



# ***User Manual***

**(For Windows & Mac OS)**

**HD Wireless PTZ Dome IP Camera**



**Model:FI9828W**

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## Table of Contents

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1 Overview.....	1
1.1 Key Features.....	1
1.2 Read Before Use.....	2
1.3 Package Contents.....	2
1.4 Physical Description.....	2
2 Access the IP Camera.....	6
2.1 Access the Camera in LAN.....	6
2.2 Access the Camera in WAN.....	6
2.3 Using the VLC player.....	12
2.4 IP camera connection to the server.....	14
3 Surveillance Software GUI.....	15
3.1 Login Window.....	15
3.2 Setup Wizard.....	16
3.3 Surveillance Window.....	18
4 Advanced Camera Settings.....	26
4.1 Status.....	26
4.2 Basic Settings.....	28
4.3 Network.....	38
4.4 Video.....	56
4.5 Alarm.....	59
4.6 Record.....	67
4.7 PTZ.....	68
4.8 Firewall.....	73
4.9 System.....	73
5 Phone Apps.....	77
6 Appendix.....	77
6.1 Frequently Asked Questions.....	77
6.2 Default Parameters.....	85
6.3 Specifications.....	85
6.4 CE & FCC.....	87
7 Obtaining Technical Support.....	88

# 1 Overview

FOSCAM FI9828W is an integrated wireless IP Camera with a color CMOS sensor enabling viewing resolution 1280\*960. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop from anywhere on your local network or over the Internet.

FI9828W supports the industry-standard H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth.

The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explorer. Therefore the management and maintenance of your device is simplified by using the network to achieve the remote configuration and start-up.

The camera is designed for outdoor surveillance applications such as courtyards, supermarket, and school. Controlling the IPCAM and managing images are simplified by using the provided web interface across the network utilizing wireless connectivity.

FOSCAM provides Phone APPs for Android and iPhone users, please search “Foscam Viewer” and install it through APP Store, then you can view your camera directly as a computer.

## 1.1 Key Features

- ◆ Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network
- ◆ 1.3 Mega-Pixel
- ◆ Supports IE/Firefox/Google/Safari browser or any other standard browsers
- ◆ Supports WEP,WPA and WPA2 Encryption
- ◆ Wi-Fi compliant with wireless standards IEEE 802.11b/g/n
- ◆ IR night vision (Range:20m)
- ◆ Supports image snapshot
- ◆ Supports dual-stream
- ◆ Supports IR-Cut and the filter change automatically
- ◆ Embedded FOSCAM DDNS(dynamic domain name service) Service
- ◆ Supports remote viewing & record from anywhere anytime
- ◆ Multi-level users management with password protection
- ◆ Motion detection alert via email or upload image to FTP
- ◆ Supporting Third Party Domain name
- ◆ Providing Phone APPs for Android and iPhone users
- ◆ Supports multiple network protocols: HTTP /HTTPS /RTSP / TCP/IP / UDP/ FTP/ DHCP/ DDNS/ UPNP /ONVIF
- ◆ Providing Central Management Software to manage or monitor multi-cameras

## 1.2 Read Before Use

Please first verify that all contents received are complete according to the **Package Contents** listed below. Before the IP Camera is installed, please carefully read and follow the instructions in the Quick Installation Guide to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

## 1.3 Package Contents

● IP Camera × 1	● DC Power Adapter × 1
● Wi-Fi Antenna × 1	● CD×1
● Ethernet Cable × 1	● Warranty Card × 1
● Quick Installation Guide × 1	

## 1.4 Physical Description

### Front Panel





Figure 1.1

**Infrared LED:** 21 IR LEDs, night visibility up to 20 meters

**LENS:** CMOS sensor with zoom lens

## Back View



Figure 1.2

**WIFI Antenna:** Wireless Antenna

## Interface View

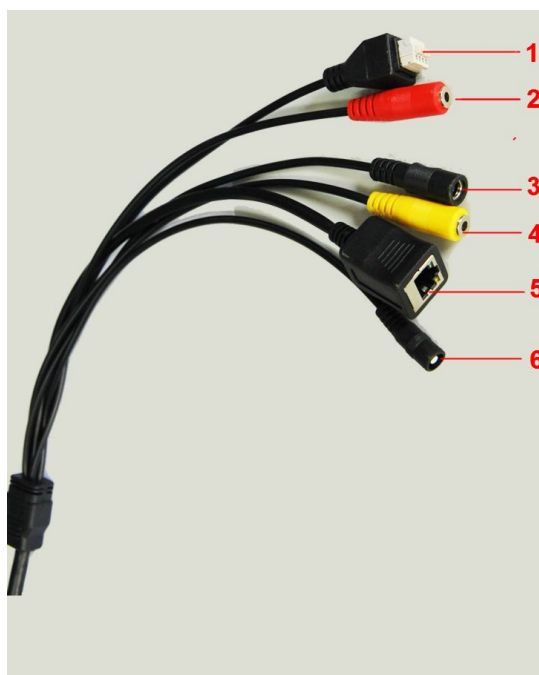
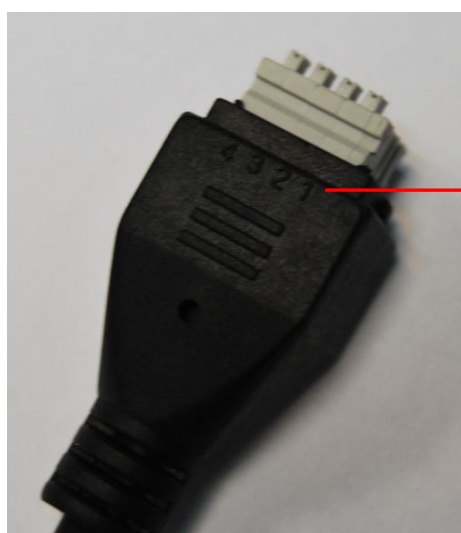


Figure 1.3

### 1) I/O alarm terminal block

This network camera provides a I/O alarm terminal block which is used to connect to external input / output device. The pin(there are four number in the terminal block from no. 1 to no. 4) definitions are described below:



1- input  
2- input  
3- output  
4- output

This camera supports I/O alarm, you can go to **Settings – Alarm – I/O** page to configure it.

### 2) Audio output interface

The jack is used to plug external speakers.

### 3) Power Interface

Connect the external power adapter, request for 12V/2A power.

### 4) Audio input interface

The jack is used to plug external microphone.

### 5) LAN

10/100M adaptive Ethernet interface. Through this interface, IPCAM can be connected with various network devices, such as hub, router, etc.

### 6) Reset button

Press and hold on the reset button for 5 seconds. Releasing the reset button, the password will back to the factory default administrator password. The default administrator user is admin with no password.

## Bottom View

There are up to three labels located on the body of the camera; this is an important feature of original Foscam cameras. If your camera does not have labels as shown in Figure 1.4 ,it may be a clone one. Cloned Foscam cameras can not use original firmware and are not eligible for warranty or technical services.



Figure 1.4

## 2 Access the IP Camera

This chapter explains how to access the camera through browser and RTSP player.

### 2.1 Access the Camera in LAN

This camera supports HTTP and HTTPS protocols, you can access the camera by two ways.

#### (1) http:// LAN IP + HTTP Port NO.

Double click the IP Camera Tool icon and it should find the camera's IP address automatically after you plug in the network cable.

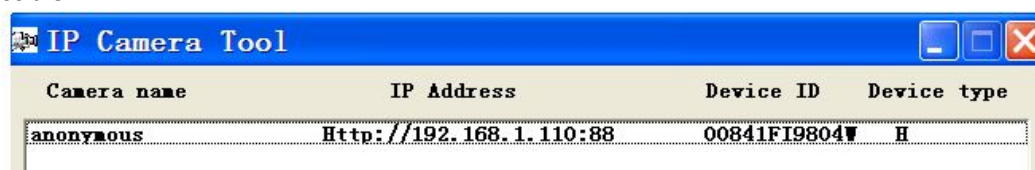


Figure 2.1

Double click the IP address of the camera; your default browser will open to the camera login page.

#### (2) https:// LAN IP + HTTPS Port NO.

The default Https port no is 443. You can use the url to access the camera: **https:// LAN IP + HTTPS port.**

Go to **Settings - Network - Port** panel , you can see and change the https and https port no.

		Save	Refresh
HTTP Port	88		
HTTPS Port	443		
ONVIF Port	65533		

Figure 2.2

## 2.2 Access the Camera in WAN

### 2.2.1 Static IP Addresses

Users who have static IP addresses do not need to set DDNS service settings for remote access. When you have finished connecting the camera using the LAN IP address and port forwarding, you can access the camera directly from the Internet using the WAN IP address and port number.



## How to Obtain the WAN IP address from a public website ?

To obtain your WAN IP address, enter the following URL in your browser: <http://www.whatismyip.com>. The webpage at this address will show you the current WAN IP.



Figure 2.3

## Access your IP Camera from the Internet

You can access the IP Camera from the Internet (remote access). Enter the WAN IP address and port number in your standard browser. For example, you would enter `http:// 183.37.28.254:85`

### NOTE :

Make sure port forwarding is successful. You can do port forwarding two ways.

1. Login to your router to enable the “UPNP” function. You can then login to the camera as administrator, choose Network, and then choose UPnP to enable UPnP. Make sure that the status of UPnP reads “UPnP Successful” on the Device Status page.

2. Do port (HTTP port) forwarding manually. (See Figure 2.6 for further details)

If your router has a Virtual Server, it can do port forwarding. Add the camera’s LAN IP and port which you had set earlier to your router’s port forwarding settings.

**NOTE:** If you plug the camera into a router, it will have a dynamic IP address and you need to set DDNS service settings to view it remotely.

### 2.2.2 Dynamic IP Addresses

DDNS is a service that allows your IP Camera, especially when assigned with a dynamic IP address, to have a fixed host and domain name. This means that even though your WAN IP address is constantly changing, you will have a fixed hostname you can use to access your cameras at all times. You can access the camera

directly from the Internet using the hostname and port number.

## What is the HTTP Port NO.?

### Default HTTP Port is 88

All cameras have the default HTTP port of 88. For example, if the LAN IP link of the camera is <http://192.168.8.102:88>, this means that the camera's HTTP port is 88. You can change port 88 to another port if you'd like such as 2000 or 8090, which will not be conflict with other existing ports like 25, 21, 10000. Here you can set the port no. between 1 and 65535.

### Change the default http no.88 to another one.

### How to assign a different HTTP Port No. and fixed the LAN IP of the camera by the IP Camera Tool?

**Step 1:** Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 2.4 and 2.5.

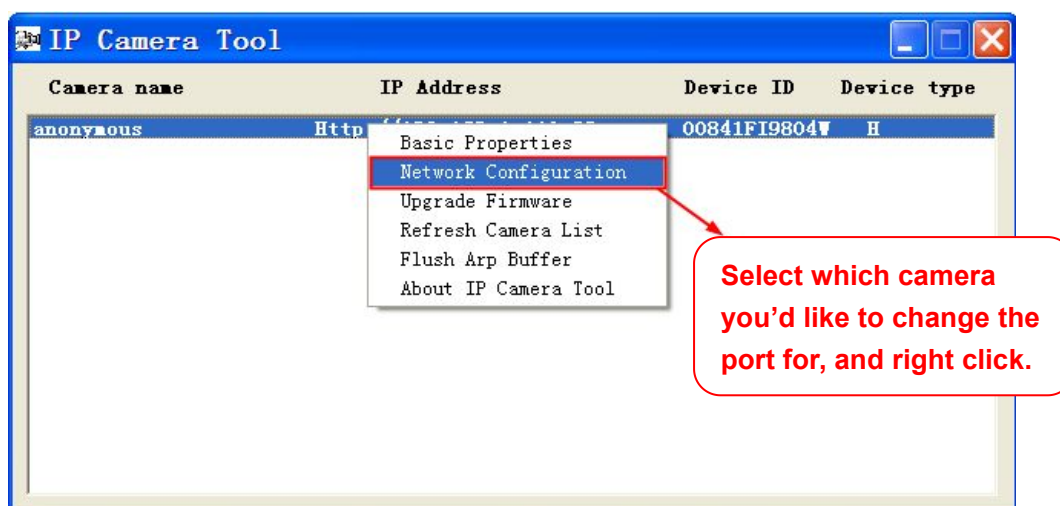


Figure 2.4

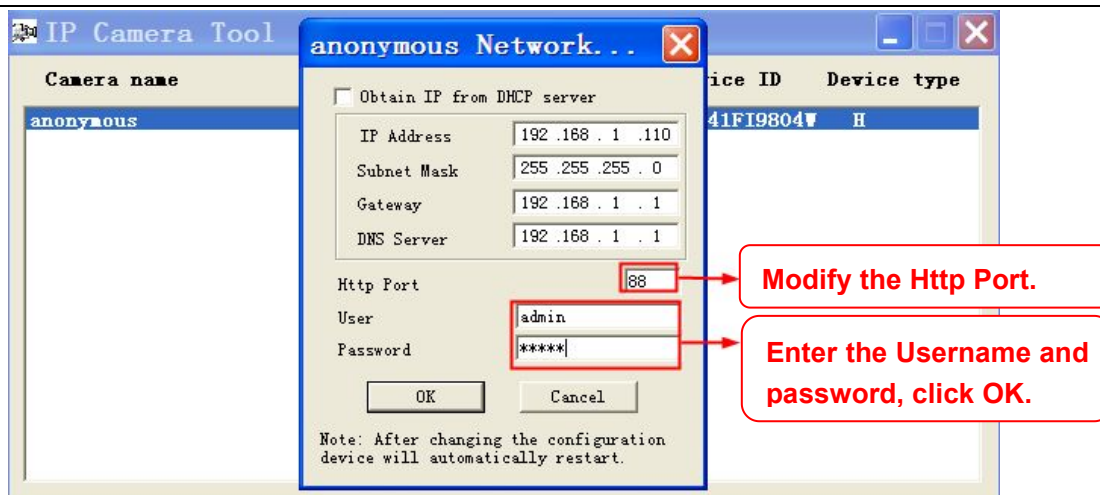


Figure 2.5

**Step 2:** Enter the username and password of the Administrator (default username is admin with a blank password), and click “OK” to apply changes.

**Step 3:** Wait around 10 seconds, you’ll see that the camera’s LAN IP address has changed. In our example it was changed to 2000, so we see <http://192.168.8.102:2000> in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of <http://192.168.8.102:2000>. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!



Figure 2.6

## What is Port forwarding?

If you have never done port forwarding before, you can open and view the following link to understand the basic concept. Port forwarding allows for outside connections to access a specific device on your network from anywhere in the world. Every router automatically blocks any incoming connections for safety purposes. Using port forwarding, you are telling your router to allow a connection through a certain port (you can think of it as a gateway) into your router. You set this port to a specific device, in our case an IP Camera, so it can be accessed from anywhere in the world.

Click this link to learn more about port forwarding: <http://portforward.com/help/portforwarding.htm>

## How do we configure Port Forwarding?

**For this section, we will be using an example:**

Let's say the camera's LAN IP address is <http://192.168.8.100:2000>

**Step 1:** Login to the router, and go to your router's port forwarding or port triggering menu. Sometimes this is also under the name of Virtual Server or NAT.

Using the Linksys brand router as an example, we would log into the router, and go to the **Applications & Gaming** menu. We would then click on the "Single Port Forwarding" sub-menu.

**Step 2:** Create a new column using the LAN IP address & HTTP Port of the camera within the router as shown below, then push OK or Submit to save your settings:

**Single Port Forwarding**

Application Name	External Port	Internal Port	Protocol	To IP Address	Enabled
None	---	---	---	192.168.8.1	<input type="checkbox"/>
None	---	---	---	192.168.8.1	<input type="checkbox"/>
None	---	---	---	192.168.8.1	<input type="checkbox"/>
None	---	---	---	192.168.8.1	<input type="checkbox"/>
None	---	---	---	192.168.8.1	<input type="checkbox"/>
Foscam Cam	2000	2000	Both	192.168.8.100	<input checked="" type="checkbox"/>
			Both	192.168.8.1	<input checked="" type="checkbox"/>
			Both	192.168.8.1	<input type="checkbox"/>

Fill the HTTP Port of the camera in the columns of External Port and Internal Port. Example: 2000

Assign a name for the port forward setting here.

Fill in this section with the LAN IP of the camera; we would enter "100" for our example.

Figure 2.7

### First method :

#### Use the embedded DDNS to access the camera via the Internet

Each Foscam camera has an embedded unique DDNS domain name, the format of this domain name is xxxxxx.myfoscam.org. On the bottom of the camera, you can see the domain name sticker with this information on it.

For example, we can use **test09.myfoscam.org**. In the camera, click Settings at the top, click "Network" on the left, then click "DDNS" to get to the DDNS settings page. Here you can see the unique domain name of your camera.

Figure 2.8

Now you can use “<http://Domain name + HTTP Port>” to access the camera via the Internet.

Take hostname [test09.myfoscam.org](http://test09.myfoscam.org) and HTTP Port of 2000 for example, the URL link to access the camera via the Internet would be [http:// test09.myfoscam.org:2000](http://test09.myfoscam.org:2000).

### Second method :

#### Use the Third party DDNS to access the camera via the Internet

**Step 1** Please go to the third party DDNS website(such as [www.no-ip.com](http://www.no-ip.com)) to create a free hostname.

**Step 2** DO DDNS Service Settings within the Camera

Please set DDNS Settings within the camera by hostname, a user name and password you’ve got from [www.no-ip.com](http://www.no-ip.com)

Take hostname [ycxgwp.no-ip.info](http://ycxgwp.no-ip.info), user name foscam, password foscam2012 for example.

**Firstly**, goes to option of DDNS Settings on the administrator panel.

**Secondly**, select No-Ip as a server.

**Thirdly**, fill foscam as DDNS user, fill password foscam2012 as DDNS password, fill [ycxgwp.no-ip.info](http://ycxgwp.no-ip.info) as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

**Fourthly**, after the restart, login the camera, and go to option of Device Status on the administrator panel, and check if the DDNS status is successful.

**If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.**

### NOTE :

If you have set Third Party DDNS successfully ,the Foscam Domain Name will be invalid. The Third Party DDNS and the Foscam Domain Name cannot work at the same time, the last time you configured will take effect.

## 2.3 Using the VLC player

This camera supports RTSP streaming, here you can view the camera using VLC player.

**RTSP URL** [rtsp:// \[user name\]\[:password\]@IP:HTTP port number/videosream](rtsp://[user_name][:password]@IP:HTTP_port_number/videosream)

The part in the square brackets may be omitted.

**user name & password:** The user name and password to access the camera. This part can be omitted.

**IP:** WAN or LAN IP address.

**Videostream:** Here support three mode: videoMain, videoSub and audio. When the network speed is bad, here you had better select videoSub. If you select audio, you can only hear the sound but cannot see the video.

**For example:**

**IP:** 192.168.1.11

**HTTP Port number:** 88

**User name:** admin

**Password:** 123

Here I can enter one of the following URLs in the VLC.

- 1) rtsp://admin:123@192.168.1.11:88/videoMain
- 2) rtsp:// @192.168.1.11:88/videoMain
- 3) rtsp://:123@192.168.1.11:88/videoMain
- 4) rtsp://admin@192.168.1.11:88/videoMain

Open the VLC, and go to Media→Open Network Stream option, then enter the URL into VLC.



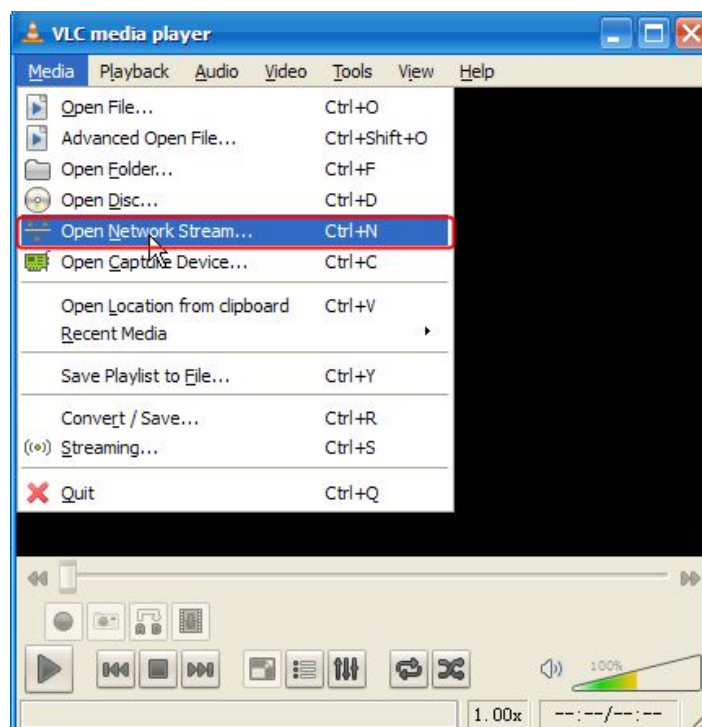


Figure 2.9

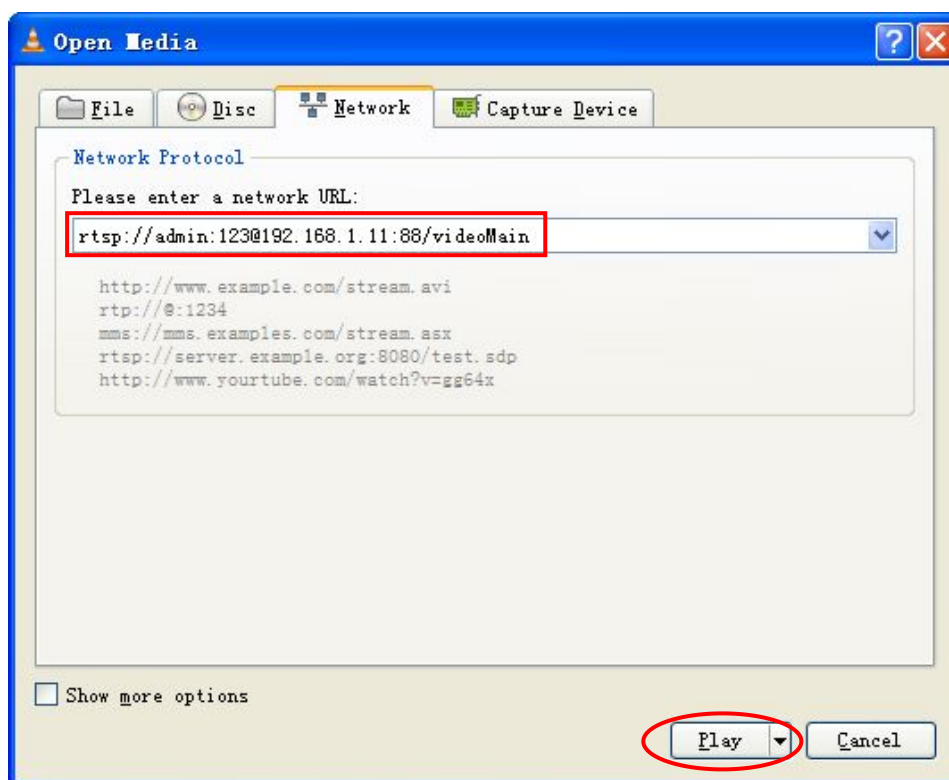


Figure 2.10

Sometimes you may need to enter the user name and password again. Click OK and you can see the real-time preview.



Figure 2.11

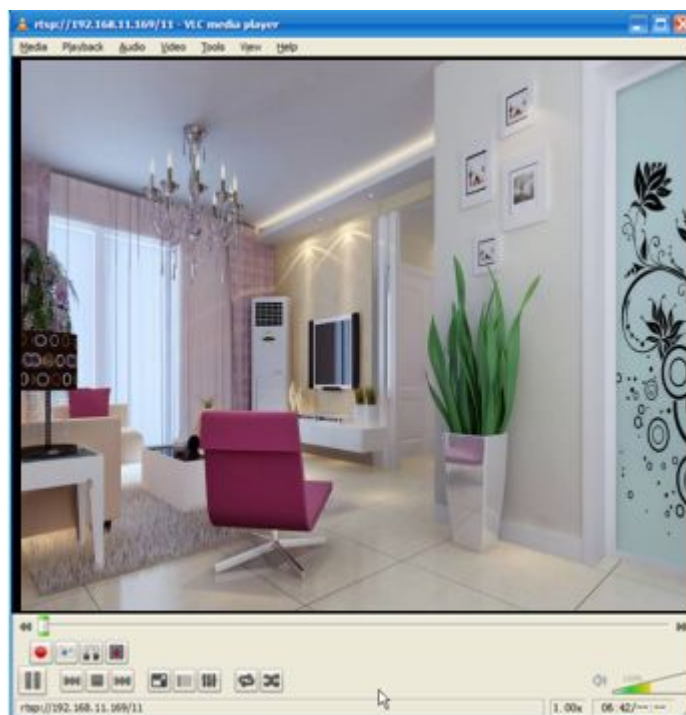


Figure 2.12

If you cannot play the video in the VLC player, please check the port mapping. You can read Quick Installation Guide about How to configure port forwarding.

**NOTE:**

If you modify the camera's username or password, you had better reboot the camera, or else the new username and password cannot take effect when you enter the authentication in the VLC.

## 2.4 IP camera connection to the server

Device supports ONVIF2.2.1 protocol, You can easily access the NVR with ONVIF or server with ONVIF.



## 3 Surveillance Software GUI

Please refer to the Quick Installation Guide if you install the camera at first time. After finishing quick installation, you can take time to learn the operation of the software.

### 3.1 Login Window

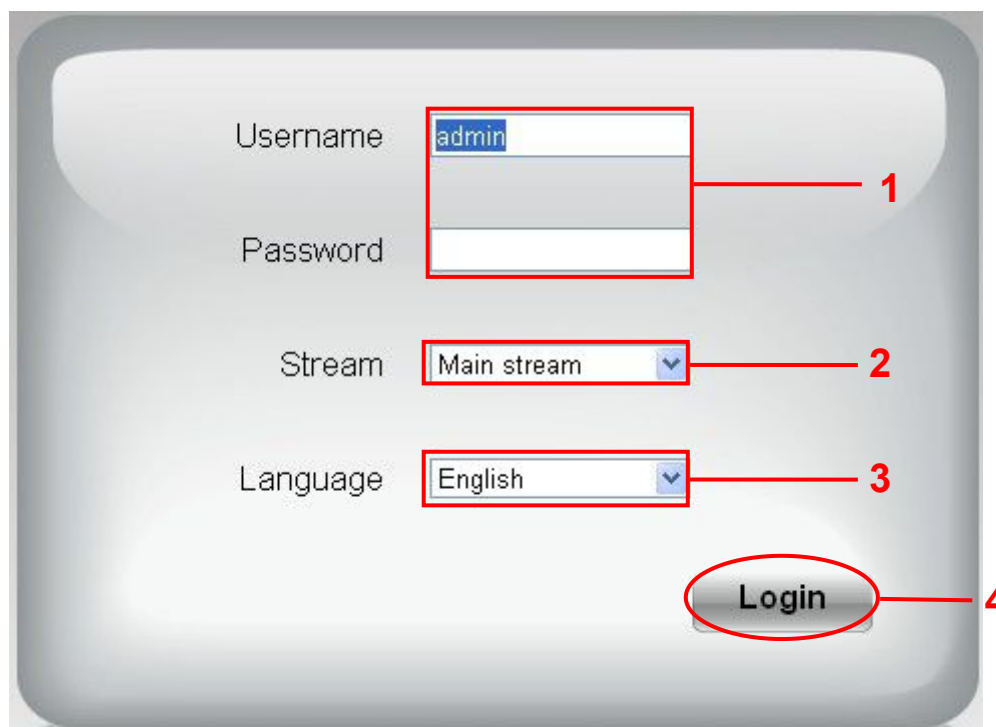


Figure 3.1

Please check the login window above, it was divided to 5 sections from no. 1 to 4.

#### Section 1 Enter the User name and password

The default administrator username is admin with a blank password, please reset the password at first using and prevent unauthorized users login the camera (read chapter 3.2.4 about how to change).

#### Section 2 Stream

The camera supports two stream modes: Main stream and sub stream. If you want to access the camera form LAN, here you can select Main stream. If you want to access the camera from Internet, here we recommend sub stream.

**Note:** When the network bandwidth is badly you'd better select Sub Stream and the video will be more fluency.

#### Section 3 Select the language

You can select the language you need via click on the language dropdown list to switch.

#### Section 4 Login the camera

Click Login button and you will see the surveillance windows.(If login the camera for the first time, the page that modify the username and password will appears.)

## 3.2 Setup Wizard

After logging in for the first time, you will go to “Setup Wizard” automatically. Here you can set the basic parameters of camera, such as camera name, camera time, wireless settings, IP configuration.



Figure 3.3

**Device Name:** You could give name for your camera.

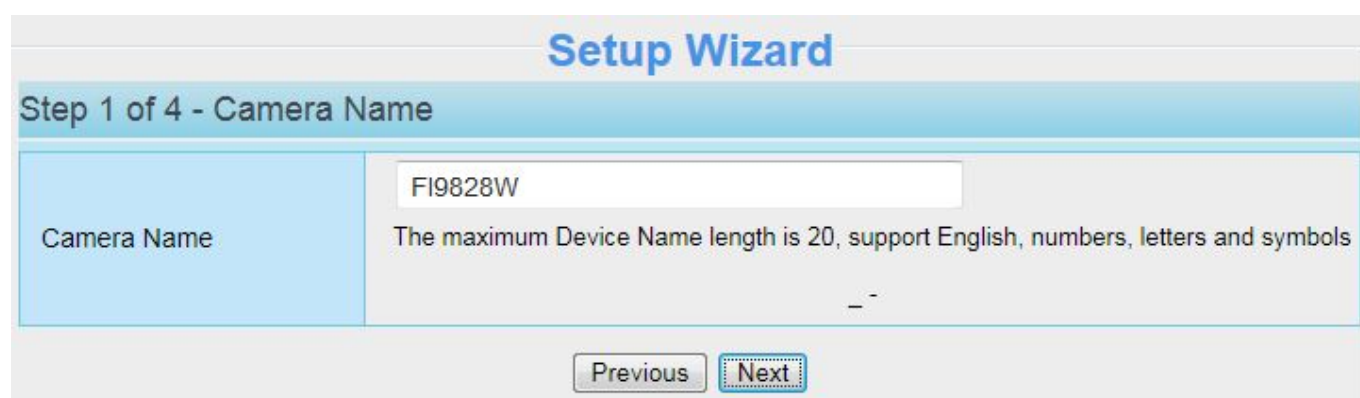


Figure 3.4

**System Time:** Select the time zone you need to set the date, time, format and so on.

## Setup Wizard

### Step 2 of 4 - Camera Time

Time Zone

(GMT) Greenwich mean time; London, Lisbon, ▼

Sync with NTP server ☒

NTP Server

time.nist.gov ▼

PC Time

2014-1-1 12:17:29 PM

Sync with PC

Date Format

YYYY-MM-DD ▼

Time Format

12-hour ▼

use DST ☐

Ahead Of Time

0 Minute

Previous

Next

Figure 3.5

**Wireless networks:** Click “Scan” , find the SSID of your wireless router, select and enter the password.

## Setup Wizard

### Step 3 of 4 - Wireless Settings

Wireless Network List

1

Scan

SSID(Network Name)	Encryption	Quality
Tenda_373678	WPA/WPA2	
dlink-chenchen2.4G	WPA/WPA2	
TP_LINK_TEST	WPA2	
FOSCAM-docdev	WPA/WPA2	

2

SSID

FOSCAM-docdev

Encryption

WPA/WPA2 ▼

3

Password

••••••••

The maximum password length is 63, including numbers, letters and symbols

Figure 3.6

**IP:** Set IP address of the camera. You could choose to obtain an IP automatically or set the IP address according to your needs.

Shenzhen Foscam Intelligent Technology Co., Limited  
 Tel: 86 755 2674 5668 Fax: 86 755 2674 5168

17

## Setup Wizard

### Step 4 of 4 - IP Configuration

Obtain IP From DHCP ☒

IP Address	192.168.1.101
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0

Note: Once you save your settings, the camera will restart.

Figure 3.7

## 3.3 Surveillance Window



Figure 3.8

### Section1 FOSCAM Logo/ LiveVideo / Settings/Playback buttons

**FOSCAM**: FOSCAM LOGO





: Path to surveillance window. Click this button and back to the surveillance window



: Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel and do advanced settings.

## Section2 Multi-Device Window



The firmware inside the camera supports up to maximum of 9 cameras being monitoring at the same time. You can add other cameras in multi-device setting (read chapter 4.2.5).

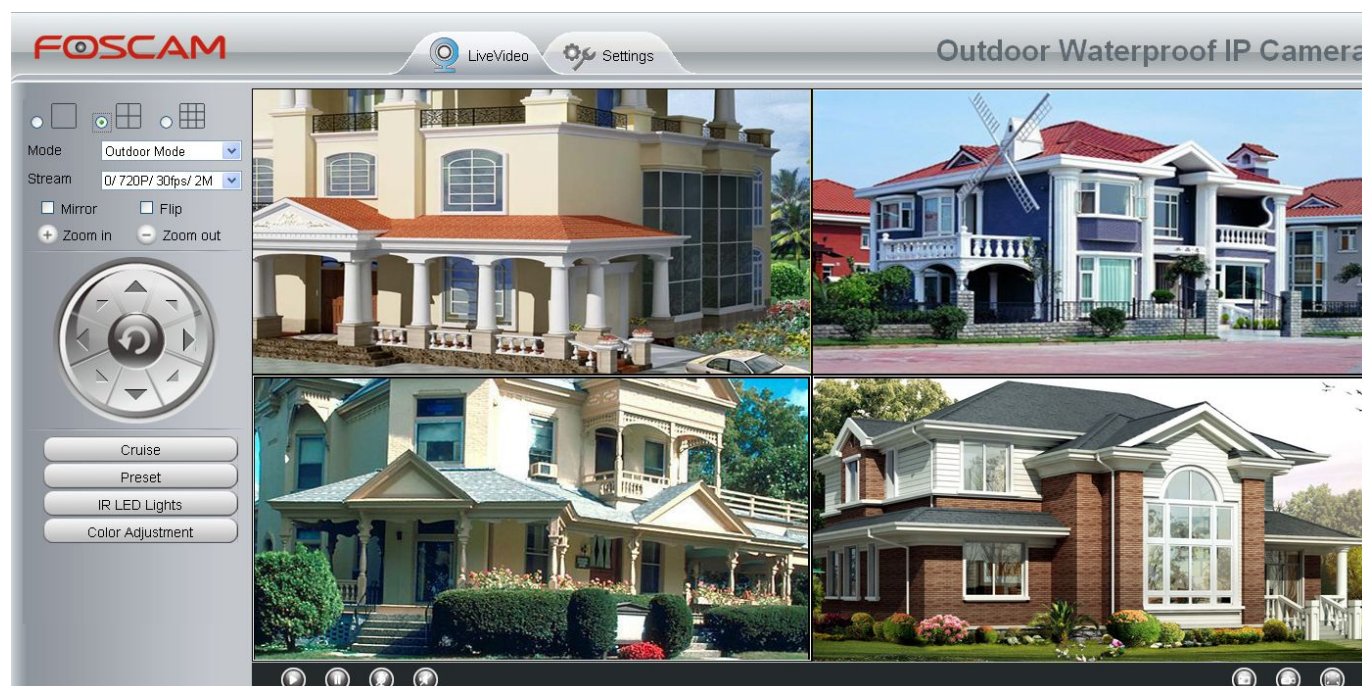


Figure 3.9

## Section3 Mode/ Stream / Mirror/ Flip buttons

### Mode

- 1) 50HZ -----Indoor surveillance (Region: Europe, China)
- 2) 60HZ -----Indoor surveillance (Region: USA, Canada)
- 3) Outdoor Mode ----- Outdoor surveillance

### Stream

The default Stream supports four modes: 0/720P/30fps/4M, 1/VGA/25fps/2M, 2/VGA/ 15fps/ 1M and 3/VGA/10fps/200K. The format of the stream type is **Stream type no. / Resolution / Maximum frame rate/**

### Bit rate

1) **Stream type NO.** : The number is used to identify the stream type.

### 2) 720P/ VGA

There are two resolutions, the bigger one is 720P, and the smaller one (VGA) is 640x480 pixels. The bigger the resolution, the better of the image quality is. If you are accessing the camera via internet and want to get more fluent video streaming, please select resolution VGA.

### 3) Maximum frame rate

When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

### 4) Bit rate

Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video can not play well.

You can reset the stream type on **Settings-> Video-> Video Settings** panel.

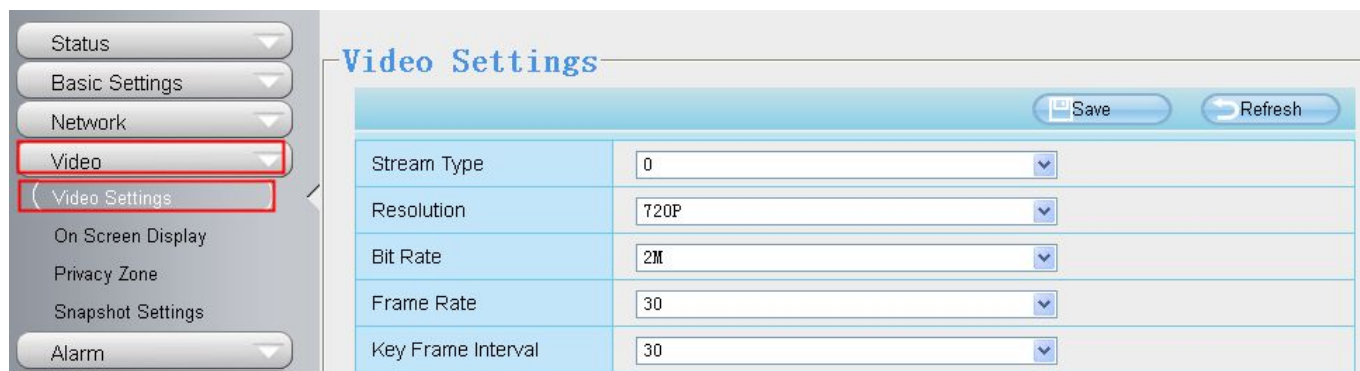




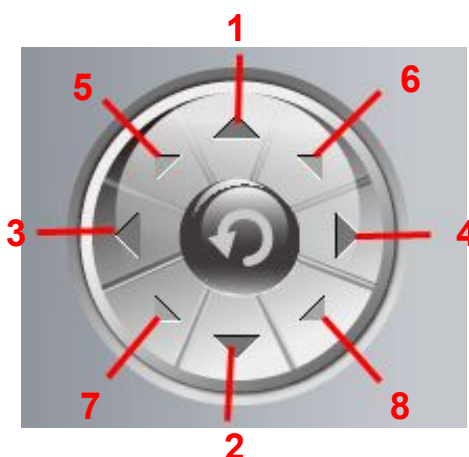
Figure 3.10

After changing, please re-login the camera and you can see the modification.

### 5) “Zoom in” or “Zoom out”

Device Support 3x zoom feature, click  or  , The focal length of the camera lens will be larger or shrink, you can adjust the focus distance to the target object size, access to high-definition screen.

## Section4 Pan/Tilt Control



1----- Up control button,

2----- Down control button,

3----- Left control button,

4----- Right control button,

5----- Up-Left control button

6----- Up-Right control button

7----- Down-Left control button

8----- Down-Right control button



Click this button and go to center

## Section5 Cruise / Preset settings

### Cruise Settings



The default cruise tracks have two types: Vertical and Horizontal.

Vertical: The camera will rotate from up to down.

Horizontal: The camera will rotate from left to right.



: Start cruise.

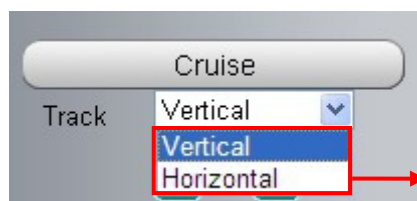


: Stop cruise.

If you want to define or change the cruise trace, please go to **Settings** → **PTZ** → **Preset Settings** panel.

### How to do cruise?

**Firstly:** Select one track in the track dropdown list



Select one of these

**Secondly:** Click Start cruise button, the camera will cruise following the predefined path.

**Thirdly:** Click stop button and finish cruising.

### Preset settings



IPCAM supports 16 preset positions, which is considered enough for DIY home & small business surveillance market

The default preset position is Topmost, Bottom most, Left most, right most, you can add other preset positions.



**Add** Click this icon to save the position you need the camera to remember




**Delete** Select one preset position and click this button to delete it.




**GO** Select one preset position in the preset dropdown list and click Go to make the camera move the preset position

### *How to do preset position?*

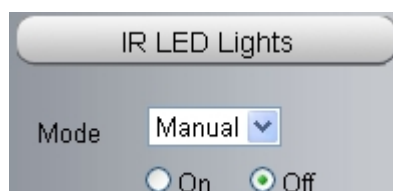
**Firstly**, move the camera and stop at a desired place where you want make preset position.

**Secondly**, click  button and enter a descriptive name for the preset position. The preset position cannot contain special characters. Then click OK to save it. If you want to reset the preset position, click Cancel.

After that, you can move the camera and stop at another place, and set another preset position. You can do all the 16 preset positions with this method.

If you want to see one preset position you have set, only select the preset position name from the preset dropdown list, and click go  button, the camera will go to the preset position.

## **Section6 IR LED Lights**



Click Infra led and there are two modes to adjust the infrared led: Auto and Manual.

**Auto:** Select it and the camera will adjust the infra led (on or off) automatically.

**Manual:** Select it and you can turn on or turn off the infra led manually.



## Section7 Image quality settings

In this page, you can tune Hue, Brightness, Contrast, Saturation, and Sharpness to get higher quality.



## Section8 OSD

If you have added time and camera name in the video, you can see it in the live window.

Go to **Settings ---Basic settings---Camera name** panel, and you can change another device name. The default device name is anonymous.

Go to **Settings ---Basic settings---Camera time** panel and adjust the device time.


Go to **Settings ---Video---On Screen Display** panel, you can add or no add OSD.


## Section9 Play/Stop/ Talk/Audio/ Snap/ Record/ Full screen button




**1----- Play** Click it to play the video of the camera

**2----- Stop** Click it to stop the video of the camera

**3----- Talk** Click the button and the icon will become to , then talk to the microphone that connected with PC, people around the camera can here your voice. Click the icon again and stop talking.

**4----- Audio** Click this icon, the icon will become to  you can hear the sound around the camera by the earphone or speakers that connected with PC.

**5----- Snapshot** Click it to make snapshot and it pop-up a window which picture you snapshot, right click in the window and save the picture to anywhere you want.

**6----- Record** Click the icon  and the camera start recording, you can see a green dot in the live window. Click again and stop recording. The default storage path is C:\IPCamRecord. You can change the storage path: Go to Settings- >Record->Storage Location panel.

**7----- Full Screen** Click it to make full-screen, or you can double click the surveillance screen to make full-screen. Double click again and exit full-screen.

### Onscreen Mouse Control

Right click the mouse and you can adjust the screen ration, full screen and Zoom up.

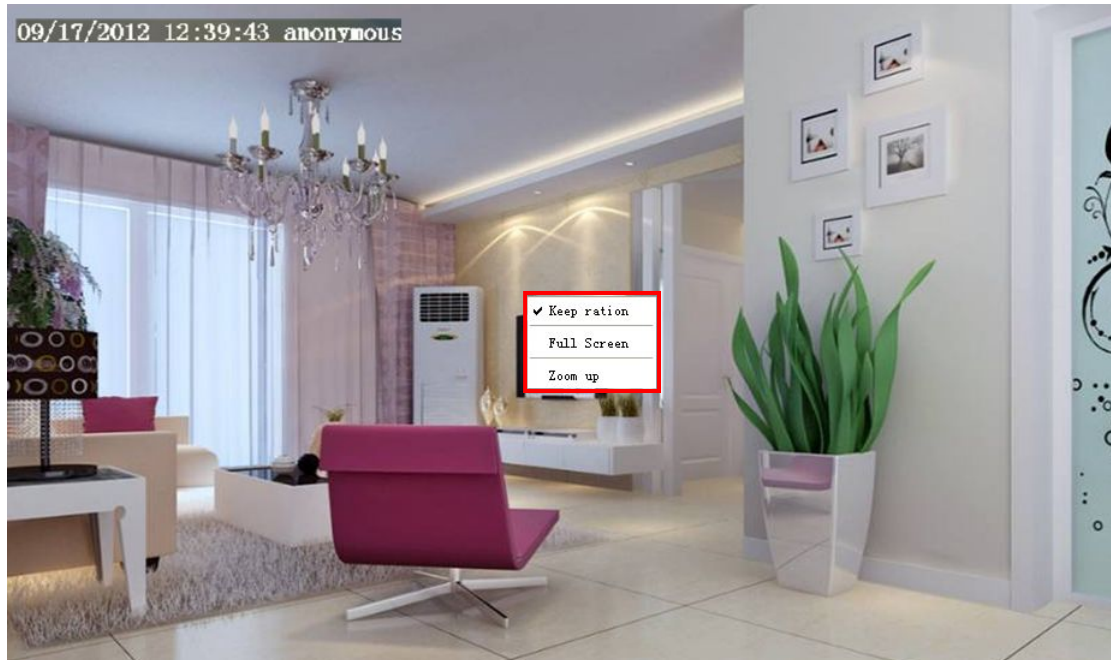


Figure 3.11

**Keep ration:** Select it and the camera will adjust the size of live window based on the the computer monitor automatically. Sometimes there is a black border around the video, please select Keep ration to get a better visual quality .

**Full Screen:** Select it and Click it to make full-screen, press ESC and exit full-screen.

#### Zoom up:

**First Method:** Here is a convenient and fast solution to Zoom up/down screen by Clicking Video Screen and adjusting Mouse pulley, or by press the CTRL key and click the mouse left button.

**Second Method:** Click it and the live view will be digital zoomed up, then click Zoom Down and the live view back to original size.

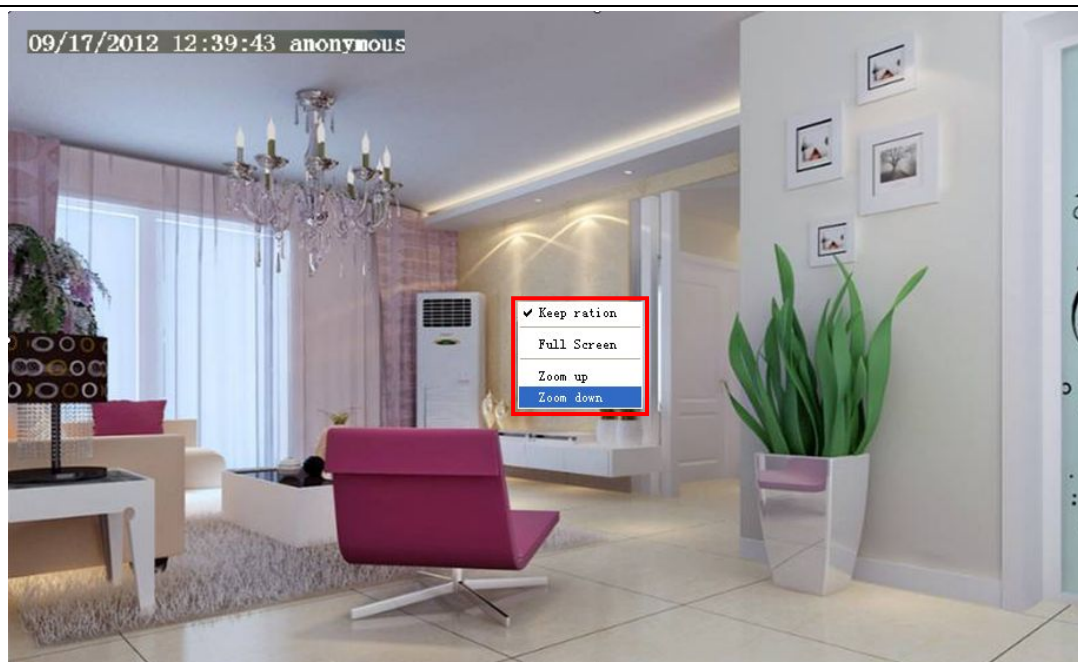


Figure 3.12

When you select the Full Screen, then click right mouse, there is a **Screen PTZ** button.

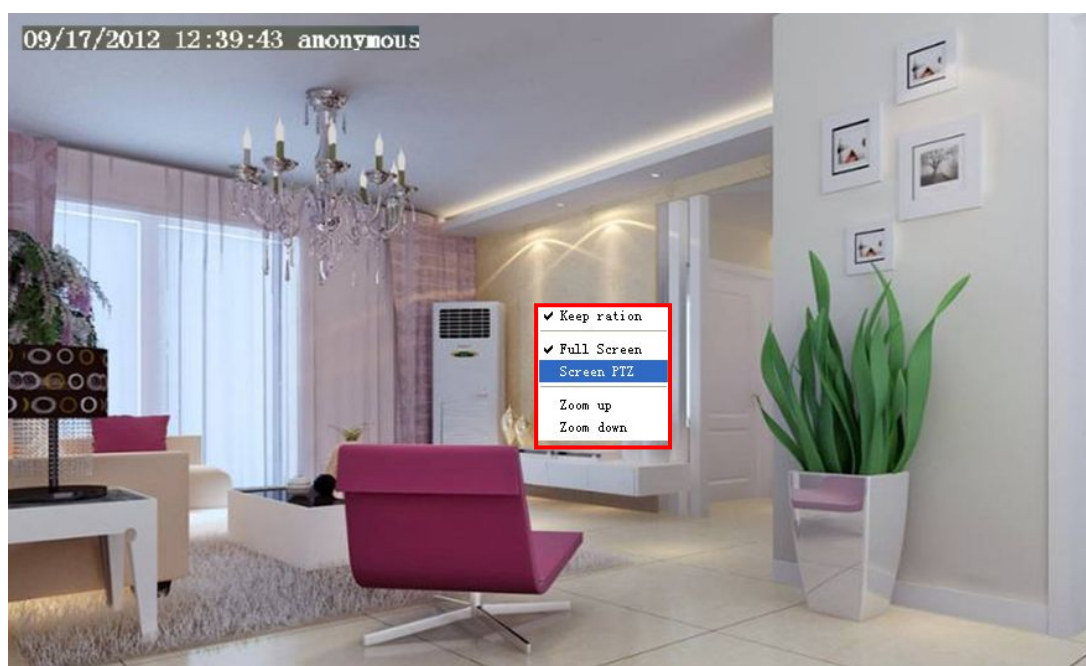


Figure 3.13

Click the **Screen PTZ** button and put the mouse on the screen to indicate the camera move direction you prefer, press the left mouse, the camera will move to the corresponding direction. Loosen the mouse and stop moving. Press Esc button or double click right mouse and cancel the function.

**NOTE:** For Mac OS, the plugin cannot support Onscreen Mouse Control, so you cannot allow to use it.

## 4 Advanced Camera Settings

Click the button “**Settings**”, goes to Administrator Control Panel to make advanced camera settings.

### 4.1 Status

Status contains four columns: Device Information, Device Status, Session Status and Log, it will show you various information about your camera.

#### 4.1.1 Device Information

Device Information	
Refresh	
Camera Model	FI9828W
Camera Name	FI9828W
Camera ID	00626E4E4B8C
Camera Time	2013/11/22 14:37:59
System Firmware Version	1.4.1.8
Application Firmware Version	1.13.1.20
Plug-In Version	2.0.1.7

Figure 4.1

**Camera Model:** The model of the device.

**Camera Name:** The Device Name is a unique name that you can give to your device to help you identify it. Click **Basic Settings** and go to **Camera name** panel where you can change your camera name. The default device name is anonymous.

**Camera ID:** Display the wired MAC address of your camera. For example Device ID is HJYFI9828W03, the same MAC ID sticker is found at the bottom of the camera.

**Camera Time:** The system time of the device. Click **Basic Settings** and go to **Camera time** panel and adjust the time.

**System Firmware version:** Display the System Firmware version of your camera.

**App Firmware version:** Display the application firmware version of your camera.

**Web version:** Display the web UI version of your camera

**Plug-in version:** Display the plug-in version of your camera

#### 4.1.2 Device Status

On this page you can see device status such as Alarm status/ Record Status ,DDNS status, WIFI status and so on.

Device Status	
Refresh	
Alarm Status	Disabled
IO Alarm Status	Disabled
NTP Status	Failed
DDNS Status	Disabled
UPnP Status	Disabled
WiFi Status	Not connected
IR LED Status	Off

Figure 4.2

### 4.1.3 Session Status

Session status will display who and which IP is visiting the camera now.

Session Status	
Refresh	
Username	IP Address
admin	172.16.3.11

Figure 4.3

### 4.1.4 Log

The log record shows who and which IP address accessed or logout the camera and when.

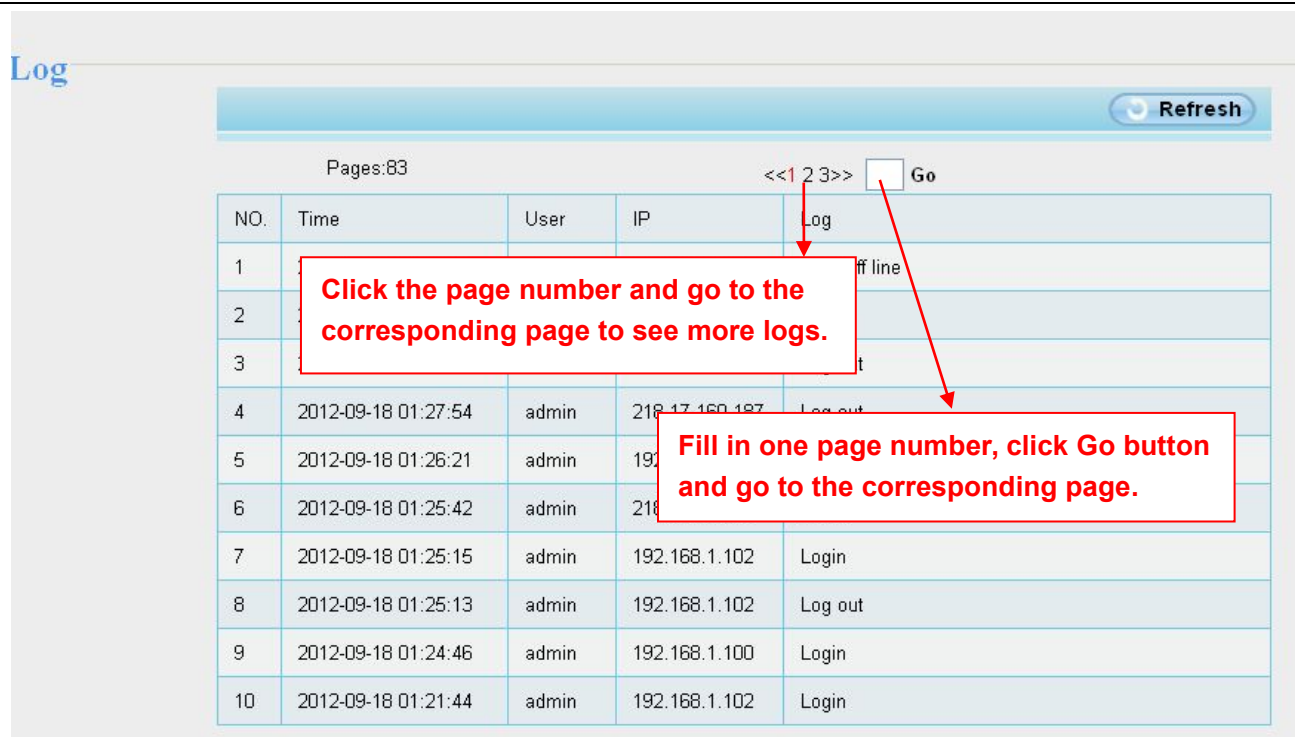


Figure 4.4

Reboot the camera and clear the log records.

## 4.2 Basic Settings

This section allows you to configure your camera's Name, Time, User account and Multi-Camera.

### 4.2.1 Camera Name

Default alias is anonymous. You can define a name for your camera here such as apple. Click Save to save your changes. The alias name cannot contain special characters.



Figure 4.5

### 4.2.2 Camera Time

This section allows you to configure the settings of the internal system clocks for your camera.



**Camera Time**

Save Refresh

Time Zone: (GMT) Greenwich mean time; London, Lisbon, Ca

Sync with NTP server: ☐

NTP Server: time.nist.gov

PC Time: 2013-11-22 02:41:14 Sync with PC

Date Format: YYYY-MM-DD

Time Format: 12-hour

use DST: ☒

Ahead Of Time: 0 Minute

Figure 4.6

**Time Zone:** Select the time zone for your region from the dropdown menu.

**Sync with NTP server:** Network Time Protocol will synchronize your camera with an Internet time server. Choose the one that is closest to your camera.

**Sync with PC:** Select this option to synchronize the date and time of the Network Camera with your computer.

**Manually:** The administrator can enter the date and time manually. Please select the date and time format.

**use DST:** Select the **use DST**, then select the daylight saving time from the dropdown menu.

**Click Save** button to submit your settings.

**NOTE:** If the power supply of camera is disconnect, you need set the camera's time again.

### 4.2.3 User Accounts

Here you can create users and set privilege, **visitor**, **operator** or **administrator**. The default user account is admin, with a blank password. You can enter the users accounts of visitor, operator and administrator Manually.

**User Accounts**

Refresh

NO.	Username	Privilege
1	admin	Administrator
2		
3		
4		
5		
6		
7		
8		

Username

Privilege

☐ Change username

☐ Change password

The maximum length of the user name is 20, support numbers, letters and symbols \_ - @ \$ \*

The maximum password length is 12, does not support the character & =

Figure 4.7

## How to change the password of administrator?

Firstly, select the account of administrator, then select “Change password”, enter the old password and the new password, lastly click modify to take effect.

**User Accounts**

Refresh

NO.	Username	Privilege
1	admin	Administrator
2		
3		
4		
5		
6		
7		
8		

Username

Password

New password

Privilege

☐ Change username

☒ Change password

The maximum length of the user name is 20, support numbers, letters and symbols \_ - @ \$ \*

The maximum password length is 12, does not support the character & =

Figure 4.8

## How to add account ?

Select one blank column, then enter the new user name, password and privilege, last click Add to take effect. You can see the new added account on the Account list.



**User Accounts** Refresh

NO.	Username	Privilege
1	admin	Administrator
2		
3		
4		
5		
6		
7		
8		

Username

Password

Privilege

☐ Change username

☐ Change password

The maximum length of the user name is 20, support numbers, letters and symbols \_ - @\$\*

The maximum password length is 12, does not support the character & =

Figure 4.9

**User Accounts** Refresh

NO.	Username	Privilege
1	admin	Administrator
2	operator	Operator
3		
4		
5		
6		
7		
8		

Username

Privilege

☐ Change username

☐ Change password

The maximum length of the user name is 20, support numbers, letters and symbols \_ - @\$\*

The maximum password length is 12, does not support the character & =

Figure 4.10

**Delete** : Select the account which you want to delete, then click Delete button to take effect.

**Note:** The default admin account cannot be deleted, but you can add other administrator users.

## How to change the username ?

Firstly, select the account which you want to change the username, then select "Change username", enter the new password, lastly click modify to take effect.

**User Accounts** Refresh

NO.	Username	Privilege
1	admin	Administrator
2	operator	Operator
3		
4		
5		
6		
7		
8		

Username:

New username:

Privilege:

☒ Change username  
☐ Change password

The maximum length of the user name is 20, support numbers, letters and symbols \_ - @ \$ \*

The maximum password length is 12, does not support the character & =

Figure 4.11

#### 4.2.4 Multi-Camera

If you want to view multi-surveillance screens on one window, you need to login one camera, and set it as the main device, and do Multi-Device Settings, add other cameras to the first one camera. Before you do multi-cams settings, you need to assign different port such as 81, 82, 83, 84, 85, 86, 87, 88 to the cameras if there is 8 cams installed.

The firmware within the camera can support a maximum of 9 devices monitoring all at the same time. This page you can both add FOSCAM MJPEG and H.264 series cameras to the first camera and view multi-surveillance screen on one window.

#### Add cameras in LAN

In Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is the default one. You can add more cameras in the list in LAN for monitoring. The camera's software supports up to 9 IP Cameras online simultaneously. Click **The 2nd Device** and click the item in the **Device List in LAN**, the Alias, Host and Http Port will be filled in the boxes below automatically. Enter the correct username and password then click **Add**. Add more cameras in the same way.

Cameras On LAN

anonymous(192.168.11.193)  
F19821W for ebuver (192.168.11.241)  
**anonymous(192.168.11.203)**  
anonymous(192.168.11.212)

The 1st Camera: This Camera

[The 2nd Camera](#): None

Camera Model: MJ

Camera Name: anonymous

Host: 192.168.11.203

HTTP Port: 80

Media Port: 80

Username: admin

Password:

Add Delete

[The 3rd Camera](#): None

[The 4th Camera](#): None

1 Click it, camera model, alias, host and HTTP Port will be filled in the following boxes automatically.

2 Enter the User name and password of the 2nd camera.

3 Click Add to take effect.

Figure 4.12

**Camera Model:** Our Company produces two series cameras: MJPEG and H.264. Here will show you which series the camera belongs to.

Cameras On LAN		anonymous(192.168.11.193) FI9821W for ebuyer (192.168.11.241) <b>anonymous(192.168.11.203)</b> anonymous(192.168.11.243)	Refresh Refresh
The 1st Camera		This Camera	
<a href="#">The 2nd Camera</a>		anonymous(192.168.11.203)	
<a href="#">The 3rd Camera</a>		FI9821W for ebuyer (192.168.11.241)	
<a href="#">The 4th Camera</a>		anonymous(192.168.11.203)	
<a href="#">The 5th Camera</a>		None	
<a href="#">The 6th Camera</a>		None	
<a href="#">The 7th Camera</a>		None	
<a href="#">The 8th Camera</a>		None	
<a href="#">The 9th Camera</a>		None	

Note: If you want to access your camera remotely, make sure you are able to access it seperately through a browser.

Figure 4.13

Back to **Surveillance Windows**, and click Four Windows option, you will see four cameras you added.

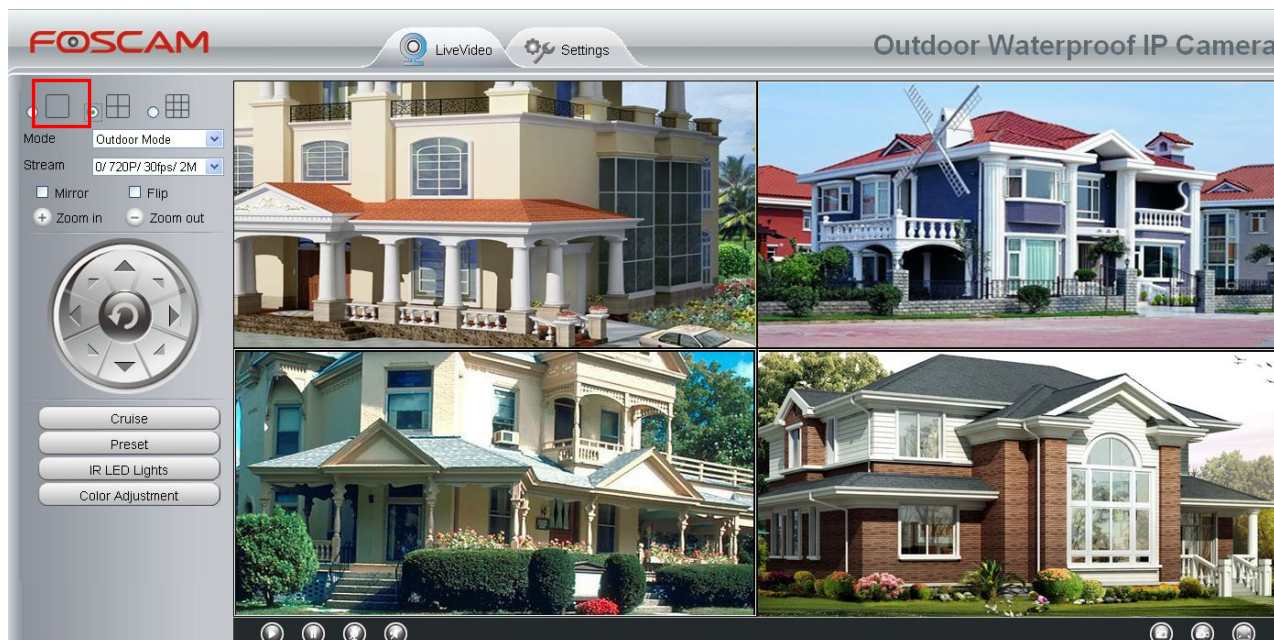


Figure 4.14



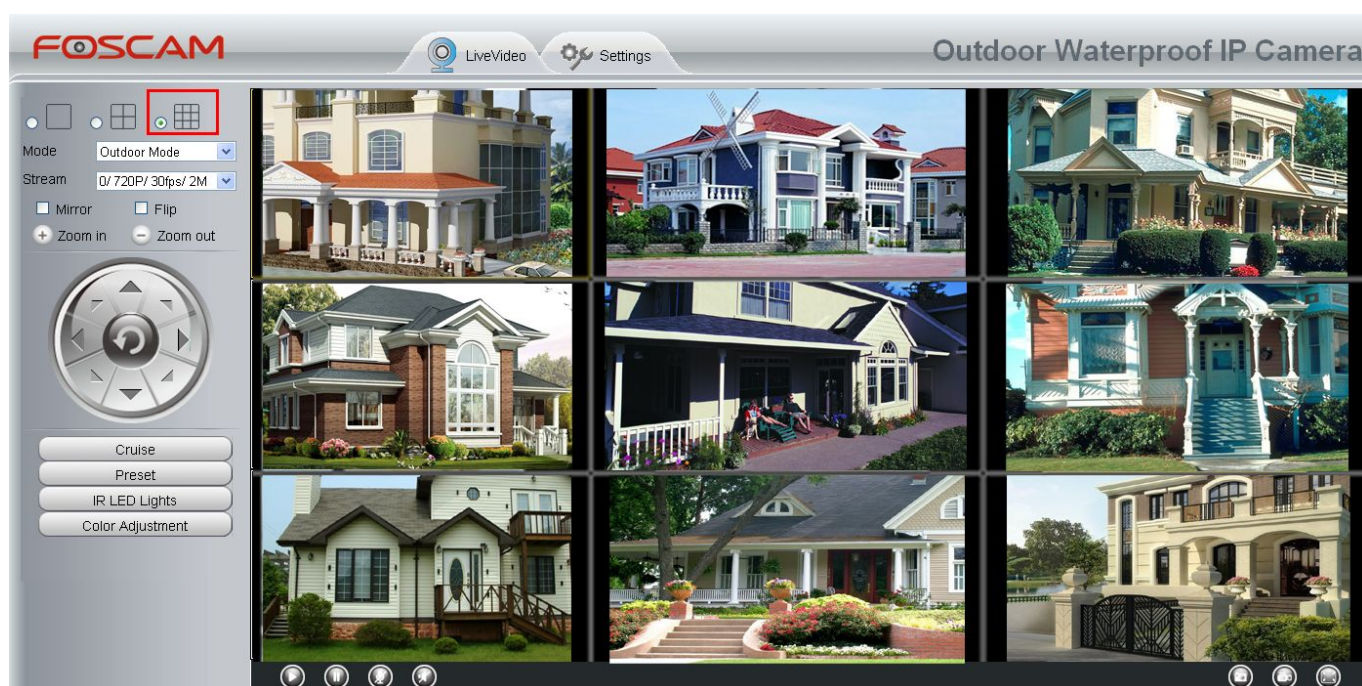


Figure 4.15

## Add cameras in WAN

If you want to view all cameras via the internet(remote computer), you will need to add them using DDNS domain name. Firstly, make sure all of the cameras you added can be accessed through the internet. (**Read How to configure DDNS settings in chapter 4.3.3**)

Login to the first camera using a DDNS domain name and port.

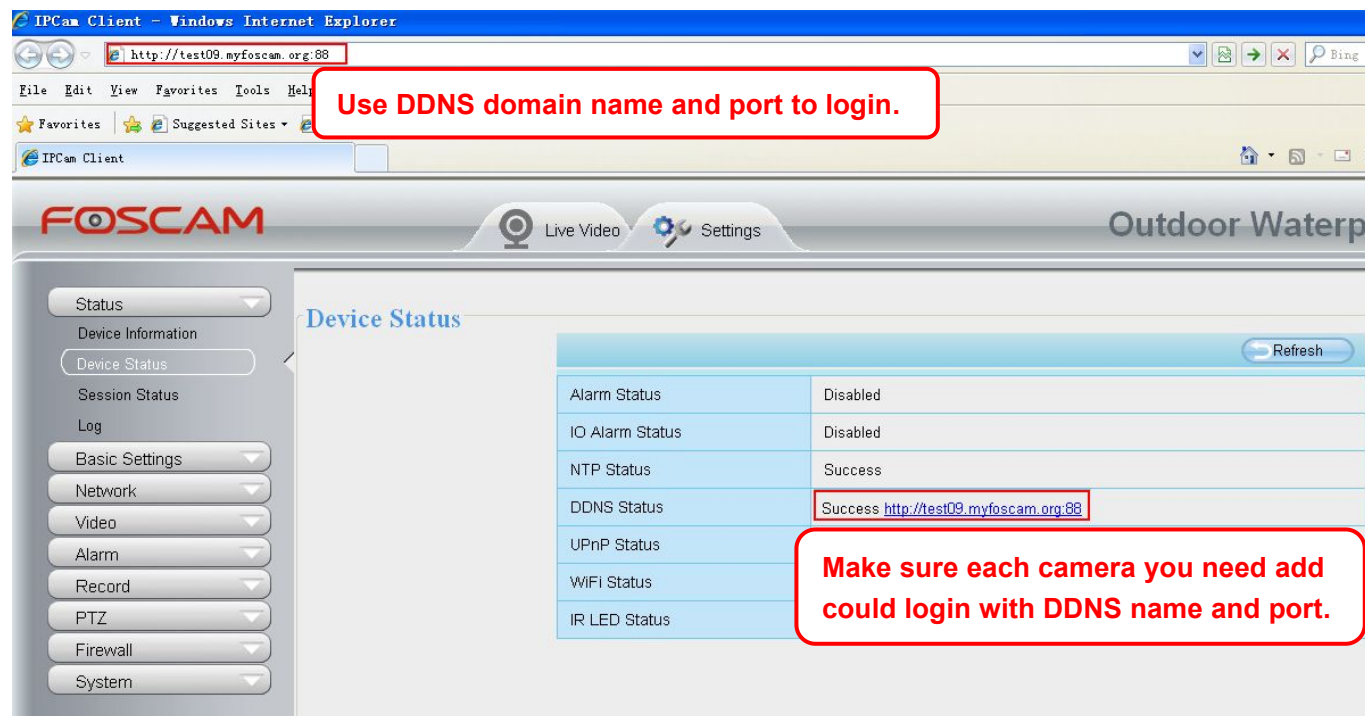


Figure 4.16

Click **Multi-Device Settings**. Choose **The 2nd Device**. Fill in the 2nd camera's name, DDNS domain name, port number. Enter user name and password and then choose Add.

Cameras On LAN	F19821W for ebuyer (192.168.11.241) anonymous(192.168.11.243) anonymous(192.168.11.203)	Refresh
The 1st Camera	This Camera	
<a href="#">The 2nd Camera</a>	anonymous(192.168.11.203)	
Camera Model	MJ	1
Camera Name	apple	2
Host	camera.no-ip.info	
HTTP Port	801	3
Media Port	801	
Username	admin	
Password		4
	Add Delete	5
<a href="#">The 3rd Camera</a>	None	
<a href="#">The 4th Camera</a>	None	

Figure 4.17

- 1---- The camera model: MJ or H264.
- 2---- The 2nd camera's name
- 3---- Fill in the 2nd camera's DDNS host not LAN IP
- 4---- Enter the 2nd camera's user name and password
- 5---- Click Add button and to take effect

**NOTE:** Here the Host must be entered as the second camera's DDNS domain name, not its LAN IP.

Device List in LAN		Refresh
	apple(192.168.13.102) mycamera(192.168.13.108) ipcam(192.168.13.107) FI9821W-01(192.168.13.106)	Refresh
The 1st Device	This Device	
<a href="#">The 2nd Device</a>	apple(camera.no-ip.info)	
<a href="#">The 3rd Device</a>	ipcam(test01.foscam.org)	
<a href="#">The 4th Device</a>	mycamera(owlejwww.no-ip.info)	
<a href="#">The 5th Device</a>	None	
<a href="#">The 6th Device</a>	None	
<a href="#">The 7th Device</a>	None	
<a href="#">The 8th Device</a>	None	
<a href="#">The 9th Device</a>	None	
Attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.		

Figure 4.18

Return to video window. You will see all of the cameras accessible through the internet.

When you are away from home, you can use the first camera's DDNS domain name and port to view all the cameras via internet.

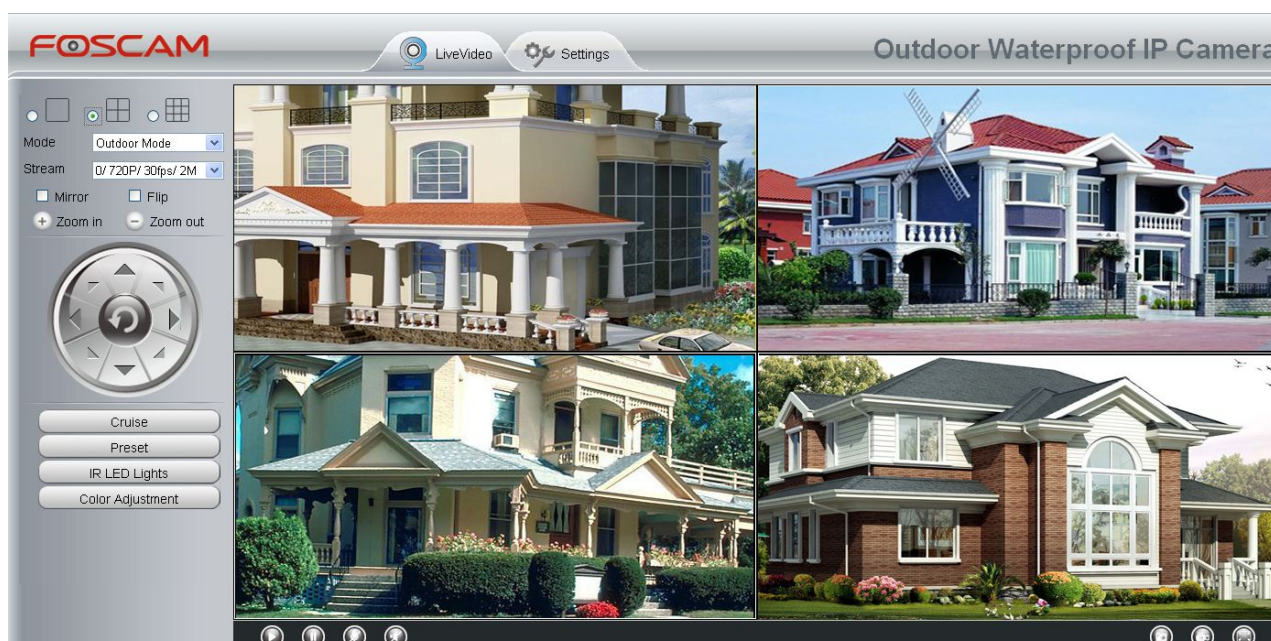


Figure 4.19



## 4.3 Network

This section will allow you to configure your camera's IP, PPPoE, DDNS, Wireless Settings, UPnP and Port.

### 4.3.1 IP Configuration

If you want to set a static IP for the camera, please go to **IP Configuration** page. Keep the camera in the same subnet of your router or computer.



Save Refresh	
Obtain IP From DHCP <input type="checkbox"/>	
IP Address	192.168.0.109
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
Primary DNS Server	192.168.0.1
Secondary DNS Server	202.96.134.133
Note: Once you save your settings, the camera will restart.	

Figure 4.20

Changing settings here is the same as using the IP Camera Tool.

It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area connection as follows:

**Control Panel → Network Connections → Local Area Connections → Choose Support → Details.**



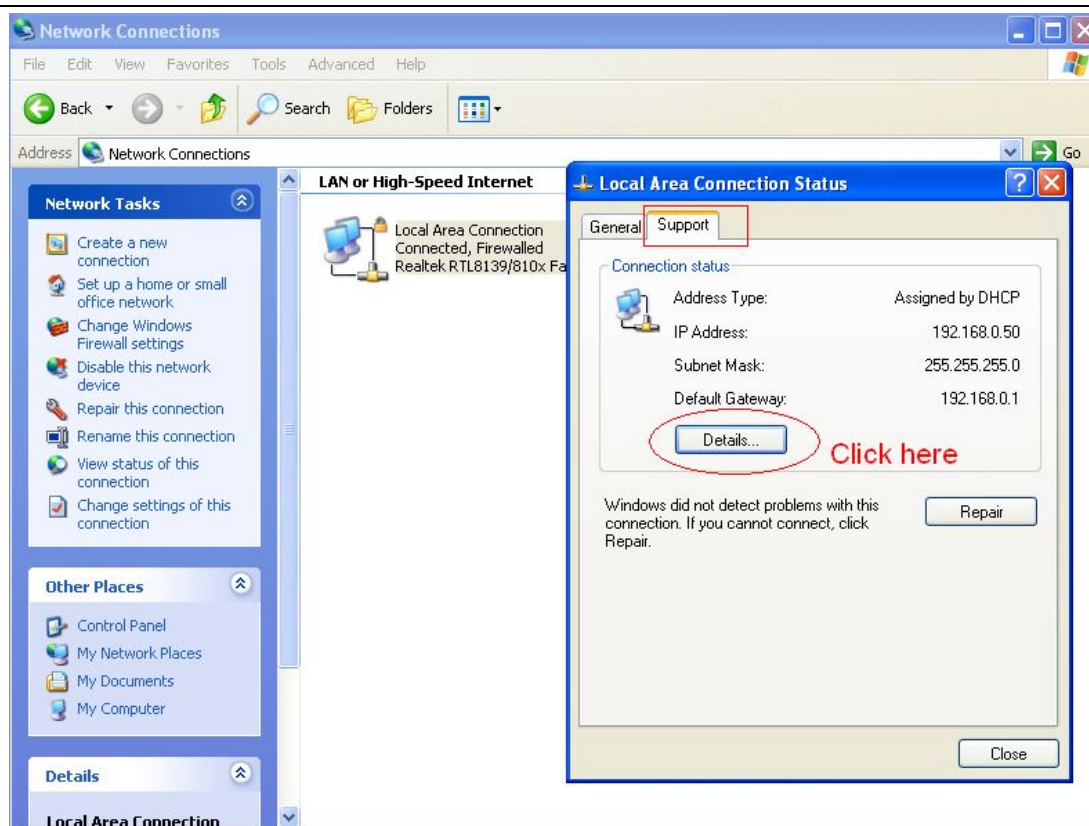


Figure 4.21

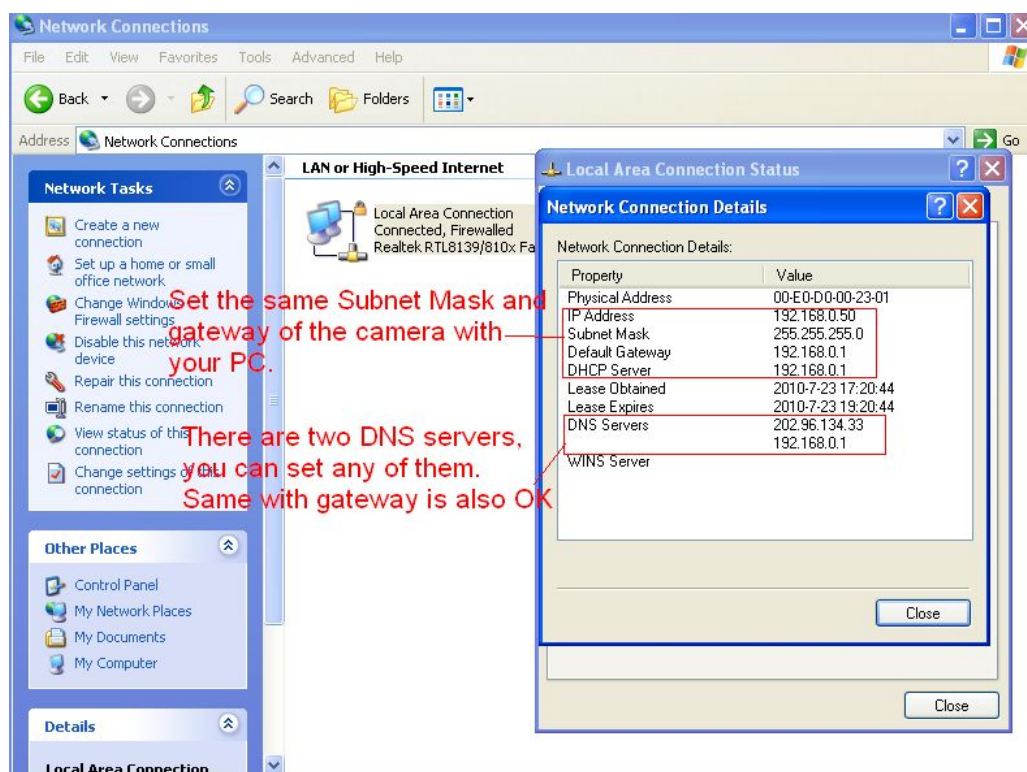


Figure 4.22

If you don't know the DNS server, you can use the same settings as the Default Gateway.

### 4.3.2 Wireless Settings

**Step 1:** Choose “**Settings**” on the top of the camera interface, and go to the “**Network**” panel on the left side of the screen, then click “**Wireless Settings**.”

Click the **Scan** button and the camera will detect all wireless networks around the area. It should also display your router in the list (Figure 4.23).

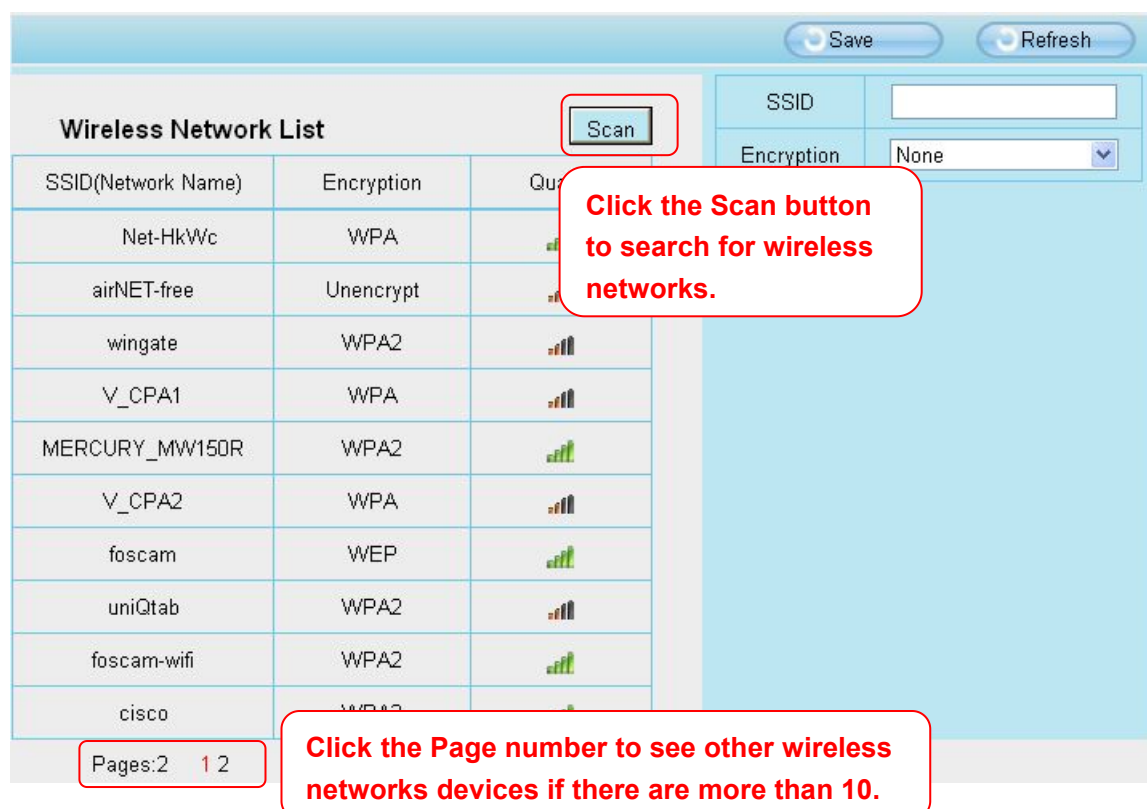


Figure 4.23

**Step 2:** Click the SSID (name of your router) in the list, the corresponding information related to your network, such as the name and the encryption, will be filled into the relevant fields automatically.

You will only need to fill in the password of your network. Make sure that the SSID, Encryption and the password you filled in are exactly the same for your router.

**Wireless Network List** Scan

SSID(Network Name)	Encryption	Quality
ChinaNet-HkVc	WPA	
airNET-free	Unencrypt	
wingate	WPA2	
V_CPA1	WPA	
MERCURY_MW150R	WPA2	
V_CPA2	WPA	
foscam	WEP	
uniQtab	WPA2	
foscam-wifi	WPA2	
<b>cisco</b>	<b>WPA2</b>	

Save Refresh

SSID: cisco

Encryption: WPA2

Password: ••••••••

**2 Enter the password of your router.**

**1 Click the SSID of your router and the relevant information will be filled in the fields automatically.**

Figure 4.24

**Step 3:** Please click on the **Save** button after all settings have been entered and disconnect the network cable. Never shut down the power of the camera until the IP camera is able to connect to the wireless network.

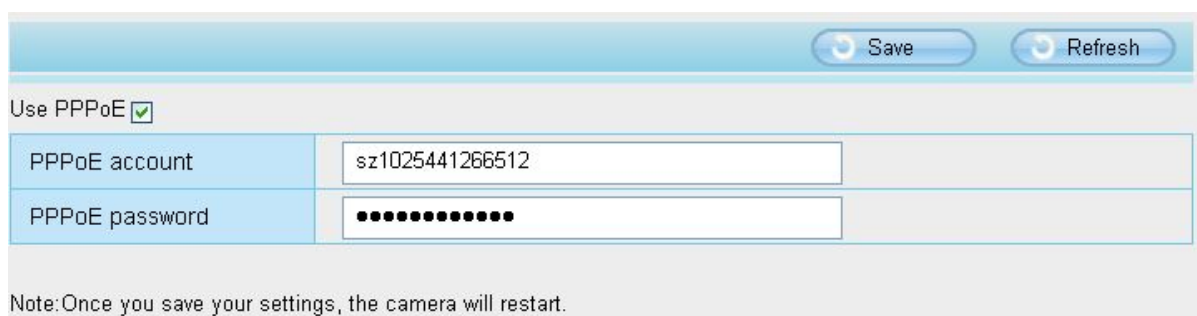
The LAN IP address will disappear on the window of IP Camera Tool when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the window of the IP Camera Tool. The IP address may have changed after the camera receives a wireless connection; we recommend setting a static local IP address if this IP address changes by right clicking the camera in IP Camera Tools, setting a static IP, and pushing OK. Congratulations! You have set up the wireless connection of the camera successfully.

#### NOTE:

If you fail to make a wireless connection, please refer to your seller or contact us directly for assistance.

### 4.3.3 PPPoE

If you are using a PPPoE connection, enable it and enter the User Name and Password for your PPPoE account.



Use PPPoE ☒

PPPoE account	sz1025441266512
PPPoE password	●●●●●●●●

Note: Once you save your settings, the camera will restart.

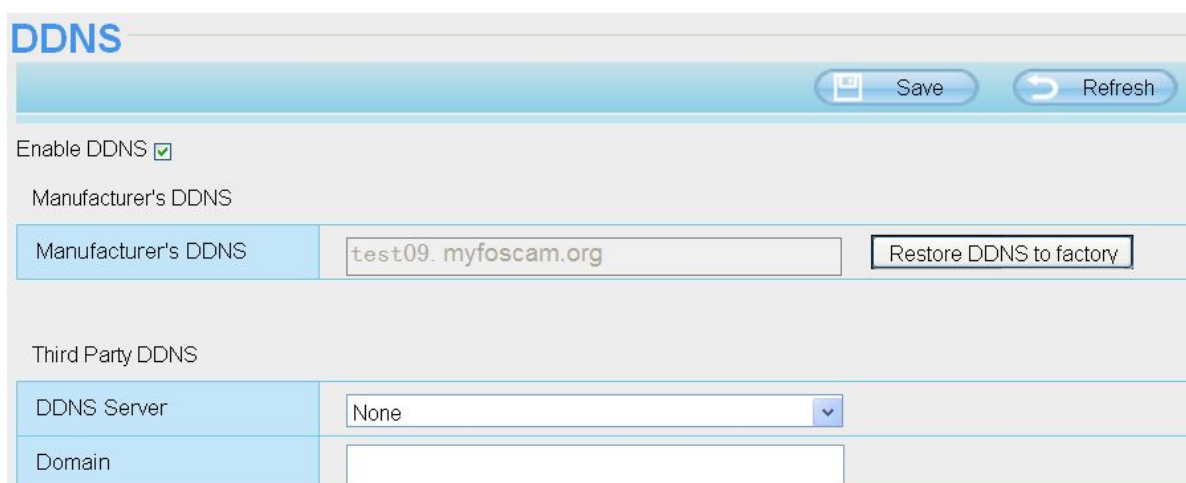
Figure 4.25

### 4.3.4 DDNS

FOSCAM camera has embedded a unique DDNS domain name when producing, and you can directly use the domain name, you can also use the third party domain name.

#### FOSCAM domain name

Here take **test09.myfoscam.org** for example. Go to option of **DDNS** on the **Settings->Network** panel, you can see the domain name.



## DDNS

Enable DDNS ☒

Manufacturer's DDNS

Manufacturer's DDNS	test09.myfoscam.org	Restore DDNS to factory
---------------------	---------------------	-------------------------

Third Party DDNS

DDNS Server	None
Domain	

Figure 4.26

Now you can use **http:// Domain name + HTTP Port** to access the camera via internet.

Take hostname **test09.myfoscam.org** and HTTP Port no. 800 for example, the accessing link of the camera via internet would be [http:// test09.myfoscam.org:800](http://test09.myfoscam.org:800)

**Restore DDNS to factory:** If you have configured Third Party DDNS successfully, but you want to use Manufacturer's DDNS again , here click this button and start Manufacturer's DDNS Service.

#### Third Party Domain Name Settings

User can also use third part DDNS, such as [www.no-ip.com](http://www.no-ip.com) , [www. 3322.com](http://www.3322.com)

Here take [www.no-ip.com](http://www.no-ip.com) for example:

① Step 1, Go to the website [www.no-ip.com](http://www.no-ip.com) to create a free hostname

Firstly: Login on [www.no-ip.com](http://www.no-ip.com) and click No-IP Free to register.

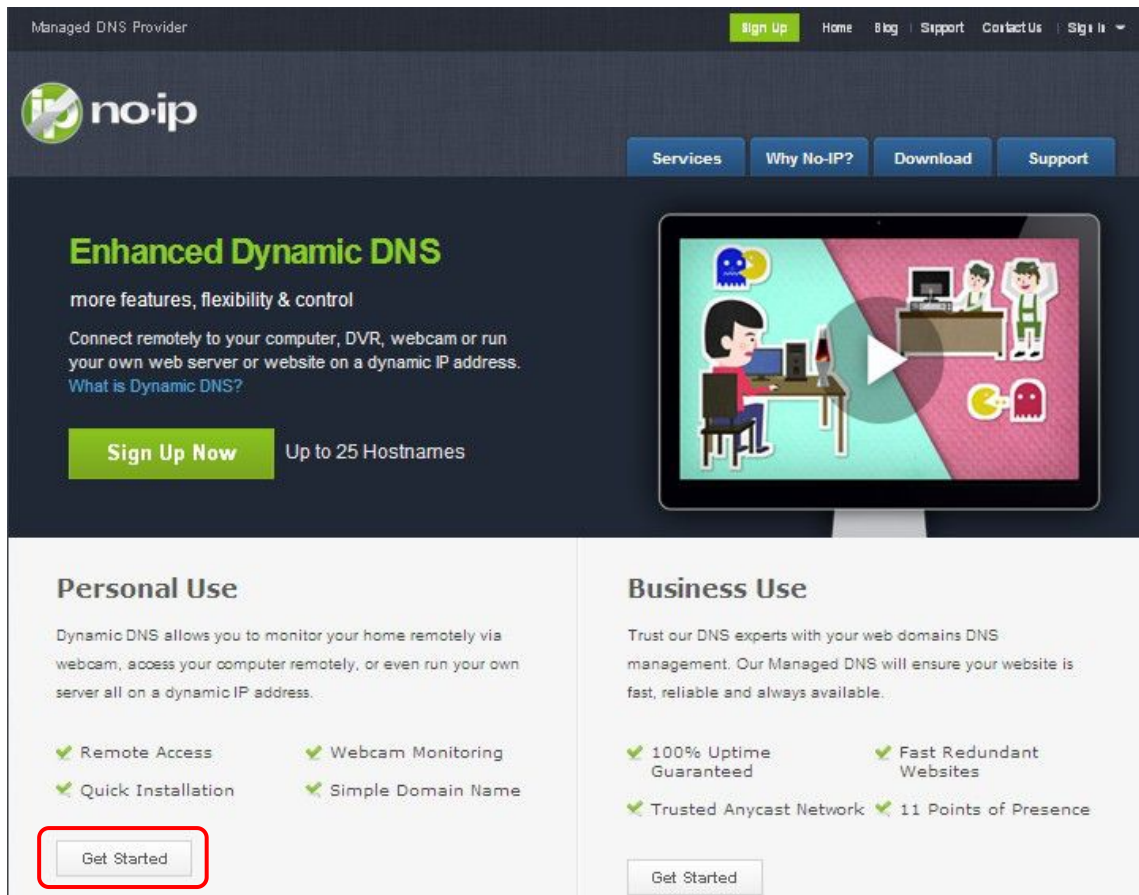


Figure 4.27

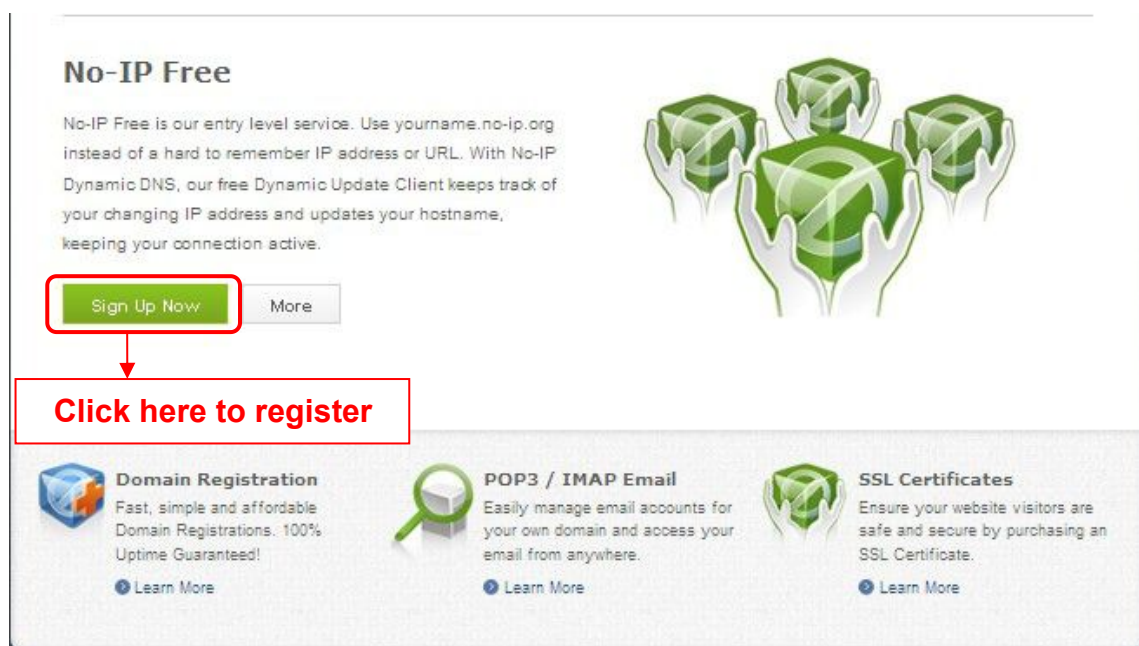


Figure 4.28



Please register an account step by step according to instructions on [www.no-ip.com](http://www.no-ip.com)

After registration, please login your email which used to register. You will receive an email from website, please click the link to activate your ACCOUNT as indicated in email.

Secondly: Login the link with the registered username and password to create your domain name.

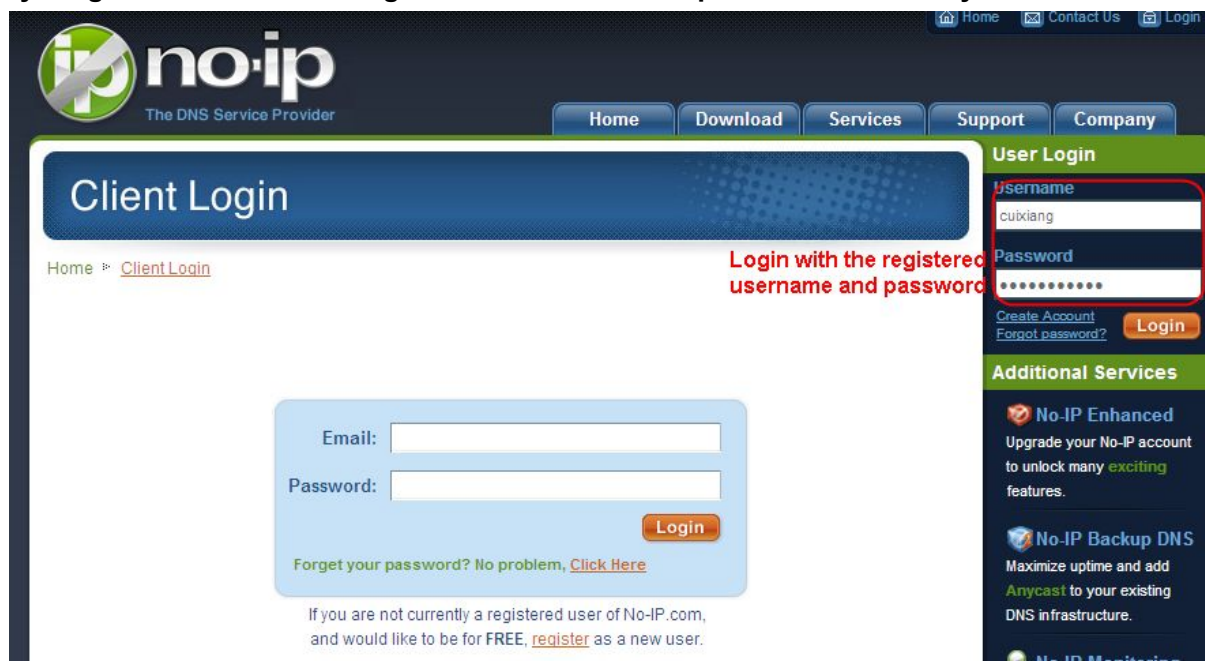


Figure 4.29

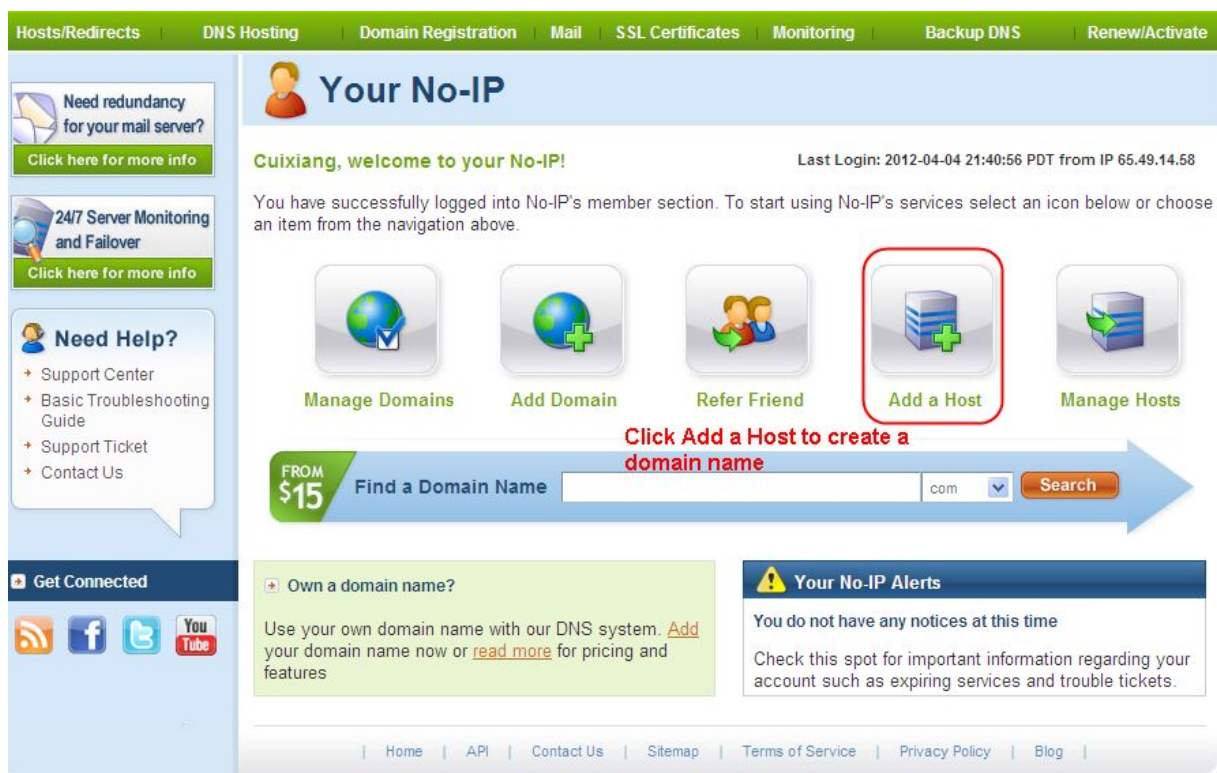


Figure 4.30

Please create the domain name step by step according to instructions on [www.no-ip.com](http://www.no-ip.com)

## Step 2, DO DDNS Service Settings within the Camera

Please set **DDNS Settings** within the camera by **hostname**, a **user name** and **password** you've got from [www.no-ip.com](http://www.no-ip.com)

Take **hostname** [ycxgwp.no-ip.info](http://ycxgwp.no-ip.info), user name [foscam](#), password [foscam2012](#) for example.

**Firstly**, goes to option of **DDNS Settings** on the administrator panel.

**Secondly**, select No-Ip as a server..

**Thirdly**, fill [foscam](#) as DDNS user, fill password [foscam2012](#) as DDNS password, fill [ycxgwp.no-ip.info](http://ycxgwp.no-ip.info) as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

**Fourthly**, after the restart, login the camera, and go to option of **Device Status** on the administrator panel, and check if the DDNS status is successful.

**If failed, please double check if you have input the correct hostname, user name, and password, and try to redo the settings.**

### NOTE:

If you have set Third Party DDNS successfully ,the Foscam Domain Name will be invalid. The Third Party DDNS and the Foscam Domain Name cannot work at the same time, the last time you configured will take effect.

## ② Do port forwarding within the router

**Example:** The camera's LAN IP address is <http://192.168.8.100:2000> , Media port no. is 9200.

**Firstly**, login the router, goes to the menu of **Port Forwarding or Port Trigger** (or named Virtue Server on some brands of router). **Take Linksys brand router as an example, Login the router, and goes to Applications & Gaming->Single Port Forwarding.**

**Secondly**, Create a new column by LAN IP address & HTTP Port No. of the camera within the router showed as below.



Wireless-N Home Router WRT120N

Applications & Gaming

Setup Wireless Security Access Restrictions Applications & Gaming Administration Status

Single Port Forwarding Port Range Forwarding Port Range Triggering DMZ QoS

Single Port Forwarding

Application Name

None

None

None

None

None

Http

Media

External Port	Internal Port	Protocol	To IP Address	Enabled
---	---	---	192.168.8.	<input type="checkbox"/>
---	---	---	192.168.8.	<input type="checkbox"/>
---	---	---	192.168.8.	<input type="checkbox"/>
---	---	---	192.168.8.	<input type="checkbox"/>
2000	2000	Both	192.168.8.100	<input checked="" type="checkbox"/>
9200	9200	Both	192.168.8.100	<input checked="" type="checkbox"/>
---	---	---	192.168.8.	<input type="checkbox"/>

Help...

Assign a name as you like here.

Fill the HTTP Port no. of the camera on the column of External Port and Internal Port.

Fill the Media Port no. of the camera on the column of External Port and Internal Port.

Fill the LAN IP of the camera here, just input the last section.

Figure 4.31

### ③ Use domain name to access the camera via internet

After the port forwarding is finished, you can use the **domain name+ http no.** to access the camera via internet. Take hostname **ycxgwp.no-ip.info** and **http no. 2000** for example, the accessing link of the camera via internet would be **http:// ycxgwp.no-ip.info:2000**

#### 4.3.5 UPnP

Save Refresh

Enable UPnP Yes

Figure 4.32

The default UPnP status is closed. You can enable UPnP, then the camera's software will be configured for port forwarding. Back to the "Device Status" panel, you can see the UPnP status:

## Device Status

Refresh	
Alarm Status	Disabled
Record Status	Not Recording
NTP Status	Disable
DDNS Status	Success <a href="http://aa2022.myfoscam.org:8000">http://aa2022.myfoscam.org:8000</a>
UPnP Status	Success
WiFi Status	Not connected
IR LED Status	Off

Figure 4.33

The camera's software will be configured for port forwarding. There may be issues with your routers security settings, and sometimes may error. We recommend you configure port forwarding manually on your router.

### 4.3.6 Port

This camera supports HTTP Port. HTTP Port is used to access the camera remotely. If you want to access the camera and view the video, the HTTP Port must both be configured correctly.

**HTTP port:** By default, the HTTP port is set to 88. Also, they can be assigned with another port number between 1 and 65535. But make sure they can not be conflict with other existing ports like 25, 21.

Save Refresh	
HTTP Port	88
HTTPS Port	443
ONVIF Port	65533

Figure 4.34

#### Another way to change the HTTP port NO.

**Step 1:** Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 4.32 and 4.33.

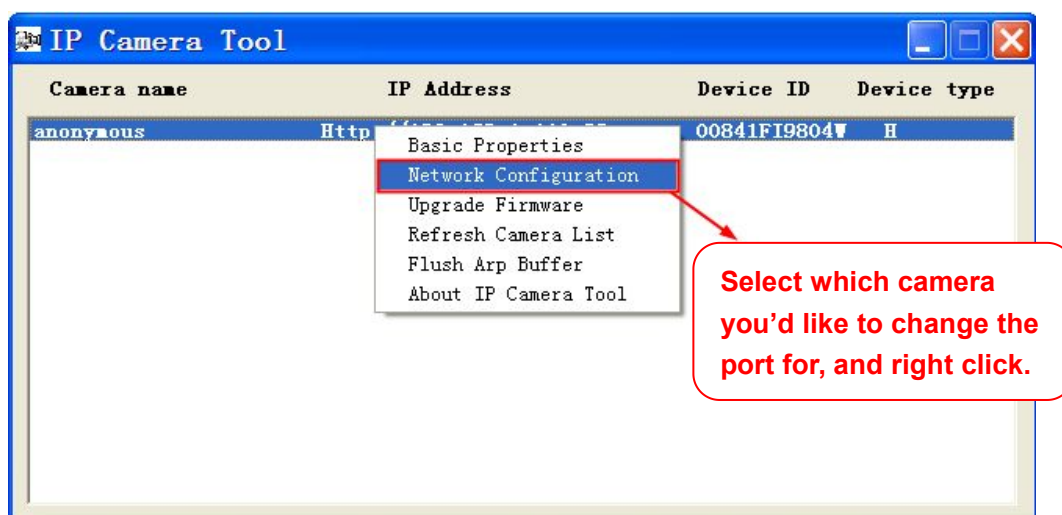


Figure 4.35

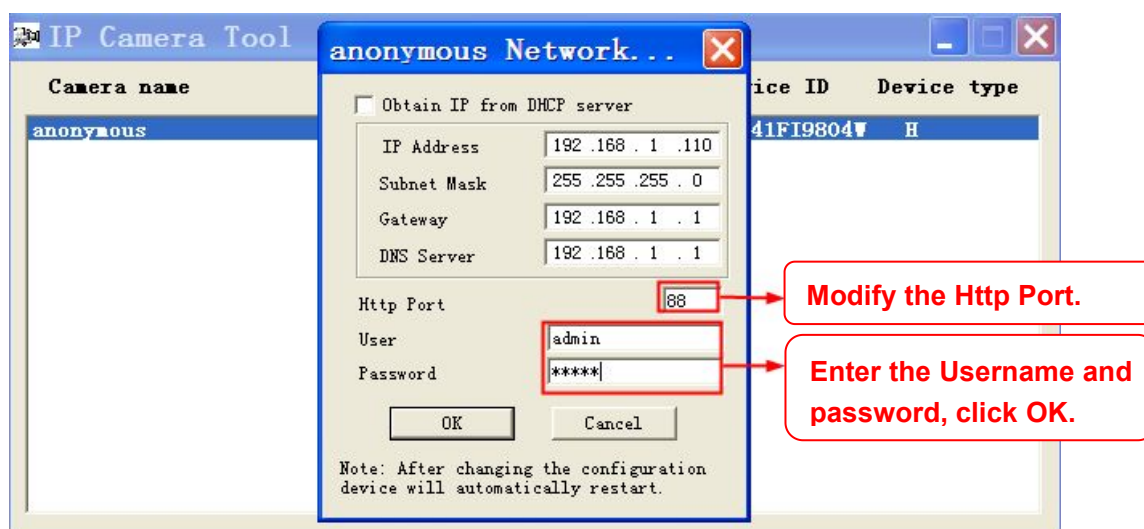


Figure 4.36

**Step 2:** Enter the username and password of the Administrator (default username is admin with a blank password), and click “OK” to apply changes.

**Step 3:** Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.8.102:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.8.102:2000. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!



Camera name	IP Address	Device ID	Device type
anonymous	Http://192.168.1.110:88	00841FI9804W	H

Figure 4.37

**Note:** If the camera cannot be accessed, please make sure the port forwarding is succeed.

**HTTPS port:** The default port is 443. You can use the url to access the camera: **https:// IP + HTTPS port**  
Sometimes you need to add the url to the Trusted Sites.

Open Internet Explorer if it is not already opened. Click on **Tools**, then click **Internet Options**.

Next, click the **Security** tab, then click the **Trusted sites** button.

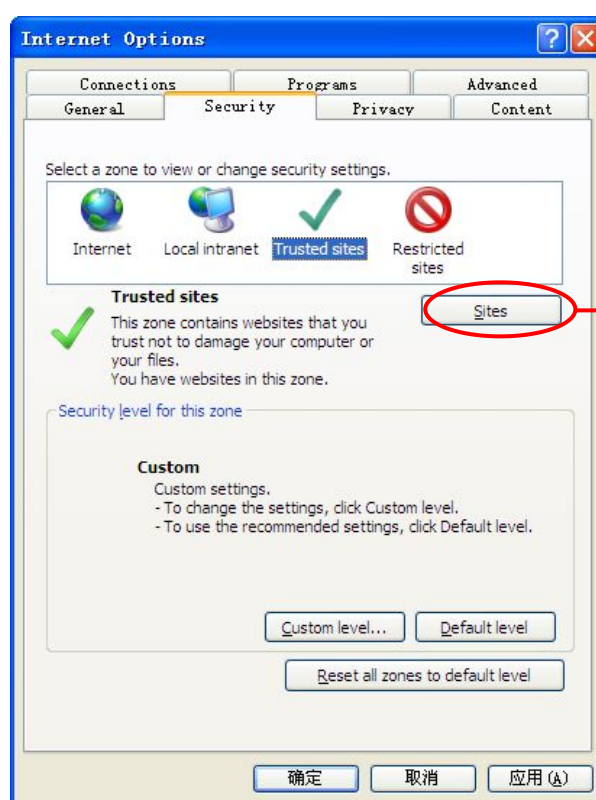


Figure 4.38

Click **Sites** then you can add the camera's https web site to the internet explorer.

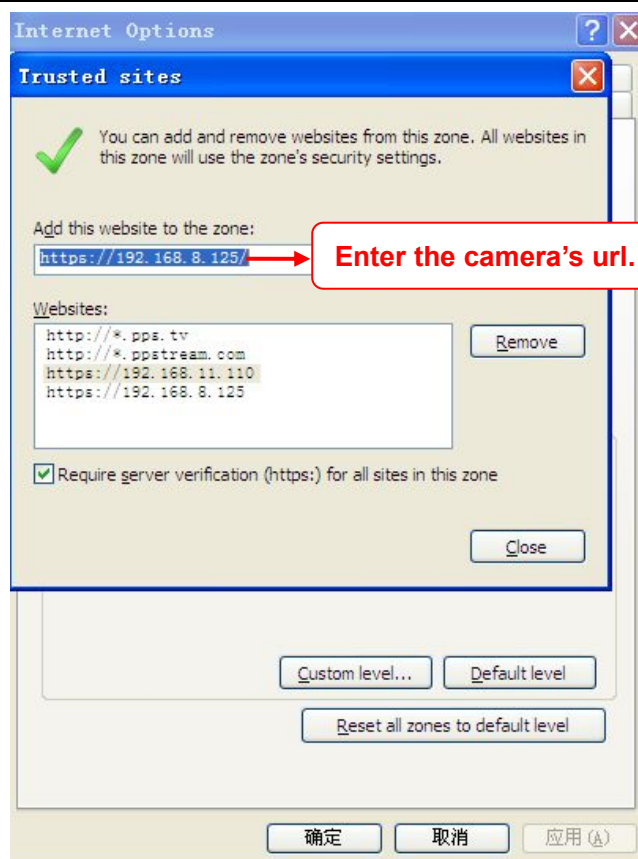


Figure 4.39

For **Firefox**, you can add the trusted as the following way:

Tools ---- Options ---- Advanced --- View Certificates --- Servers

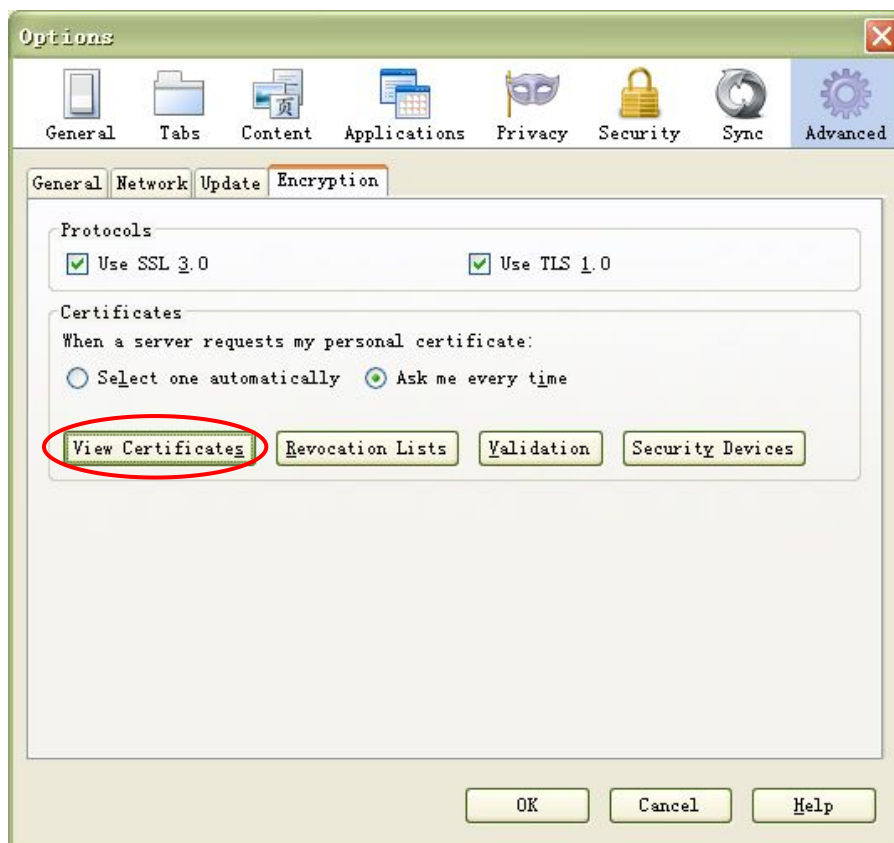


Figure 4.40

Click **View Certificates**, and go to **Servers** option.

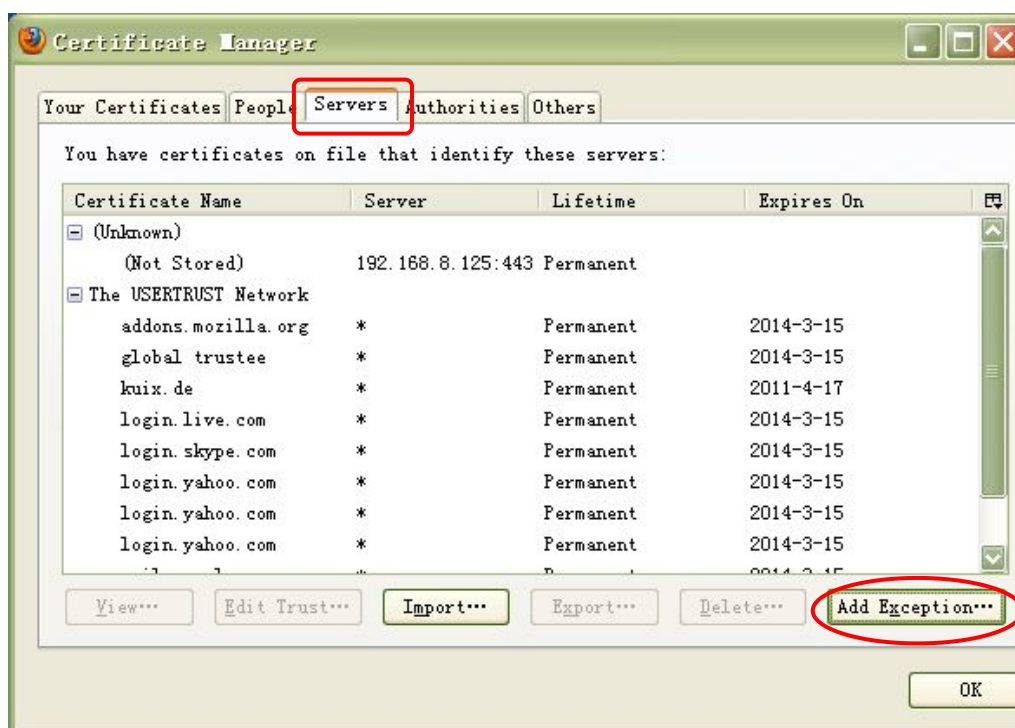


Figure 4.41

Go to **Add Exception** panel.

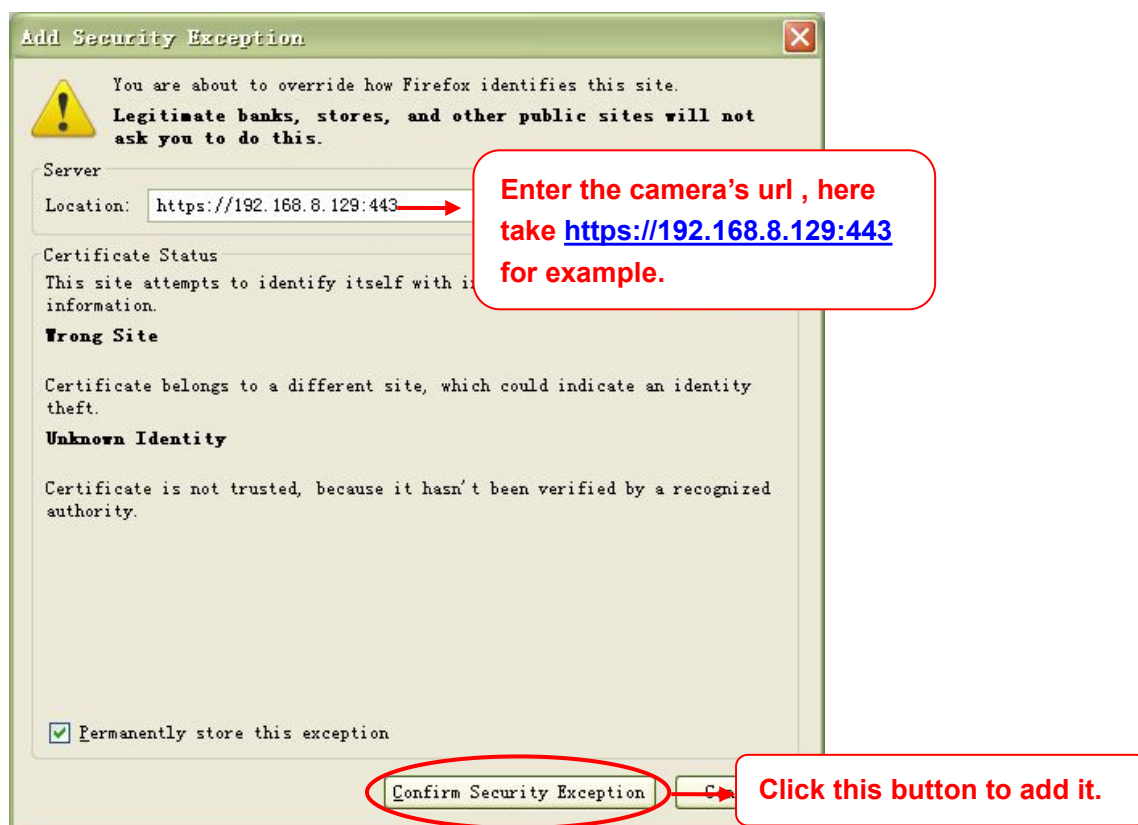


Figure 4.42

**ONVIF port:** By default, the ONVIF port is set to 888. Also, they can be assigned with another port number between 1 and 65535(except 0 and 65534). But make sure they can not be conflict with other existing ports.

### 4.3.7 Mail Settings

If you want the camera to send emails when motion has been detected, here Mail will need to be configured.



The screenshot shows an SMTP configuration form with the following fields and annotations:

- Save** button: Annotated with a red arrow and the number **5**.
- Enable** checkbox: Checked.
- SMTP Server**: `smtp.gmail.com`
- SMTP Port**: `25`
- Transport Layer Security**: `STARTTLS` (dropdown menu). A red box highlights this field and the text below it: "G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25." An arrow points from this box to the number **1**.
- Need Authentication**: `Yes` (dropdown menu).
- SMTP Username**: `cuiyao93@gmail.com`
- SMTP Password**: Masked with dots. A red box highlights this field and the **Test** button next to it. An arrow points from this box to the number **2**. The **Test** button is annotated with a red arrow and the number **6**.
- Sender E-mail**: `cuiyao93@gmail.com`
- First Receiver**: `yaoyao@163.com`
- Second Receiver**: Empty field
- Third Receiver**: Empty field
- Fourth Receiver**: Empty field

Red boxes and arrows are used to group related fields and point to the numbered annotations 1 through 6.

Figure 4.43

**1---- SMTP Server/ Port /Transport Layer Security** Enter SMTP server for sender. **SMTP** port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465, and Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.

**2---- SMTP Username/ password** ID account and password of the sender email address

**3---- Sender E-mail** Mailbox for sender must support SMTP

**4---- Receiver** Mailbox for receiver need not support SMTP,you can set 4 receivers

**5---- Save** Click Save to take effect

**6---- Test** Click Test to see if Mail has been successfully configured.

Click **Test** to see if Mail has been successfully configured.

Save Refresh

Enable ☒

SMTP Server	smtp.gmail.com	
SMTP Port	25	
Transport Layer Security	STARTTLS G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25.	
Need Authentication	No	
SMTP Username	yaoyao@gmail.com	
SMTP Password	••••••••	Test Success → Test result
Sender E-mail	yaoyao@gmail.com	
First Receiver	yaoyao@163.com	
Second Receiver		
Third Receiver		
Fourth Receiver		

Figure 4.44

If the test success, you can see the **Success** behind the Test, at the same time the receivers will receive a test mail.



Figure 4.45

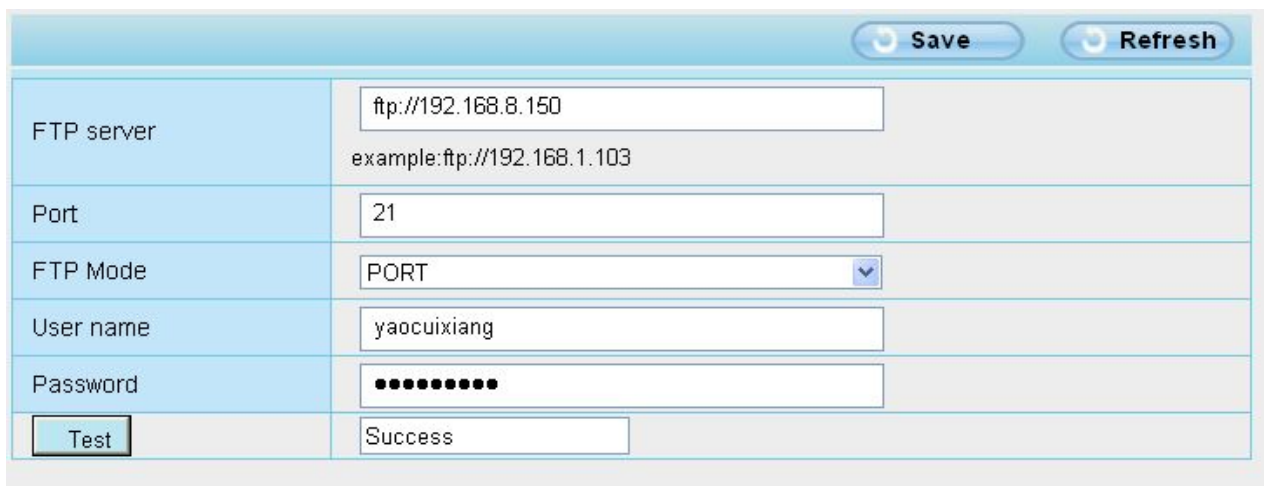
If the test fails with one of the following errors after clicking **Test**, **verify** that the information you entered is correct and again select **Test**.

- 1) Cannot connect to the server
- 2) Network Error. Please try later
- 3) Server Error
- 4) Incorrect user or password

- 5) The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again
- 6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server
- 7) The message is denied by the server. Maybe because of the anti-spam privacy of the server
- 8) The server does not support the authentication mode used by the device

### 4.3.8 FTP Settings

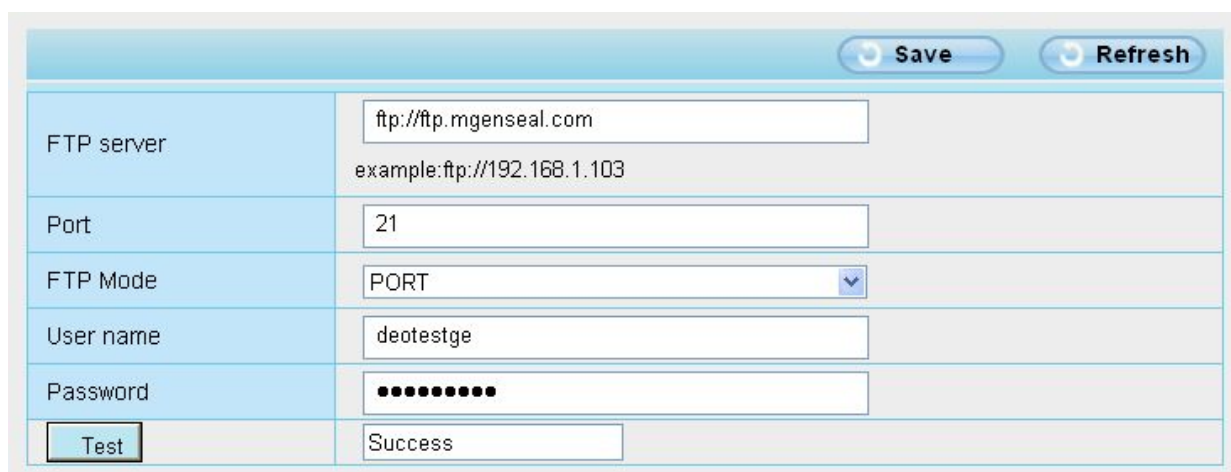
If you want to upload record files and images to your FTP server, you can set **FTP Settings**.



The screenshot shows the 'FTP Settings' window with a light blue header containing 'Save' and 'Refresh' buttons. The settings are as follows:

FTP server	ftp://192.168.8.150 example:ftp://192.168.1.103
Port	21
FTP Mode	PORT
User name	yaocuixiang
Password	••••••••
Test	Success

Figure 4.46



The screenshot shows the 'FTP Settings' window with a light blue header containing 'Save' and 'Refresh' buttons. The settings are as follows:

FTP server	ftp://ftp.mgenseal.com example:ftp://192.168.1.103
Port	21
FTP Mode	PORT
User name	deotestge
Password	••••••••
Test	Success

Figure 4.47

**FTP server:** If your FTP server is located on the LAN, you can set as Figure4.43.

If you have an FTP server which you can access on the internet, you can set as Figure 4.44

**Port:** Default is port 21. If changed, external FTP client program must change the server connection port accordingly.

**FTP Mode:** Here supports two modes: PORT and PASV.

**Username/password:** The FTP account and password.

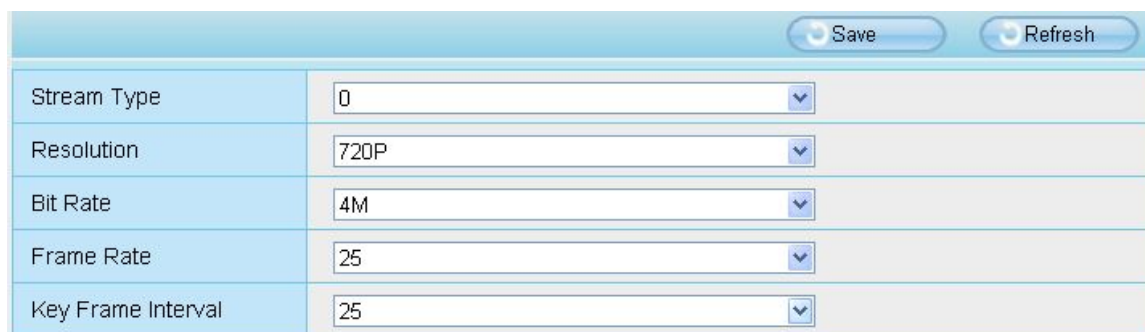
Click **Save** to take effect.

Click **Test** to see if FTP has been successfully configured.

## 4.4 Video

This section allows you to configure Video stream settings, On screen display and Snapshot settings.

### 4.4.1 Video Settings



<div>Save</div> <div>Refresh</div>	
Stream Type	0
Resolution	720P
Bit Rate	4M
Frame Rate	25
Key Frame Interval	25

Figure 4.48

**Stream type:** There are four types to identify different streams you have set.

**Resolution:** The camera supports three types: 720P, 960P, VGA. The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth.

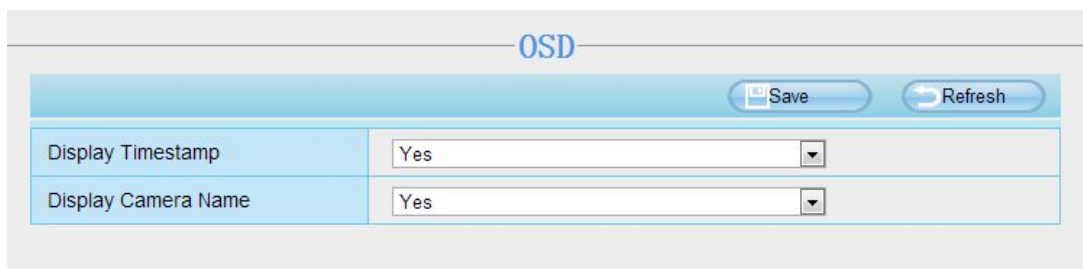
**Bit rate:** Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate is large, that will lead to video can not play well.

**Frame rate:** Note that a larger frame size takes up more bandwidth. When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

**Key Frame Interval:** The time between last key frame and next key frame. The shorter the duration, the more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

### 4.4.2 On Screen Display

This page is used to add timestamp and device name on the video.



OSD	
<div>Save Refresh</div>	
Display Timestamp	Yes
Display Camera Name	Yes

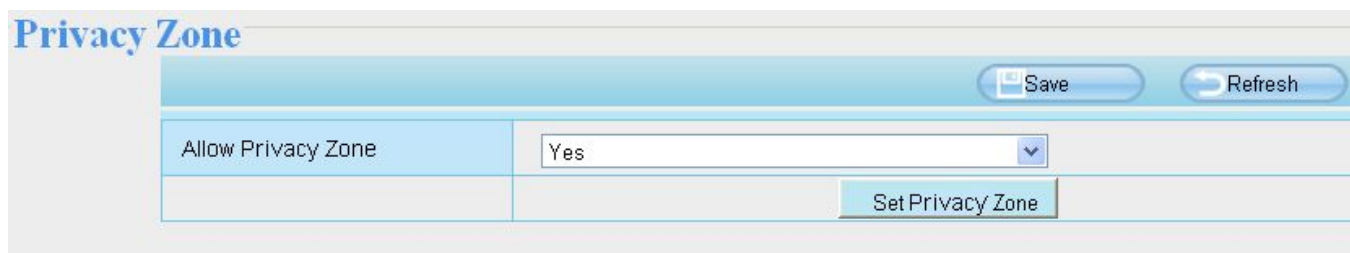
Figure 4.49

**Display Timestamp:** There are two options: Yes or NO. Select Yes and you can see the system date on the video,

**Display Camera Name:** There are two options: Yes or NO. Select Yes and you can see the device name on the video.

### 4.4.3 Privacy Zone

This page is used to set some mask as privacy zone on the video.



Privacy Zone	
<div>Save Refresh</div>	
Allow Privacy Zone	Yes
<div>Set Privacy Zone</div>	

Figure 4.50

**Allow On Screen Display Mask:** There are two options: Yes or NO. Select yes and draw a mask area on the video, the mask area will be black on the video.





Figure 4.51

Click **Back** button and return to the OSD page, click Save to take effect.

Back to the surveillance window, you can see the mask area as the following picture:

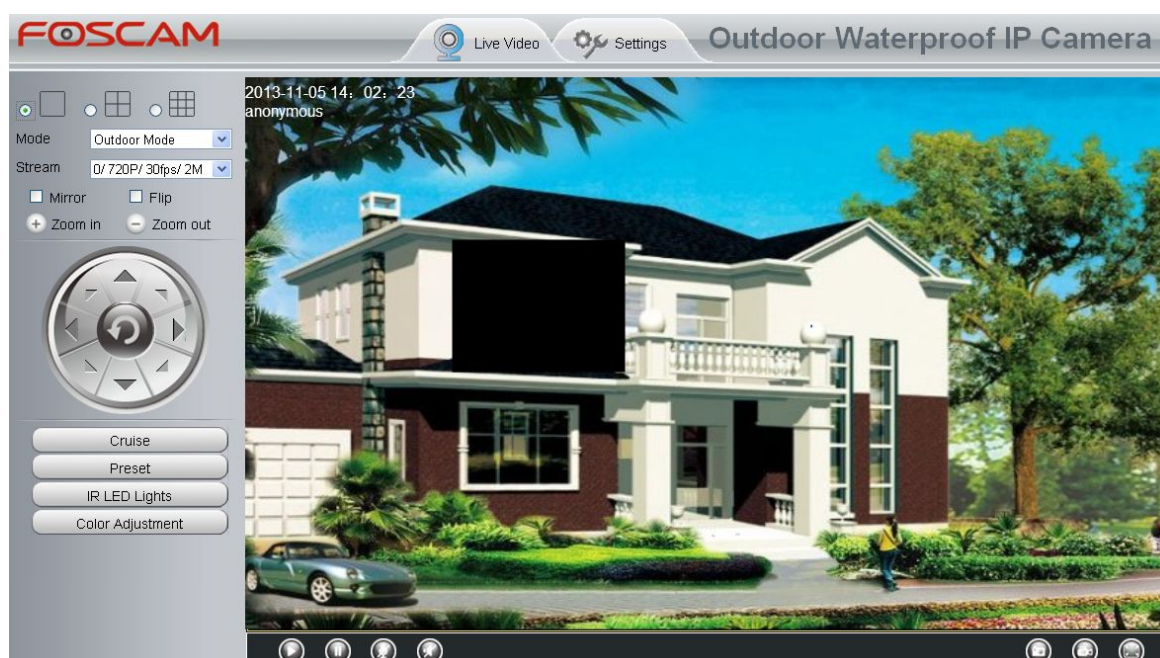


Figure 4.52



## 4.4.4 Snapshot Settings

On this page you can set the snapshot pictures' image quality and the storage path.

Figure 4.53

**Image Quality:** Low, Middle and High. The higher the quality, the picture will be clearer.

**Alarm Pictures Save Path:** FTP. If you have done FTP and Alarm settings, when alarming, the camera will snap pictures to the FTP automatically.

### Enable timing to capture

To enable capture interval, follow the steps below:

- 1 Select Enable timing to capture
- 2 Capture interval: The interval time between two captures.
- 3 Select the capture time
  - Capture anytime  
Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the camera will capture.
  - Specify an capture schedule  
Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, the camera will capture.
  - Press the left mouse and drag it on the time boxes, you can select the serial area,
- 4 Click **Save** button to take effect.

## 4.5 Alarm

### 4.5.1 Motion Detection

IP Camera supports **Motion Detection Alarm**, when the motion has been detected, it will send emails or upload images to FTP.

### Motion Detection

Enable ☒ **1**

Sensitivity  **2**

Triggered Interval  **3**

Action

☐ Ring
 ☐ Send E-mail
 ☐ Take Snapshot
  Time Interval
 
**4**

☐ IO Output

**5**

**6**

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
SUN																								

Figure 4.54

To enable motion detection, follow the steps below:

#### Step 01: Enable Motion detection

**Step 02: Sensitivity**---- It supports three modes: Low, Middle and High. The higher the sensitivity, the camera will be more easily alarmed. Select one motion sensitivity.

**Step 03: Trigger interval**--- The interval time between two motion detections. Here supports 5s/6s/7s/8s/9s/10s/11s/12s/13s/14s/15s. Select one interval time.

#### Step 04: Select the alarm indicator

When the motion has been detected, the alarm status will turn to Detect alarm.

Refresh	
Alarm Status	Detect alarm
Record Status	Recording
SD Card Status	SD card
SD Card Free Space	3.0G
SD Card Total Space	3.6G
NTP Status	Disable
DDNS Status	Success <a href="http://test09.myfoscam.org:88">http://test09.myfoscam.org:88</a>
UPnP Status	Success
WiFi Status	Connected to:foscam-wifi
IR LED Status	Off

Figure 4.55

### There are four alarm indicators:

#### A Ring

There is an embedded speaker inside the camera, so if you select Ring, when the motion has been detected, the people around the camera will hear beep alarm sound.

#### B Send E-mail

If you want to receive alarm emails when motion is detected, you must select Send E-mail and set Mail Settings first. The alarm email cannot contain the alarm picture if you have not selected Take Snapshot.

#### C Take Snapshot

If you select this checkbox, when the motion has been detected, the camera will snap the live view window as a still picture and load it to the FTP. Make sure you have set FTP and set FTP as the storage path in Video->Snapshot settings panel.

If you select Send Email, at the same time the picture will be send to you as an attachment.

**Capture interval:** The interval time between two pictures.

#### D IO Output

If IO alarm is triggered and IO alarm output device will always alarm (sound alarm is issued a warning sound, alarm lights in flash etc.). Click "Clear IO alarm output", the alarm output device will stop alarming. If IO alarm is triggered again after alarm interval, IO alarm output device will be restart.

### Step 05: Set detect area

Click set detect area and it pop up a window, then you can draw the detection area. Click **OK** button after settings. When something moving in the detection area, the camera will alarm.

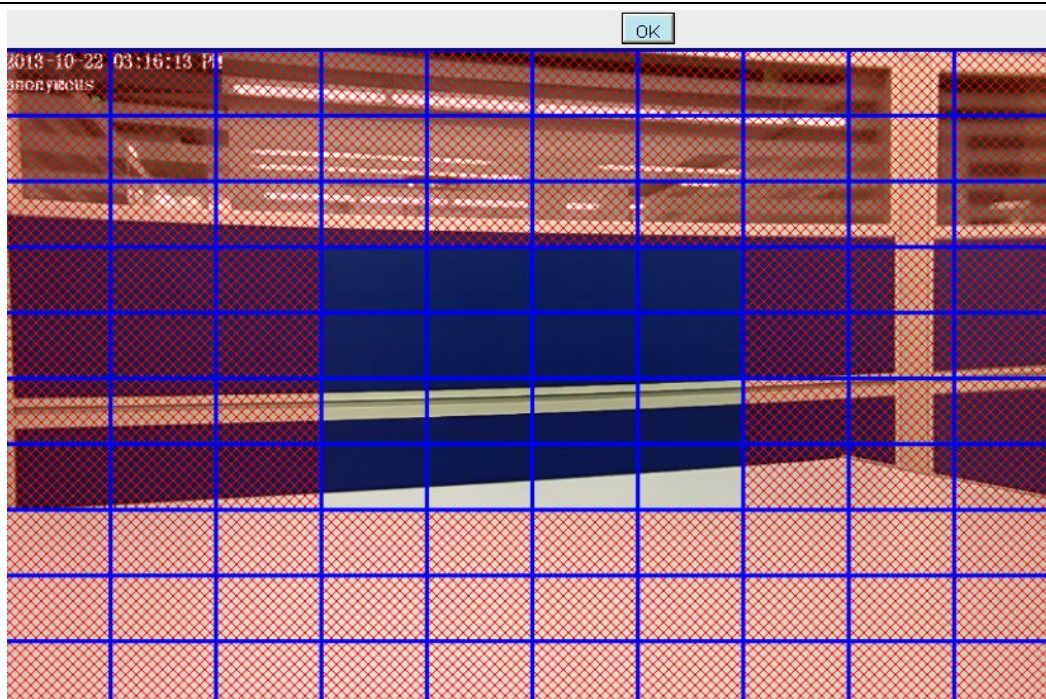


Figure 4.56

**Step 06: Alarm Schedule**

① Alarm anytime when motion is detected

Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the camera will alarm.

Action	Ring <input type="checkbox"/>																							
	Send E-mail <input type="checkbox"/>																							
	Take Snapshot <input type="checkbox"/>	Time Interval <input type="text" value="2s"/>																						
	IO Output <input type="checkbox"/>	<input type="button" value="Clear IO Alarm Output"/>																						
<input type="button" value="Set Detection Area"/>																								
<div style="border: 1px solid red; padding: 5px; color: red; text-align: center;">             Click this button and select all time range.           </div>																								
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								

Figure 4.57

② Specify an alarm schedule



Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, when something moving in the detection area, the camera will alarm.

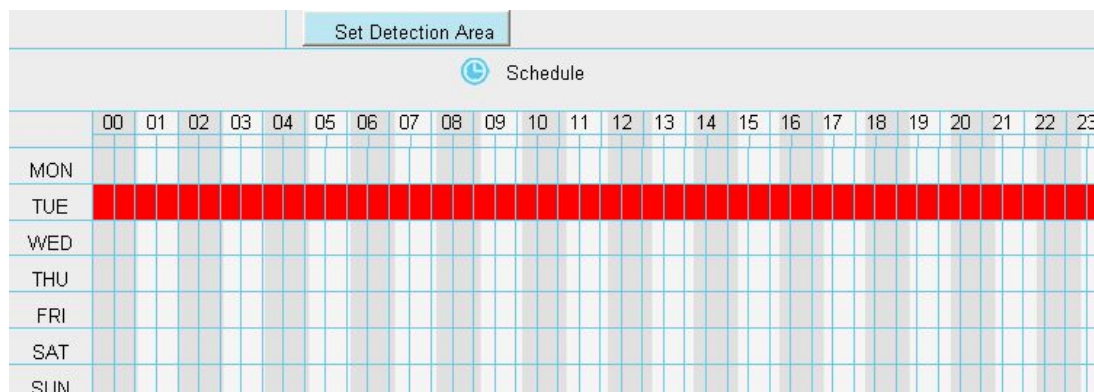


Figure 4.58

③ Press the left mouse and drag it on the time boxes, you can select the serial area,

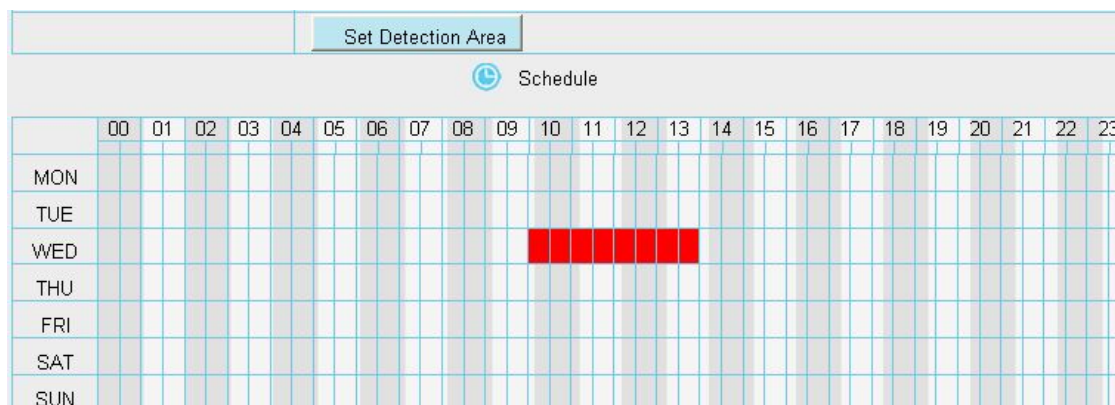


Figure 4.59

#### Step 07: Click Save button to take effect.

When the motion has been detected during the detection time in the detection area, the camera will alarm and adopt the corresponding alarm indicators.

**NOTE:** You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.

### 4.5.2 IO Alarm

This IP camera provides a I/O alarm terminal block which is used to connect to external input / output device. The alarm device(door sensor, infrared sensor, smoke detectors, etc) send input command to the network camera, then the network camera send output command to the alarm output device(local audible alarm, lights alarm,etc.).

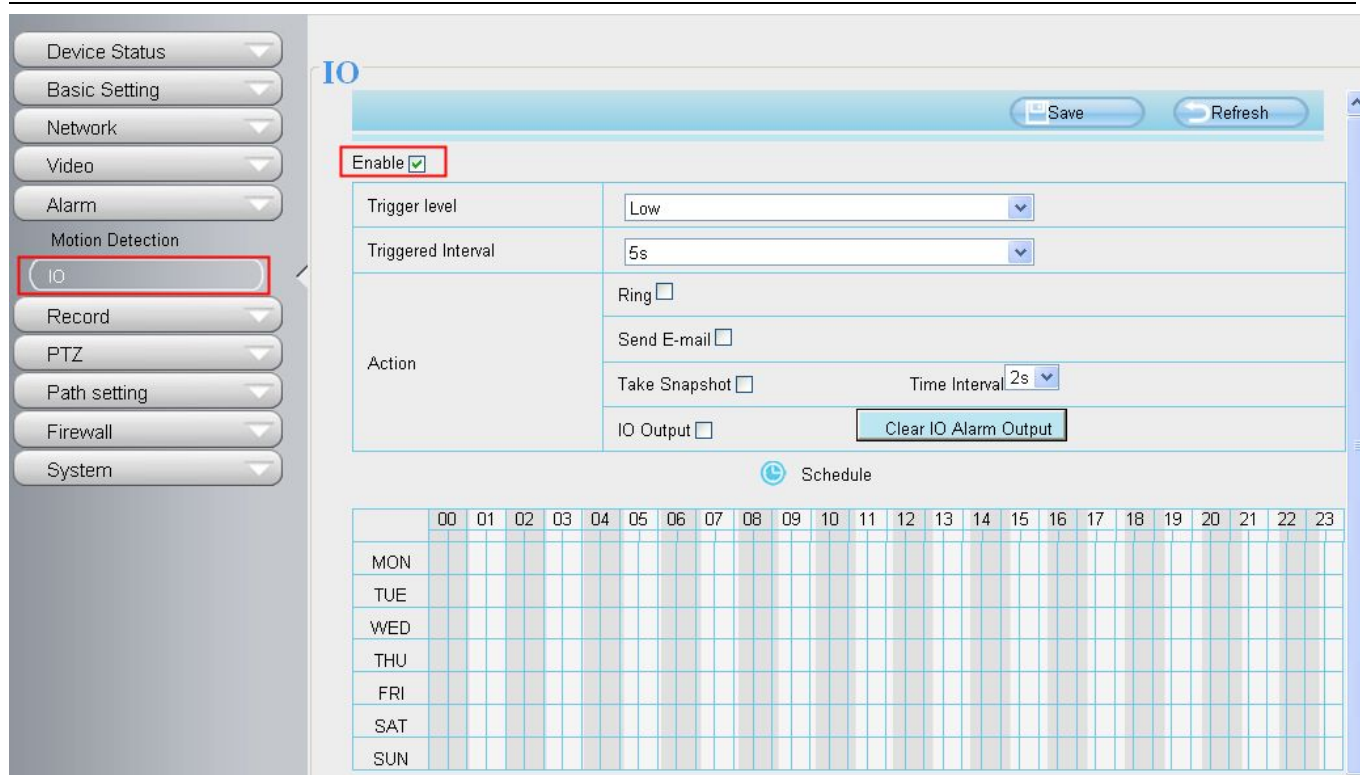


Figure 4.60

There is an IO alarm input/output lines in the FOSCAM camera tails, as shown in Figure 4.608. Enable IO alarm need this cable to connect to the alarm device (door sensor, infrared sensor, smoke detector, etc.).

I/O Alarm has four ports:

- Port 1 and port 2 indicate IO alarm input
- Port 3 and port 4 indicate IO alarm output



Figure 4.61



## Setting IO alarm

On the IO page, Enable the I/O alarm, select the “**Send E-mail**” and “**Snapshot**” before you have configured the mail and FTP.

IO

Save Refresh

Enable ☒

Trigger level Low

Triggered Interval 5s

Action

Ring ☐

Send E-mail ☒

Take Snapshot ☒ Time Interval 2s

IO Output ☐ Clear IO Alarm Output

Schedule

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MON

TUE

WED

THU

FRI

SAT

SUN

Click this button and select all time range.

Figure 4.62

If an IO alarm is triggered and IO alarm output device will always alarm (sound alarm is issued a warning sound, alarm lights in flash etc.). Click "Clear IO alarm output" , the alarm output device will stop alarming. If IO alarm is triggered again after alarm interval, IO alarm output device will be restart.

**IO**

Save Refresh

Enable ☒

Trigger level Low

Triggered Interval 5s

Action

Ring ☐

Send E-mail ☒

Take Snapshot ☒ Time Interval 2s

IO Output ☒ Clear IO Alarm Output

Schedule

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
SUN																								

Figure 4.63

**Note:** motion detection alarm can also be triggered IO alarm output.

**Motion Detection**

Save Refresh

Enable ☒

Sensitivity Medium

Triggered Interval 10s

Action

Ring ☐

Send E-mail ☐

Take Snapshot ☐ Time Interval 2s

IO Output ☒ Clear IO Alarm Output

Set Detection Area

Schedule

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
SUN																								

Figure 4.64

## 4.6 Record

### 4.6.1 Storage Location

On this page you can change the manually recording storage path, the default storage path is D:\ipc.

**Storage Location**

Recording Location: FTP

Local Recording Location: D:\ipc

Recording Location is used for alarm recordings and schedule recordings.

The local recording must be stored in local storage. The default Windows storage location is "c:\IPCamRecord". The default Mac OS storage location is "/IPCamRecord". If you modify the path on other Foscam cameras, this default storage location will be modified accordingly.

Figure 4.65

### 4.6.2 Alarm Recording

**Alarm Recording**

Enable Pre-Record ☒

Pre-recorded Time: 5s

Alarm Record Time: 30s

Figure 4.66

### 4.6.3 Local Alarm Recording

On this page you can enable local alarm record, and select the local alarm record time.

**Local Alarm Record**

Whether to open the PC sound alarm: No

Enable Local Alarm Record ☒

Local Alarm Record Time: 30s

When the PC sound alarm is enabled, the PC will make a sound only in Live Video page while the IPC detected an alarm

Figure 4.67

## 4.6.4 Schedule Recording

On this page you can enable schedule record.

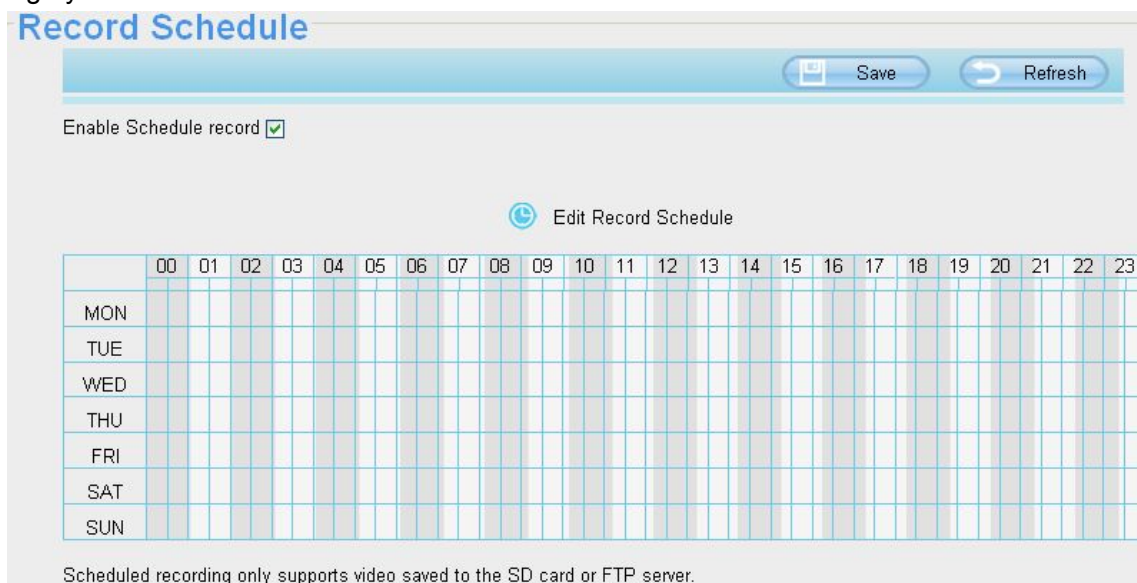


Figure 4.68

## 4.7 PTZ

This page will allow you to change the pan/tilt speed and do cruise tracks settings.

### 4.7.1 Pan/Tilt Speed

There are five Pt speed types: very fast, fast, normal, slow and very slowly. Select the desired PTZ speed type and click save button.

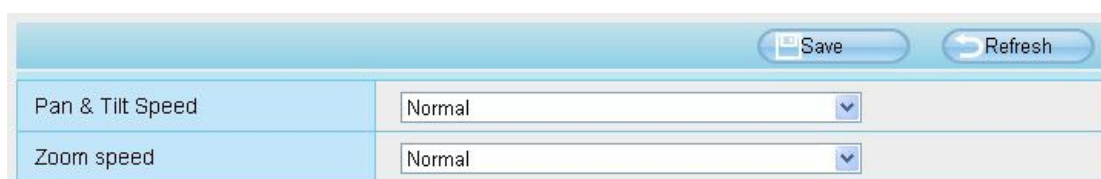


Figure 4.69

### 4.7.2 Cruise Settings

This section explains how to add/ delete/ alter one cruise track.

**Cruise Time:** Select the time from dropdown list.

There are two default cruise tracks: Vertical and Horizontal.

**Vertical:** The camera will rotate from up to down

**Horizontal:** The camera will rotate from left to right.

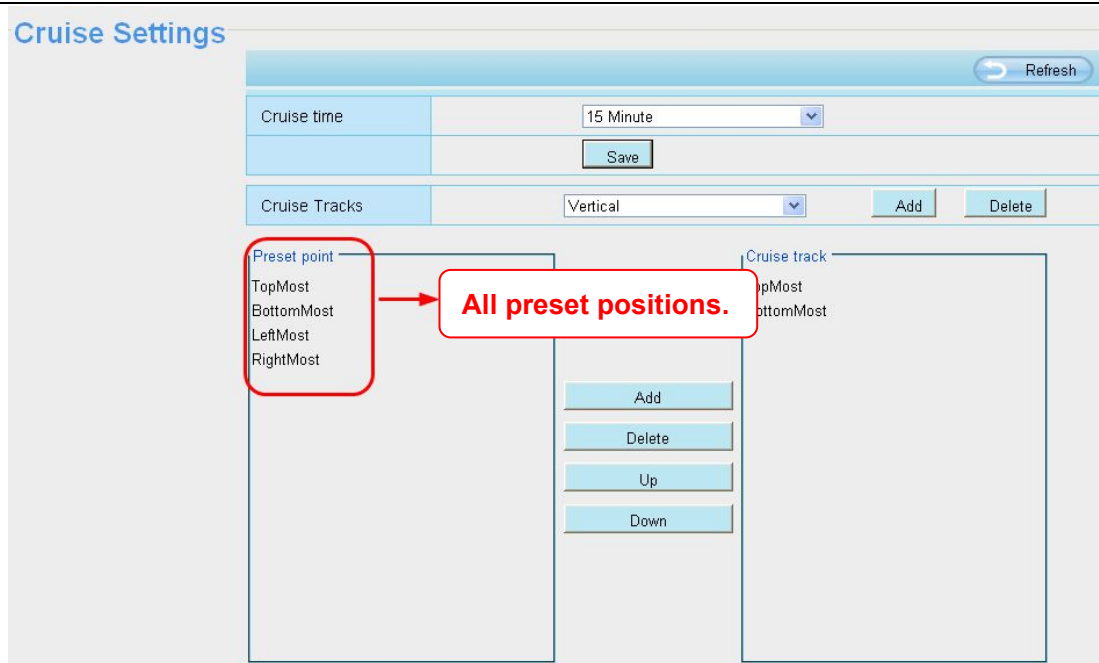


Figure 4.70

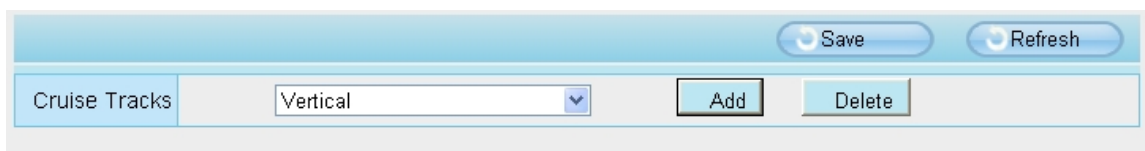


Figure 4.71

**Add:** Add one cruise track.

**Delete:** Select one cruise track and delete it.

## How to do add cruise tracks ?

**Firstly,** Click Add button and enter a descriptive name to identify the cruise track

**Secondly:** On the lower left of the page, you can see all preset points you have added. Select one preset point and click Add button, you can see the preset point has been added to the cruise track on the cruise track page. You need to add two or more preset points to the cruise track.

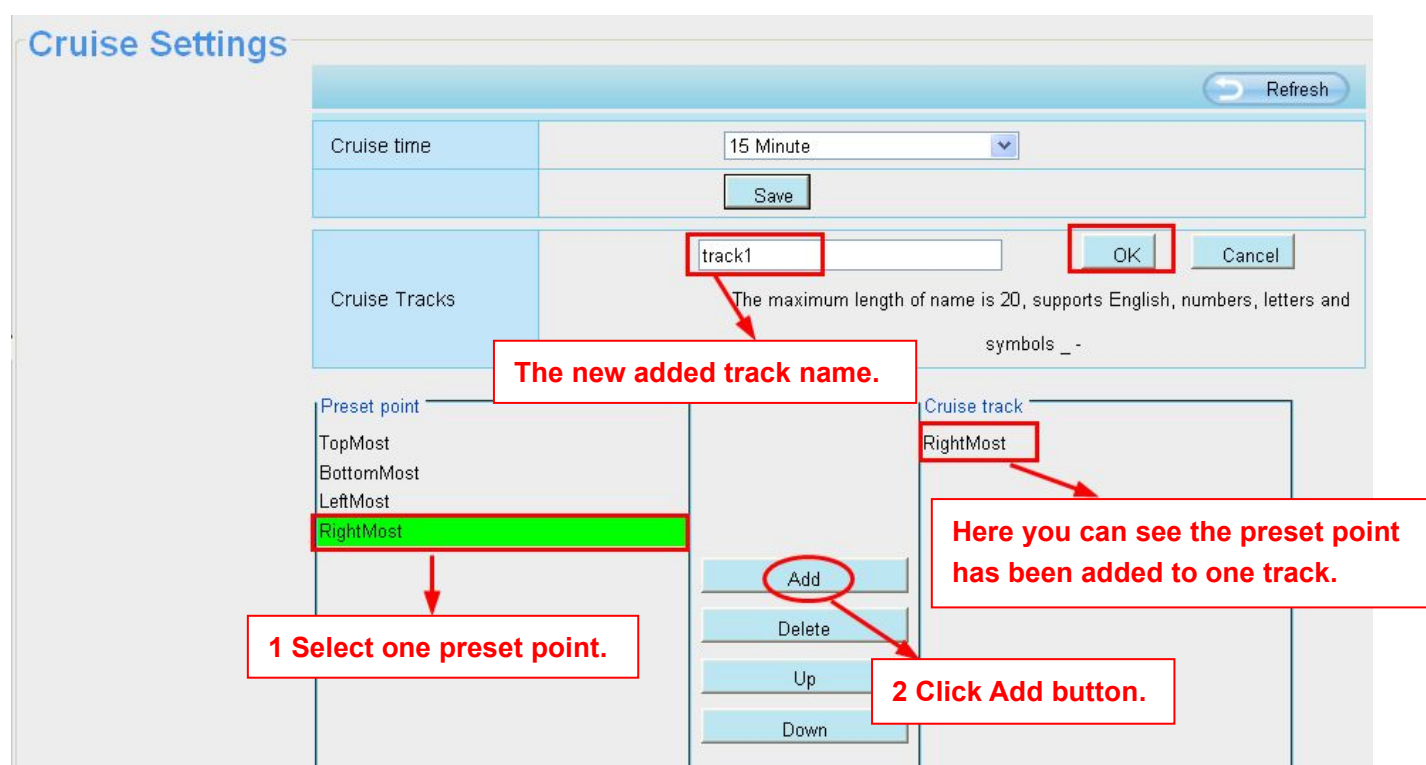


Figure 4.72

**Thirdly:** Click **OK** button and the cruise track will take effect.

You can add other cruise track as the same method.

For example: I have added three preset points to the “track 1”, that means : When I select the “track 1” on the surveillance window, the camera moves as the following track: upright then Right Most last downleft.



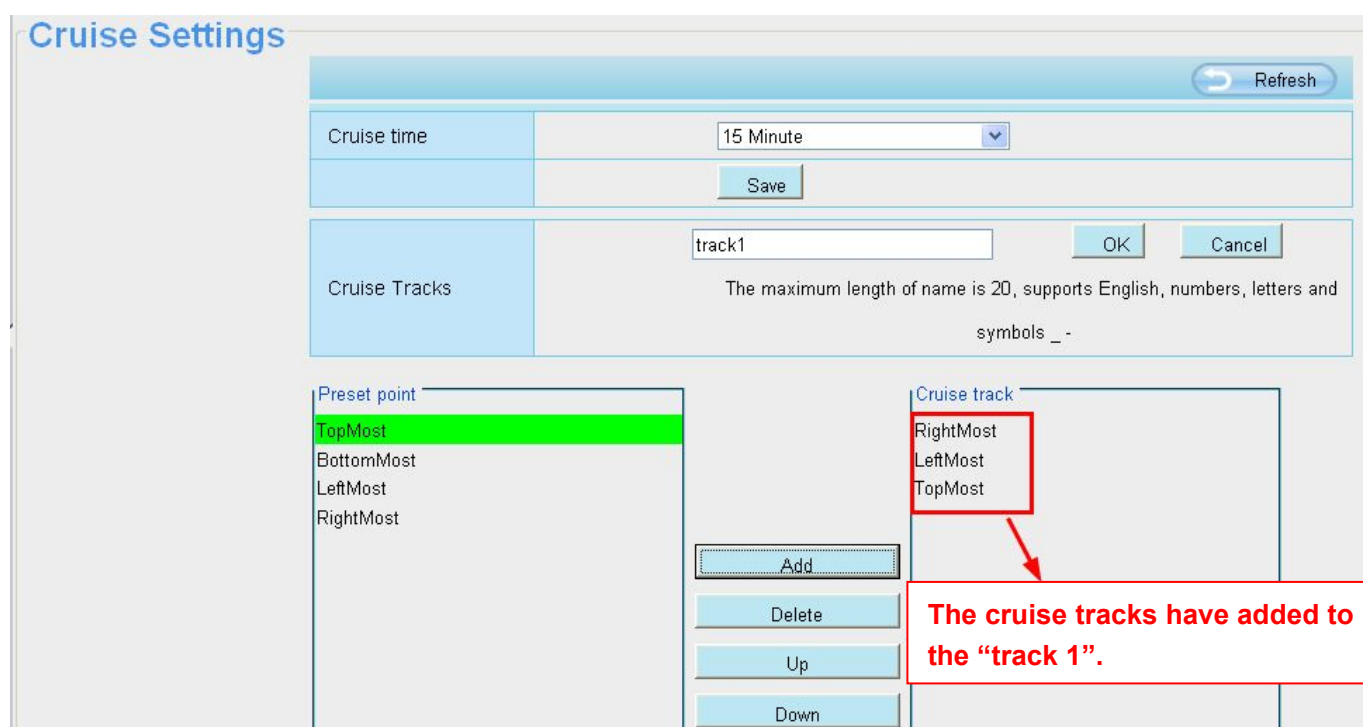


Figure 4.73

After add the cruise track, back to the surveillance window, click Cruise, here you can see all cruise tracks you have added.



Figure 4.74

There are other buttons between the Preset points and Cruise track, you can use these buttons to adjust the order of preset points or add/delete one preset points in one cruise track,

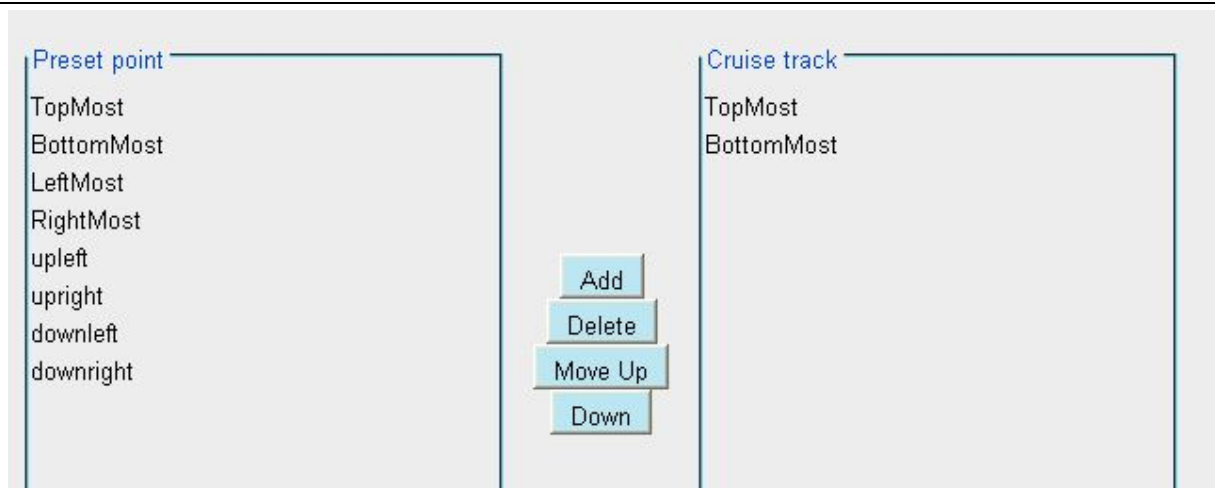


Figure 4.75

**Add:** Select one preset points and add it to the selected cruise track.

**Delete:** Select one preset points you have added to one cruise track, click delete.

**Move up/ down:** Select one cruise track, adjust the order of preset points in one cruise track.

**Attention:** Considering the life time and thermal issue of the motor, it's not recommend to do long-time cruise.

### 4.7.3 Start-Up Options

Here section will allow you to set the stop position after the camera reboots.

It supports three modes: No self test, Goto home position and Goto preset point.

**No self test:** When rebooting, the camera will not pan / tilt.

**Goto home position:** When rebooting, the camera will pa Providing Central Management Software to manage or monitor multi-cameras n / tilt and stops at center.

**Goto Preset point:** Select one preset position and save it. When rebooting, the camera will pan/ tilt and stops at the preset position you have set.

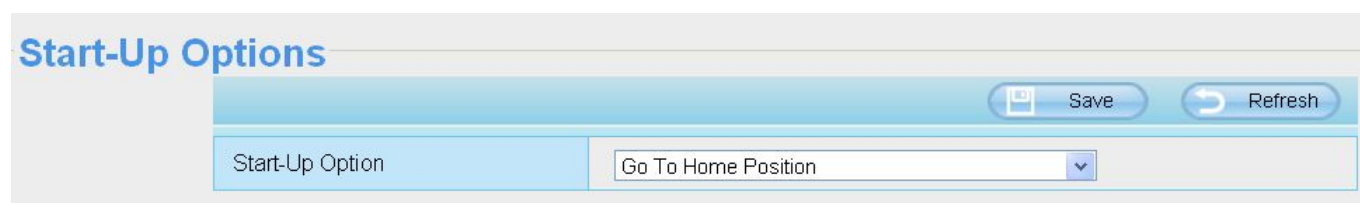


Figure 4.76

## 4.8 Firewall

This section explains how to control the access permission by checking the client PC's IP addresses. It is composed of the following columns: **Block access from these IP addresses** and **Only allow access from these IP addresses**.

IP Filtering	
	<div>Block access from these IP addresses</div> <div>Block access from these IP addresses</div> <div>Only allow access from these IP addresses</div>
IP Address #1	<input type="text"/>
IP Address #2	<input type="text"/>
IP Address #3	<input type="text"/>
IP Address #4	<input type="text"/>
IP Address #5	<input type="text"/>
IP Address #6	<input type="text"/>
IP Address #7	<input type="text"/>
IP Address #8	<input type="text"/>

Figure 4.77

Enable firewall, If you select **Only allow access from these IP addresses** and fill in 8 IP addresses at most, only those clients whose IP addresses listed in the **Only allow access from these IP addresses** can access the Network Camera. If you select **Block access from these IP addresses**, only those clients whose IP addresses are in the IP list cannot access the Network Camera.

Click **Save** to take effect.

## 4.9 System

In this panel, you can backup/restore your camera settings, upgrade the firmware to the latest version, restore the camera to default settings and reboot the device.

### 4.9.1 Back-up& Restore

Click **Backup** to save all the parameters you have set. These parameters will be stored in a bin file for future use.

Click **Browse** and select the parameters file you have stored, then click **Submit** to restore the restore the parameters.

Backup is used to save your current settings. It is recommended to backup your configuration before modifying or upgrading firmware.

Settings can be restored by uploading the backup file.

Path:

Note:

1. All current settings will be lost when importing a configuration file. If an incorrect file is loaded, the camera may stop working correctly.
2. Keep the power on during this process, or you may damage your camera. Your camera will reboot automatically once restoration is completed.

Figure 4.78

## 4.9.2 System Upgrade

Your current firmware version will be displayed on your screen. You may go to the **Device Status** → **Device Information** Page to check for the latest firmware versions available.

Click **Browse**, choose the correct bin file and then click **System upgrade**.

Don't shut down the power during upgrade. After upgrading, you can see the upgrade result.

Upgrade Result

Figure 4.79

## Upgrade Firmware by IP Camera Tool




Double click the IP Camera Tool shot icon , select the Camera IP that you want to upgrade the firmware. Then select Upgrade Firmware and enter the username and password, choose the firmware file, and upgrade.



Figure 4.80

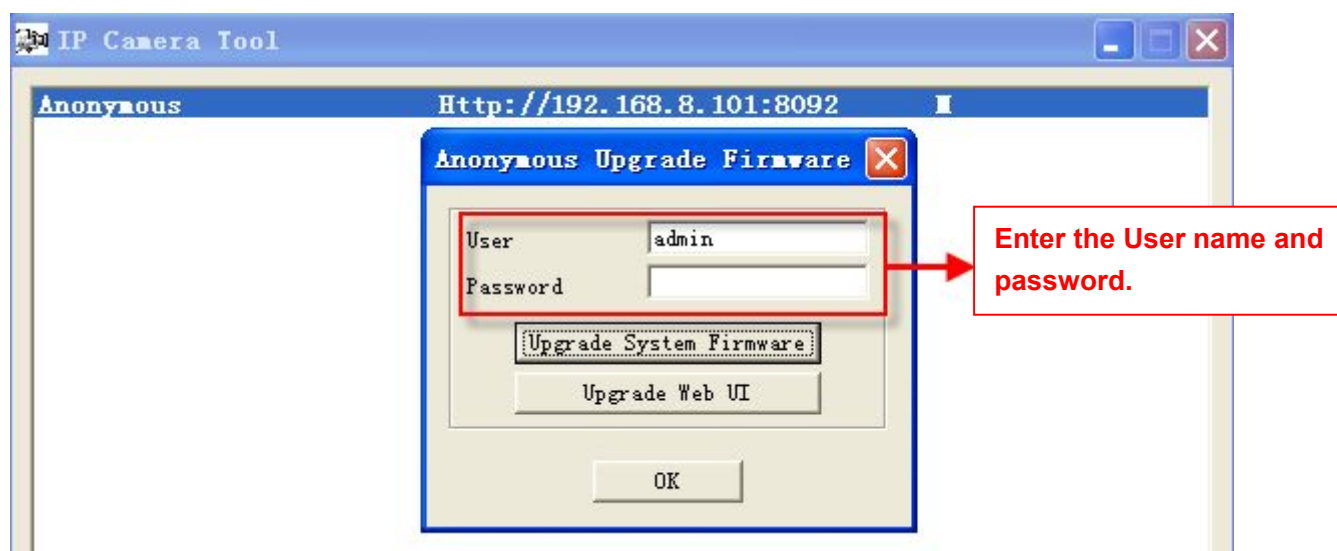


Figure 4.81

**CAUTION:** If your camera works well with the current firmware, we recommend not upgrading. Please don't upgrade the firmware unnecessarily. Your camera may be damaged if misconfigured during an upgrade.

**NOTE:**

- 1) Before upgrade the firmware, please reboot the camera, don't upgrade the firmware in WAN through the web UI, or else the upgrade process may be failed.
- 2) Please ensure you have download the correct firmware package for your camera before upgrading. Read the upgrade documentation (readme.txt file) in the upgrade package before you upgrade.
- 3) Upon downloading the firmware check the sizes of the .bin files. They must match the size in the readme.txt file. If not, please download the firmware again until the sizes are the same. Your camera will not function correctly if a corrupt .bin file is used.
- 4) Normally, only Device WEB UI need to be upgrade, please do not try to upgrade the Device System Firmware.
- 5) Never shut down the power of the camera during upgrade until the IP camera restart and get connected.
- 6) After upgrade successfully, please uninstall the old plugin and re-install it, then reset the camera to the default factory settings before using the camera.

### 4.9.3 Patch Installation

Click "Browse" to select the correct patch file, and then click "Install Patch" to install the patch. Do not turn off the power during it installing. After installing is complete, you will receive a system prompt.

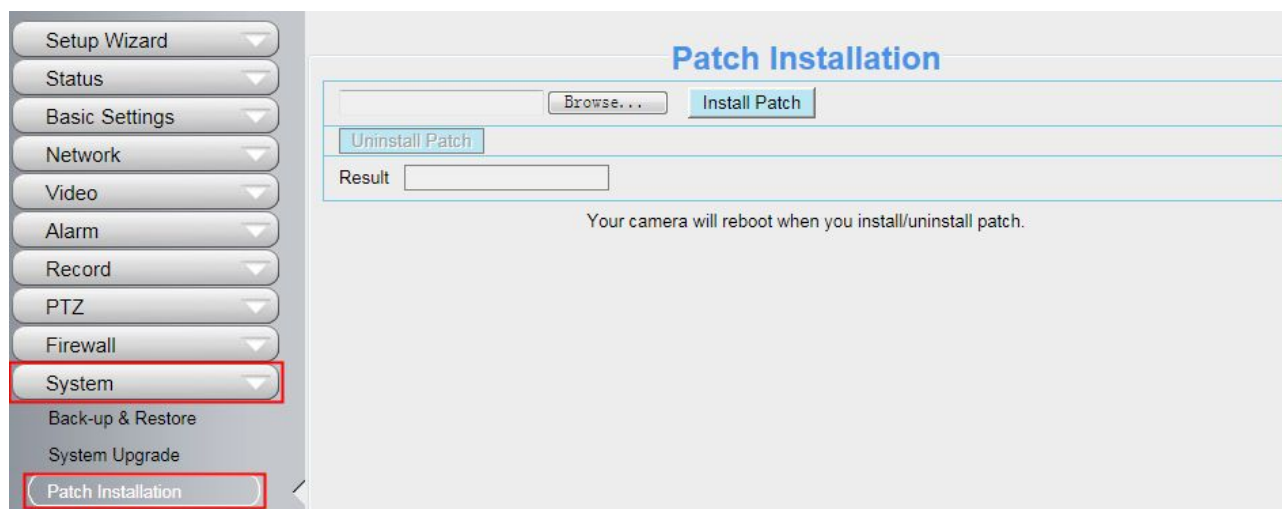


Figure 4.82

### 4.9.4 Factory Reset

Click All reset and all parameters will return to factory settings if selected. This is similar to press the Reset button on the bottom of the camera..

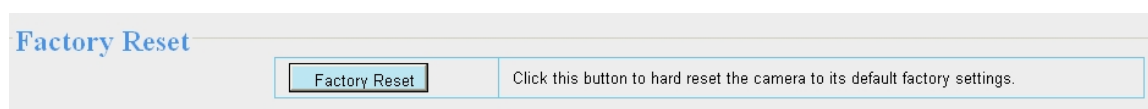


Figure 4.83

### 4.9.5 Reboot

Click Reboot System to reboot the camera. This is similar to unplugging the power to the camera.

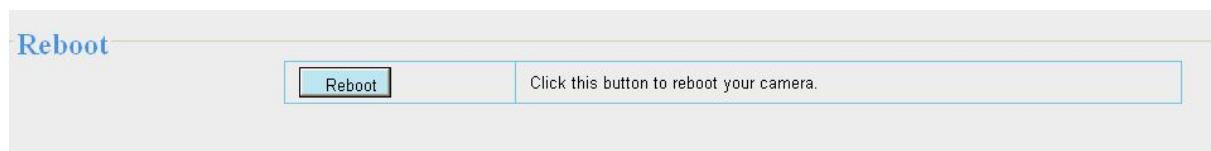


Figure 4.84



## 5 Phone Apps

FOSCAM provides APP for Android and iOS system, which helps to view and listen to your world anywhere..... anytime. Search and install Foscam Viewer on Google Play for Android devices, search and install Foscam Viewer on APP Store for iOS devices.

If you would like to read more details on the Android APP or iOS APP, Please refer to the *Android APP User Manual* or *iOS App User Manual*.

## 6 Appendix

### 6.1 Frequently Asked Questions

NOTE: Any questions you would meet, please check Network connections firstly. Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

#### 6.1.1 Install the add-on of Firefox browser, Google Chrome and IE Chrome.

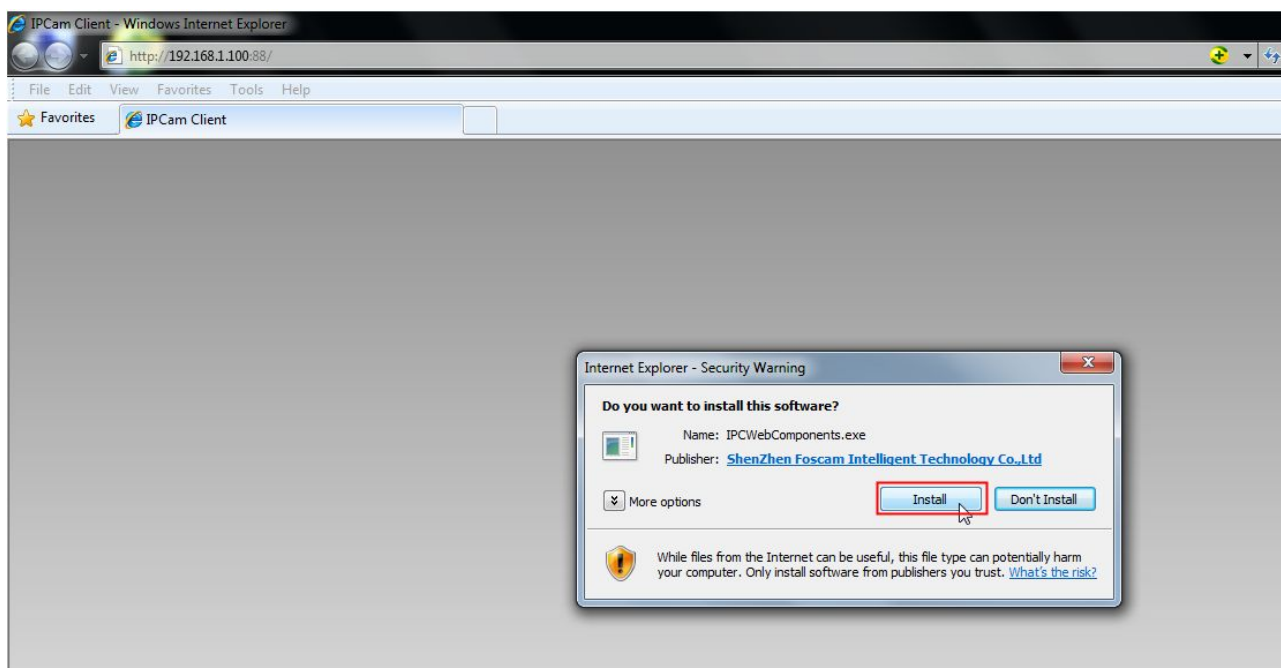


Figure 6.1

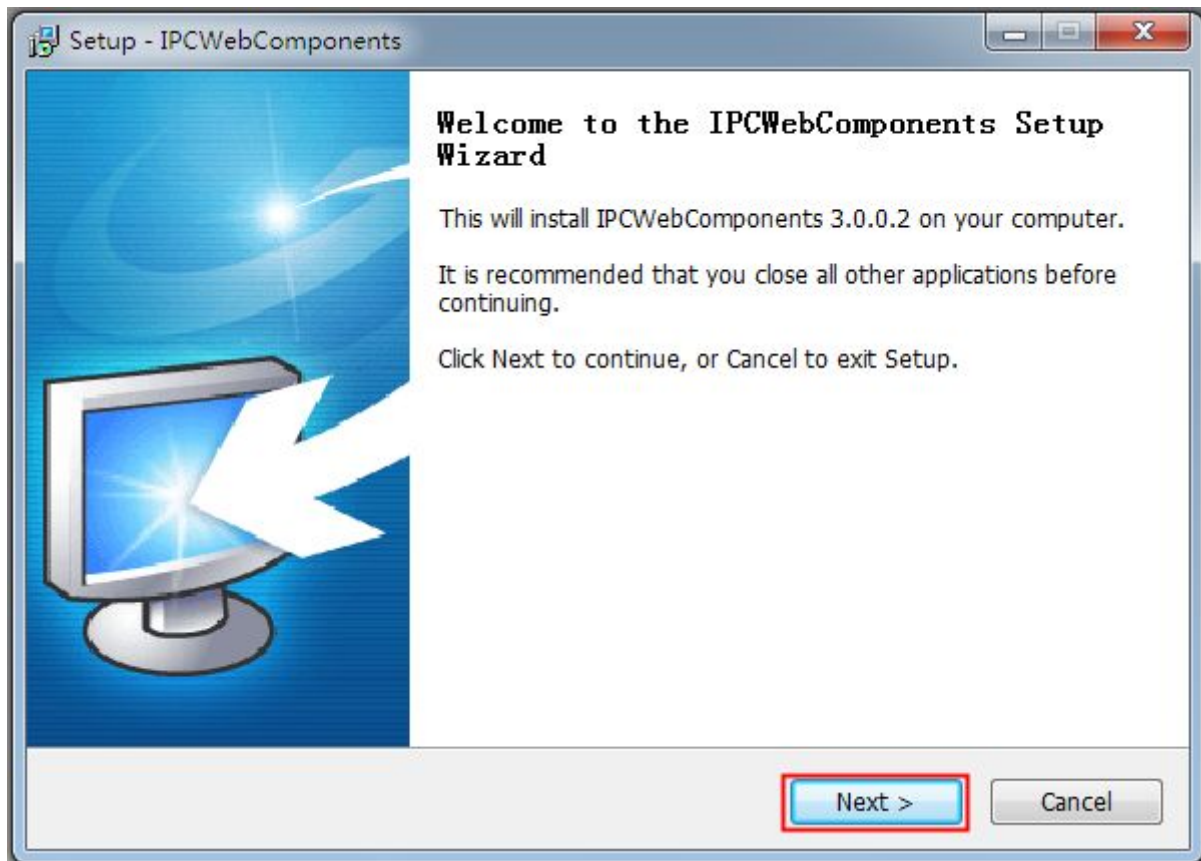


Figure 6.2

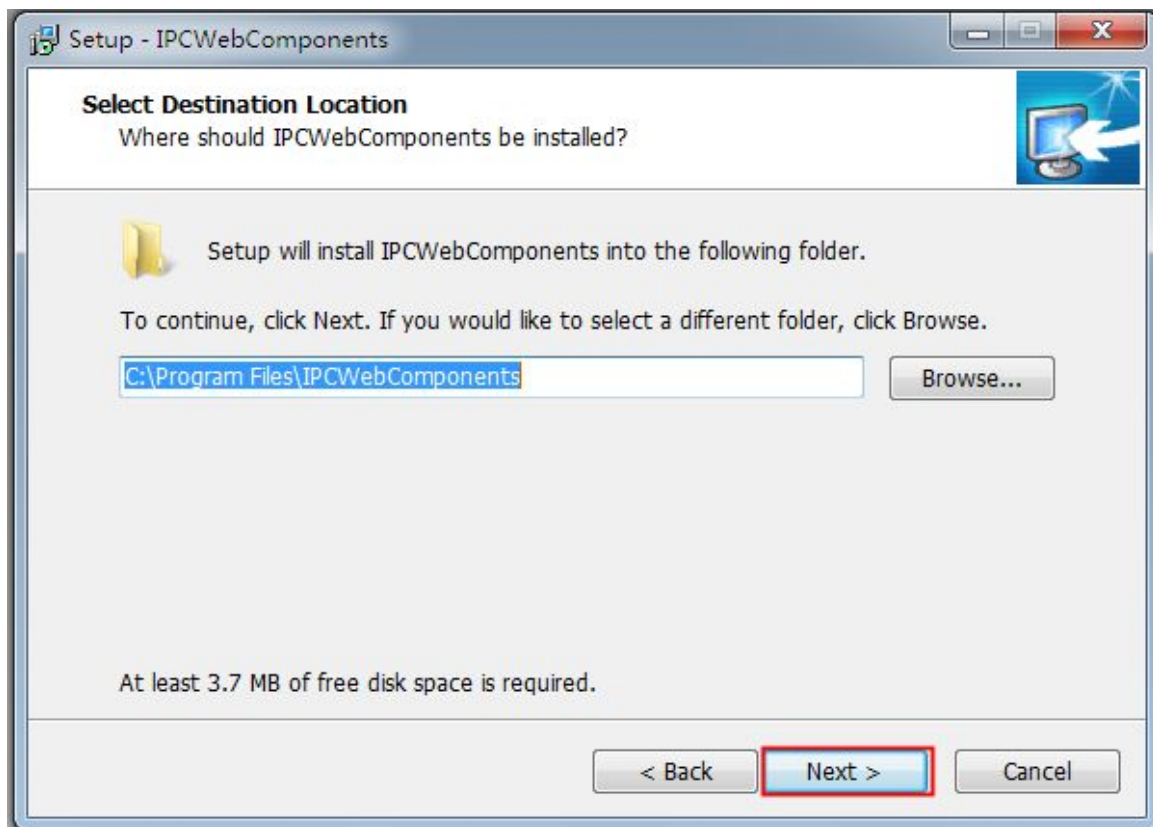


Figure 6.3

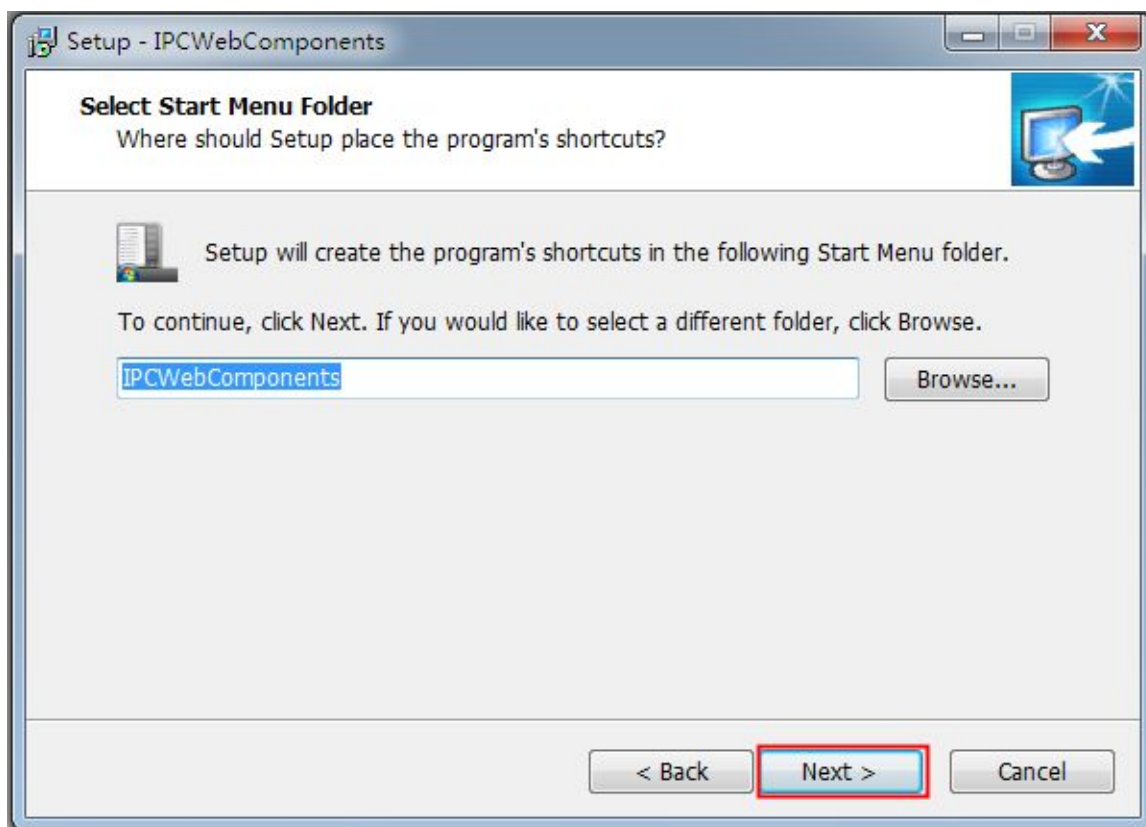


Figure 6.4

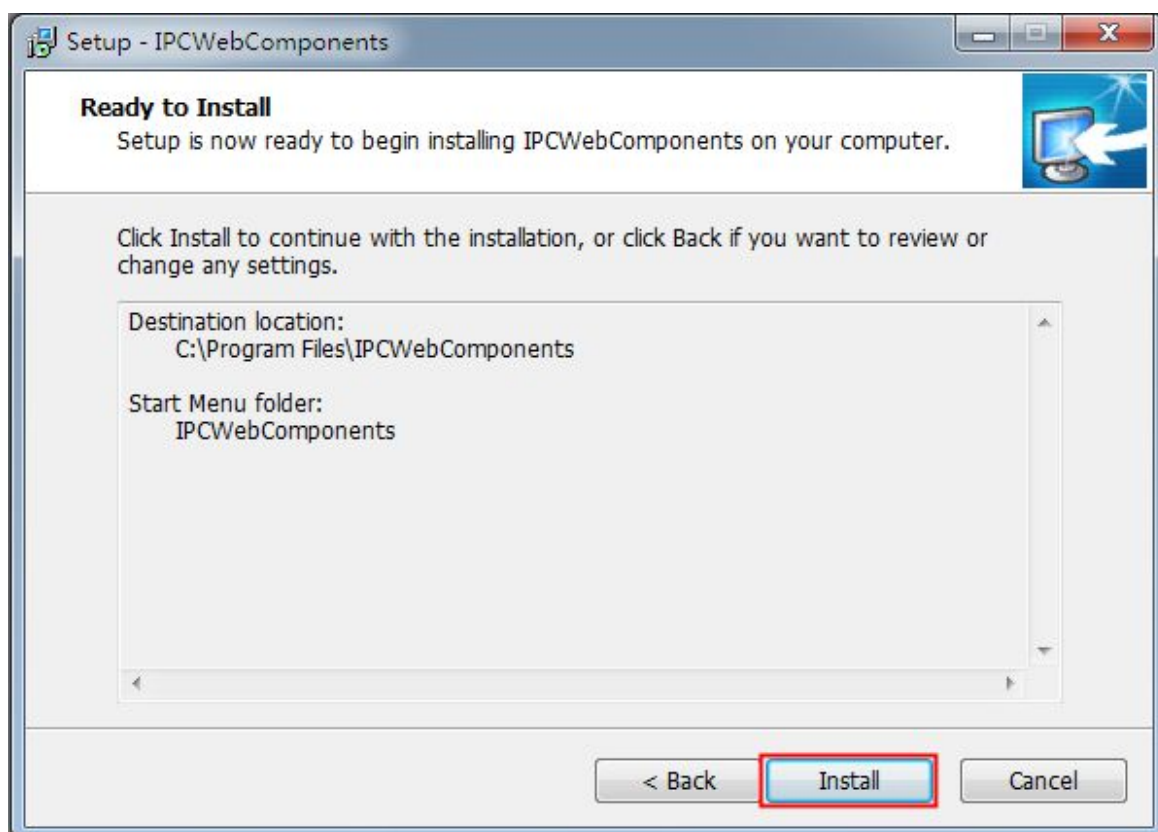


Figure 6.5

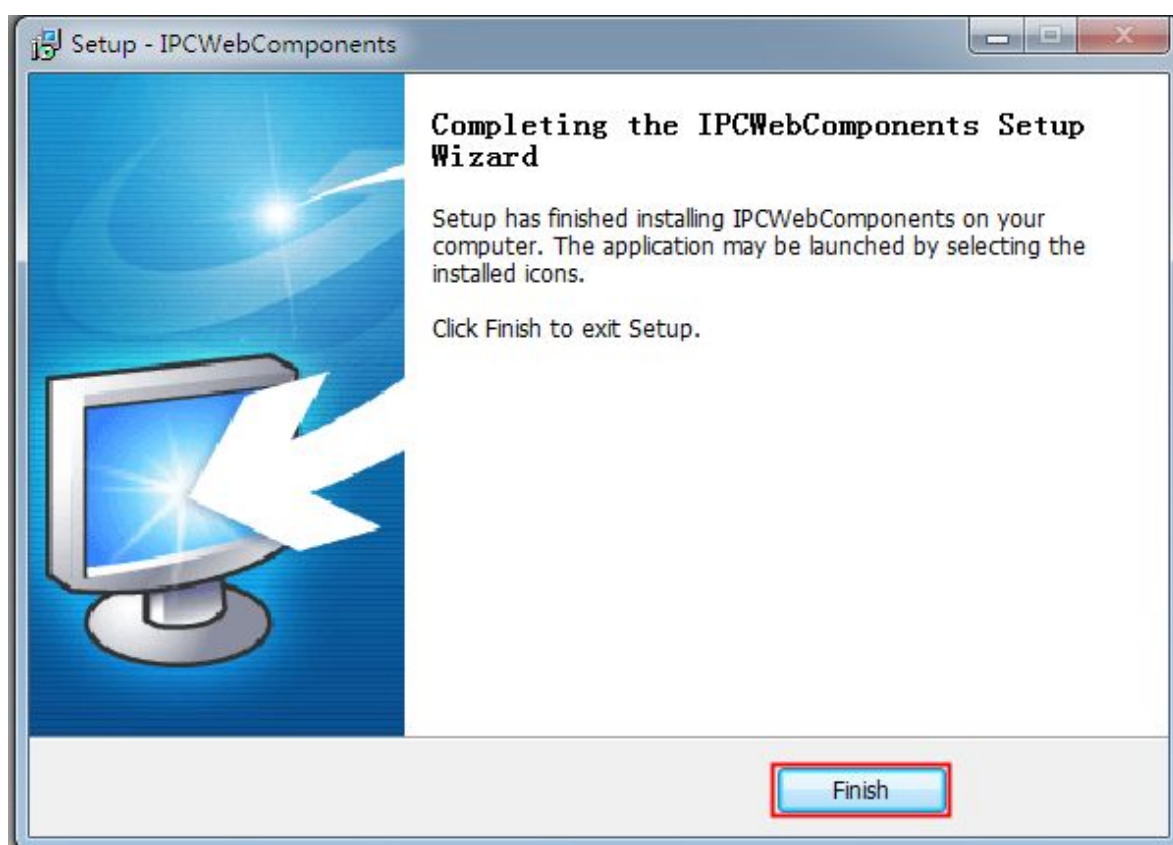


Figure 6.6

### 6.1.2 Uninstall the add-on of Firefox browser, Google Chrome and IE Chrome.

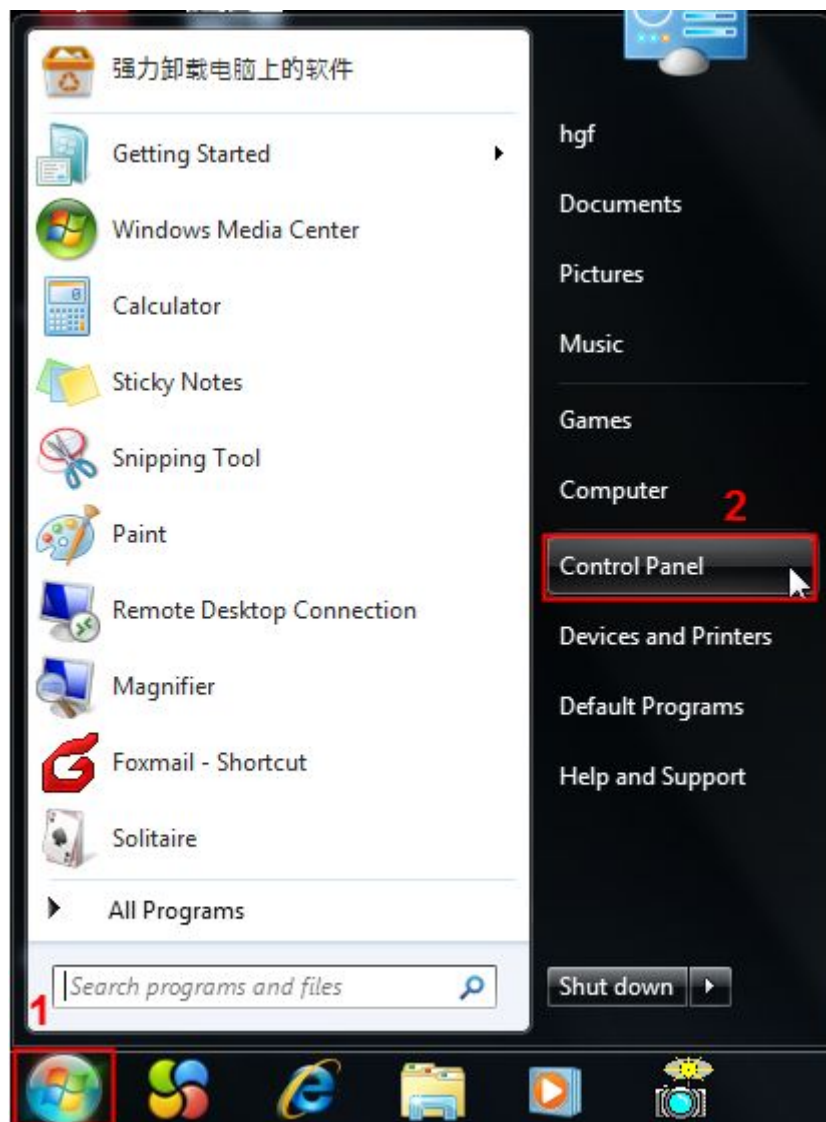


Figure 6.7



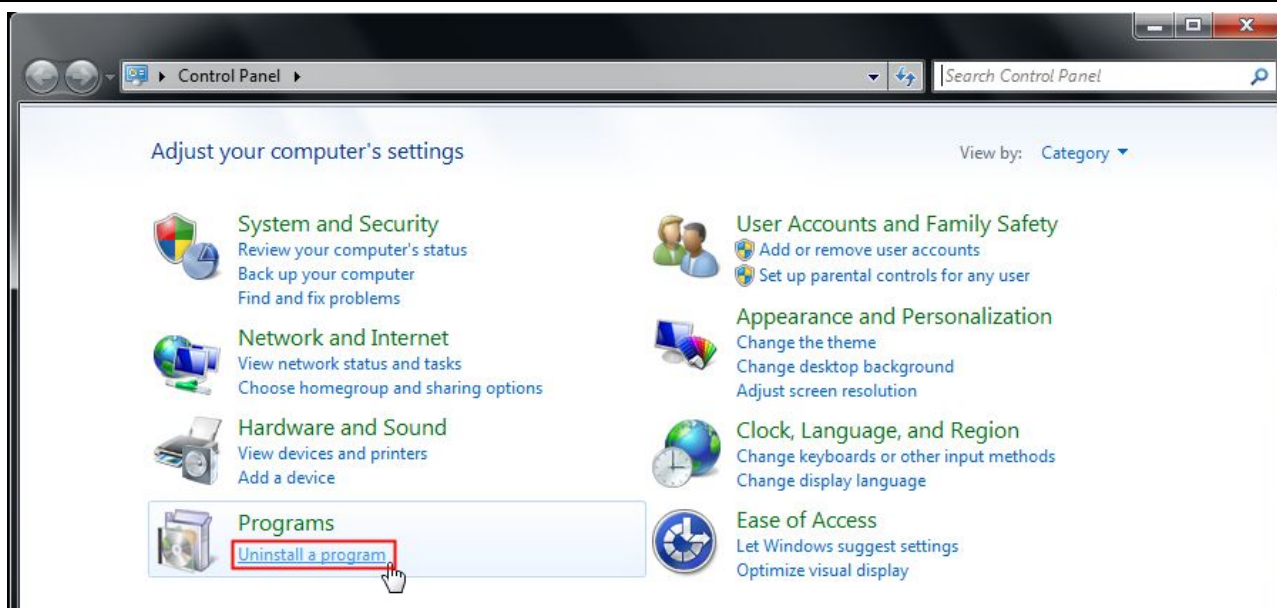


Figure 6.8

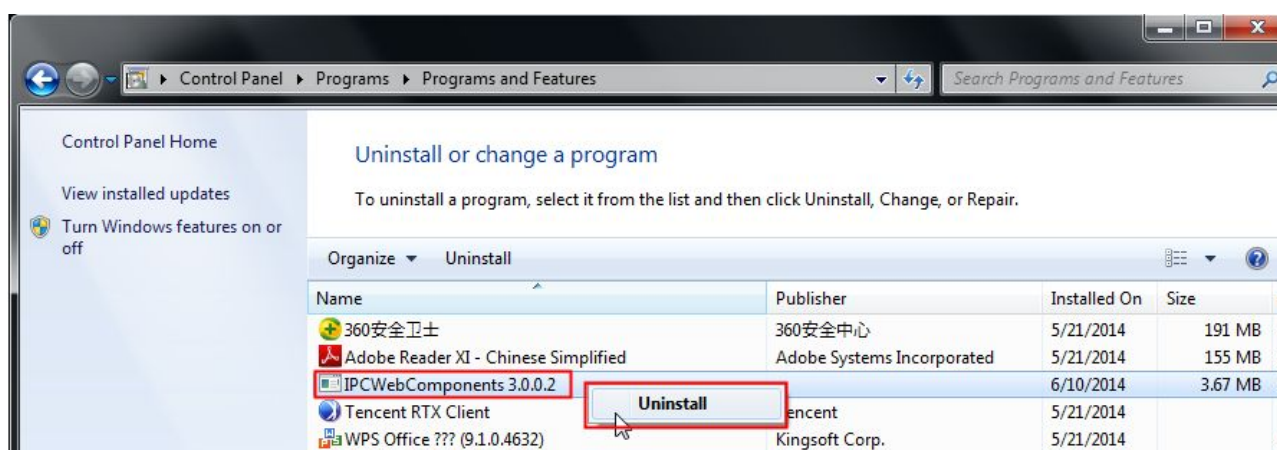


Figure 6.9

### 6.1.3 I have forgotten the administrator password

To reset the administrator username and password, press and hold down the RESET BUTTON for 5 seconds. Upon releasing the reset button, wait for 20 seconds, the camera will reboot and the username and password will return to the factory default administrator username and password. Please power on the camera before reset

Default administrator username: **admin**

Default administrator password: No password

### 6.1.4 Camera can not record

Camera can not record when I click Record button or I can't change the manually record path.

When you use Windows7 or Vista, you may be not able to do manually record or change the record path because of the security settings of computer.



There are two ways to resolve this problem:

(1) Please add the camera as a trusted site to resolve this issue. The steps are

IE browser→Tool→Internet Properties→Security→Trusted sites→Sites→Add

(2) Open IE browser, then right click, select “Run as administrator”

### 6.1.5 Subnet doesn't match

Check whether your ipcamera in the same subnet of your computer. The step is **Control Panel→Network Connections→Dbclick Local Area Connections → Choose General→Properties**. Check subnet mask, IP address and gateways. When you set IP address please make sure they are in the same subnet. Otherwise you can't access camera.

### 6.1.6 No Pictures Problems

The video streaming is transmitted by the ActiveX controller. If ActiveX controller isn't installed correctly you will see no video image. You can resolve this problem by this way:

Download ActiveX controller and set the safety property of IE in the PC when you view it first time: IE browser→Tool→Internet Proper→Security→Custom Level→ActiveX control and Plug-ins. Three options of front should be set to be “Enable”, The ActiveX programs read by the computer will be stored. As follows:

**Enable: Download unsigned ActiveX controls**

**Enable: Initialize and script ActiveX controls not marked as safe**

**Enable: Run ActiveX controls and plug-ins**

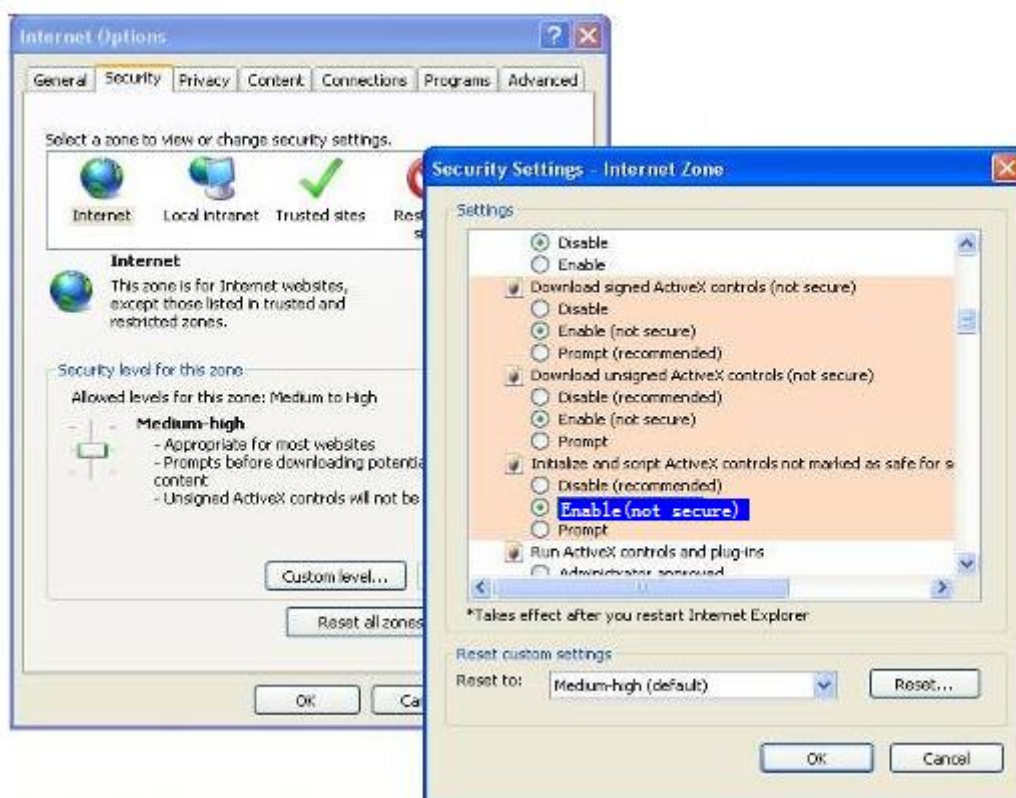


Figure 6.10

If you allow the ActiveX running, but still could not see living video. Please change another port number to try. Don't use port 8000.



HTTP Port	88
Media Port	88
HTTPS Port	443

Figure 6.11

**NOTE:** Make sure that your firewall or anti-virus software does not block the camera or ActiveX. If you could not see video, please shut down firewall or anti-virus software to try again.

### 6.1.7 Can't access IP camera in internet

There are some reasons:

- 1、ActiveX controller is not installed correctly
- 2、The port which camera used is blocked by Firewall or Anti-virus software. Please change another port number and try again.
- 3、Port forwarding is not successful

Check these settings and make sure they are correct.

### 6.1.8 UPnP always failed

UPnP only contains port forwarding in our recent software. Sometimes, it may be failed to do port forwarding automatically because of firewall or anti-virus software. It also has much relation with router's security settings. So we recommend you do port forwarding manually. You can view your camera in internet successfully after you do port forwarding manually in your router(Figure 4.29).

### 6.1.9 Camera can not connect wireless

If your camera could not connect wireless after you set wireless settings and plug out the cable. Please check whether your settings are correct or not.

Normally, camera can't connect wireless mainly because of wrong settings.

Make sure broadcast your SSID; use the same encryption for router and camera.

### 6.1.10 Can't see other cameras listed in multi-device when using remote access

If you want to view all the cameras via the WAN, verify that each camera added in the multi-device settings can be accessed by using the DDNS name and port number. Use the DDNS domain name not the camera's LAN IP. (For more details see: How to add cameras in WAN)

## 6.2 Default Parameters

### Default network Parameters

IP address: obtain dynamically

Subnet mask: obtain dynamically

Gateway: obtain dynamically

DDNS: Embedded FOSCAM domain name

### Username and password

Default admin username: admin with a blank password

## 6.3 Specifications

ITEMS		FI9828W
Image Sensor	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1280 x 960 (1.3 Megapixel)
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	Glass Lens
	focal length	f:3.7~14.8mm
	Aperture	F1.6
	Angle of View	70° maximum
Video	Image Compression	H.264
	Image Frame Rate	30fps maxmium, downward adjustable
	Resolution	(1.3Megapixel)1280 x 960, 720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240),QVGA(320 x 180)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:355° & Vertical: 90°
	Night visibility	21pcs IR-LEDs, night vision range up to 20 metres
Audio	Input/Output	External 3.5mm standard interface for two-way audio
	Audio Compression	PCM/G.726
	Ethernet	One 10/100Mbps RJ45 port

<b>Network</b>	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.); IEEE802.11g: 54Mbps(Max.); IEEE802.11n: 150Mbps(Max.).
	Wireless Security	WEP, WPA, WPA2
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、UPnP、RTSP
<b>System Requirements</b>	Operating System	Microsoft Windows XP, Vista, 7, 8; Mac OS; iOS、Android
	Browser	Microsoft IE7 and above version or compatible browser; Mozilla Firefox; Google Chrome; Apple Safari.
<b>Other Features</b>	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Reset	Reset button is available
<b>Power</b>	Power Supply	DC 12V/2.0A
	Power Consumption	10Watts (Max.)
<b>Physical</b>	Dimension(Lx WxH)	240(L)*140(W)*160(H) mm
	Net Weight	1800g
<b>Environment</b>	Operating Temperature	-20° ~ 55°C (-4°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
<b>Certification</b>	CE, FCC, RoHS	
<b>Warranty</b>	Limited 2-year warranty	

**Attention: Power adapter should be used between -20℃-40℃, and 20%-90% relative humidity.**

## 6.4 CE & FCC

### Electromagnetic Compatibility (EMC)

#### FCC Statement



**This device complies with FCC Rules Part 15. Operation is subject to the following two conditions.**

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is like to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

#### FCC Caution

Any changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### CE Mark Warning



This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



## 7 Obtaining Technical Support

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may experience some issues or have questions that this User's Guide has not answered.

If you have problem with FOSCAM IP camera, please first contact FOSCAM reseller for solving the problems.

If our reseller cannot provide service, please contact our service department: [tech@foscam.com](mailto:tech@foscam.com)

