

Please read and understand this manual
before attempting installation of the product.

IP Camera

X Series






User Guide

November, 2015
V2.0




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.
6. 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 Flash Player to play video;
- Support OCX plug-in to view video;
- 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 1camera, 1power adapter, 1network cable,1CD,1Quick Installation Guide,1installation 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; (each lens of camera is focused well before delivering, we advise not to adjust the lens)
- **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

please make sure the smartphone is connected WiFi ,Install the iSmartViewPro 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 password, and then click configure to finish the setting as Figure3.



Figure3

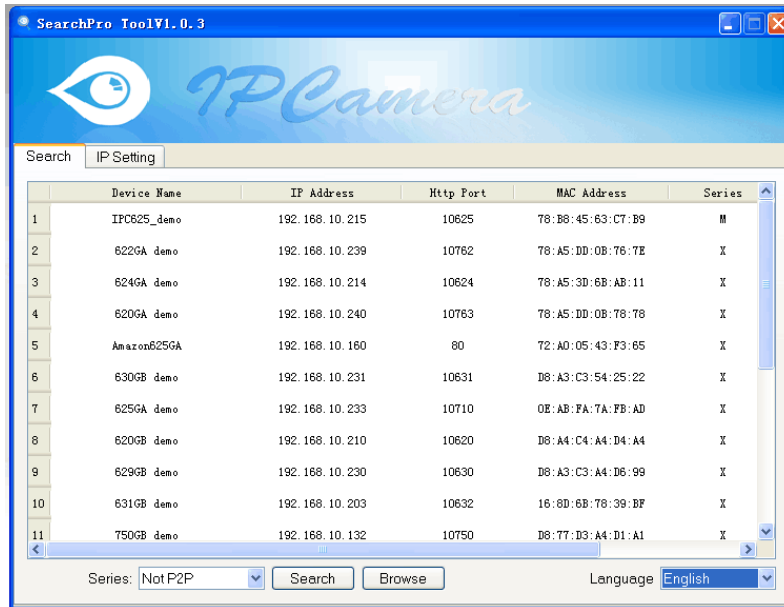
Tips:

- 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. Select View Mode in web

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



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

Tips: default username/password:admin/123456, please modify the password for safety.

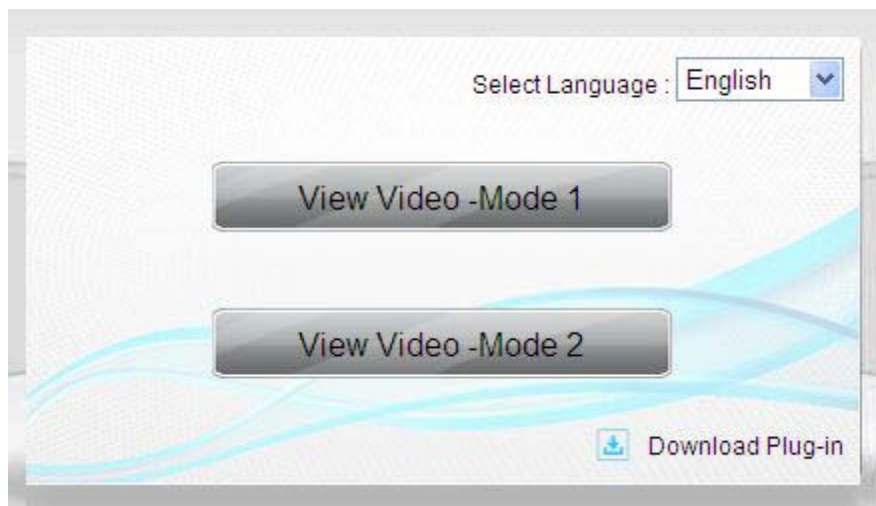


Figure5

- **View Video- Mode 1: APNPI view mode(OCX plug-in)**

For <View Video- Mode 1>,It needs to download plug-in for first time ,as figure 6, click <Download Plug-in> to install it.

- ◆ Google browser version: 42 version or below.
- ◆ Firefox browser version:43 version or below
- ◆ Support IE browser IE 8,IE 9,IE 10,IE 11.

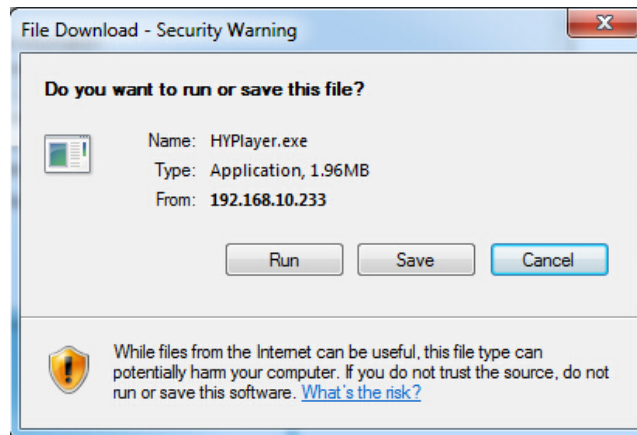


Figure6

● View Video- Mode 2:Flash Player View Mode(Adobe Flash Player plug-in)

- ◆ If the browser was not installed Flash Player plug-in, there will be tips for downloading and installation.
- ◆ If select Mode 2,It doesn't support multi-view, multi-area motion detection functions, etc.
- ◆ Support Microsoft Edge browser.

3.2.View Live Video

- If select"View Video- Mode 1",It will enter into preview interface as Figure7

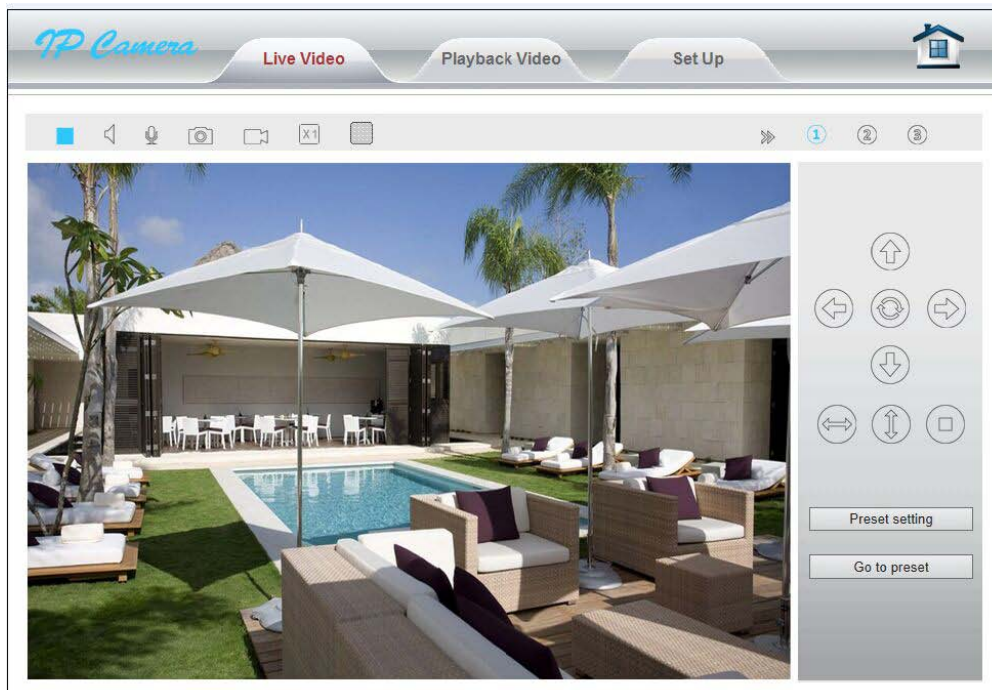
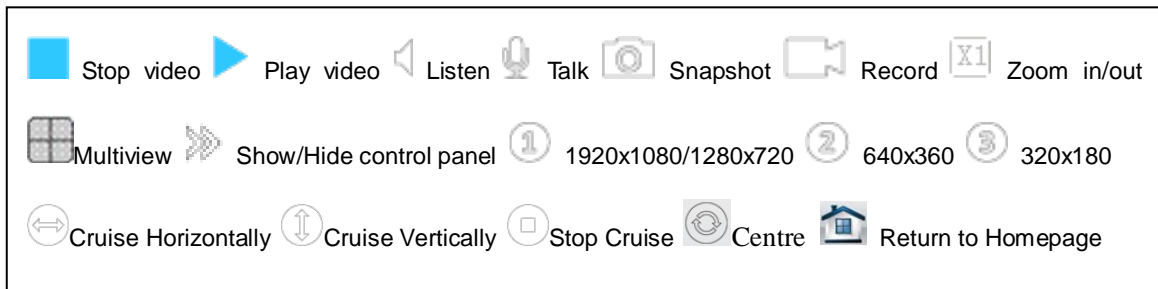


Figure7 (View Video- Mode 1 preview interface)



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.

➤ If select“View Video- Mode 2”,It will enter into preview interface as Figure8

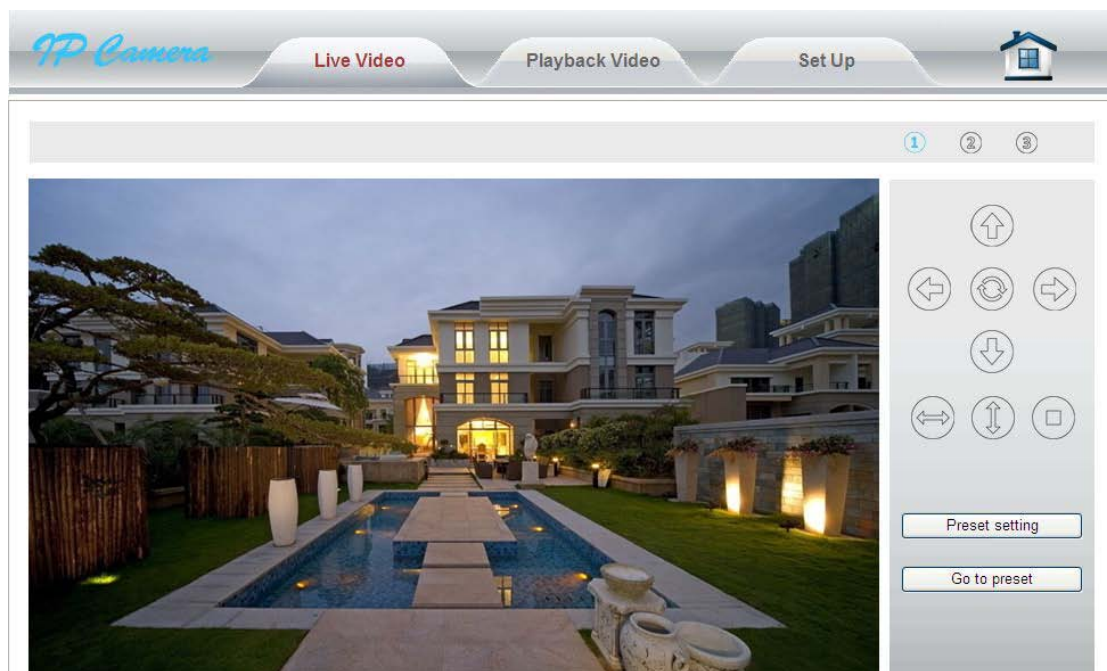
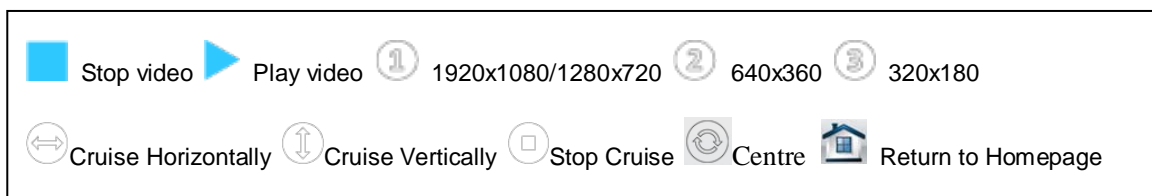


Figure 8 (View Video- Mode 2 preview interface)



✧ Notice: It doesn’ t support manual listening, intercom, capture, recording and multi-view settings.

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 Figure 9.

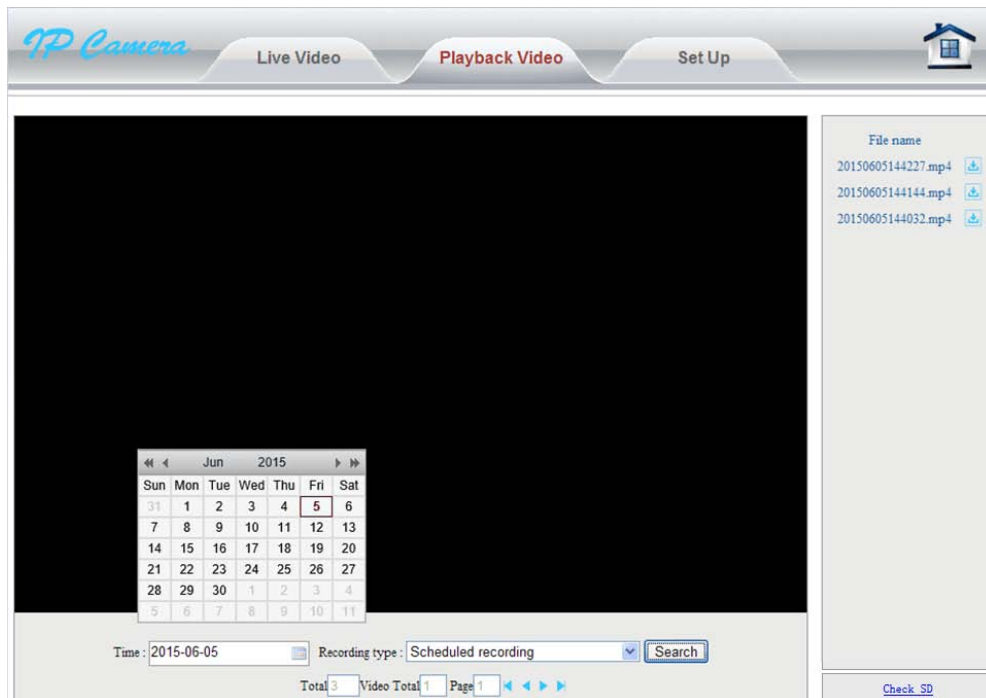


Figure 9

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 Figure10.

Device Status	
Current users	1
Network connection	Wired
MAC address	0E:AB:FA:7A:FB:AD
Recording status	No recording
SD/TF status	No SD/TF
Internet IP address	<input type="button" value="Check internet IP"/>

Figure10

5.1.1.2. Time Setting

You can do time setting,active "Synchronize with PC"etc.as Figure11.

- ✓ When IP Camera is connected internet,it will auto adjust NTP server time.
- ✓ After IP Camera is startup,it will auto adjust the time according to NTP server's all addresses;after that, it will auto adjust NTP server time per 30 minutes.

Current time	2015-11-18 11:30:42
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

Figure11

5.1.1.3. Pan&Tilt Setting

In Pan/Tilt setting, you can set Pan/Tilt speed, cruise laps(1~10 laps) and whether enable or disable motion detection alarm function when Pan/Tilt works. as Figure12

Call preset:

1. preset 1-8 is the setting place after the camera restart.

- Back to the place which is setted before camera restart: when you call preset NO.9, the camera will be back to the place where power off or restart after finishing self-checking.

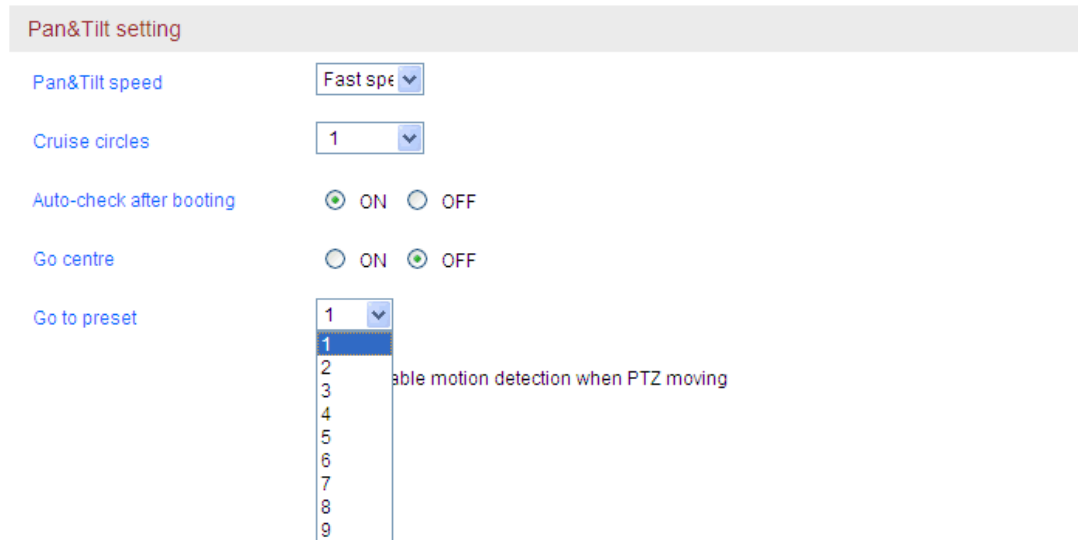


Figure12

5.1.1.4. Others Setting

You can turn off Status LED(Red) and Wi-Fi LED(Blue) of the camera in others setting as Figure13.

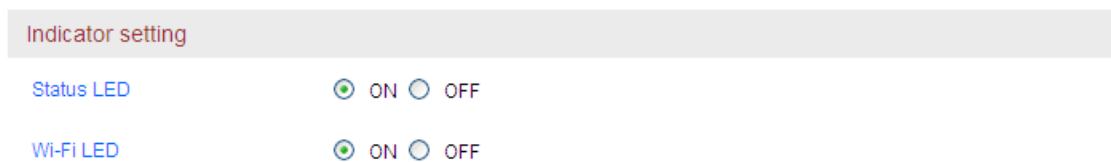


Figure13

5.1.1.5. Multiple Settings

- It supports multi-view under "View Video- Mode 1", The first device is current camera, You can add 3 more cameras, then you can view one or four cameras in one screen. as Figure14.
- If select "View Video-Mode 2", it will not support multi-view function setting.

search camera list :

The 1st device : native

The 2nd device : none

Overlay Name

IP

Port

Username

Password

The 3rd device : none

The 4th device : none

Figure14

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 Figure15.

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]

Figure15

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 Figure16.

The screenshot shows a 'Device information' section with the following fields and values:

Device Name	625GA demo	?	• can modify device name
System Firmware	00.01.01.0036		
System firmware time	2015-11-13 11:28		
WebUI Firmware	0.0.3.17		

Figure16

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.as Figure17.

The screenshot shows an 'IP setting' section with the following configuration:

DHCP	<input type="checkbox"/>
IP address	192.168.10.233
Subnet mask	255.255.255.0
Gateway	192.168.10.188
Primary DNS	202.96.128.166
Secondary DNS	202.96.134.133

Figure17

5.1.2.2. Port Setting

You can change webpage HTTP port here as Figure18.

The screenshot shows a 'Port setting' section with the following configuration:

HTTP port	10710
-----------	-------

Figure18

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 Figure19.

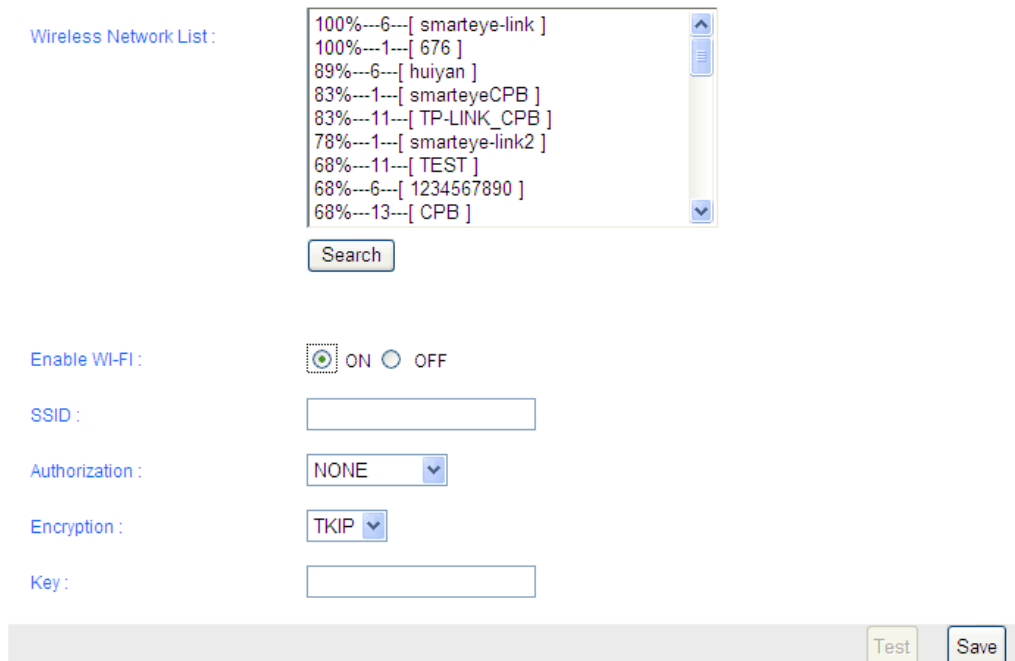


Figure19

5.1.2.4. Port Forwarding

Access to port forwarding, you can enable UPNP port forwarding and check the status of it as Figure 20.

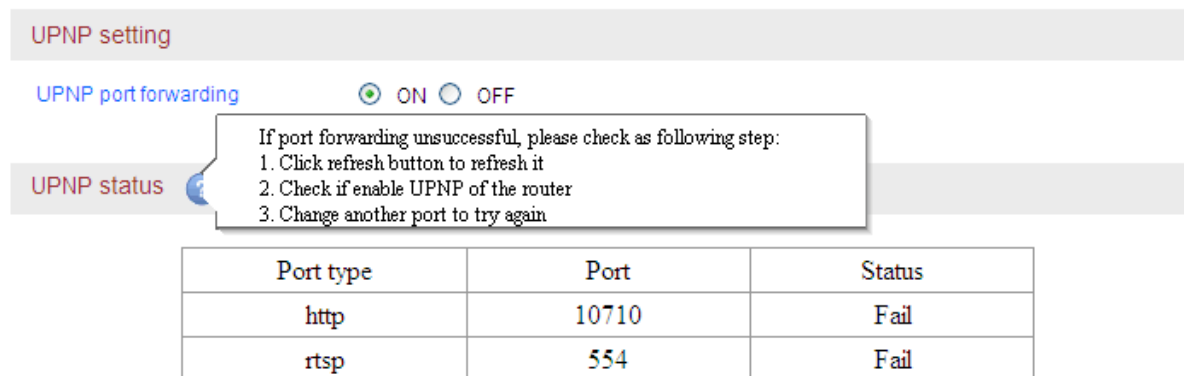


Figure 20

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.as Figure21.

The screenshot shows two sections for DDNS settings. The first section, 'Manufacturer's DDNS setting', has 'Manufacturer's DDNS' turned ON and a text box containing '005uxqc.nwsvr1.com'. The second section, 'Third party DDNS setting', has 'Third party DDNS' turned OFF, 'DDNS server' set to '3322.org', and empty text boxes for 'Username', 'Password', and 'Third party DDNS'.

Figure21

5.1.2.6. RTSP Setting

You can set up RTSP port, also can off RTSP authentication as Figure 22.

The screenshot shows the 'RTSP setting' section. 'Authentication' is turned ON and 'RTSP port' is set to '554' in a text box.

Figure22

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. Onvif Setting

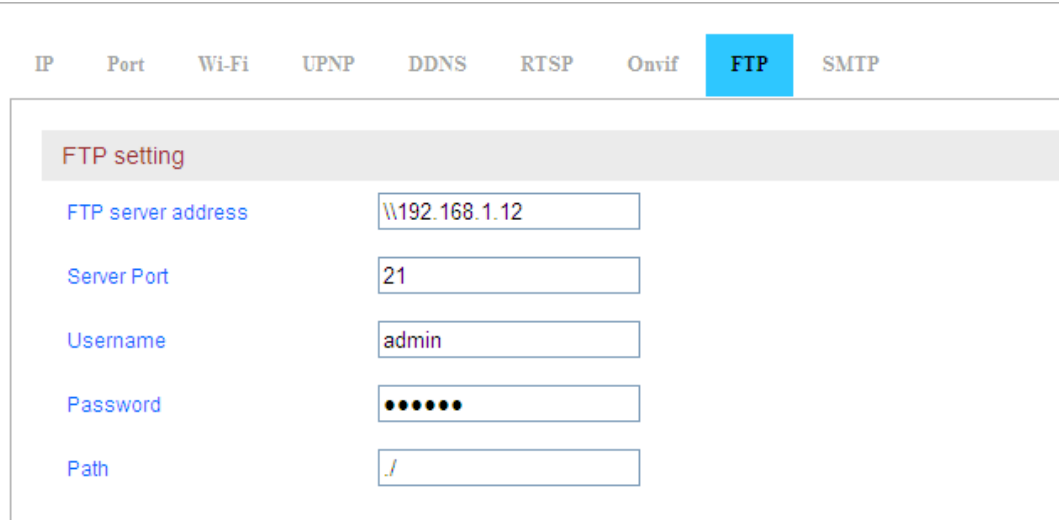
Enter into Onvif setting interface, you can enable or disable Onvif authentication.As Figure 23.

The screenshot shows the 'Onvif setting' section. Both 'Onvif setting' and 'Onvif checking' are turned ON.

Figure23

5.1.2.8. FTP Setting

Access to FTP setting, please fill in relative FTP parameters as the following case to achieve the FTP transfer as Figure24.

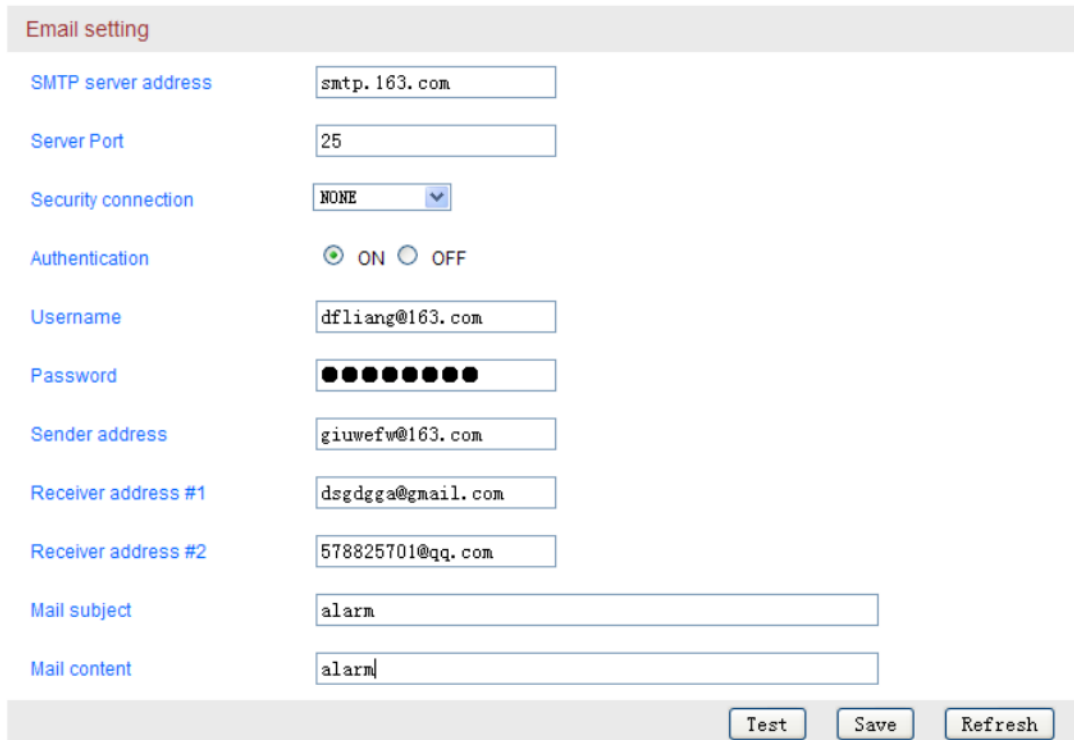


IP	Port	Wi-Fi	UPNP	DDNS	RTSP	Onvif	FTP	SMTP
FTP setting								
FTP server address	<input type="text" value="\\192.168.1.12"/>							
Server Port	<input type="text" value="21"/>							
Username	<input type="text" value="admin"/>							
Password	<input type="password" value="•••••"/>							
Path	<input type="text" value="/"/>							

Figure24

5.1.2.9. SMTP (E-mail) Setting

Please fill in relative parameters as the following case to achieve the E-mail transfer, as Figure25.



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"/>
<input type="button" value="Test"/> <input type="button" value="Save"/> <input type="button" value="Refresh"/>	

Figure25

5.1.3. Audio and Video

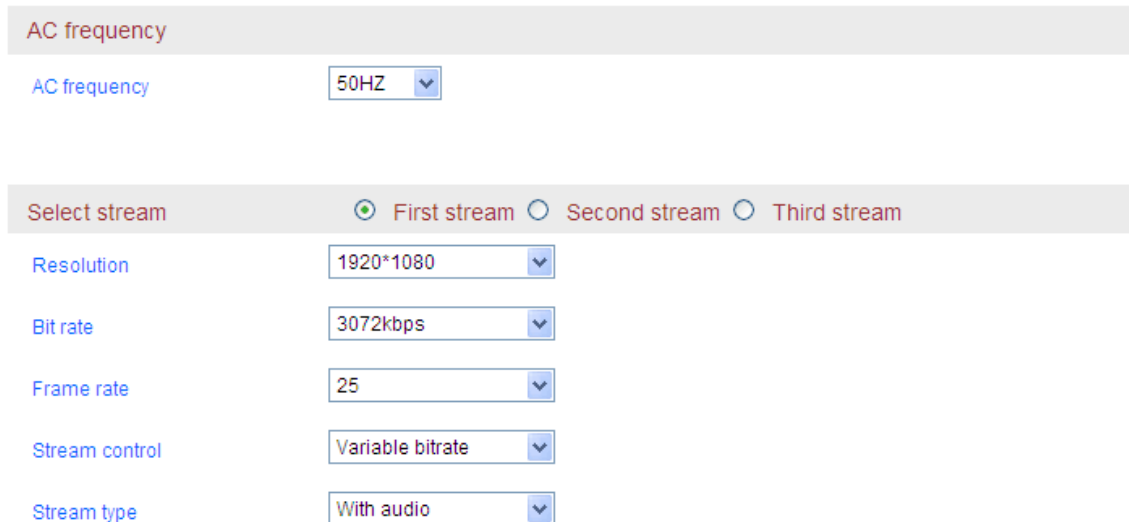
5.1.3.1. Video Encoding Setting

Access to Video Encoding setting, you can set up AC frequency and video stream as Figure26.

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.



AC frequency

AC frequency 50HZ

Select stream First stream Second stream Third stream

Resolution 1920*1080

Bit rate 3072kbps

Frame rate 25

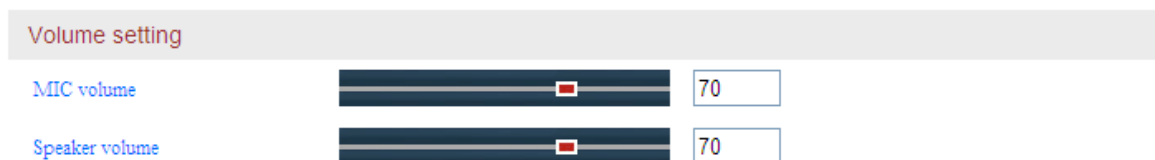
Stream control Variable bitrate

Stream type With audio

Figure26

5.1.3.2. Volume Setting

Access to Volume setting, you can adjust the volume of MIC and speaker as Figure27.



Volume setting

MIC volume 70

Speaker volume 70

Figure27

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 Figure28

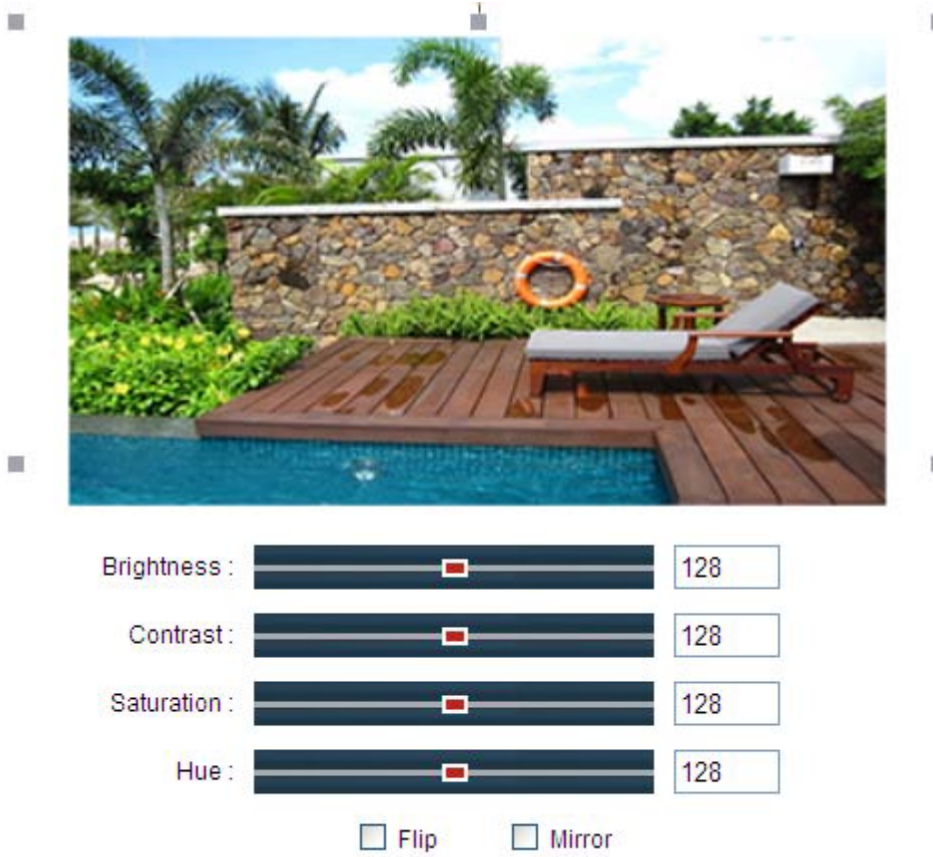


Figure29

5.1.3.4. OSD Setting

Access to OSD setting, you can overlay the time and name in Live video as Figure29

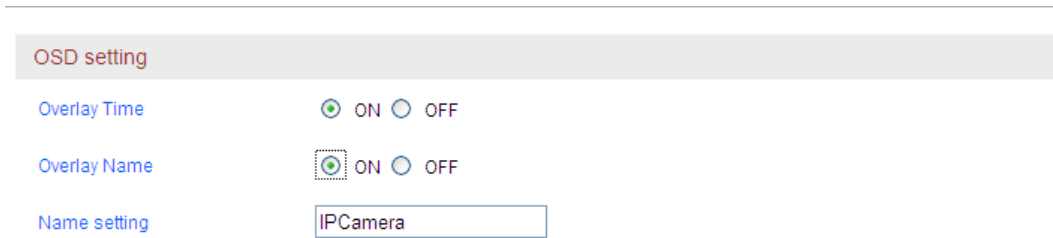
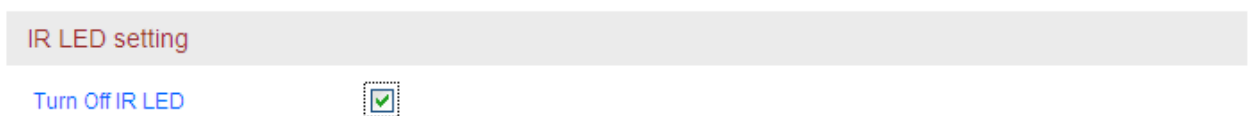


Figure29

5.1.3.5. Night vision Settings

Access to **Night vision Settings**, you can set up IR LED and IRCUT as Figure30.



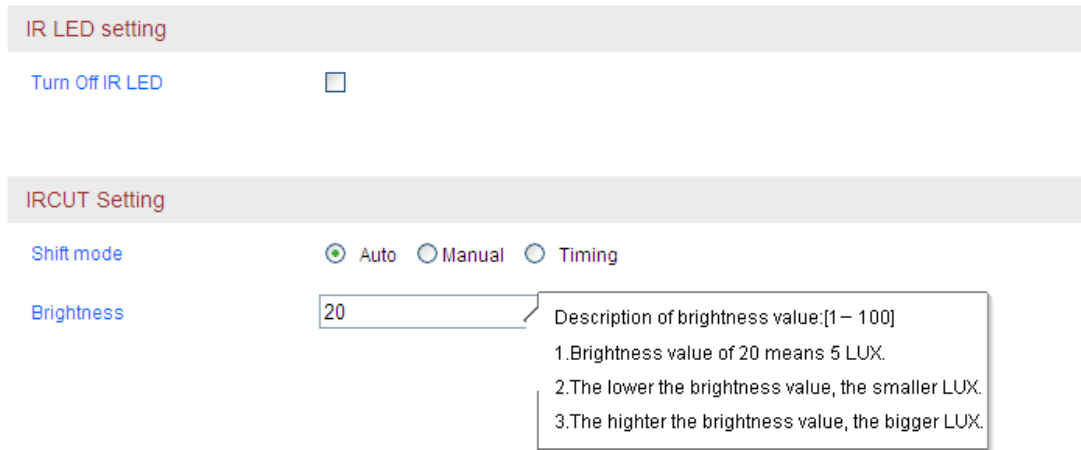


Figure30

5.1.4. Security

5.1.4.1 User Setting

Access to User management, you can add or edit the user as Figure31.

Username	Password	User authorization
admin	●●●●●●●●	Administrator
user	●●●●	Operator

Figure31

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

5.1.4.2 IP Flitering

You can set up the IP filtering to allow or deny some IP address to visit the device as below. As Figure32.

In IP Address filter, there are 2 settings: blacklist and whitelist.

- ✧ Whitelist: it allows the specified IP address to access the camera.
- ✧ Blacklist:it refuses the specified IP address to access the camera.

Whitelist

Start IP address

End IP address

Allow list

Blacklist

Start IP address

End IP address

Deny List

Figure32

5.1.4.3 Mask Area

- “View Video-Mode 1” : the user can hide the specified area not to be monitored, Max.support 4 areas to be hidden.As Figure33.
- “View View-Mode 2” : It doesn't support privacy setting .



Window 1 Window 2 Window 3 Window 4

Figure33

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 Figure34.

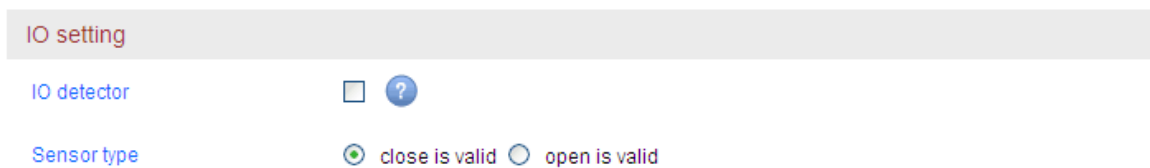


Figure34

5.1.5.2. Motion Detection

- “View Video-Mode 1” : Access to motion detection, you can set up Max 4 detection area, also can set up the sensitivity for every area as Figure35.

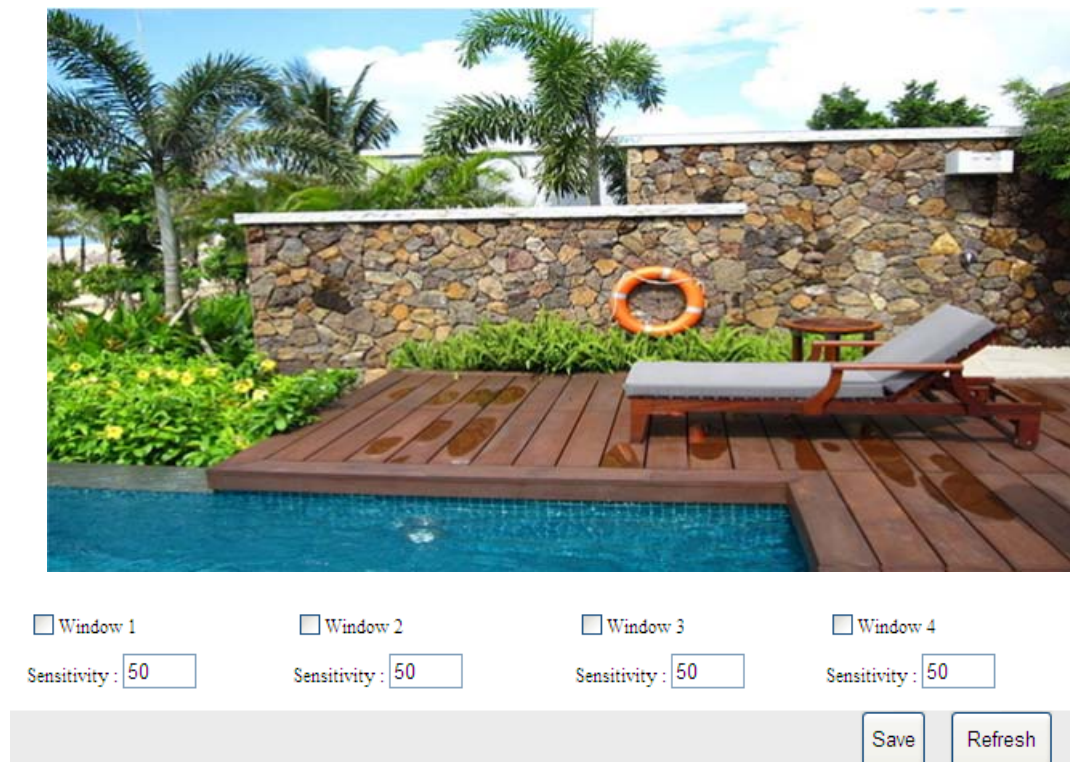


Figure35

- “View Video-Mode 2” : User only can set one area for motion detection, and input sensitivity, as Figure36.



Window 1

Sensitivity :

Figure36

Notice: the higher the sensitivity, the greater the number.

5.1.5.3. Audio Detection

Access to audio detection, you can enable audio detection and set up sensitivity of it as Figure36.

Audio setting

Audio detection ON OFF

Sensitivity [1-10]

Figure36

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 Figure37.

Alarm action setting

- Snapshot to Email
- Snapshot to FTP server
- Recording to FTP server
- Snapshot to SD/TF
- Recording to SD/TF
- Trigger IO output Alarm duration : 5 Second
- Trigger preset Preset : 1
- Trigger speaker Alarm duration : 5 Second

Alarm trigger type

Alarm trigger type

- Trigger independently
- Trigger jointly
- ?

- Trigger independently: Trigger when detecting by any kind of trigger
- Trigger jointly: Trigger when detecting some kinds of trigger simultaneously

Figure37.

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.

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 Figure38.

Protected duration

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Sunday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Monday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Tuesday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Wednesday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Thursday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Friday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Saturday	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

Figure38

5.1.6. Storage

5.1.6.1. SD/TF Management

Access to SD/TF management, you can check and download recording and snapshot file in SD/TF card, and check SD/TF card remaining capacity, format SD/TF as Figure39.

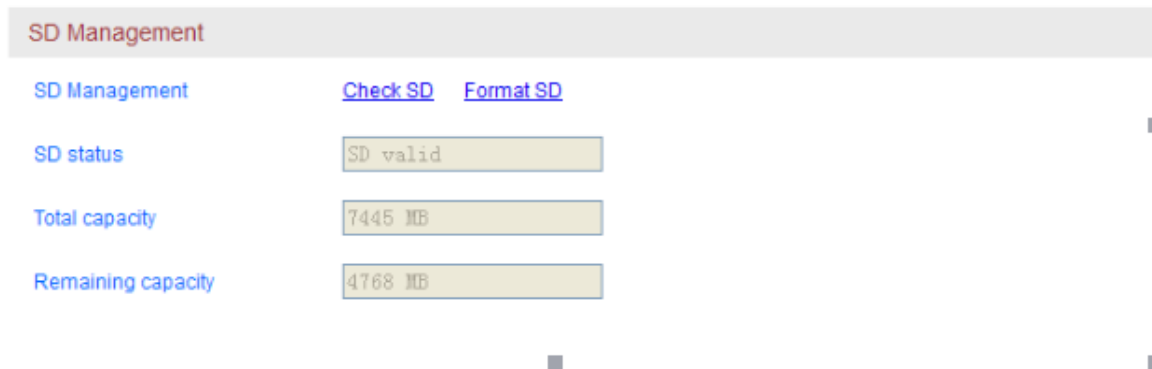


Figure39

5.1.6.2. SD/TF Capture setting (Timing Snapshot)

Access to SD/TF 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 Figure 40.

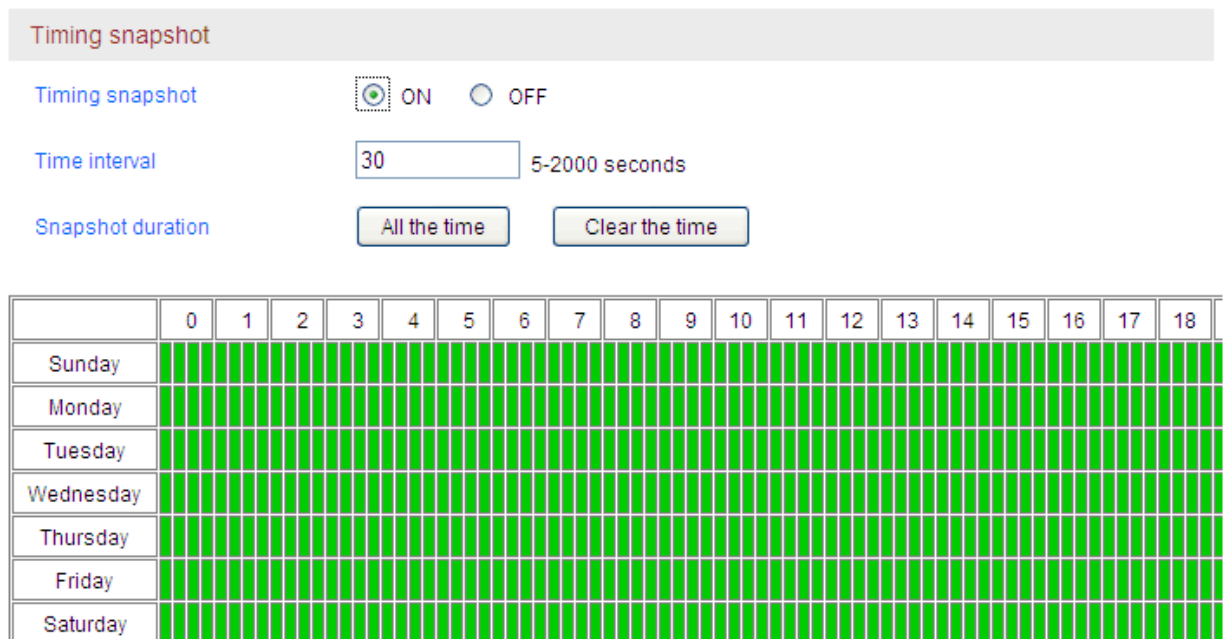


Figure 40

5.1.6.3. SD/TF 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 Figure 41.

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

Scheduled recording

SD/TF Recording ON OFF

Recording duration Recording file duration (15-900 seconds)

Recording bit rate

Recording duration

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Sunday																			
Monday																			
Tuesday																			
Wednesday																			
Thursday																			
Friday																			
Saturday																			

Figure 41

5.1.7. Log

Access to Log menu, you can check the user operation log as Figure42.

```

)15-11-17 09:48:55,admin,set mac address
)15-11-18 11:47:56,admin,set wifi
    
```

« » 十一月 2015 » »

日	一	二	三	四	五	六
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

时间

Check by time Start time : End time :

Figure42

5.2. Local Setting

Access to local configuration, you can set up recording path, snapshot path and recording duration as Figure43.

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.
- If select <Video View-Mode 2>, it doesn't support local configuration function

Path setting	<input type="text" value="C:\Documents and Settings\All Users\"/> <input type="button" value="Browse"/>
Recording duration	<input type="text" value="600"/> Second
Show motion detection frame	<input checked="" type="checkbox"/>

Figure43