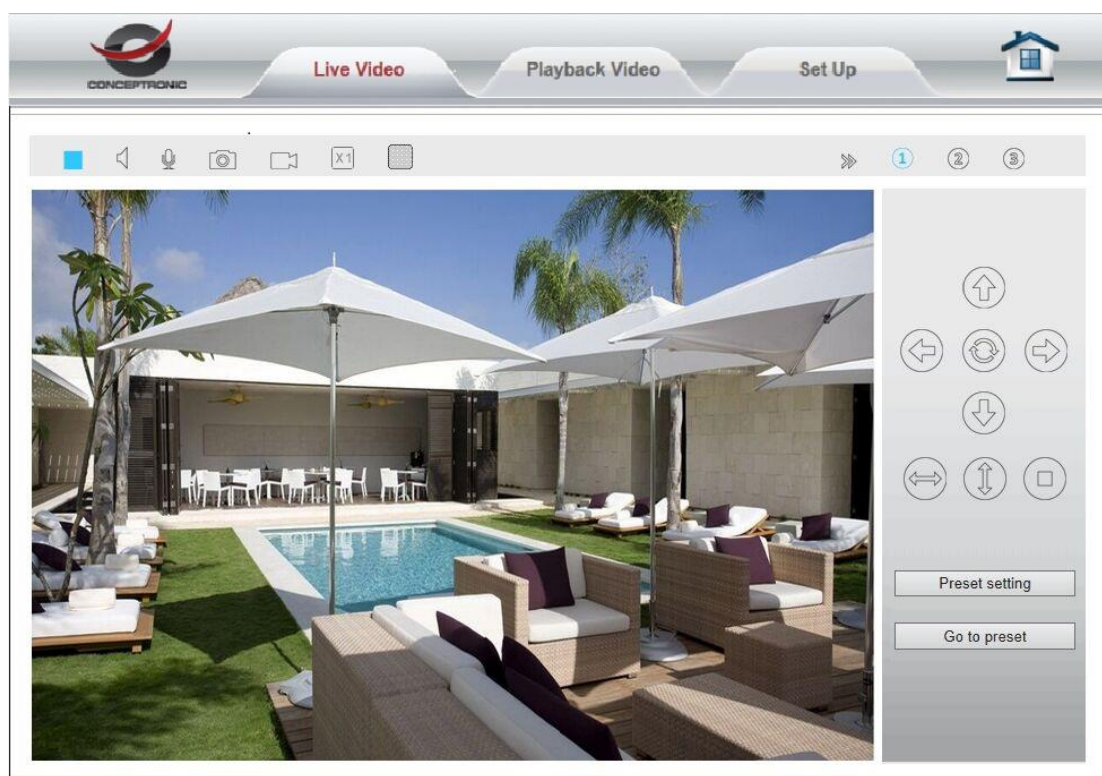
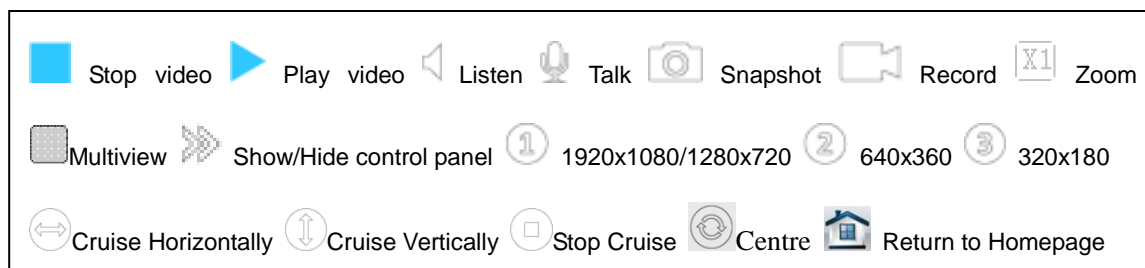


Figure7

**Note:**

1. You can view one or four video in a screen, need to set up the cameras in 5.1.1.5 multiple setting.
2. You can click **X1** to zoom in and out the video, 1x, 2x, 3x, 4x optional.
3. The first stream will change to 1920x1080 or 1280x720 automatically according to different camera.

4 Query and Playback SD Record by Browser

4.1. Playback Video

Click Playback Video to access to SD record playback interface, click record date which you want to query ,click **Search** to list recording file, select one to playback it, also can click download button to download the file as Figure8.

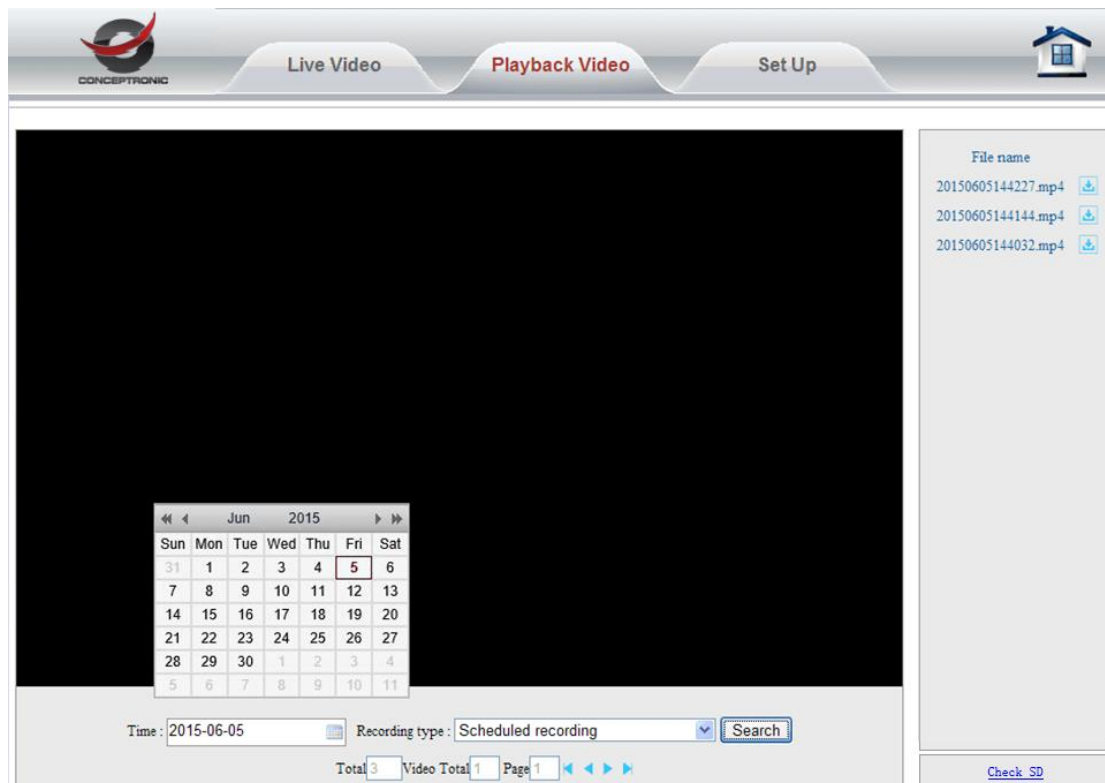


Figure8

5 Device Configuration and Local Setting

5.1. Device Configuration

5.1.1. System

5.1.1.1. Device Status

You can view current user, network connection way, Mac address, SD status and internet IP address of the camera as Figure9.

Status Time Pan&Tilt Others Multiple Settings Maintenance About

Device Status

Current users	0
Network connection	Wired
MAC address	78:A5:DD:0A:AB:AD
Recording status	No recording
SD status	SD valid, Total capacity : 7445 MB, Remaining capacity : 4768
Internet IP address	<input type="button" value="Check internet IP"/>

Figure9

5.1.1.2. Time Setting

Status **Time** Pan&Tilt Others Multiple Settings Maintenance About

Current time 2015-06-02 17:58:29

Time setting

Timezone	(GMT+08:00) Beijing, Chongqing, HKSAR, Urumchi
Sync. with PC	<input type="button" value="Confirm"/>

NTP service

Enable NTP	<input checked="" type="checkbox"/>
NTP server	time.nist.gov

Figure10

5.1.1.3. Pan&Tilt Setting

You can set up Pan&Tilt speed, cruise circles (1-10 turns) and disable motion detection when PTZ moving as Figure11.

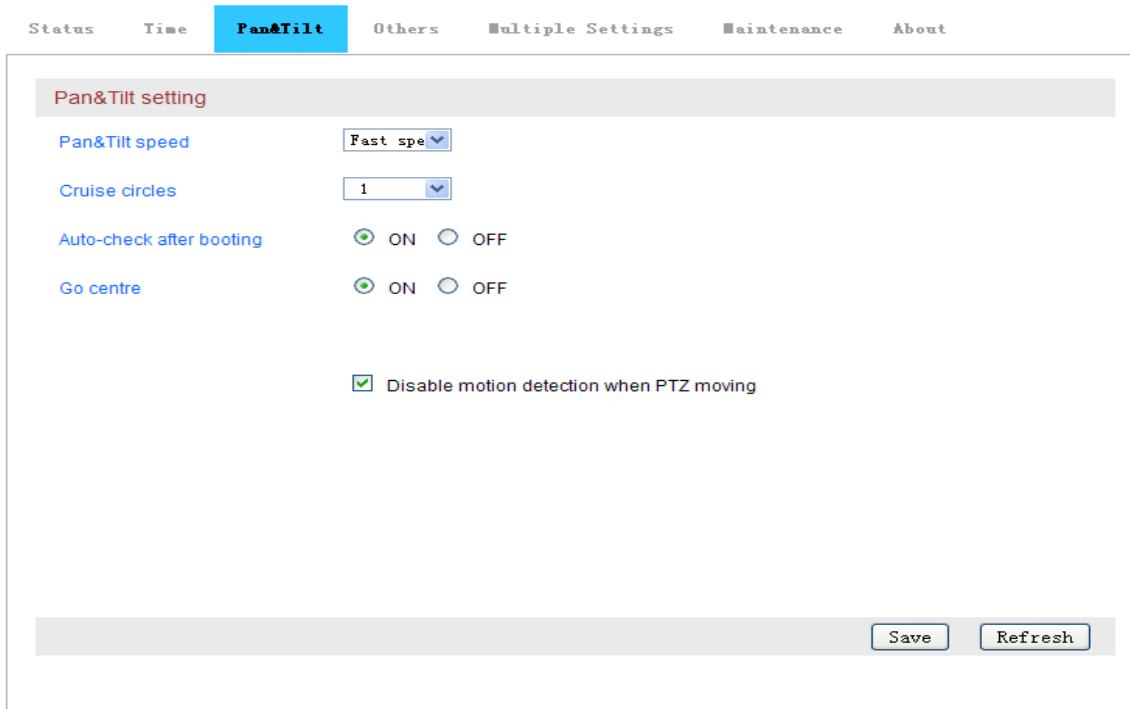


Figure11

5.1.1.4. Others Setting

You can turn off Status LED and Wi-Fi LED of the camera in others setting as Figure12.

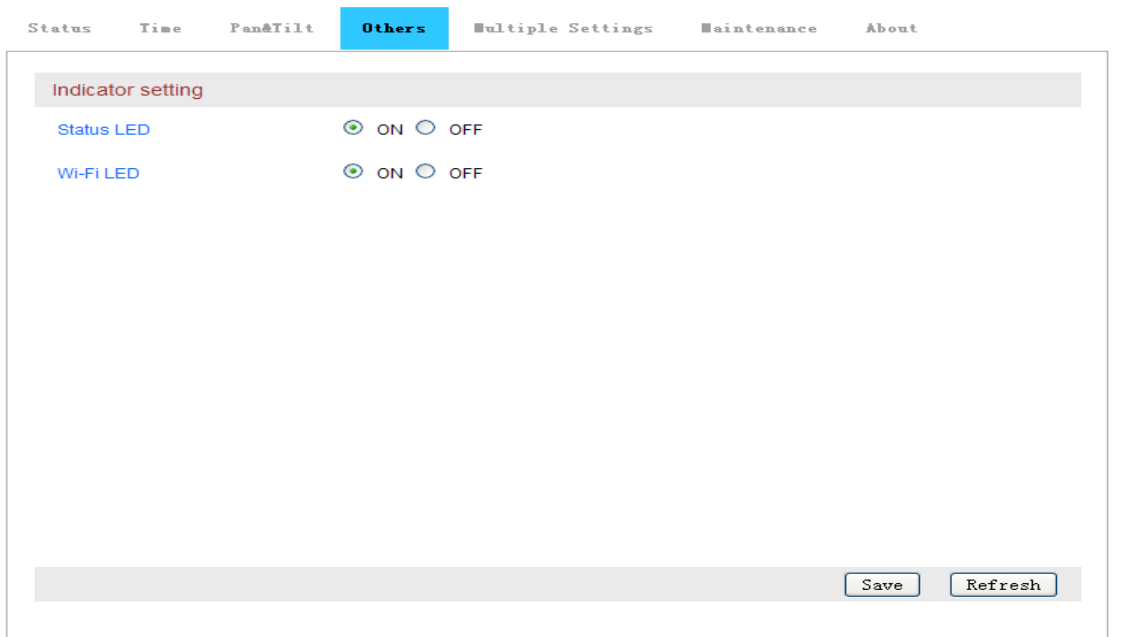


Figure12

5.1.1.5. Multiple Settings

Status Time Pan&Tilt Others **Multiple Settings** Maintenance About

search camera list :

The 1st device : native

The 2nd device :

Overlay Name

IP

Port

Username

Password

The 3rd device :

The 4th device :

Please set up multiple devices at first, then you can view 1 or 4 split screen at chapter 3.2 browse interface.

5.1.1.6. System Maintenance

The system maintenance includes System setting and Restart timing setting. You can set up reboot, backup setting, restore backup setting, upgrade camera and timing reboot etc as Figure13.

Status Time Pan&Tilt Others Multiple Settings **Maintenance** About

System setting

Reboot

Restore to default

Backup setting

Restore backup setting

Upgrade

Restart timing settings

Enable schedule reboot

Sun Mon Tue Wed Thu Fri Sat

Time : : [hh:mm]

Figure13

5.1.1.7. Device information

You can modify device name and check system firmware version, system firmware time and Web UI firmware here as Figure14.

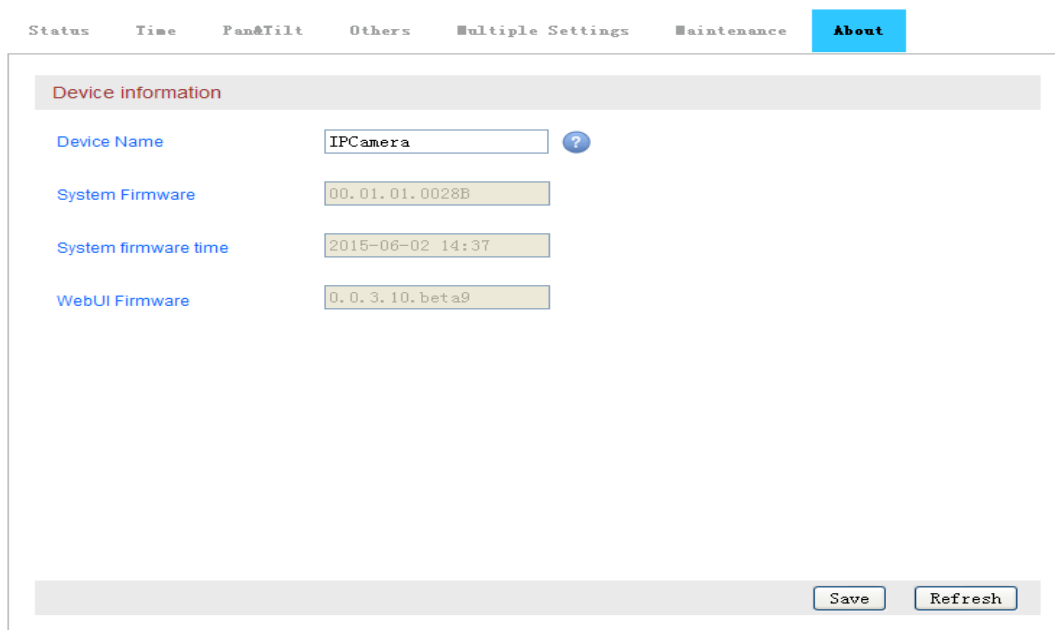


Figure14

5.1.2. Network

5.1.2.1. IP Address Setting

You can modify IP address of the camera here, there is no default IP address, it is DHCP.

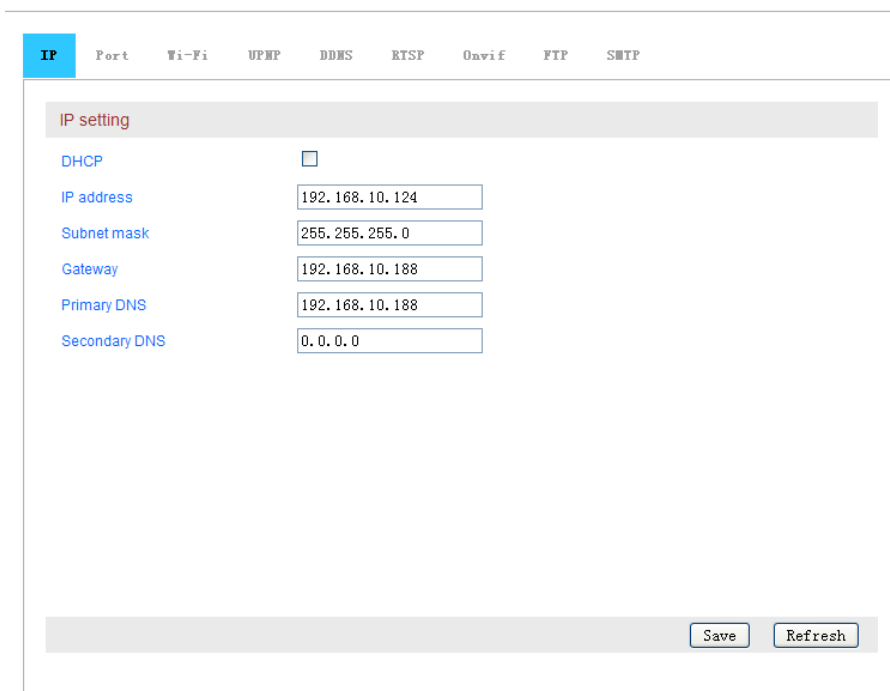
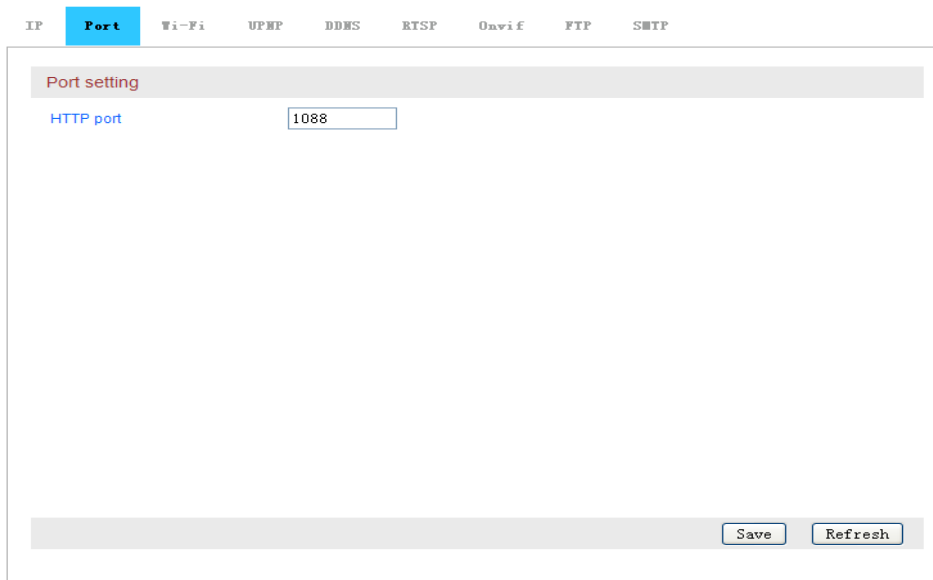


Figure15

5.1.2.2. Port Setting

You can change webpage HTTP port here as Figure16.



The screenshot shows the 'Port' configuration page. At the top, there are navigation tabs: IP, Port (selected), Wi-Fi, UPMP, DDNS, RTSP, Onvif, FTP, and SMTP. Below the tabs, the 'Port setting' section is visible. It contains a label 'HTTP port' followed by a text input field containing the number '1088'. At the bottom right of the page, there are two buttons: 'Save' and 'Refresh'.

Figure16

5.1.2.3. Wi-Fi Setting

Click **Search** and enable Wi-Fi, then select the wireless router you want to connect, enter password of the router, click **Save** to finish the Wi-Fi configuration. Click **Test** to check if your settings are successful or not as Figure17.



The screenshot shows the 'Wi-Fi' configuration page. At the top, there are navigation tabs: IP, Port, Wi-Fi (selected), UPMP, DDNS, RTSP, Onvif, FTP, and SMTP. Below the tabs, the 'Wi-Fi' section is visible. It contains a 'Wireless Network List' with a scrollable list of networks. Below the list is a 'Search' button. Further down, there are several configuration options: 'Enable Wi-Fi' with radio buttons for 'ON' (selected) and 'OFF'; 'SSID' with a text input field; 'Authorization' with a dropdown menu set to 'NONE'; 'Encryption' with a dropdown menu set to 'TKIP'; and 'Key' with a text input field. At the bottom right, there are two buttons: 'Test' and 'Save'.

Figure17

5.1.2.4. Port Forwarding

Access to port forwarding, you can enable UPNP port forwarding and check the status of it as Figure18.

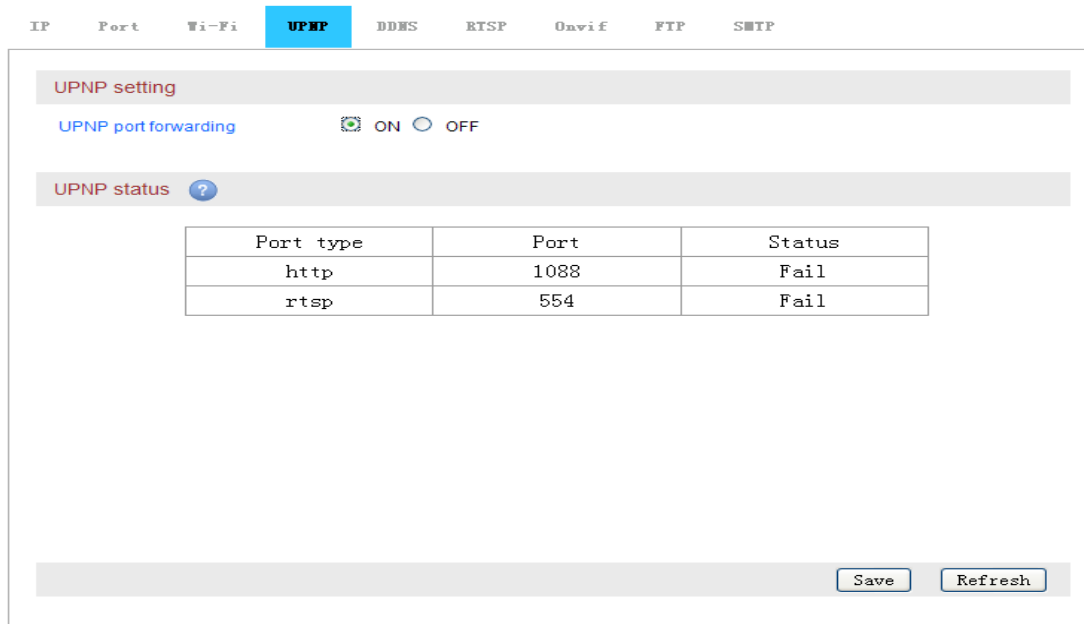


Figure18

5.1.2.5. DDNS Setting

You can enable manufacturer's DDNS and set up third party DDNS (the third party DDNS support 3322.org/Dyndns.org/No-ip.com now, the manufacturer provide a free DDNS for every camera.

IP Port Wi-Fi UPnP **DDNS** RTSP Onvif FTP SMTP

Manufacturer'S DDNS setting

Manufacturer'S DDNS ON OFF

Manufacturer'S DDNS

Third party DDNS setting

Third party DDNS ON OFF

DDNS server

Username

Password

Third party DDNS

Save Refresh

Figure19

5.1.2.6. RTSP Setting

You can set up RTSP port, also can off RTSP authentication as Figure20.

IP Port Wi-Fi UPnP DDNS **RTSP** Onvif FTP SMTP

RTSP setting

Authentication ON OFF

RTSP port

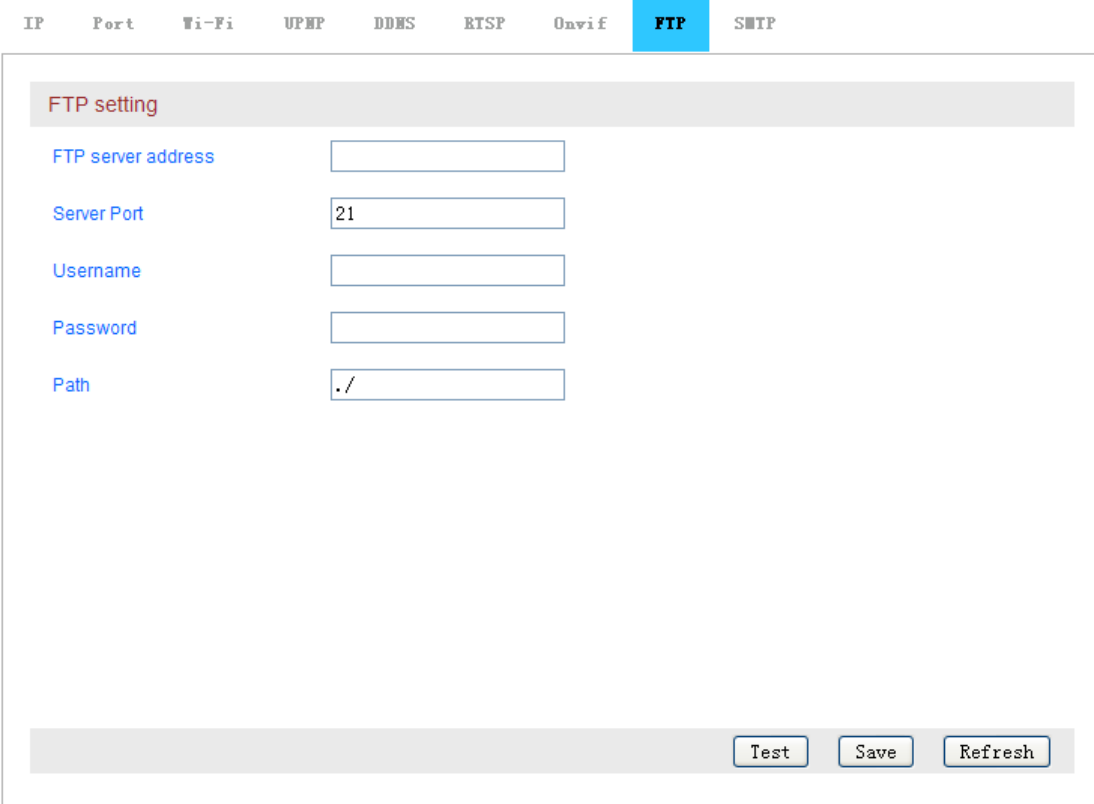
Figure20

You can view video by some general RTSP stream media software, for example, VLC. The visit link as below:

- First stream: `rtsp://user:password@IP:rtsp port/live/ch0`
- Second stream: `rtsp://User:password@IP:rtsp port/live/ch1`
- Third stream: `rtsp://user:password@IP:rtsp port/live/ch2`

5.1.2.7. FTP Setting

Access to FTP setting, please fill in relative FTP parameters as the following case to achieve the FTP transfer as Figure21.



IP Port Wi-Fi UPnP DDNS RTSP Onvif **FTP** SMTP

FTP setting

FTP server address

Server Port

Username

Password

Path

Test Save Refresh

Figure21

5.1.2.8. SMTP (E-mail) Setting

Please fill in relative parameters as the following case to achieve the E-mail transfer, as Figure22.

IP Port Wi-Fi UPNP DDNS RTSP Onvif FTP **SMTP**

Email setting

SMTP server address	<input type="text" value="smtp.163.com"/>
Server Port	<input type="text" value="25"/>
Security connection	<input type="text" value="NONE"/>
Authentication	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Username	<input type="text" value="dfliang@163.com"/>
Password	<input type="password" value="●●●●●●●●"/>
Sender address	<input type="text" value="giuwefw@163.com"/>
Receiver address #1	<input type="text" value="dsgdga@gmail.com"/>
Receiver address #2	<input type="text" value="578825701@qq.com"/>
Mail subject	<input type="text" value="alarm"/>
Mail content	<input type="text" value="alarm"/>

Figure22

5.1.3. Audio and Video

5.1.3.1. Video Encoding Setting

Access to Video Encoding setting, you can set up AC frequency and video stream as Figure23.

AC frequency: 50HZ and 60HZ optional;

Video stream: Bit rate (256~4096kbps), frame rate (1~30fps), video encoding control etc;

Tips: you can set up the video with audio or not.

Video Audio Image OSD Nightvision

AC frequency

AC frequency 50HZ

Select stream First stream Second stream Third stream

Resolution 1920*1080

Bit rate 3072kbps

Frame rate 25

Stream control Variable bitrate

Stream type With audio

Save Refresh

Figure23

5.1.3.2. Volume Setting

Access to Volume setting, you can adjust the volume of MIC and speaker as Figure24.

Video **Audio** Image OSD Nightvision

Volume setting

MIC volume 70

Speaker volume 70

Figure24

5.1.3.3. Image Setting

Access to Image Setting, you can flip and mirror the image, also can adjust the brightness, contrast, saturation and hue of image for getting best color effect as Figure25.



Figure25

5.1.3.4. OSD Setting

Access to OSD setting, you can overlay the time and name in Live video as Figure26.



Figure26

5.1.3.5. Night vision Settings

Access to **Night vision Settings**, you can set up IR LED and IRCUT as Figure27.

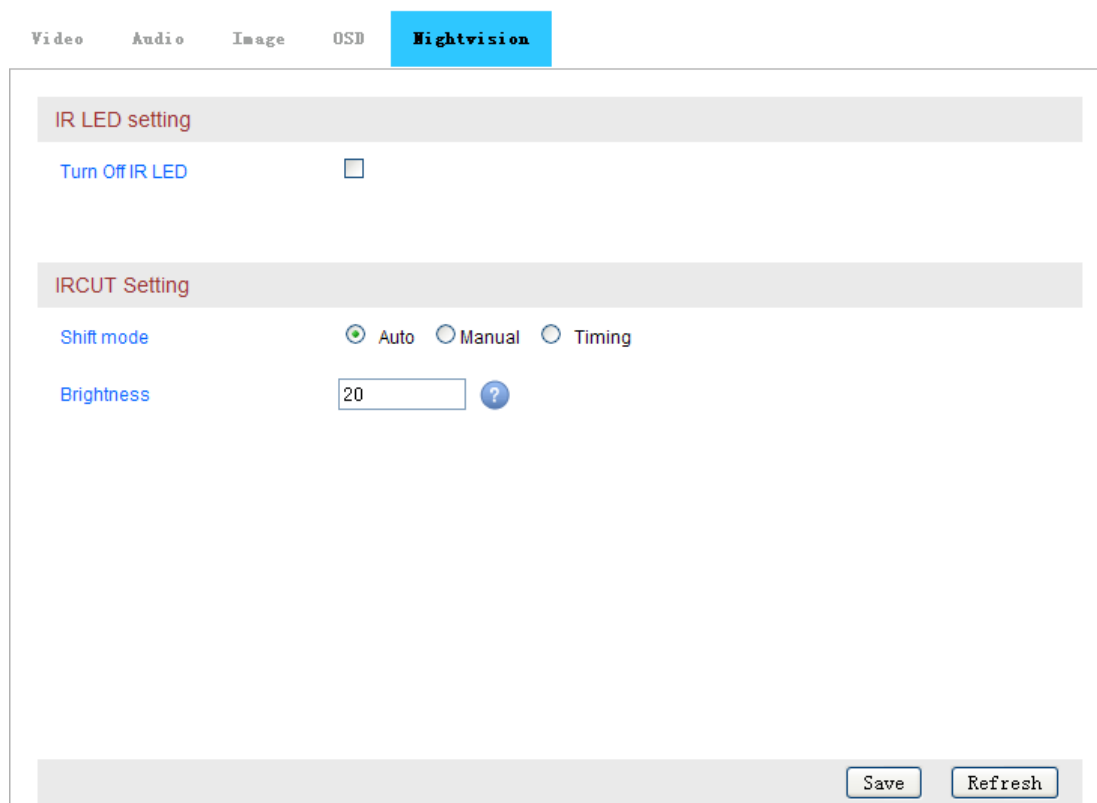


Figure27

5.1.4. Safety

Access to User management, you can add or edit the user as Figure28.

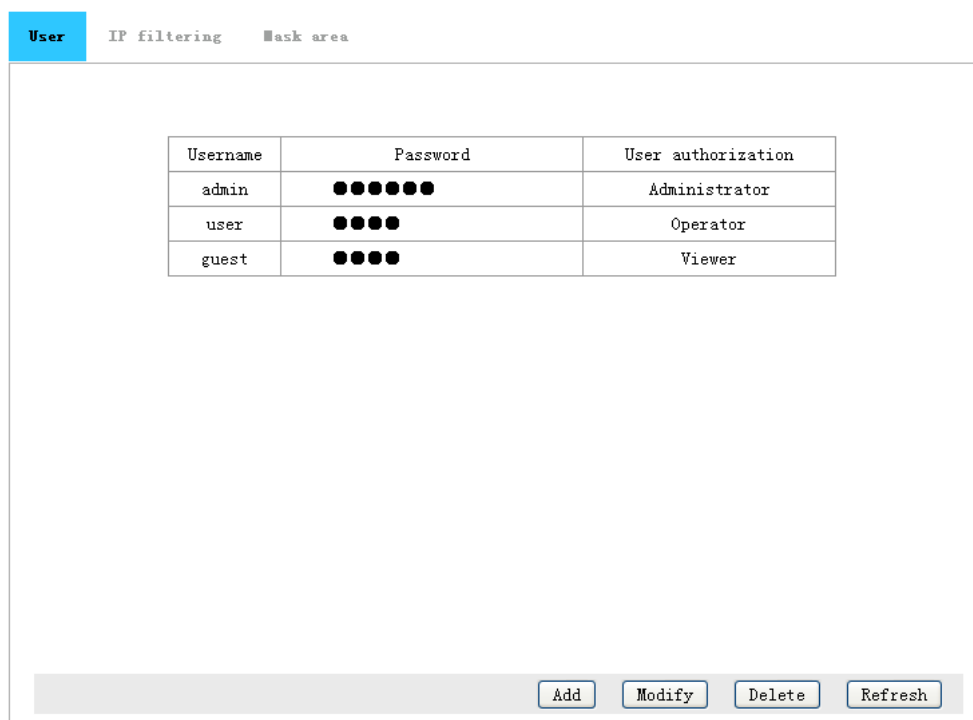


Figure28

Tips: After setting up, click save and refresh button, the entering info will display in the webpage.

You can set up the IP filtering to allow or deny some IP address to visit the device as below.

User **IP filtering** Mask area

Whitelist

Start IP address

End IP address

Allow list

Blacklist


Start IP address

End IP address

Deny List

Also you can set up some mask area you don't want to be monitored, please click "Start setting" to enable the function, and then ticked a window, it will show a red frame in video, click the frame, it will become green, click and slide it you can move or resize it, and then click Save to finish the setting as below.

User IP filtering **Mask area**



Window 1 Window 2 Window 3 Window 4

5.1.5. Alarm

5.1.5.1. IO Detect

Access to IO detector, can enable detect function and set up input signal type as Figure29.

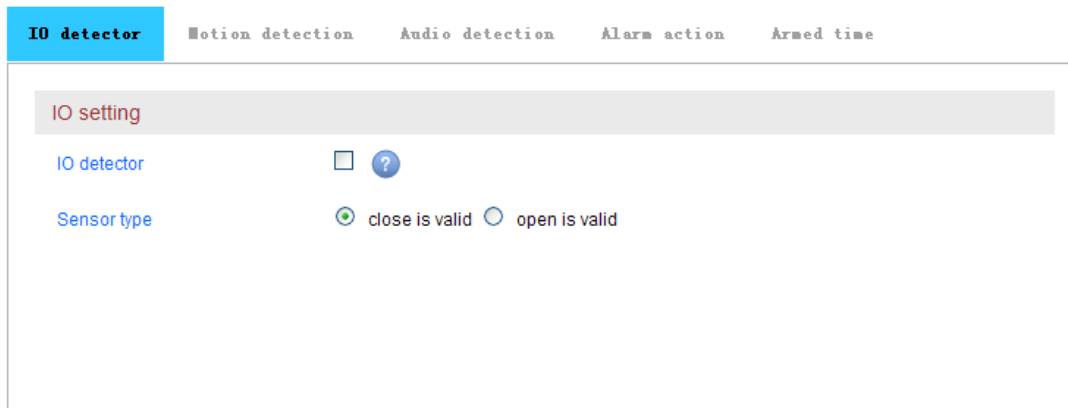


Figure29

5.1.5.2. Motion Detection

Access to motion detection, you can set up Max 4 detection area, also can set up the sensitivity for every area as Figure30.

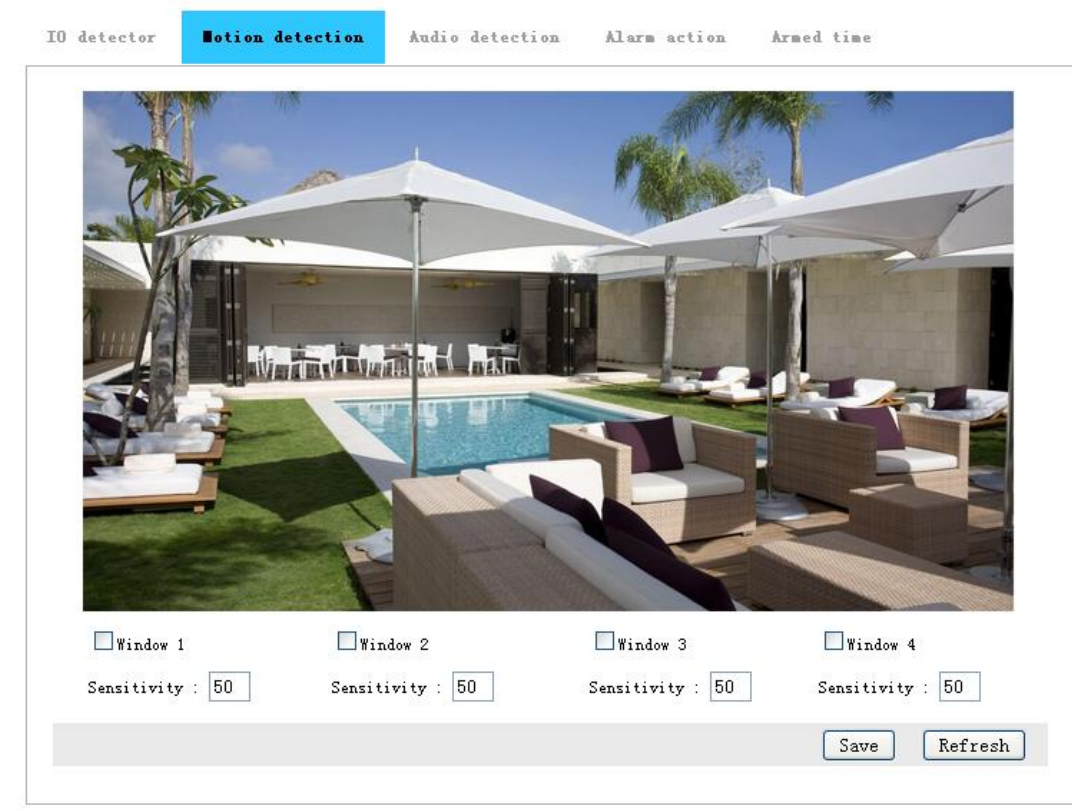


Figure30

5.1.5.3. Audio Detection

Access to audio detection, you can enable audio detection and set up sensitivity of it as Figure31.



IO detector Motion detection **Audio detection** Alarm action Armed time

Audio setting

Audio detection ON OFF

Sensitivity [1-10]

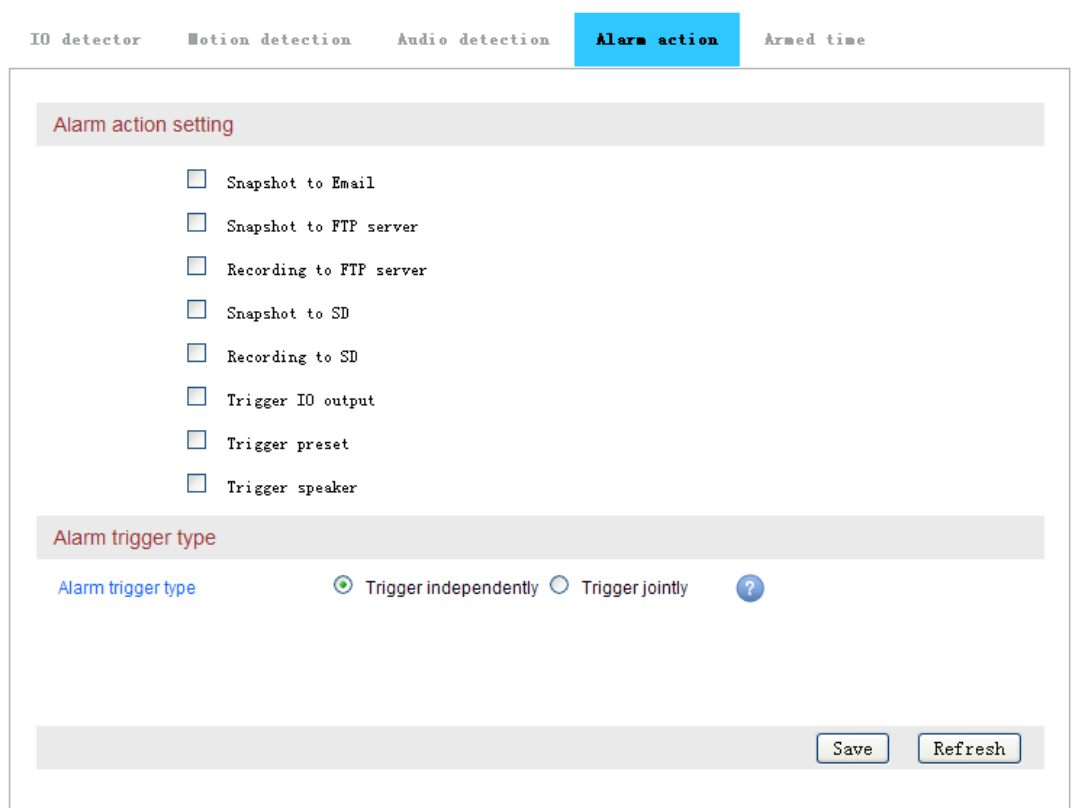
Figure31

5.1.5.4. Linkage alarm setting

You can set up IO detect, motion detection and audio detect, it can linkage to trigger the action: snapshot to Email or FTP server or SD card, recording to FTP server or SD card, and trigger IO output as Figure32.

Tips: The usage for combination of alarm trigger in alarm trigger type:

For example, you enable the audio detection and motion detection, so the camera is enabled combination of alarm trigger, it will perform the action in alarm action setting when the audio detect and motion detection detect any change.



IO detector Motion detection Audio detection **Alarm action** Armed time

Alarm action setting

- Snapshot to Email
- Snapshot to FTP server
- Recording to FTP server
- Snapshot to SD
- Recording to SD
- Trigger IO output
- Trigger preset
- Trigger speaker

Alarm trigger type

Alarm trigger type Trigger independently Trigger jointly

Figure32

5.1.5.5. Protected duration setting

After setting up alarm detect type and alarm trigger linkage, you need to set up protected duration. You must set up it, then the camera perform trigger linkage; the time format is 7 days, 24 hours per day, 15 minutes per a block as Figure33.

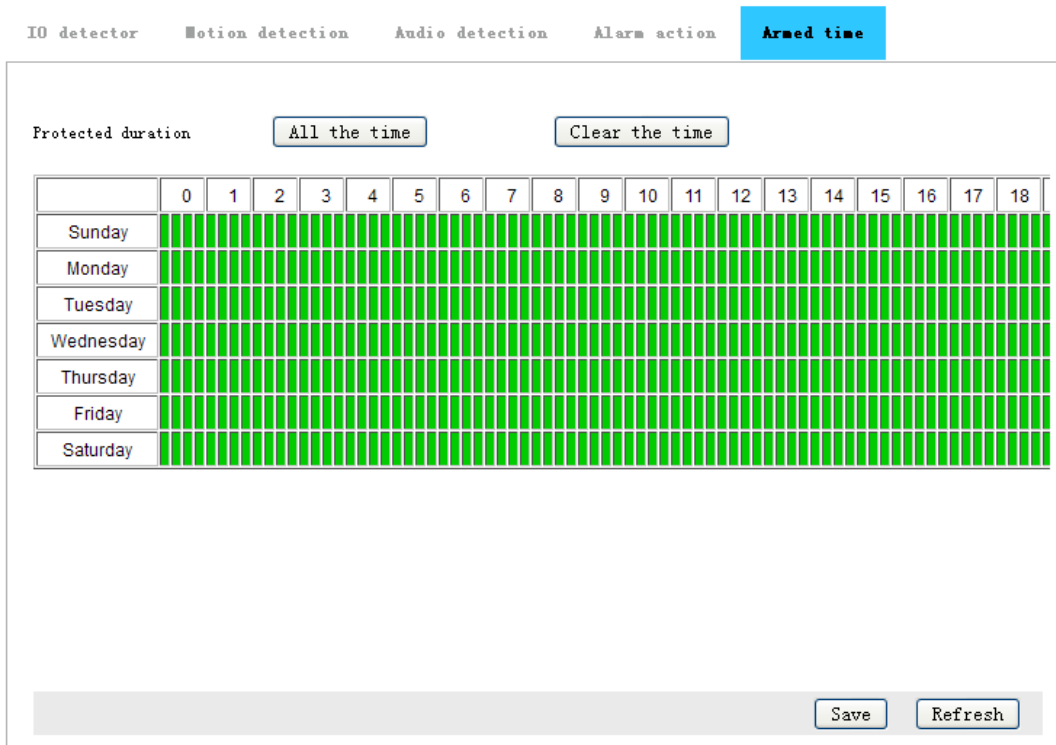


Figure33

5.1.6. Storage

5.1.6.1. SD Management

Access to SD management, you can check and download recording and snapshot file in SD card, and check SD card remaining capacity, format SD as Figure34.

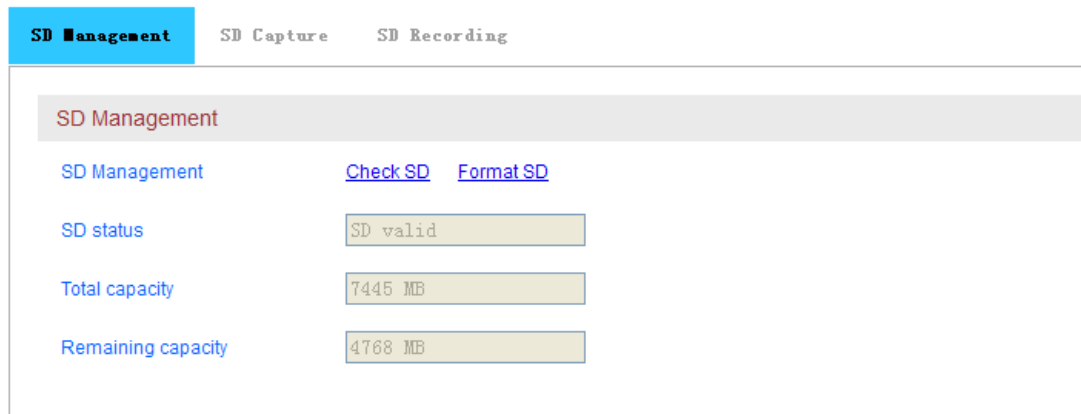


Figure34

5.1.6.2. SD Capture setting (Timing Snapshot)

Access to SD capture, you can enable timing snapshot and set up snapshot time interval and snapshot duration; time format is 7 days, 24 hours per day, 15 minutes per a block as Figure35.

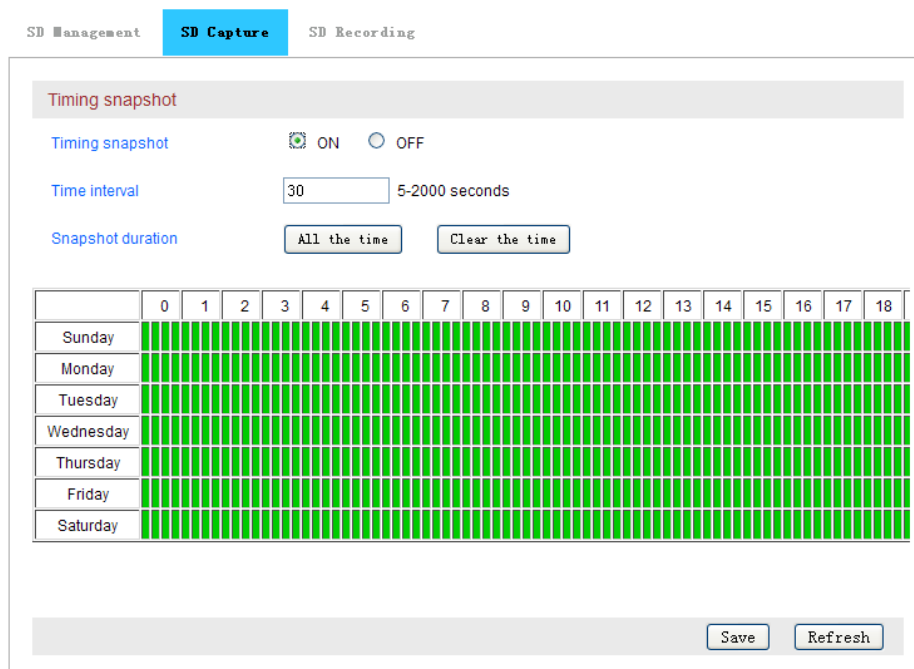


Figure35

5.1.6.3. SD Card Recording Setting

Access to SD Card Recording Setting, you can enable SD recording and set up recording duration for every file; time format is as 7 days, 24 hours a day, 15 minutes per a block as Figure36.

Tips: it will overwrite SD recording file automatically by default, also overwrite previous recording file when the SD space is full.

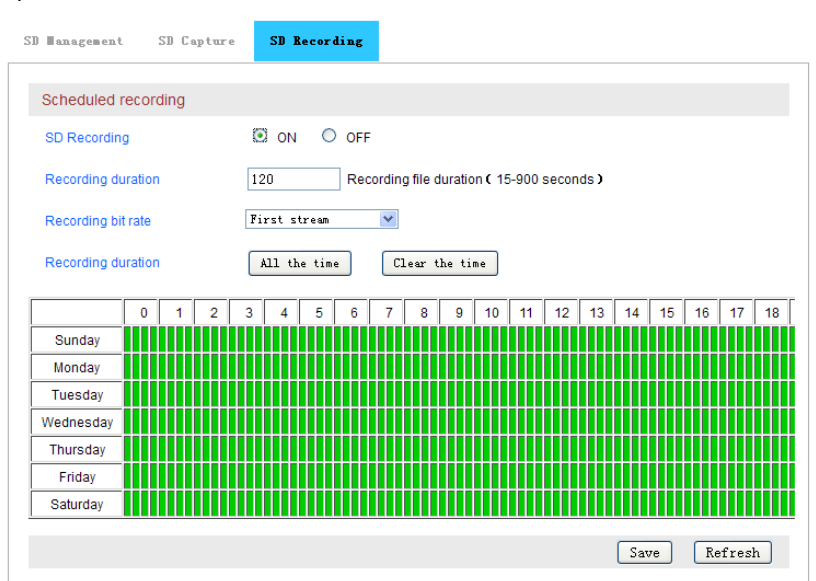


Figure36

5.1.7. Log

Access to Log menu, you can check the user operation log as Figure37.

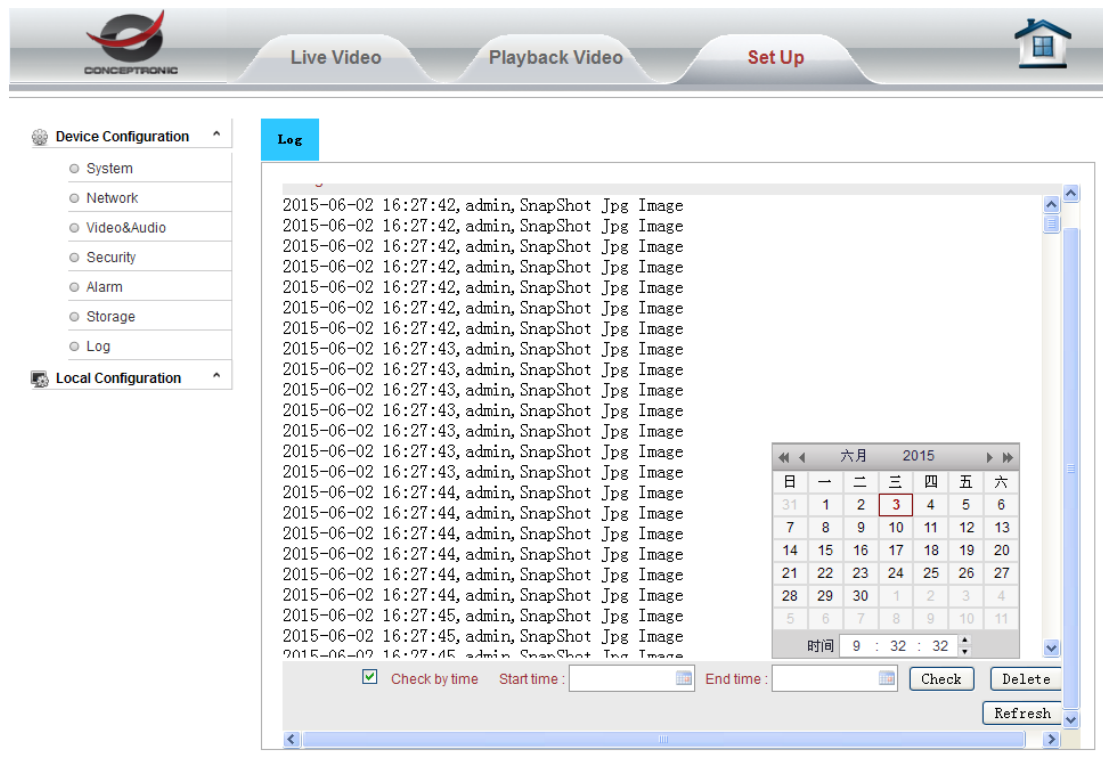


Figure37

5.2. Local Setting

Access to local configuration, you can set up recording path, snapshot path and recording duration as Figure38.

Tips:

- You must use administrator to run the browse, then recording path and snapshot path can be save successfully at above IE9; the default recording path is D:\HYRec.
- You can enable to show motion detection frame when viewing video.

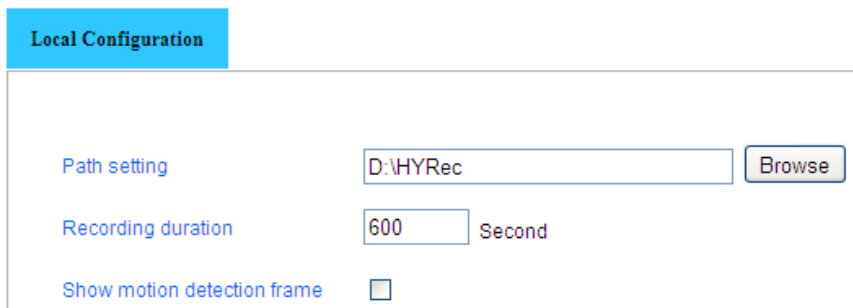


Figure38