



User Manual

HD Wireless IP Camera



Model:FI9803W

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1 Overviews

FOSCAM Outdoor HD IP Camera is an integrated wireless IP Camera with a color CMOS sensor enabling viewing in High Definition resolution. 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.

FI9803W support 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 Google Play or 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
- ◆ 1.0 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

1.3 Read Before Use

Please first verify that all contents received are complete according to the Package Contents listed below. Before the Network 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.

1.4 Packing Contents

● IPCAM×1	● CD×1
● Wi-Fi Antenna×1 (except for FI9805E,FI9903P)	● Quick Installation Guide ×1
● DC Power Supply×1	● Warranty Card×1
● Mounting bracket×1(option)	● Network Cable×1

1.5 Physical Description

1.5.1 Front Panel

Front Panel for FI9803W



Figure 1.2

- 1 WIFI Antenna:** Wireless Antenna (FI9803W)
- 2 Infrared Lamp Array**
- 3 LENS:** CMOS sensor with fixed focus lens
- 4 Induction IC**

1.5.2 Interface

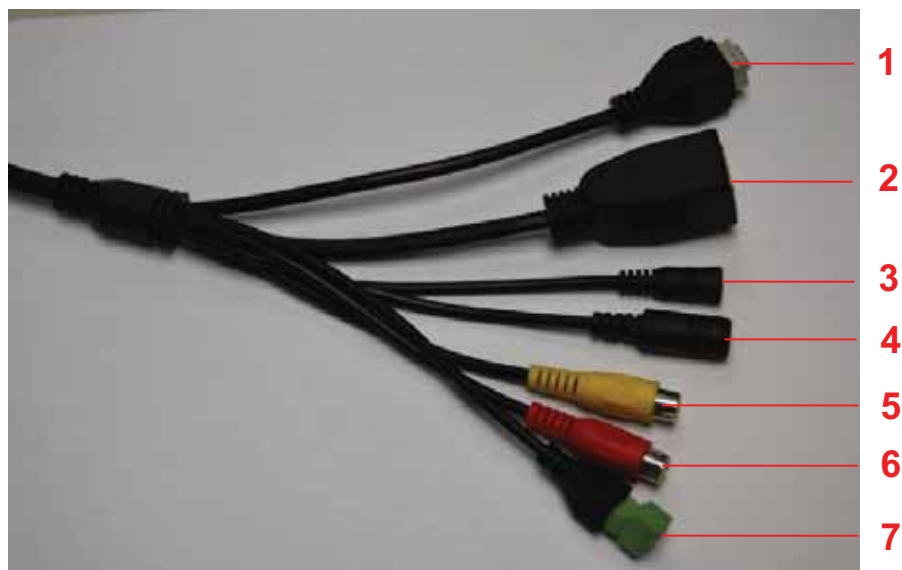


Figure 1.3

2 LAN

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

3 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.

4 Power Interface

Connect the external power adapter, request for 12V/2A or 12V/1A power.

1.5.3 Bottom View

There are up to three labels located at the bottom of the camera, this is an important feature of original Foscam cameras. If your camera does not have labels as shown in Figure 1.3, it may be a clone. Cloned Foscam cameras can not use original firmware and are not eligible for warranty or technical services.

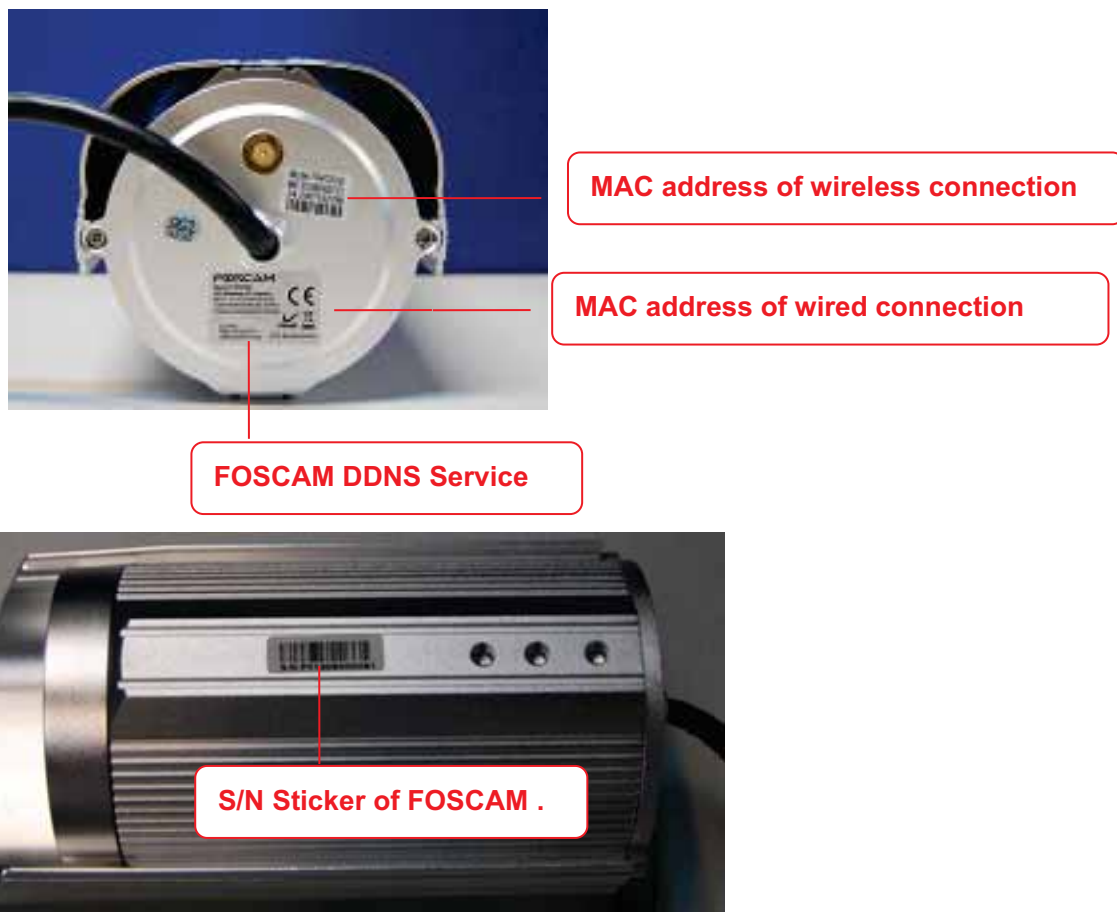


Figure 1.4

1.6 The different features between the models involved

Differences				
Model	Wireless	PoE (Power over Ethernet)	Alarm in / out	RS 485
FI9804W	√	×	×	×
FI9805W	√	×	×	×
FI9805E	×	√	√	√
FI9803W	√	×	×	×
FI9903P	×	×	×	×

2 Accessing the Network Camera

This chapter explains how to access the network camera through web browsers and RTSP players.

2.1 Access the Camera in LAN

This camera support HTTP and HTTPS protocols, so here will allow you to use HTTP and HTTPS port No.

(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.

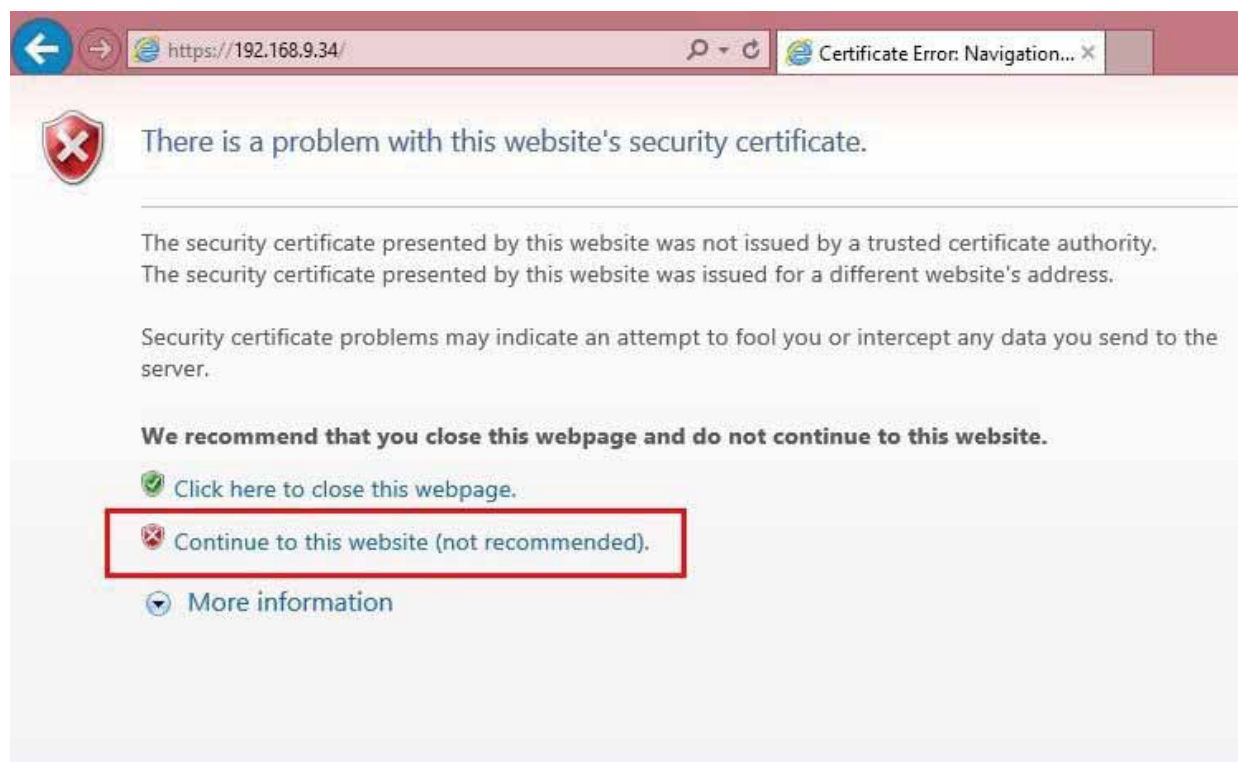
The default Https port no. is 443. You can use the url to access the camera: **https:// LAN IP + HTTPS port.**

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



Figure 2.2

HTTPS(Hypertext Transfer Protocol over Secure Socket Layer) is a safe way to access your camera, the data transferred on the Internet will be encrypted. Since we can not apply license for every LAN or DDNS URL, the webpage may pop up a warning like the following picture, you just need to click 'Continue to this website (not recommended). '



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.

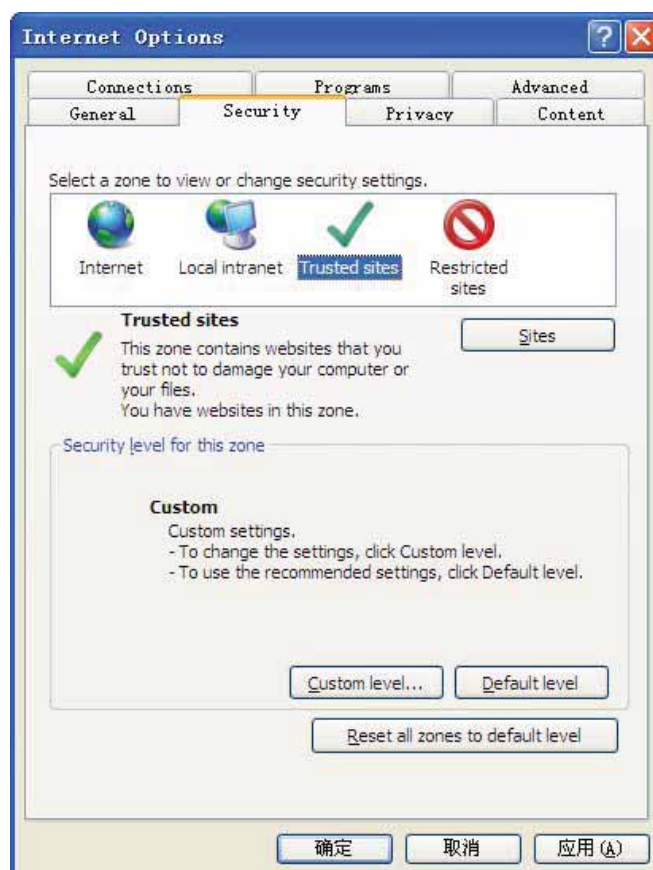


Figure 2.3

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

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

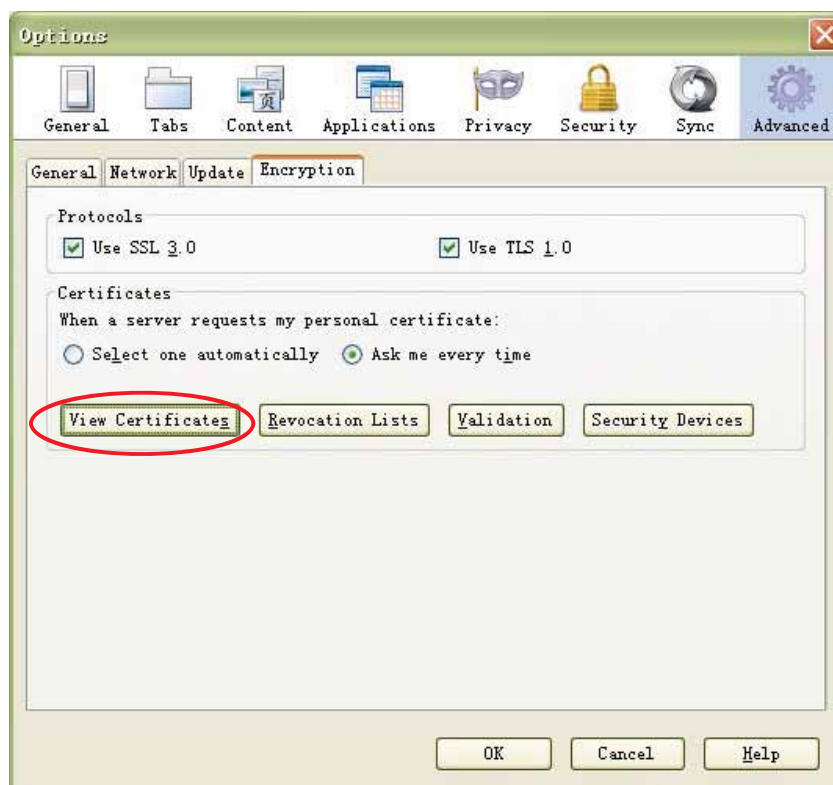


Figure 2.4

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

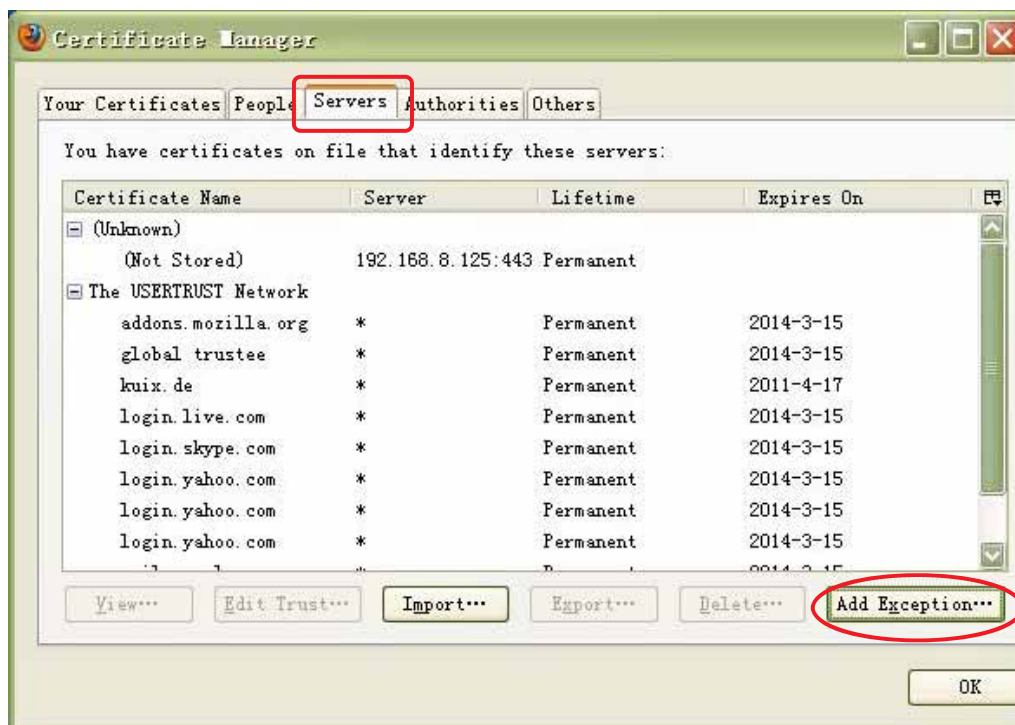


Figure 2.5

Go to **Add Exception** panel.

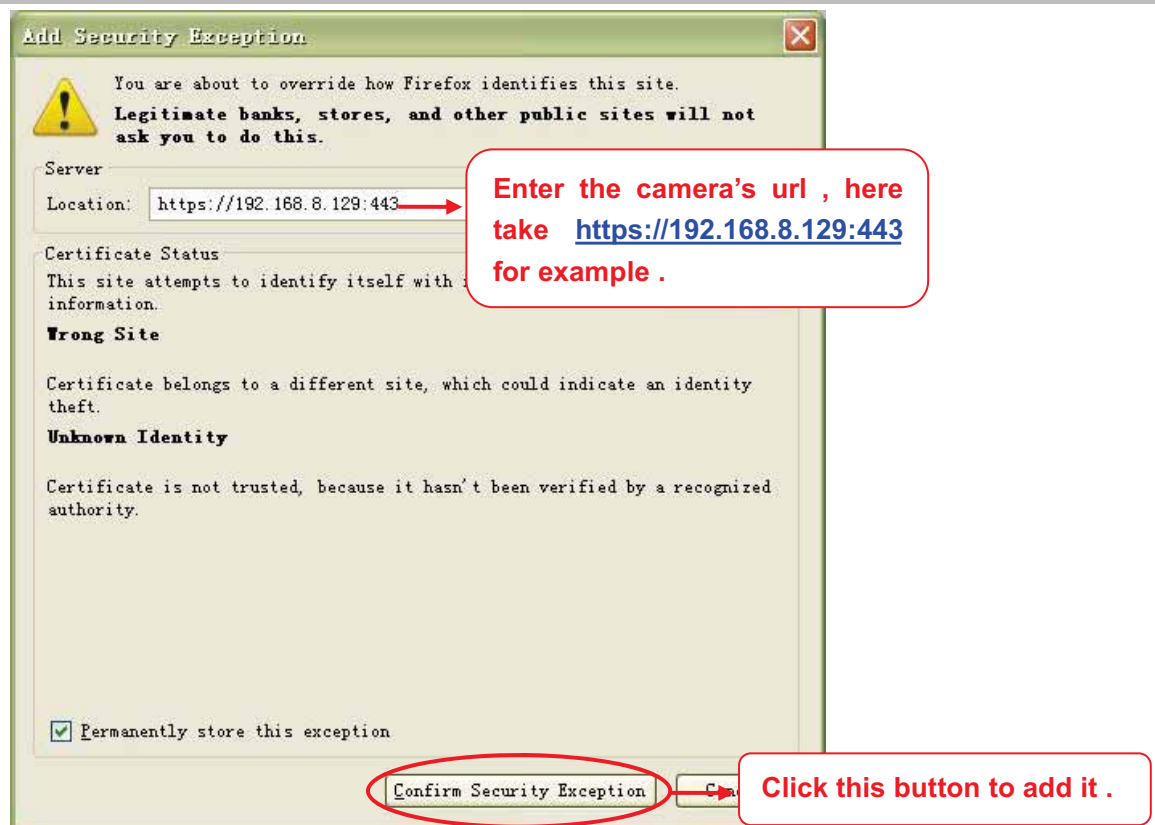


Figure 2.6

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 2.7

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 2.11 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.

Step 1: Enter the username and password of the Administrator (default username is admin with a blank password), and click “OK” to apply changes.

Step 2: 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!

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.?

1) 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.

2) 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 2.8 and 2.9.

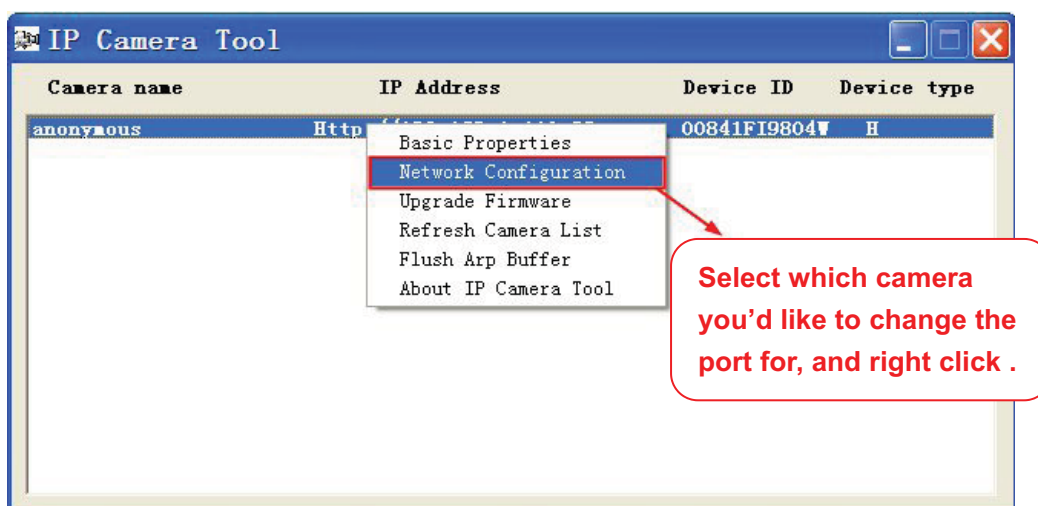


Figure 2.8

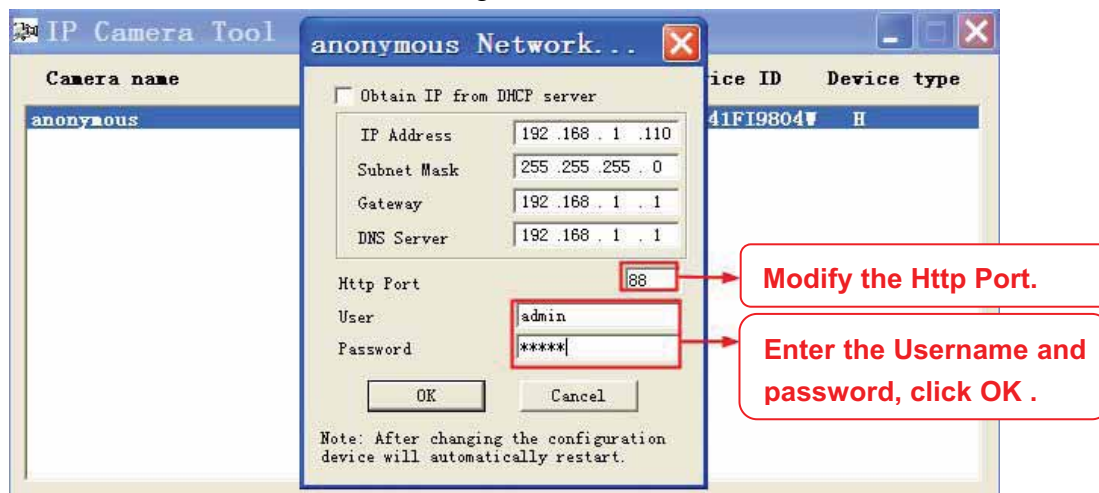


Figure 2.9



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

Figure 2.10

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 ?

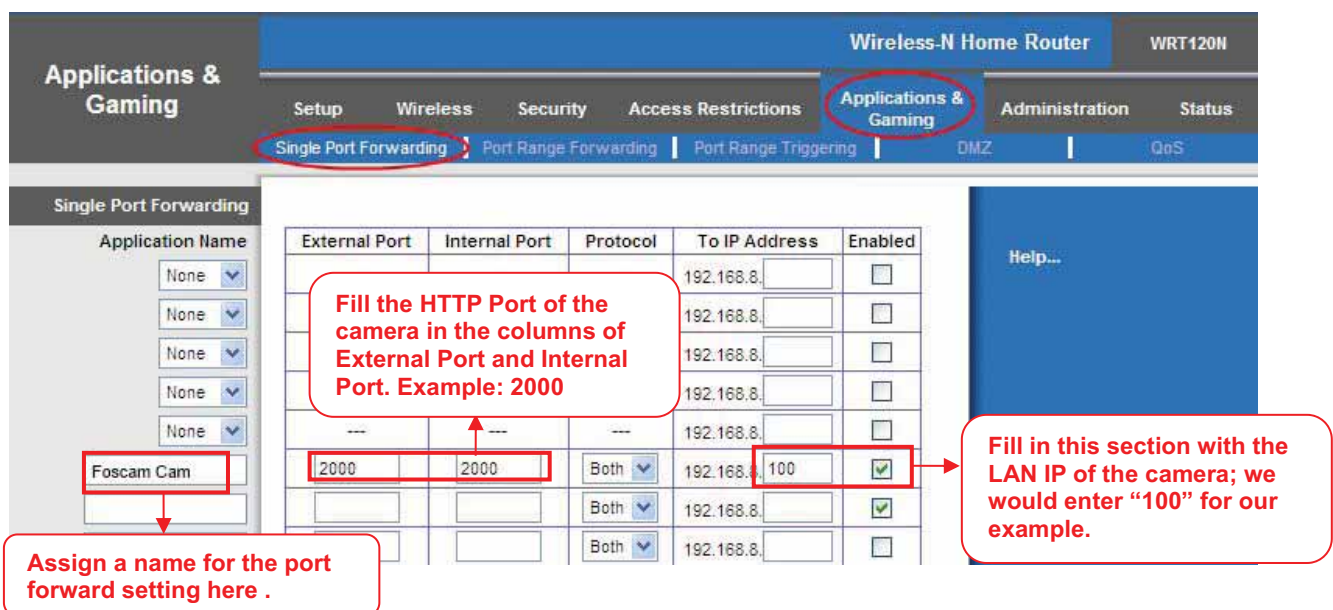
For this section, we will be using an example:

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: Foscam Cam

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"/>
---	---	---	192.168.8.	<input type="checkbox"/>
2000	2000	Both	192.168.8.100	<input checked="" type="checkbox"/>
		Both	192.168.8.	<input checked="" type="checkbox"/>
		Both	192.168.8.	<input type="checkbox"/>

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

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

Assign a name for the port forward setting here .

Figure 2.11

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 **cp4911.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 2.12

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

Take hostname **cp4911.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) 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. Take hostname **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** 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 modes: 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.

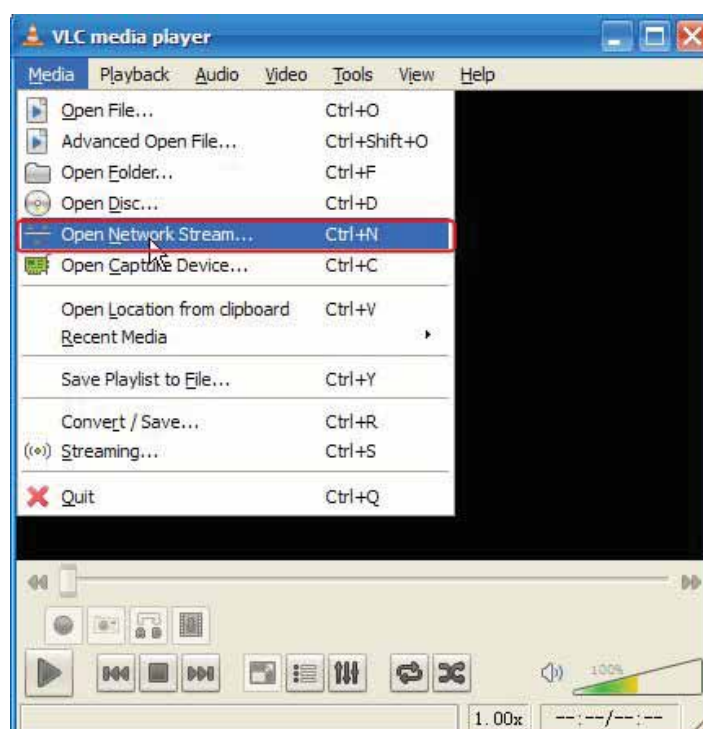


Figure 2.13

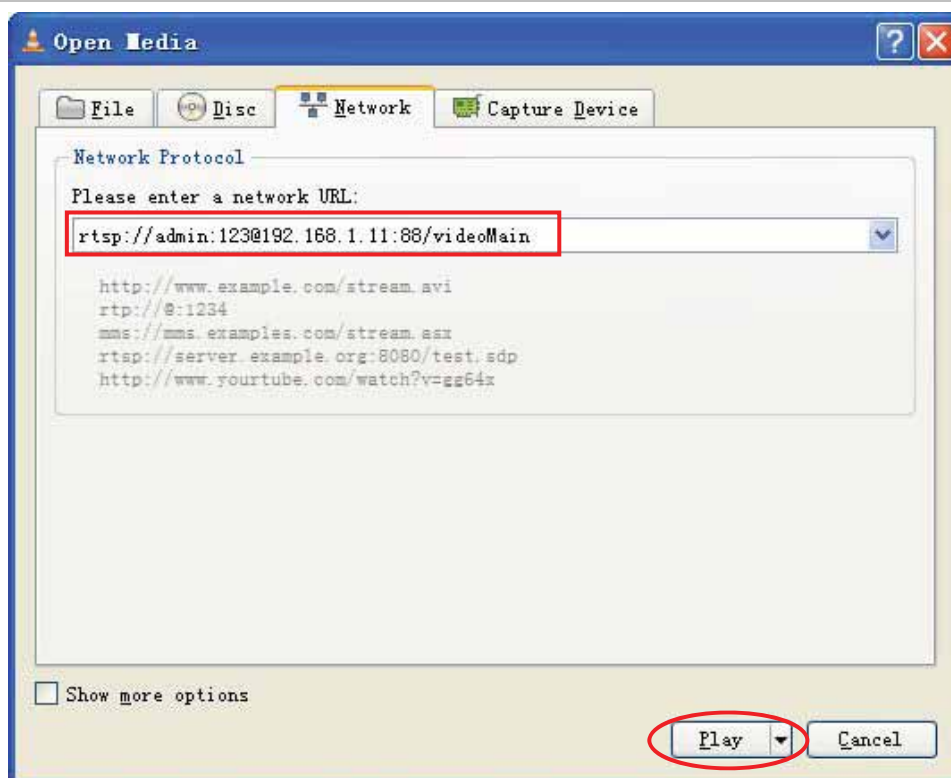


Figure 2.14

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



Figure 2.15

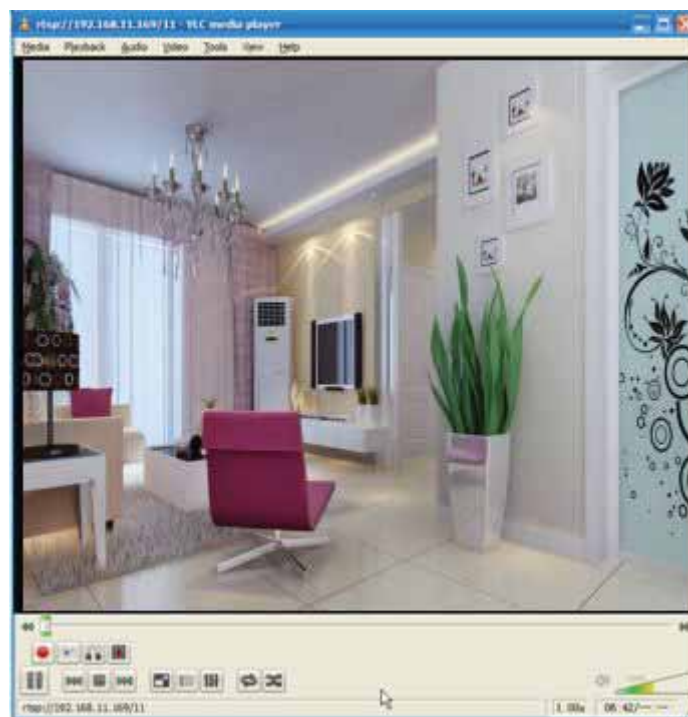


Figure 2.16

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.

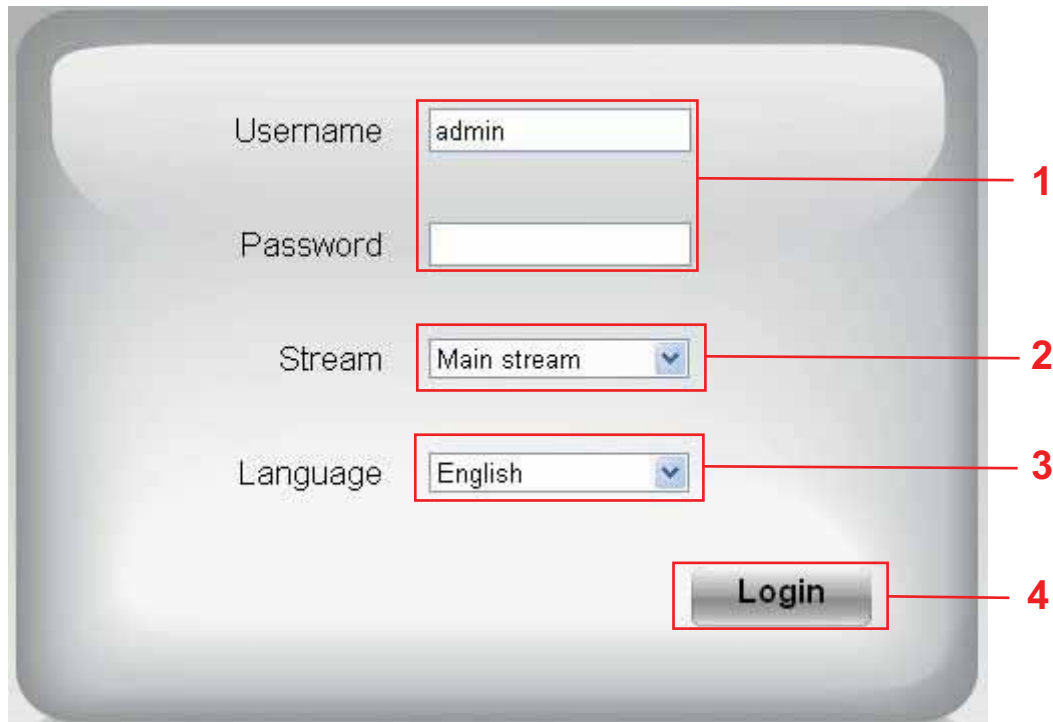
2.4 IP camera connection to the server

Device supports ONVIF 2.2.1 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



The screenshot shows the login window of the Foscam surveillance software. It contains four input fields and a button, each highlighted with a red box and a red line pointing to a number on the right:

- 1** points to the Username field, which contains the text "admin".
- 2** points to the Password field, which is empty.
- 3** points to the Stream dropdown menu, which is set to "Main stream".
- 4** points to the Login button.

Figure 3.1

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

Section1 Enter the Username and password

The default administrator username is admin with no password, please reset the username and password at first using and prevent unauthorized users login the camera.

Section2 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.

Section3 Select the language

You can select the language you need via click on the language drop-down list to switch.

Section4 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 Modify the Username and Password

When you log in for the first time, it will come to the operating of modify the username and password automatically.

Username

New username

New password

Password Security Level

Confirm the password

Modify

Figure 3.1

Enter the New Username, New password and Confirm the password.
Click **Modify** button, then you will see the login page again.

3.3 Surveillance Window



Figure 3.3

Section1 FOSCAM Logo/ LiveVideo / Settings buttons



: 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-camera panel.

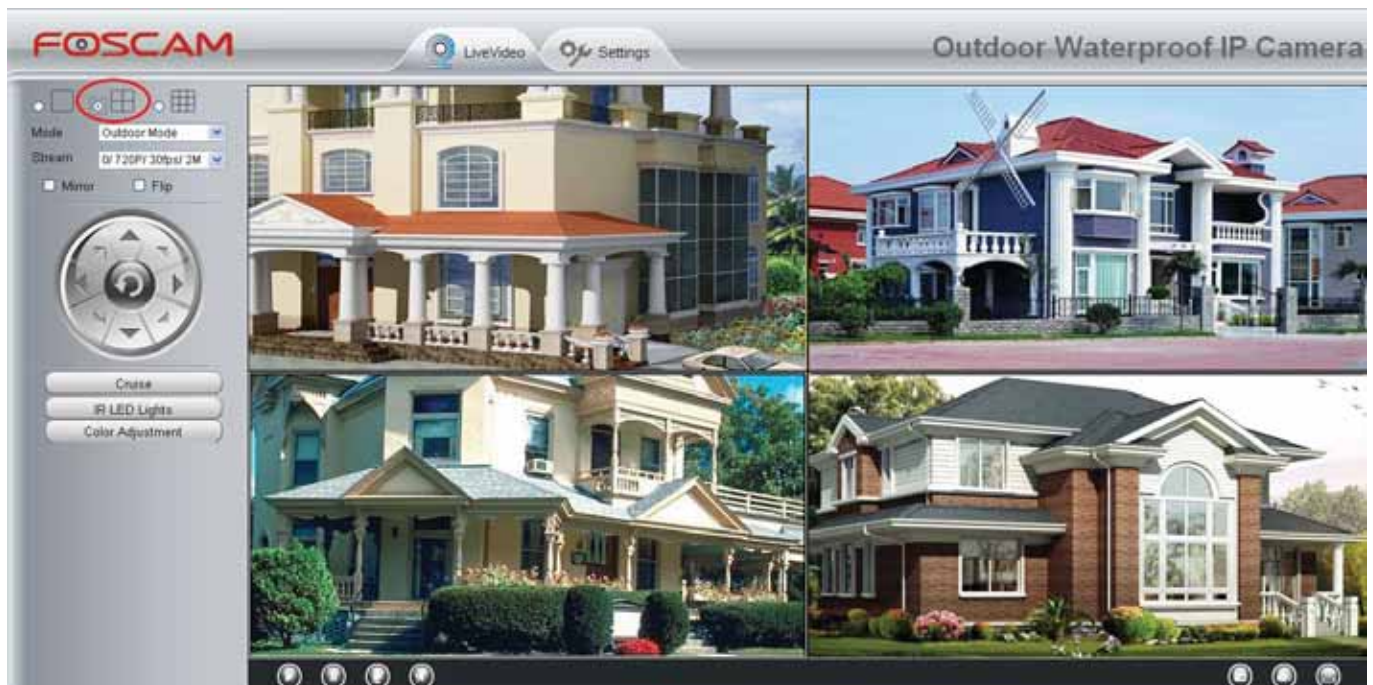


Figure 3.4

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 multiple modes, For example: 0/720P/30fps/2M meanings: **Stream type no. / Resolution / Maximum frame rate/ Bit rate.** (Different models support different specific mode.)

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

2) **Resolution**

The lowest resolution is QVGA. 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 cannot play well.

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

Video Settings

Save Refresh

Main stream video settings

Stream Type	0
Resolution	720P
Bit Rate	2M
Frame Rate	30
Key Frame Interval	30

Sub stream video settings

Stream Type	0
Resolution	VGA (640*480)
Bit Rate	512K
Frame Rate	15
Key Frame Interval	45

How to do cruise?

Firstly: Select one track in the track drop-down list



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

Thirdly: Click stop button and finish cruising.

Section6 IR LED Lights



Click Infra led and there are three modes to adjust the infrared led: Auto, Manual and Schedule.

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

Manual: Select it and turn off the infra led manually.

Schedule: Select it and the IR led light will be off at the schedule period. If you want to define or change the IR led lights schedule time, please go to **Settings**→**Video**→**IR LED Schedule** page.

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 hear your voice if the camera has connected with audio output device. Click the icon again and stop talking.

4----- Audio Click the button and the icon will become to , you can hear the sound around the camera if the camera has connected with other audio input device through the Audio Input port of the camera, Click the icon again and stop audio.

5----- Snap: 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:\PCamRecord. 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 3.5

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



Figure 3.6

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

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



Figure 3.7

NOTES:

- 1 This camera don't support Pan/Tilt function, so here can't allow to use Screen PTZ.
- 2 For Mac OS, the plugin cannot support Onscreen Mouse function, 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 Device Status

Device 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

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 Device Name panel where you can change your camera name. The default device name is anonymous.

Camera ID: Display the MAC address of your camera. For example Device ID is 008414350787, 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.

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, NTP/DDNS status, WIFI status and so on.



Refresh	
Alarm Status	Disabled
NTP Status	Disable
DDNS Status	Disable
UPnP Status	Success
WiFi Status	Not connected
IR LED Status	Off

Figure 4.2

Log

Pages: 50 << 1 2 3 >> Go

NO	Time	User	IP	Log
1	2014-01-09 14:12:35	root	127.0.0.1	Detected motion alarm
2	2014-01-09 14:12:17	root	127.0.0.1	Detected motion alarm
3	2014-01-09 14:11:51	root	127.0.0.1	Detected motion alarm
4	2014-01-09 14:11:24	foscam	192.168.8.2	User off line
5	2014-01-09 14:11:13	foscam	172.16.3.10	Login
6	2014-01-09 14:11:12	foscam	192.168.8.2	Login
7	2014-01-09 14:10:49	root	127.0.0.1	Detected motion alarm
8	2014-01-09 14:10:28	root	127.0.0.1	Detected motion alarm
9	2014-01-09 14:09:41	root	127.0.0.1	Detected motion alarm
10	2014-01-09 14:08:31	root	127.0.0.1	Detected motion alarm

4.1.4 Log

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

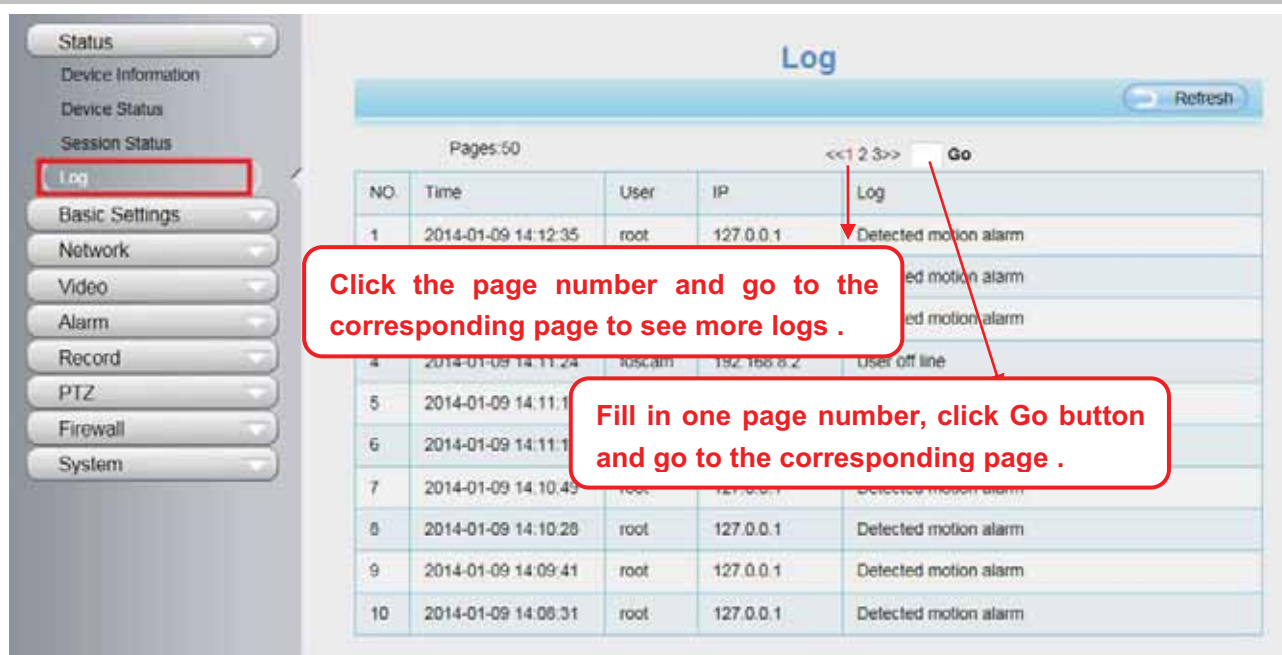


Figure 4.4

Reboot the camera and clear the log records.

4.2 Basic Settings

This section allows you to configure your Camera Name, Camera Time, Mail, User Accounts and Multi-Device.

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.

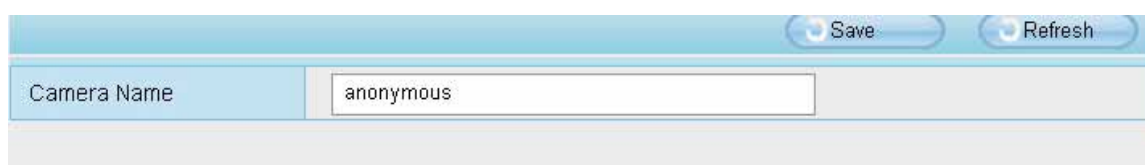


Figure 4.5

4.2.2 Camera Time

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

Figure 4.6

Time Zone: Select the time zone for your region from the drop-down 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 drop-down 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 administrator user accounts are admin with a blank password.

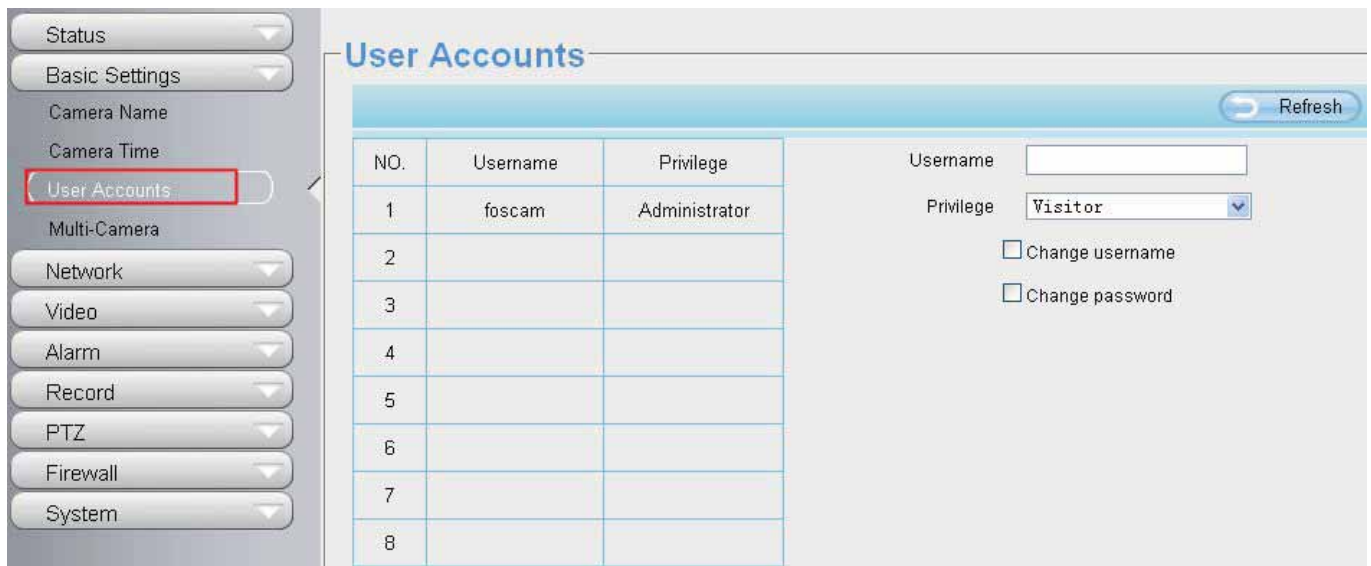


Figure 4.7

How to change the password?

Firstly, select the account which you want to change the password, then select “Change password”, enter the old password and the new password, lastly click modify to take effect.

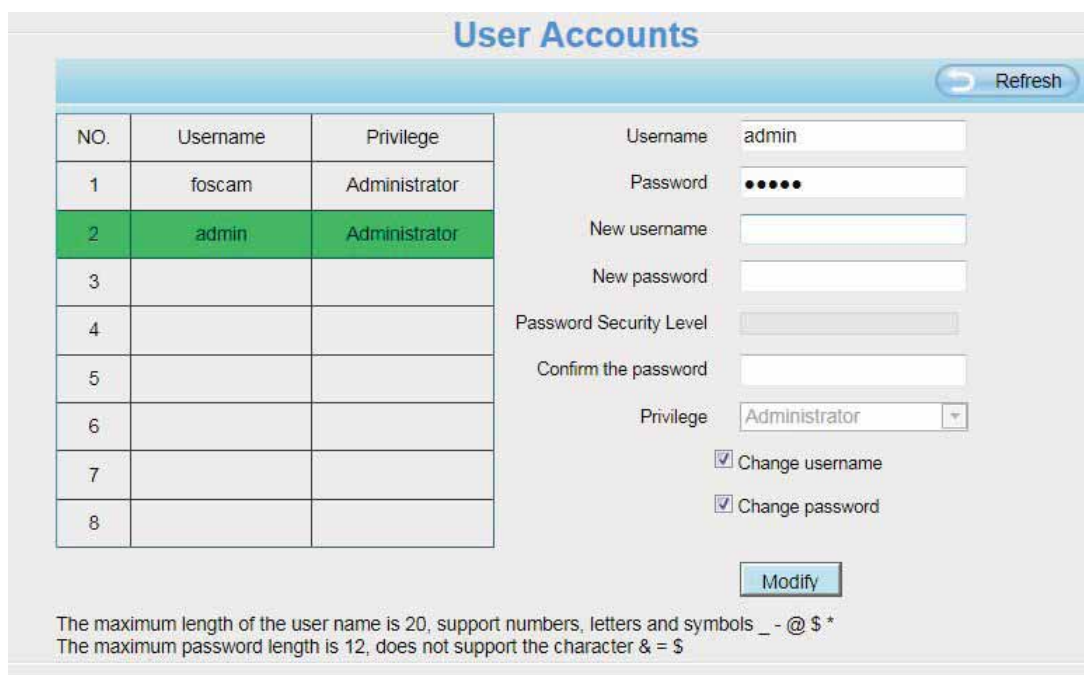


Figure 4.8

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	foscam	Administrator
2	admin	Administrator
3		
4		
5		
6		
7		
8		

Username:
Password:
Password Security Level: Low security level.
Confirm the password:
Privilege: Administrator
☐ Change username
☐ Change password

Add

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	foscam	Administrator
2	admin	Administrator
3	user	Administrator
4		
5		
6		
7		
8		

Username:
Privilege: Administrator
☐ Change username
☐ Change password

Delete

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 administrator account cannot be deleted, but you can add other administrator users.

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.

The screenshot shows the 'Multi-Camera' configuration page. On the left is a sidebar with menu items: Status, Basic Settings, Camera Name, Camera Time, User Accounts, Multi-Camera (highlighted with a red box), Network, Video, Alarm, Record, PTZ, Firewall, and System. The main area is titled 'Multi-Camera' and contains a table of 'Cameras On LAN'. The first camera is selected, and its details are shown below. A red box highlights the 'The 2nd Camera' link in the table. A red arrow points from the 'anonymous(172.16.0.179)' entry in the 'Cameras On LAN' list to the 'The 2nd Camera' link. Another red arrow points from the 'Add' button to the '3 Click Add to take effect .' annotation. A third red arrow points from the 'admin' username field to the '2 Enter the User name and password of the 2nd camera .' annotation.

Cameras On LAN	This Camera
FI9821P(172.16.0.94)	
1111(172.16.1.71)	
FOSCAM(172.16.0.27)	
anonymous(172.16.0.179)	
FOSCAM(172.16.0.105)	

The 1st Camera: This Camera

The 2nd Camera: None

Camera Model: H264

Camera Name: anonymous

Host: 172.16.0.179

HTTP Port: 80

Media Port: 80

Username: admin

Password:

Buttons: Add, Delete

Annotations:

- 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 4.11

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) anonymous(192.168.11.203) anonymous(192.168.11.243)	Refresh
The 1st Camera	This Camera		
The 2nd Camera	anonymous(192.168.11.203)		
The 3rd Camera	FI9821W for ebuyer (192.168.11.241)		
The 4th Camera	anonymous(192.168.11.203)		
The 5th Camera	None		
The 6th Camera	None		
The 7th Camera	None		
The 8th Camera	None		
The 9th Camera	None		

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

Figure 4.12

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



Figure 4.13

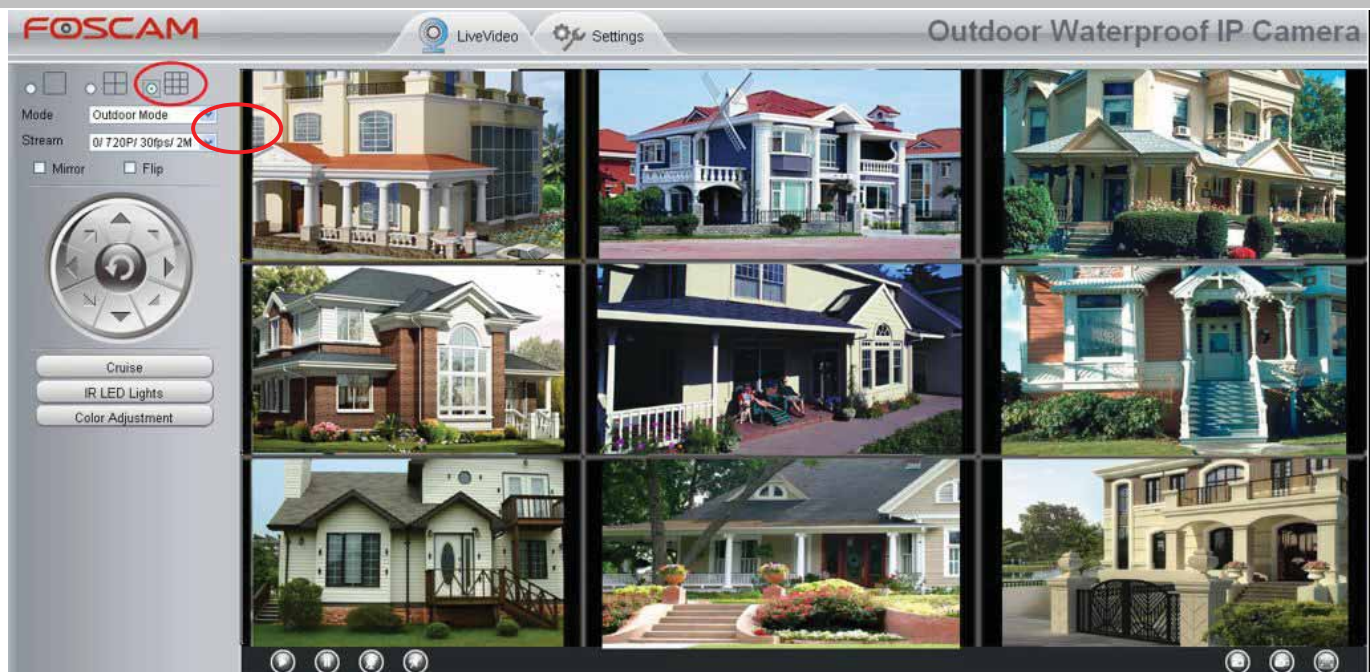


Figure 4.14

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.

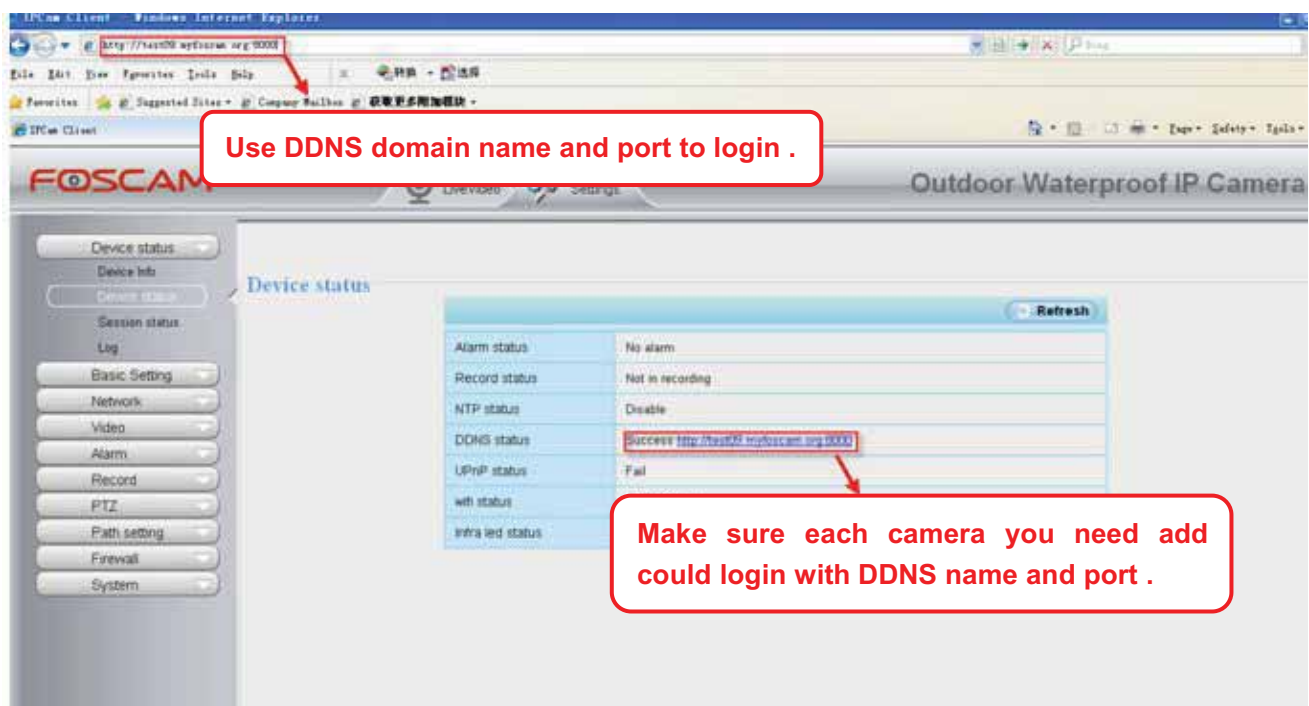


Figure 4.15

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	
<u>The 2nd Camera</u>	anonymous(192.168.11.203)	
Camera Model	MJ	1
Camera Name	apple	2
Host	camera.no-ip.info	3
HTTP Port	801	
Media Port	801	
Username	admin	4
Password		
	Add Delete	5
<u>The 3rd Camera</u>	None	
<u>The 4th Camera</u>	None	

Figure 4.16

- 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.

<div>Refresh</div>	
Device List in LAN	<div> apple(192.168.13.102) mycamera(192.168.13.108) ipcam(192.168.13.107) FI9821V-01(192.168.13.106) </div> <div>Refresh</div>
The 1st Device	This Device
The 2nd Device	apple(camera.no-ip.info)
The 3rd Device	ipcam(test01.foscam.org)
The 4th Device	mycamera(owlejwww.no-ip.info)
The 5th Device	None
The 6th Device	None
The 7th Device	None
The 8th Device	None
The 9th Device	None
<p>Attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.</p>	

Figure 4.17

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.



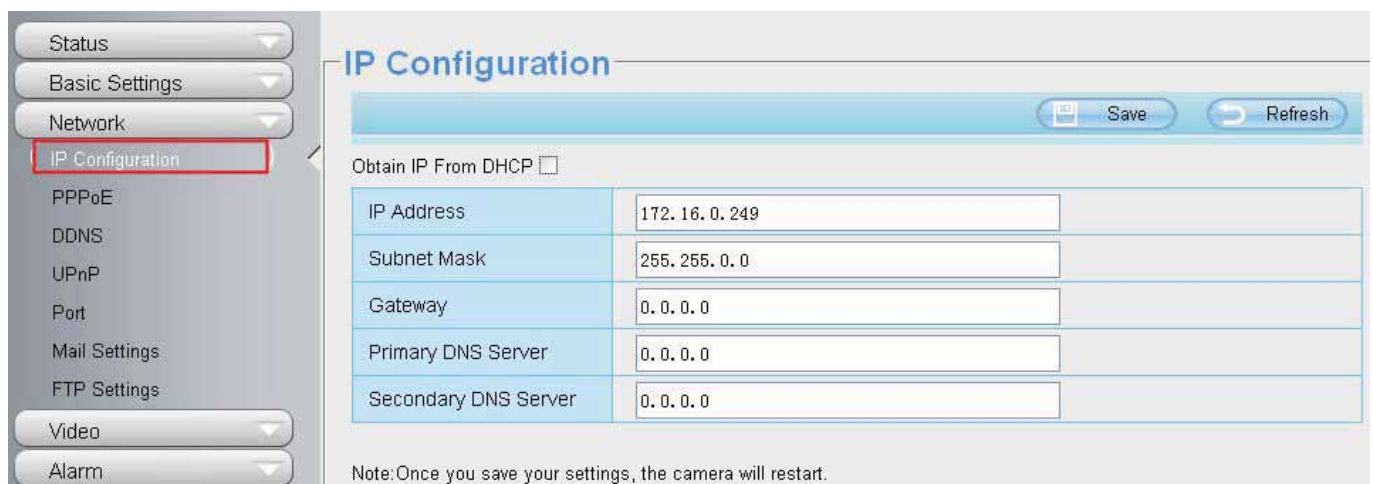
Figure 4.18

4.3 Network

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

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.



IP Configuration	
Obtain IP From DHCP <input type="checkbox"/>	
IP Address	172.16.0.249
Subnet Mask	255.255.0.0
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 4.19

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.

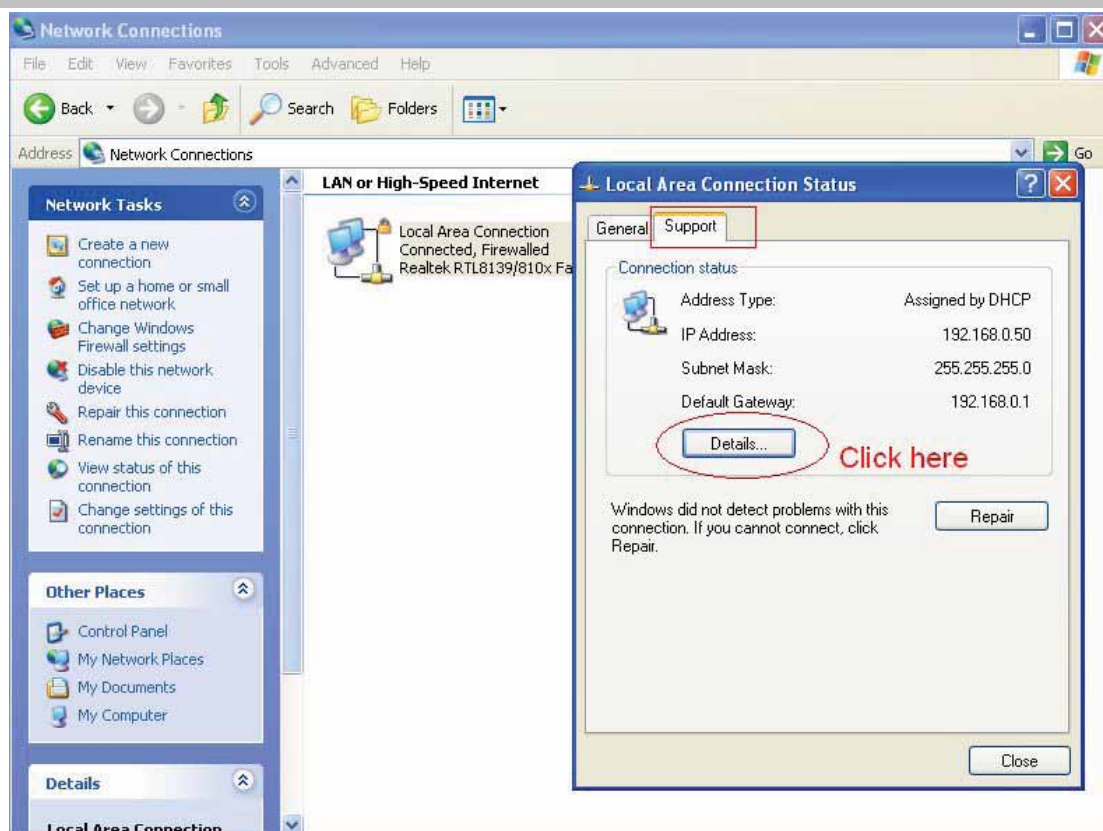


Figure 4.20

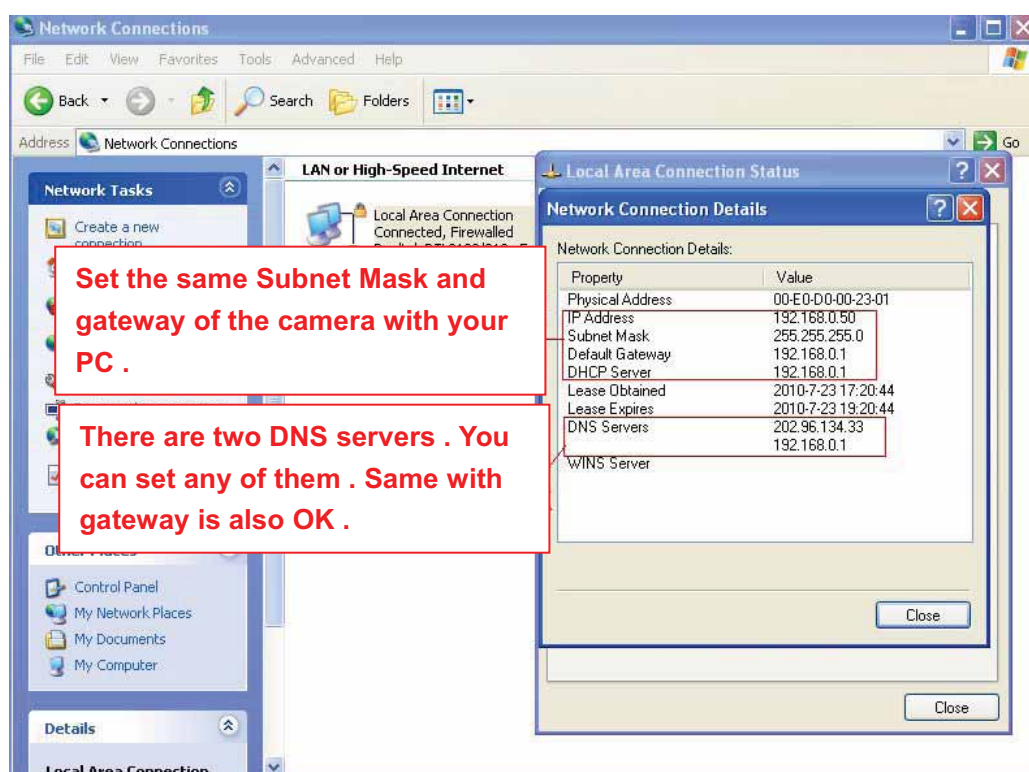


Figure 4.21

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 4.31).

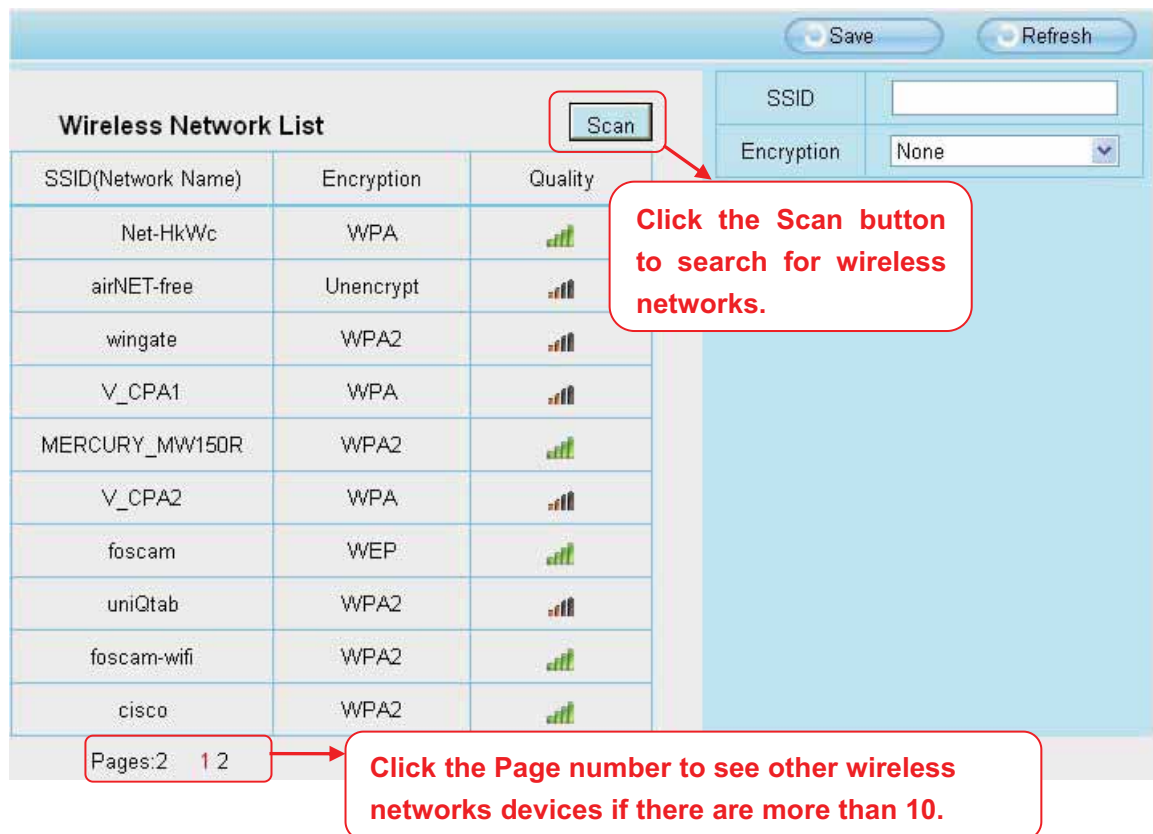


Figure 4.22

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.



Figure 4.23

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 (see Figure3.35/3.36).

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.

Figure 4.24

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 **cp4911.myfoscam.org** for example. Go to option of DDNS on the **Settings->Network** panel, you can see the domain name.

Figure 4.25

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

Take hostname **cp4911.myfoscam.org** and HTTP Port no. 8000 for example, the accessing link of the camera via internet would be **http://cp4911.myfoscam.org:8000**

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, www.3322.com

Here take **www.no-ip.com** for example :

① **Step 1 Go to the website www.no-ip.com to create a free hostname**

Firstly: Login on **www.no-ip.com** and click No-IP Free to register.



Figure 4.26

Please register an account step by step according to instructions on **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 4.27

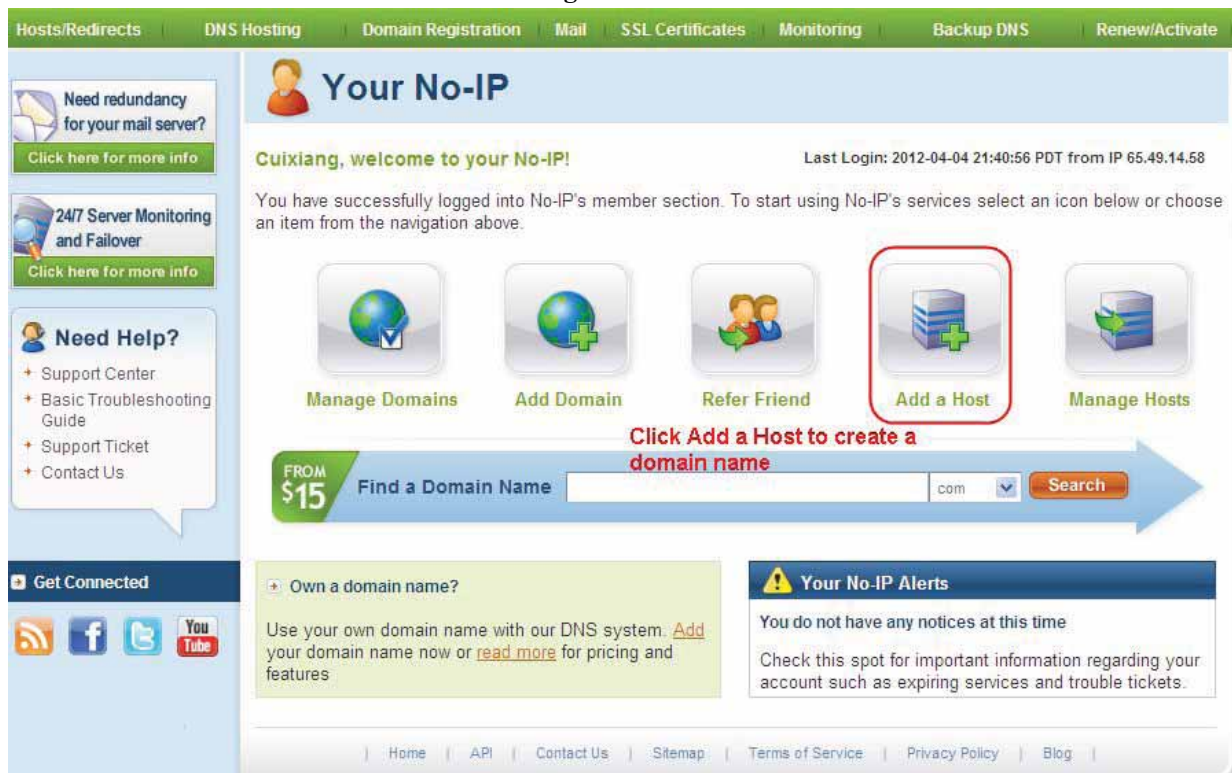


Figure 4.28

Please create the domain name step by step according to instructions on 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. Take hostname 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 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

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.

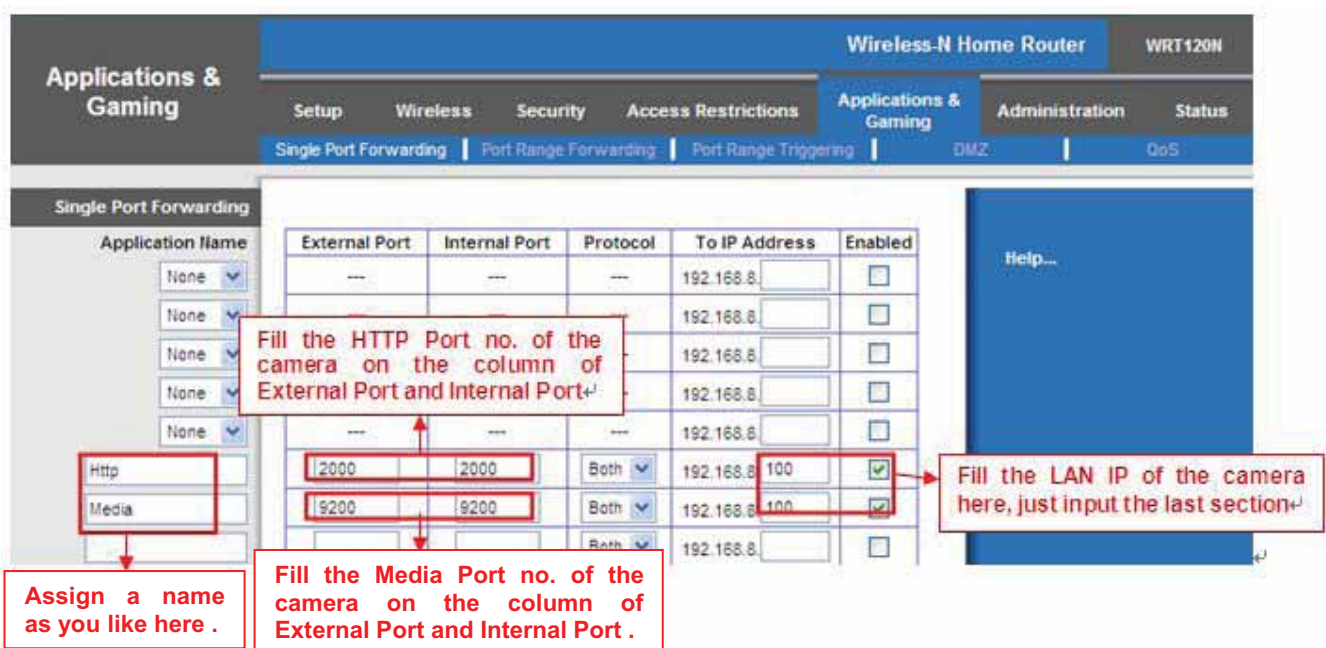


Figure 4.29

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. 2000for example, the accessing link of the camera via internet would be <http://ycxgwp.no-ip.info:2000>

4.3.5 UPnP

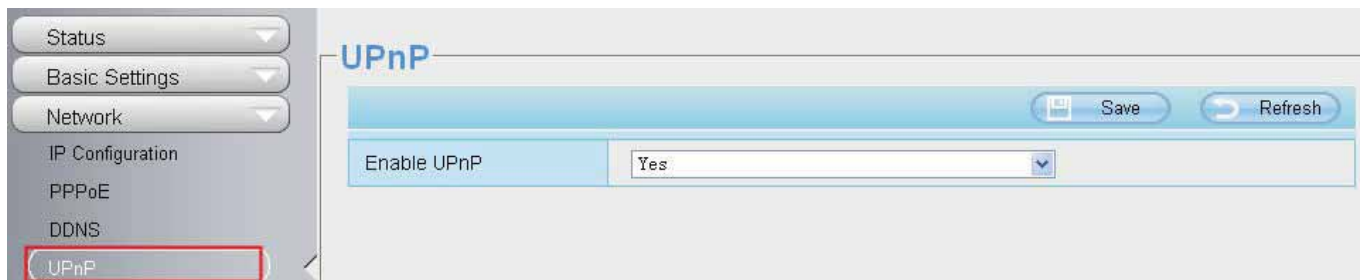


Figure 4.30

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:



Figure 4.31

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 (Figure 4.30).

4.3.6 Port

This camera supports HTTP Port / HTTPS Port/ ONVIF Port. HTTP Port is used to access the camera remotely.

HTTP port : By default, the HTTP 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.

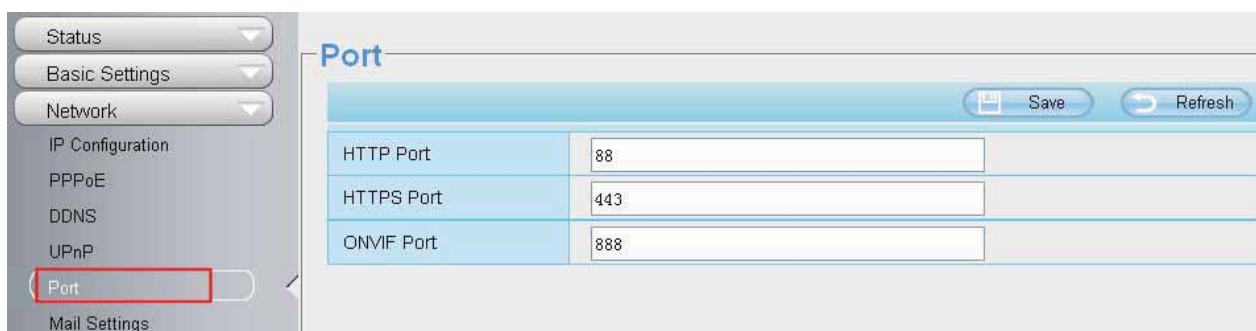


Figure 4.32

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 4.34 and 4.35.

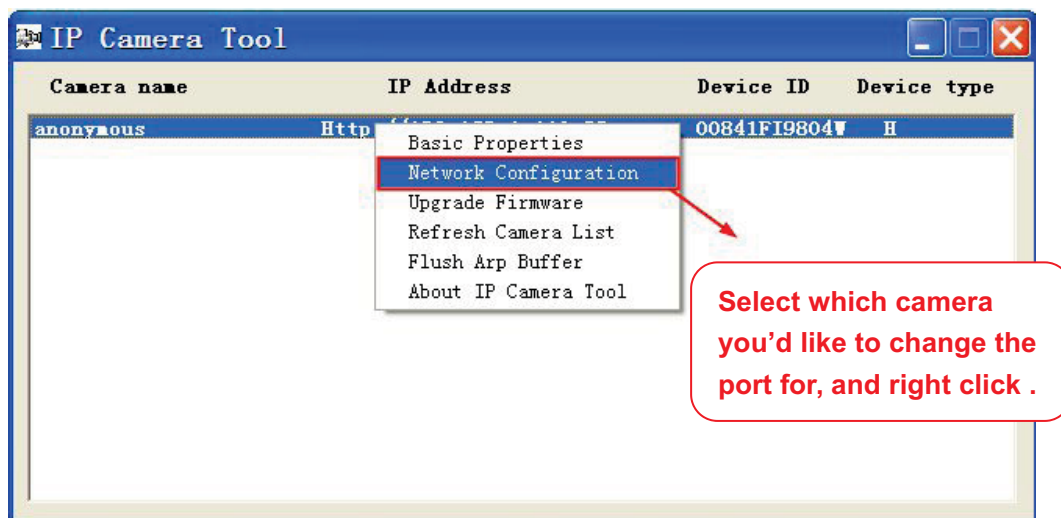


Figure 4.33

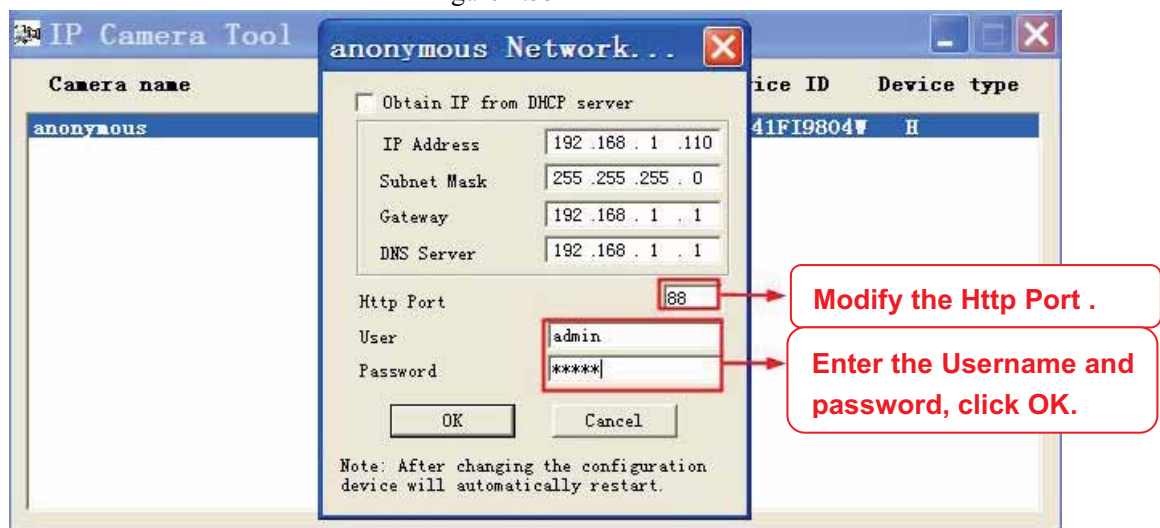


Figure 4.34

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 4.35

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.

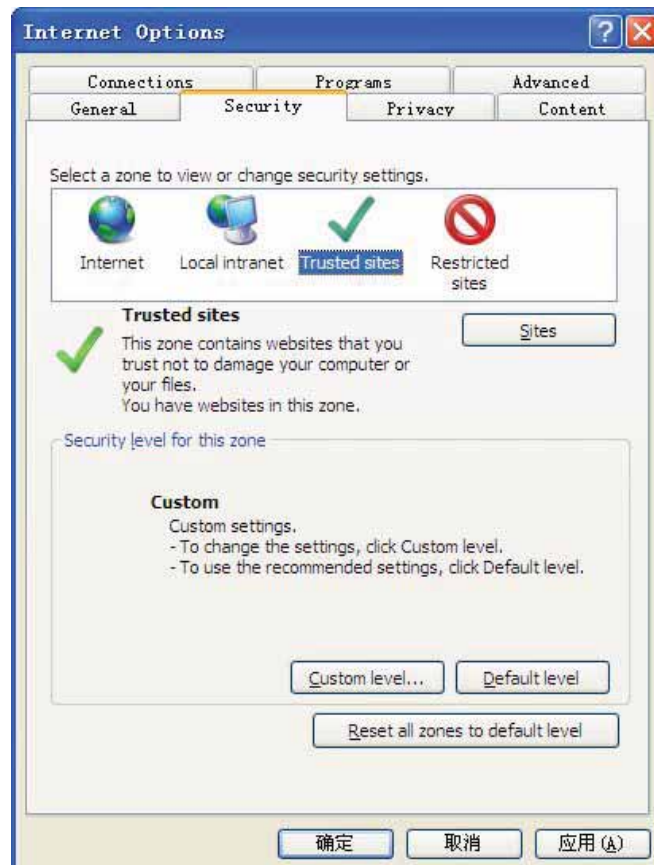


Figure 4.36

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 window. At the top right are 'Save' and 'Refresh' buttons. Below them is an 'Enable' checkbox which is checked. The main area contains several fields: 'SMTP Server' (smtp.gmail.com), 'SMTP Port' (25), 'Transport Layer Security' (STARTTLS), 'Need Authentication' (Yes), 'SMTP Username' (cuiyao93@gmail.com), 'SMTP Password' (masked with dots), 'Sender E-mail' (cuiyao93@gmail.com), and four 'Receiver' fields (First: yaoyao@163.com, others empty). A 'Test' button is located next to the password field. Red arrows and numbers point to specific elements: 1 points to the SMTP Server/Port/Security section; 2 points to the Username/Password section; 3 points to the Sender E-mail field; 4 points to the Receiver fields; 5 points to the Save button; and 6 points to the Test button.

Figure 4.37

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 4.38

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



Figure 4.39

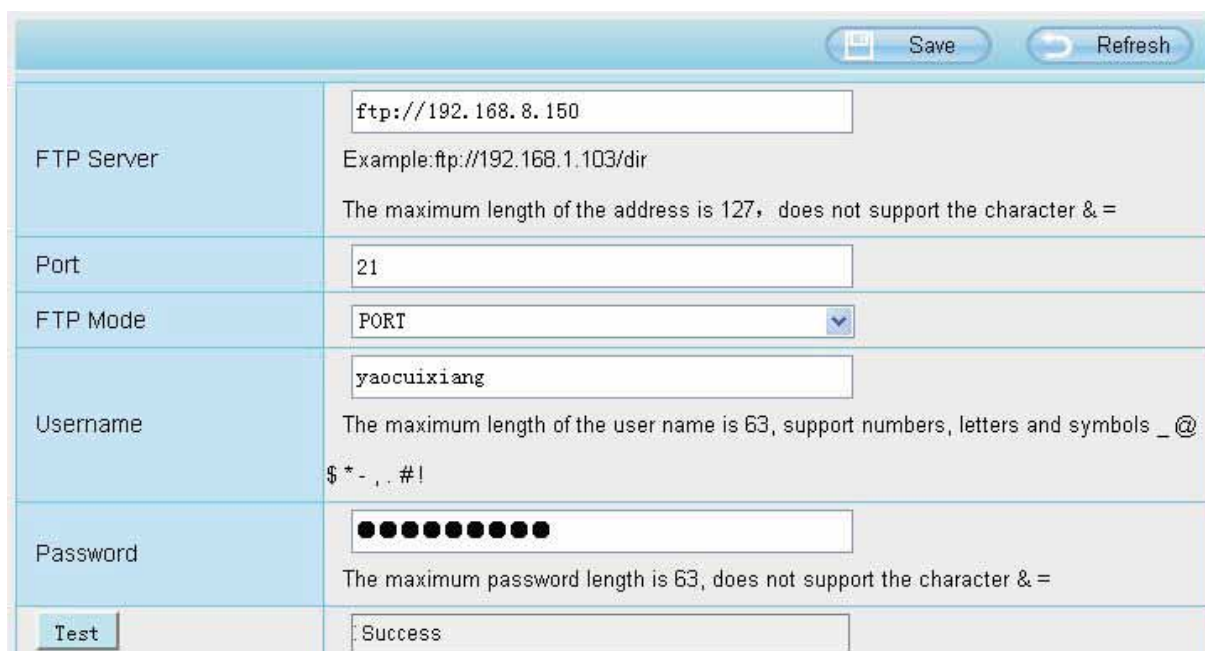
If the test fails with one of the following errors after clicking Test, verify that the information you entered is correct and again select Test .

- 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

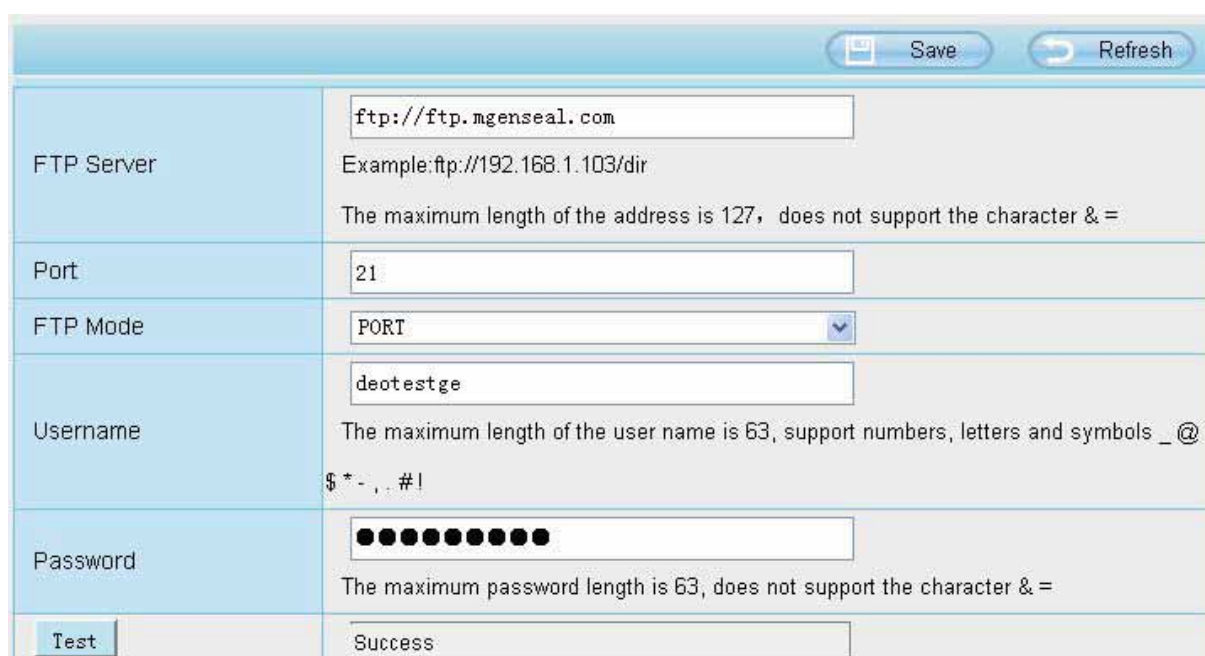
If you want to upload record images to your FTP server, you can set **FTP Settings**.



The screenshot shows the 'FTP Settings' window. At the top right are 'Save' and 'Refresh' buttons. The settings are as follows:

FTP Server	ftp://192.168.8.150 Example:ftp://192.168.1.103/dir The maximum length of the address is 127, does not support the character & =
Port	21
FTP Mode	PORT
Username	yaocuixiang The maximum length of the user name is 63, support numbers, letters and symbols _ @ \$ * - , . # !
Password	●●●●●●●● The maximum password length is 63, does not support the character & =
<div>Test</div> <div>Success</div>	

Figure 4.40



The screenshot shows the 'FTP Settings' window with the following settings:

FTP Server	ftp://ftp.mgenseal.com Example:ftp://192.168.1.103/dir The maximum length of the address is 127, does not support the character & =
Port	21
FTP Mode	PORT
Username	deotestge The maximum length of the user name is 63, support numbers, letters and symbols _ @ \$ * - , . # !
Password	●●●●●●●● The maximum password length is 63, does not support the character & =
<div>Test</div> <div>Success</div>	

Figure 4.41

FTP server: If your FTP server is located on the LAN, you can set as Figure 4.41.

If you have an FTP server which you can access on the internet, you can set as Figure 4.42.

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.

4.3.9 P2P

Access the camera by smart phone (Android or iOS operating system)

First of all, you need to open the P2P function of the camera at “Settings-->Network-->P2P.”



Figure 4.1

Search and install **Foscam Viewer** on Google Play and App Store for for Android and iOS devices.

If you want to know more details of the iOS APP or Android APP, see the *iOS App User Manual* or *Android App User Manual*.

4.4 Video

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

4.4.1 Video Settings

There are two ways to set the stream video settings. They are main stream video settings and sub stream video settings.

The screenshot shows the 'Video Settings' page in a web interface. On the left is a sidebar with a menu where 'Video Settings' is selected. The main content area has a title 'Video Settings' and 'Save'/'Refresh' buttons. It is divided into two sections: 'Main stream video settings' and 'Sub stream video settings'. Each section contains a table of settings.

Main stream video settings	
Stream Type	0
Resolution	720P
Bit Rate	2M
Frame Rate	30
Key Frame Interval	30

Sub stream video settings	
Stream Type	0
Resolution	VGA (640*480)
Bit Rate	512K
Frame Rate	15
Key Frame Interval	45

Figure 4.42

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

Resolution: The camera supports multiple types, For example: 960P, 720P, 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. (Different models support different specific types.)

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.

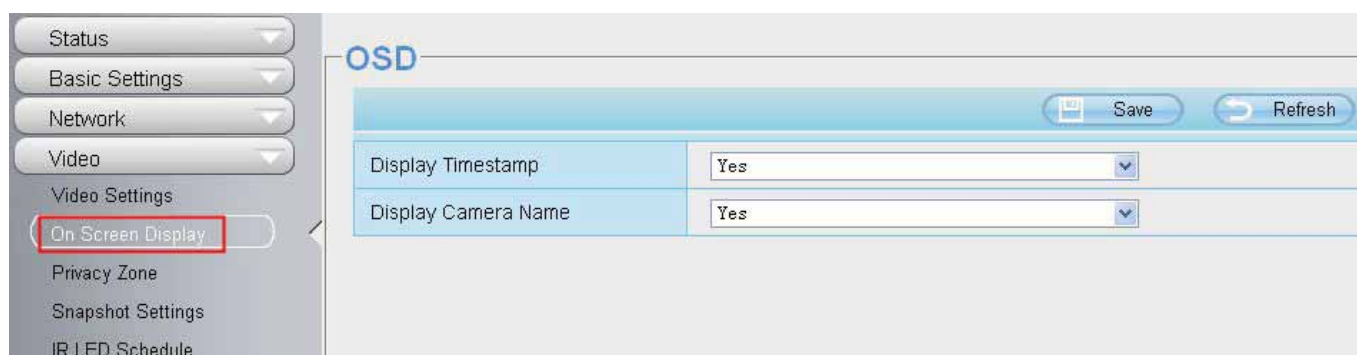


Figure 4.43

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 add privacy zone on the video.

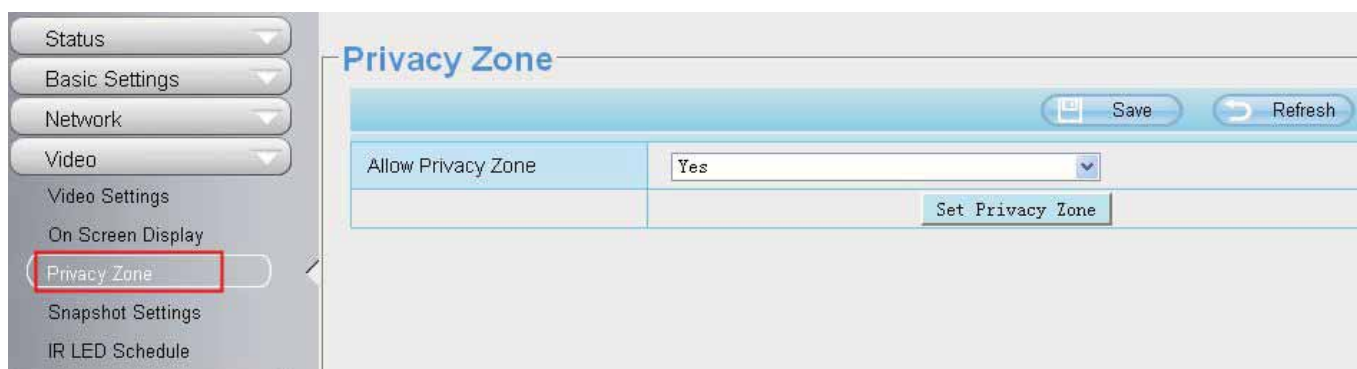


Figure 4.44

There are two options: Yes or NO. Select Yes, then click “Set Privacy Zone” and draw a privacy area on the video, the privacy area will be black on the video.

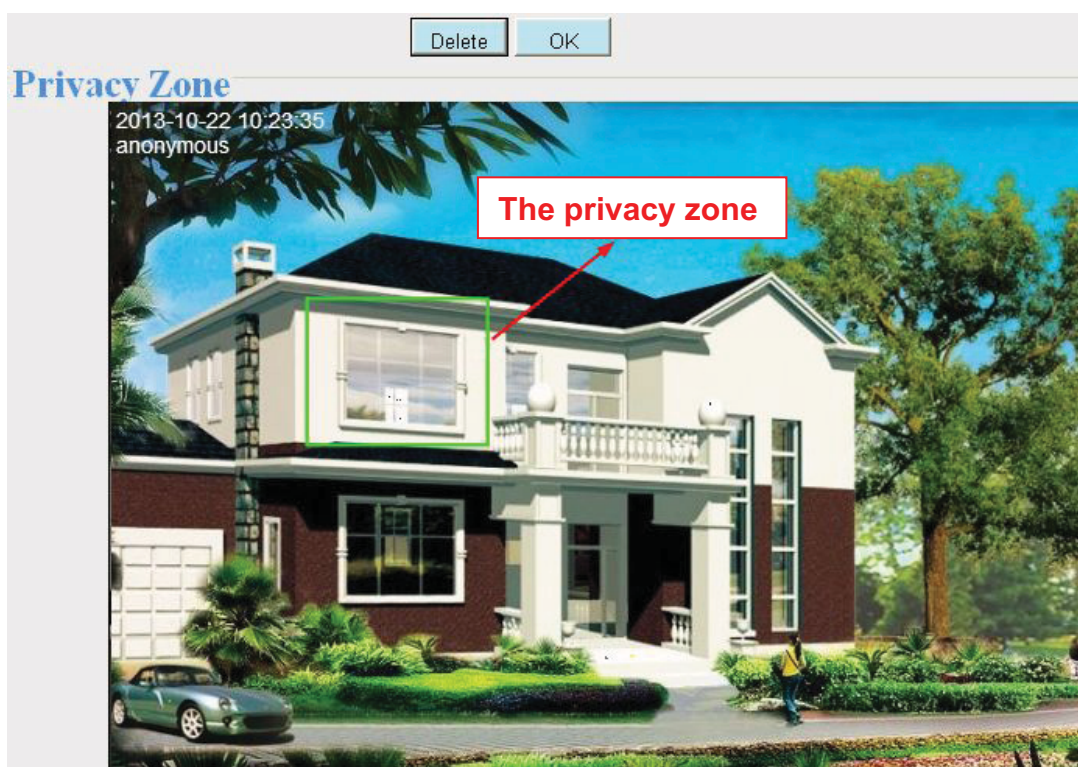


Figure 4.45

Click **OK** button and return to the **Privacy Zone** page, click Save to take effect.

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



Figure 4.46

4.4.4 Snapshot Settings

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

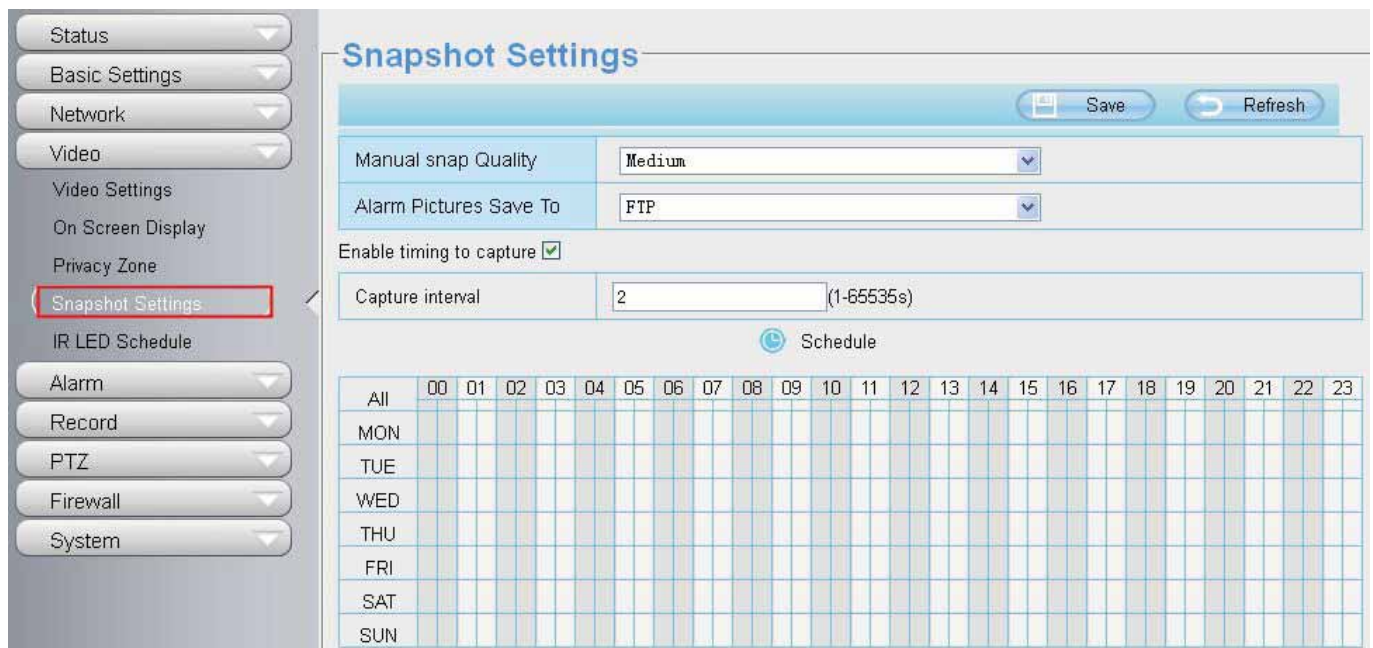


Figure 4.47

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.

4.4.5 IR LED Schedule

On this page you can set the schedule time for switching IR LED lights. When parameter Mode is set to the **Schedule** on the Live **Video** window, At these schedule time, the IR LED lights will be turned off.

Figure 4.48

4.4.6 Lens Distortion Correction

On this page you can set the distortion correction. There are three options: Low, Medium, High.

Figure 4.49

If you replace the lens, the image has found distortion, uneven and so on, you can modify the **Select The Distortion Correction Parameter** to calibration images.

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.

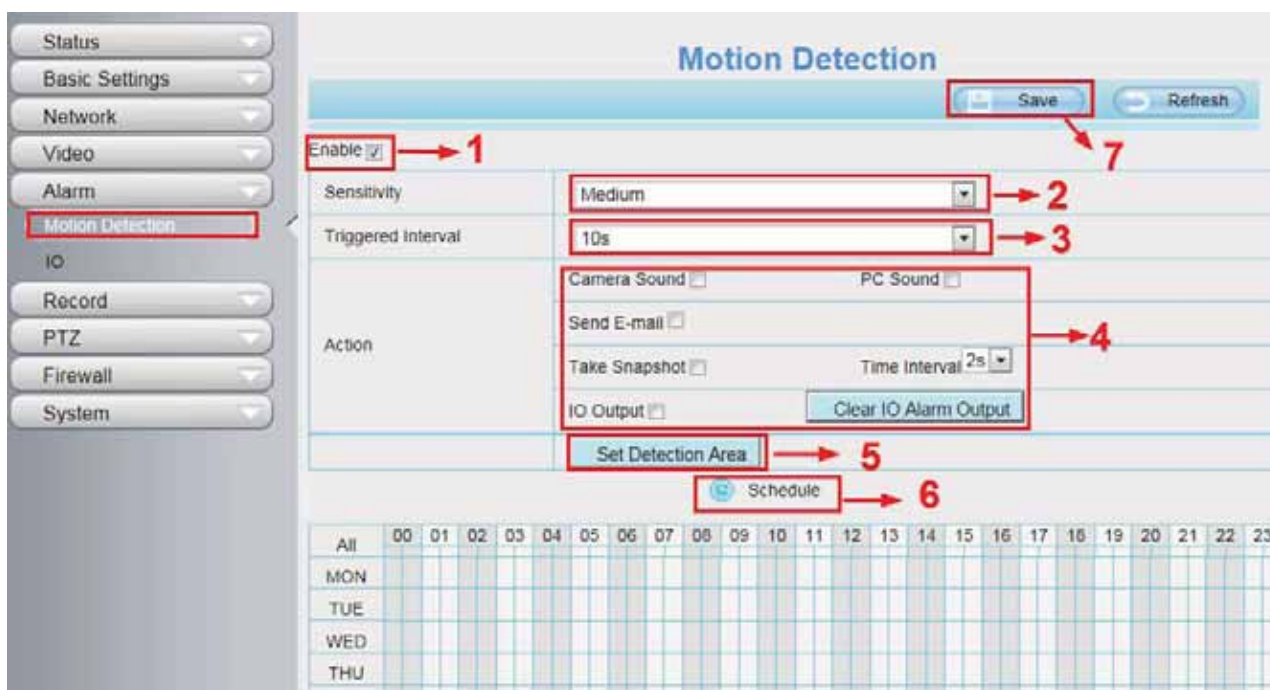


Figure 4.50

To enable motion detection, follow the steps below:

1 Enable Motion detection

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

3 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.

4 Select the alarm indicators

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

Refresh	
Alarm Status	Detect alarm
NTP Status	Disable
DDNS Status	Disable
UPnP Status	Success
WiFi Status	Connected to:foscam-wifi
IR LED Status	Off

Figure 4.51

There are three alarm indicators:

A Camera Sound and PC Sound

If the camera has connected with a speaker or other audio output device, if you select Camera Sound or PC Sound, 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.

Time 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.

5 Set detect area

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

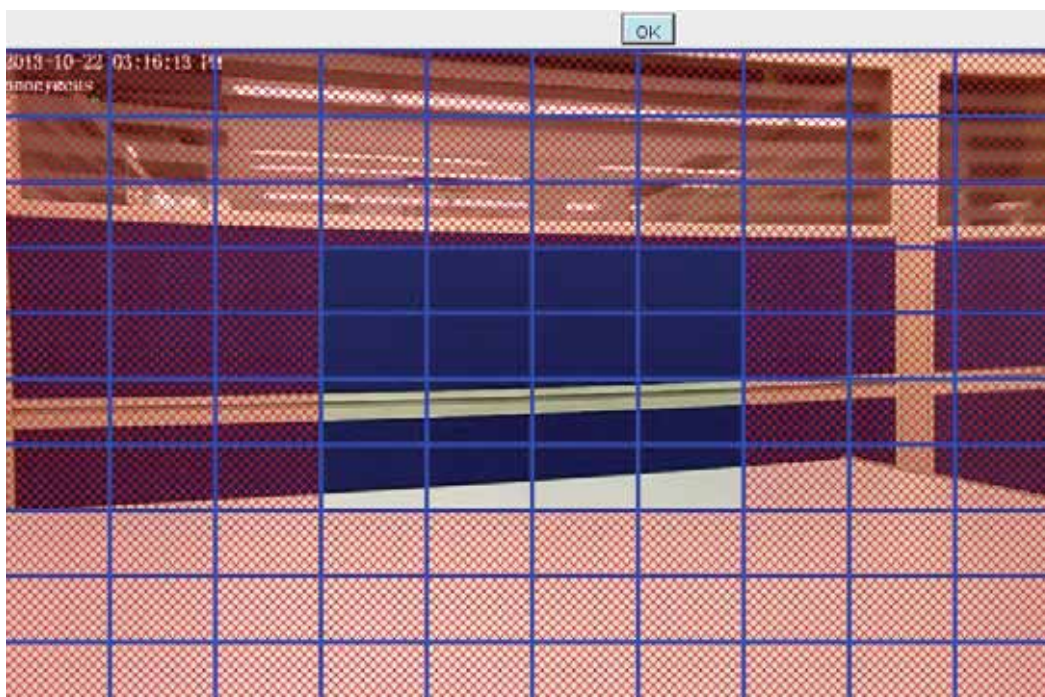


Figure 4.52

6 Alarm Schedule

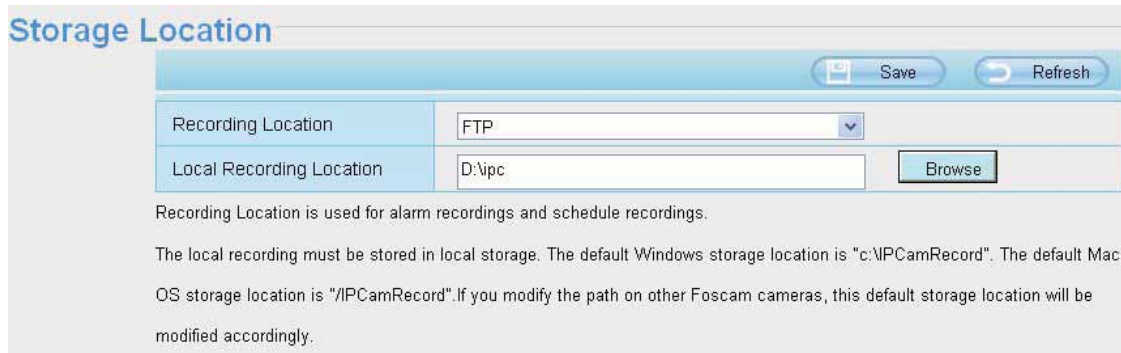
- ① Alarm anytime when motion is detected

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.

4.6 Record

4.6.1 Storage Location

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



Storage Location

Save Refresh

Recording Location	FTP
Local Recording Location	D:\ipc Browse

Recording Location is used for alarm recordings and schedule recordings.

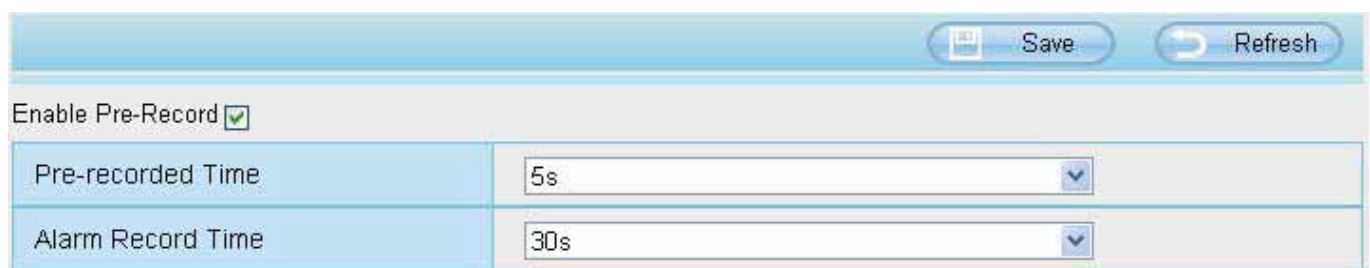
The local recording must be stored in local storage. The default Windows storage location is "c:\IPCamRecord". The default Mac OS storage location is "/IPCamRecord". If you modify the path on other Foscam cameras, this default storage location will be modified accordingly.

Figure 4.61

Recording Location : FTP.

Local Recording Location: For Windows OS, the manual recording path is C:/ IPCamRecord, you can change another one. For MAC OS, the manual recording path is: / IPCamRecord.

4.6.2 Alarm Record



Save Refresh

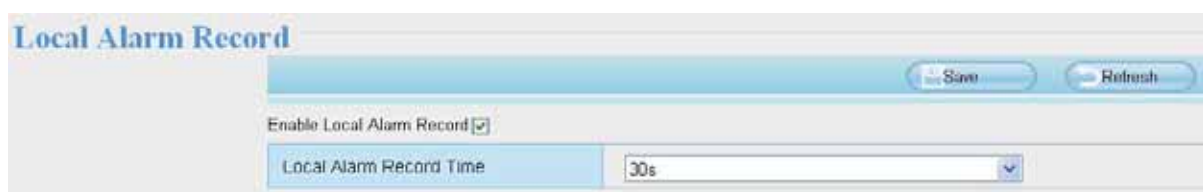
Enable Pre-Record ☒

Pre-recorded Time	5s
Alarm Record Time	30s

Figure 4.62

4.6.3 Local Alarm Location

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



Save Refresh

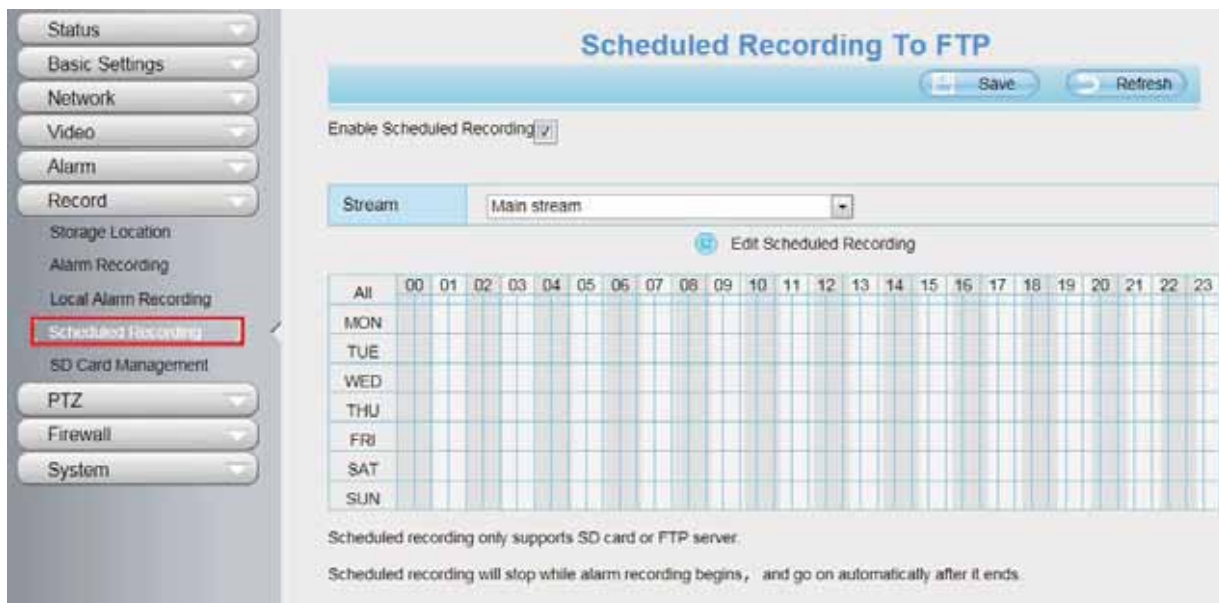
Enable Local Alarm Record ☒

Local Alarm Record Time	30s
-------------------------	-----

Figure 4.63

4.6.4 Schedule Recording

- If your recording Location is FTP, on the page you can configure the schedule record.



Scheduled Recording To FTP

Save Refresh

Enable Scheduled Recording ☒

Stream: Main stream

Edit Scheduled Recording

All	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																								

Scheduled recording only supports SD card or FTP server.

Scheduled recording will stop while alarm recording begins, and go on automatically after it ends.

Figure 4.64

You can select the main stream or sub stream from the drop-down.

You can set the store path of the recording file on the **Storage Location** page.

Stream: You can select the main stream or sub stream from the drop-down.

You can set the store path of the recording file on the **Storage Location** page.

Click **Save** button to take effect.

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**.

The screenshot shows the 'IP Filtering' configuration window. At the top, there are 'Save' and 'Refresh' buttons. Below them is the 'Enable Firewall' checkbox, which is checked. Underneath is the 'IP Filtering' dropdown menu, which is currently set to 'Block access from these IP addresses'. Below the dropdown is a table with 8 rows, each labeled 'IP Address #1' through 'IP Address #8'. Each row has a text input field for the IP address.

Figure 4.67

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 back up/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 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 4.68

4.9.2 System Upgrade

Click Browse, choose the correct bin file(System firmware or Web UI) and then click **System upgrade**.

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

Upgrade Result

Figure 4.69

If you want to verify the firmware version of you camera, please go to Device Status-> Device Information Page to check.

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.

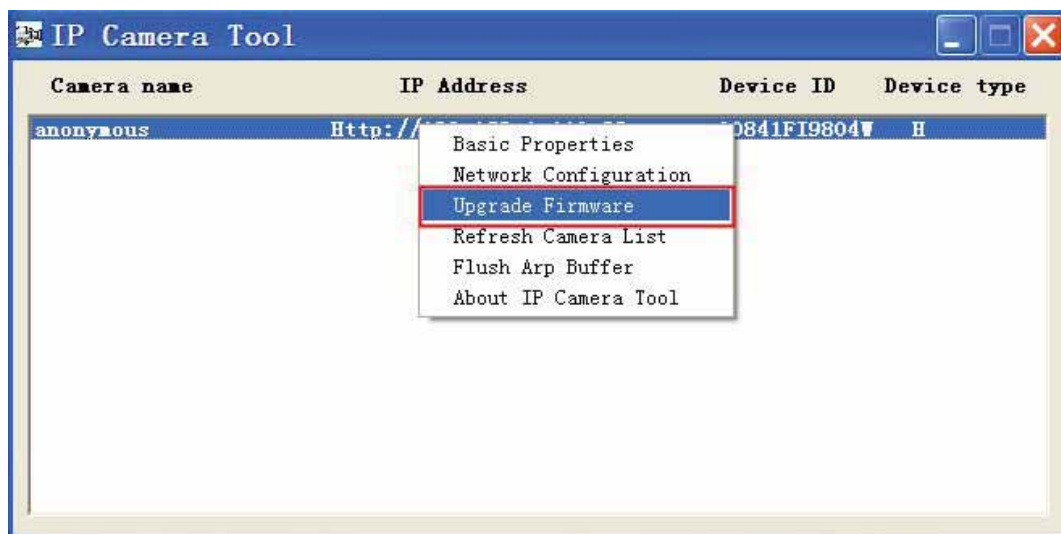


Figure 4.70

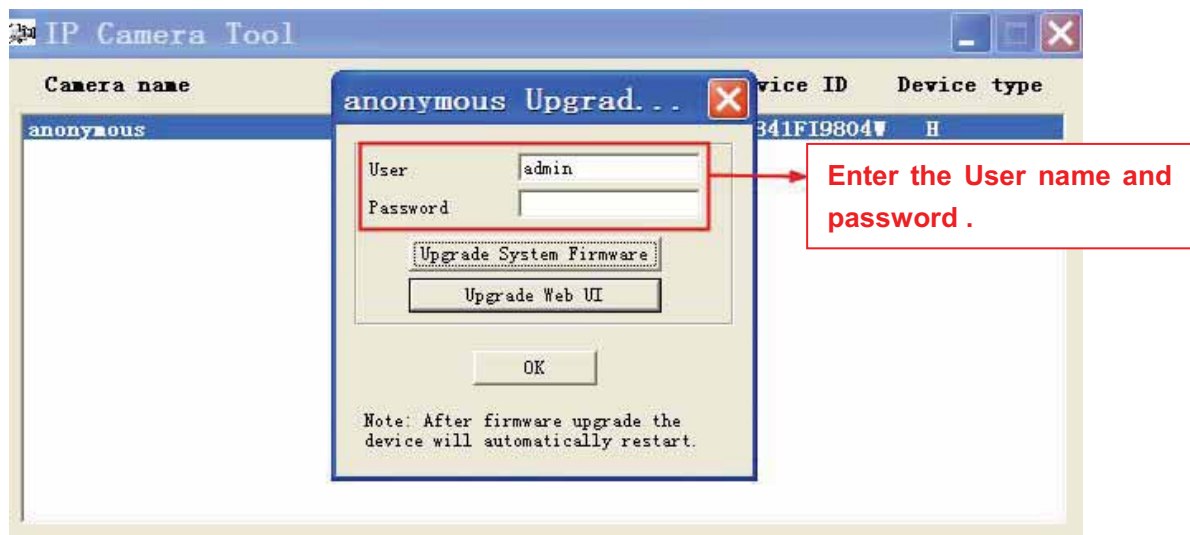


Figure 4.71

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) Don't upgrade the firmware through the web UI in WAN, or else the upgrade 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 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 clear the cache of browser, uninstall the old plugin and re-install it, then reset the camera to the default factory settings before using the camera.

4.9.3 Factory Reset

Click **Factory Reset** button and all parameters will return to factory settings if selected.
The default administrator username is admin with a blank password.

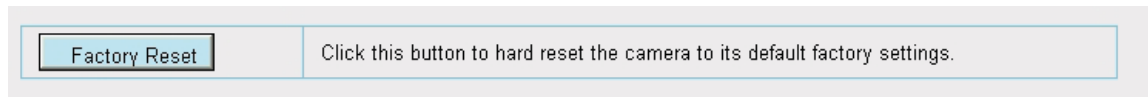


Figure 4.72

4.9.4 Reboot

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

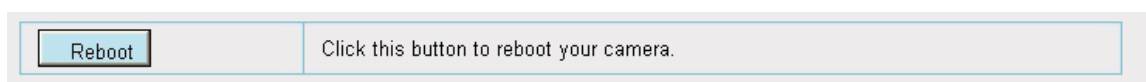


Figure 4.73

5 Operation Example

5.1 Motion Detection

Scene

Assume that user A use Foscam IP camera FI9804W. He wants to configure the motion detection alarm. when the motion has been detected, it will send emails or upload images to FTP.

Procedure

1. Choose **Alarm > Motion Detection**. The **Motion Detection** page appears. Configure the motion detection alarm parameters, as shown in figure 5.1.

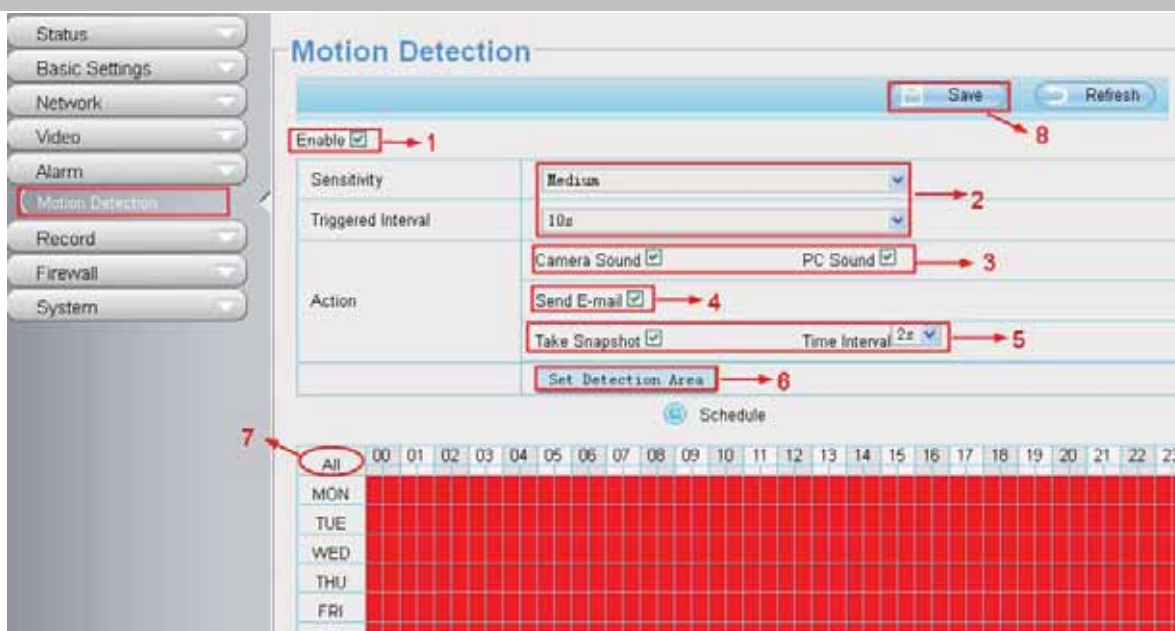


Figure 5.1

2. If you select the **Send E-mail** on the Motion Detection page, then you need to configure the mail message. Choose **Alarm > Motion Detection**. The **Motion Detection** page appears. Configure the mail parameters, as shown in figure 5.2.

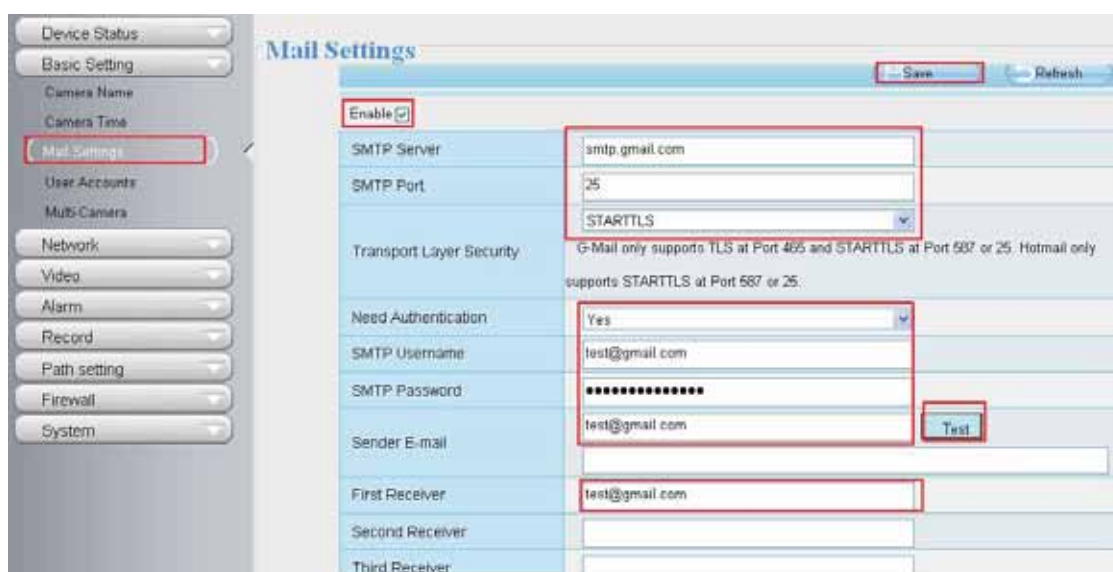


Figure 5.2

3. If you select the **Take Snapshot** on the **Motion Detection** page, you need to configure the capture settings and FTP storage path.

Choose **Video > Snapshot Settings**. The **Snapshot Settings** window appears. Configure the parameters, as shown in figure 5.3.

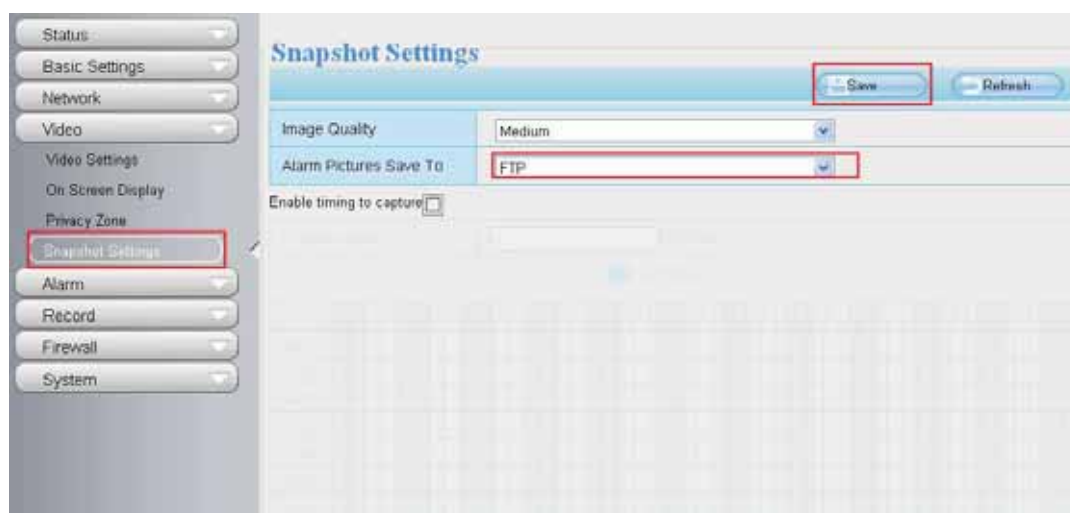


Figure 5.3

Choose **Network > FTP Settings**. The **FTP Settings** page appears. Configure the parameters, as shown in figure 5.4.

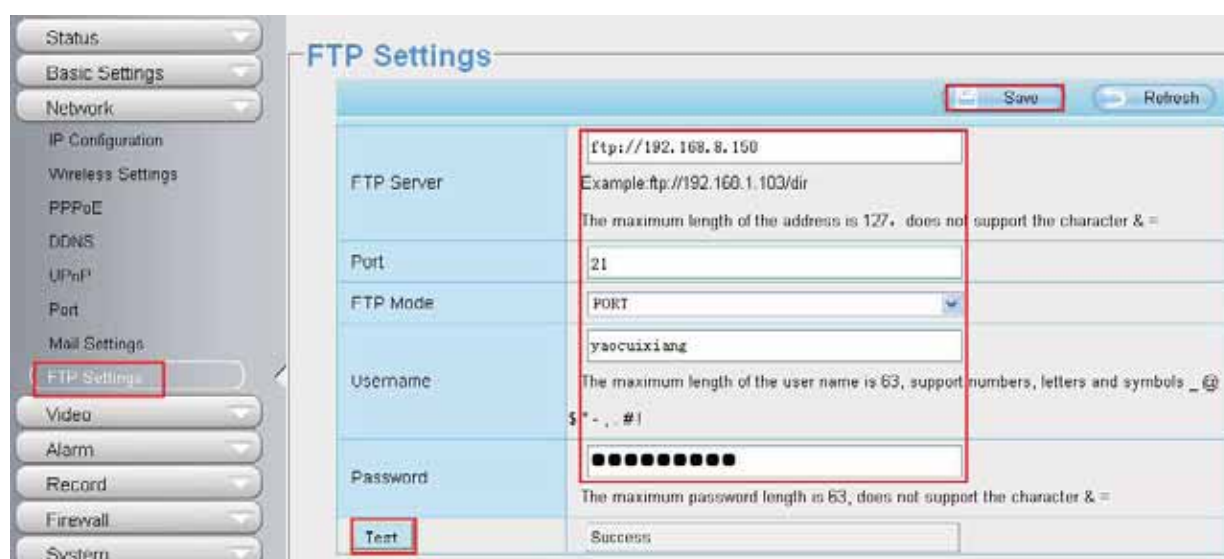


Figure 5.4

5.2 Modify the Camera Name and Time on the video

Scene

Assume that user A need to modify the camera name and time upper left corner of the video.

Procedure

1. Choose **Basic Setting > Camera Name**. The **Camera Name** page appears. Configure the parameters, as shown in figure 5.5.

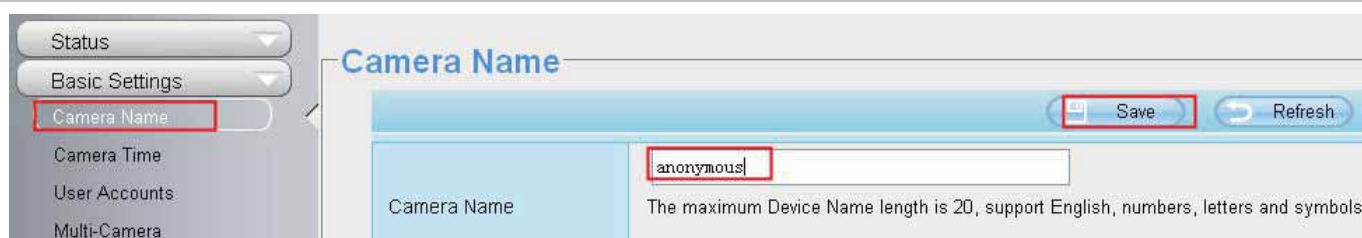


Figure 5.5

2. Choose **Basic Setting** > **Camera Time**. The **Camera Time** page appears. Configure the parameters, as shown in figure 5.6.

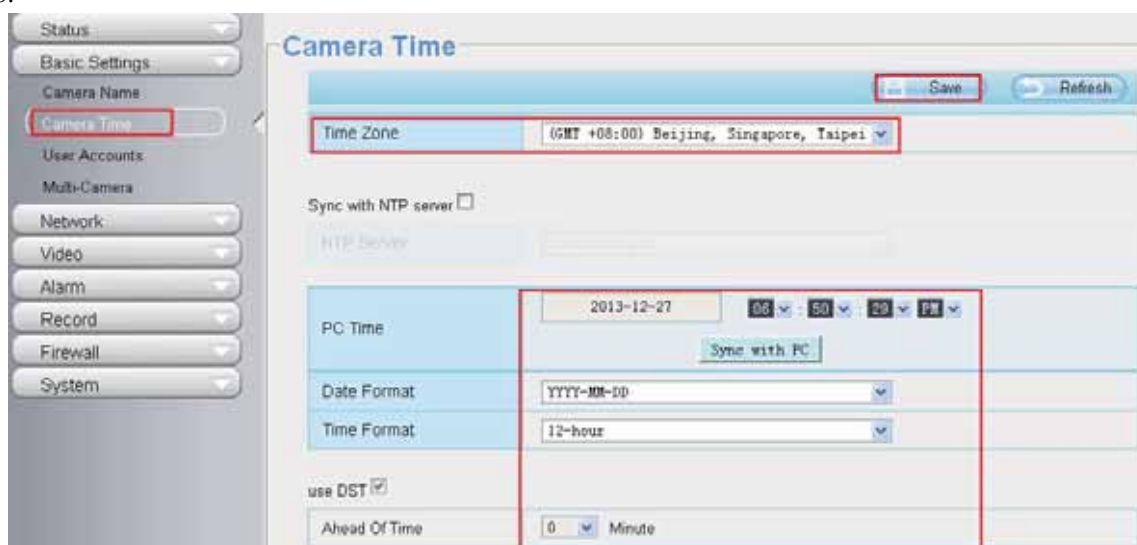


Figure 5.6

6 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*.

7 APPENDIX

7.1 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.

7.1.1 How to download and install the ActiveX for Firefox users

For the first time login the camera, it may prompt you to download plugin .



Figure 7.1

Drag the download file to Firefox web page and it will prompt you to Install it.

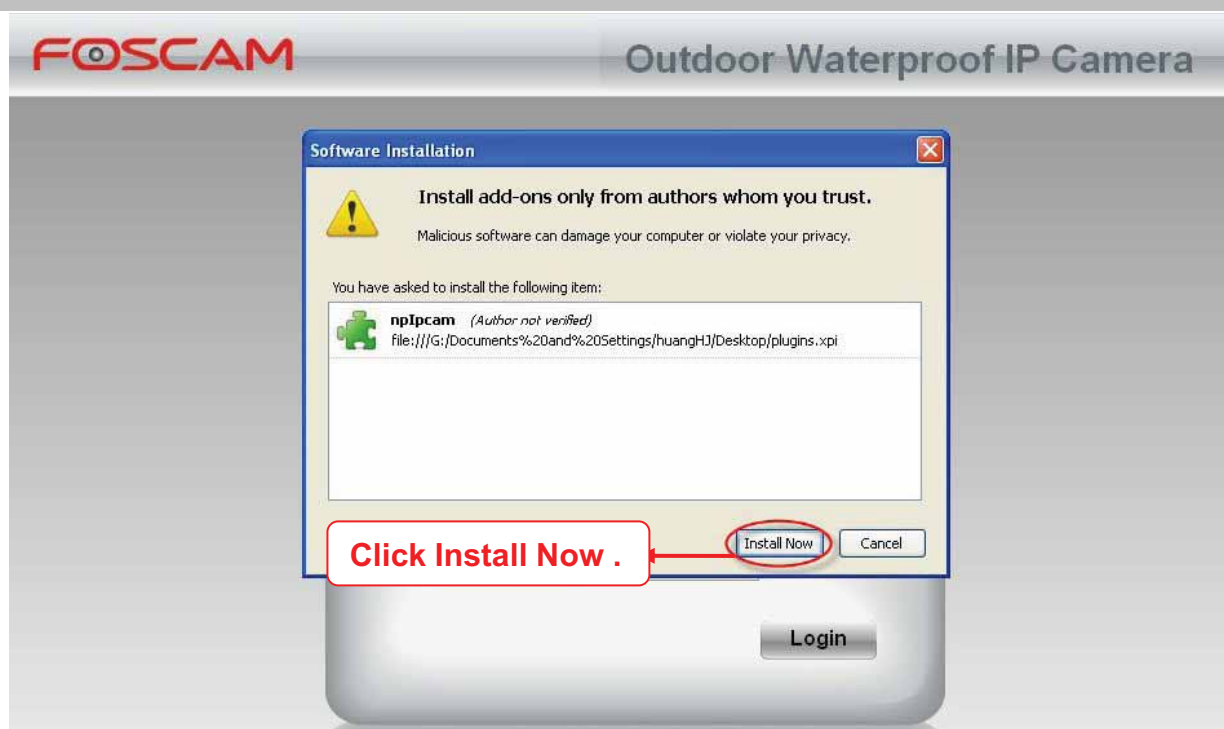



Figure 7.2

Reboot the Firefox after the plugin installation is successfully completely, then relogin the camera again, you can see the surveillance window

NOTE: If you could not view living video after running the ActiveX, only a red cross  in the center of the video or just a black screen. Please change another port number to try.

Make sure all firewall or antivirus software on your computer does not block the active download and installation. If you are unable to run the ActiveX control, try shutting down the firewall or antivirus program.

7.1.2 How to download and install the ActiveX for Google Chrome users

For the first time login the camera, it will prompt you to download the ActiveX.



Figure 7.3

Download the plugin and drag it to the **Extensions** page of Google Chrome.

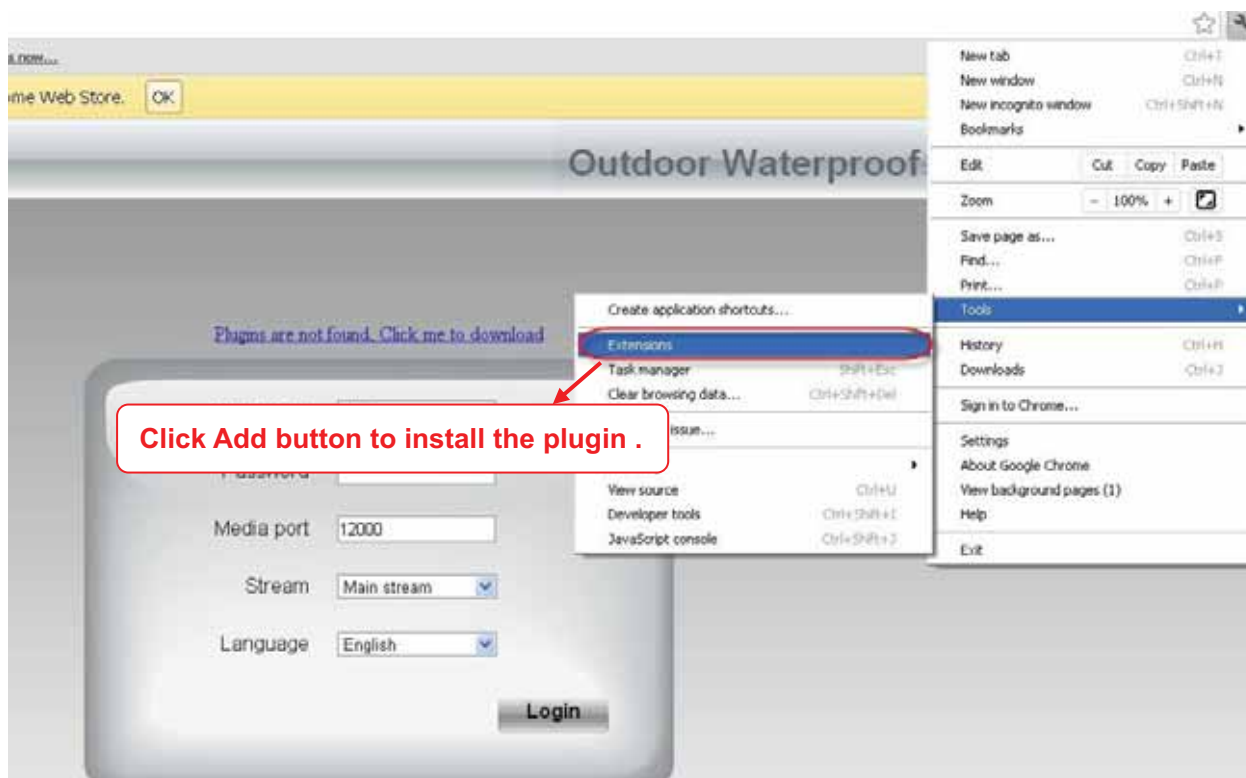


Figure7.4

Click Add button to install the Plugins.

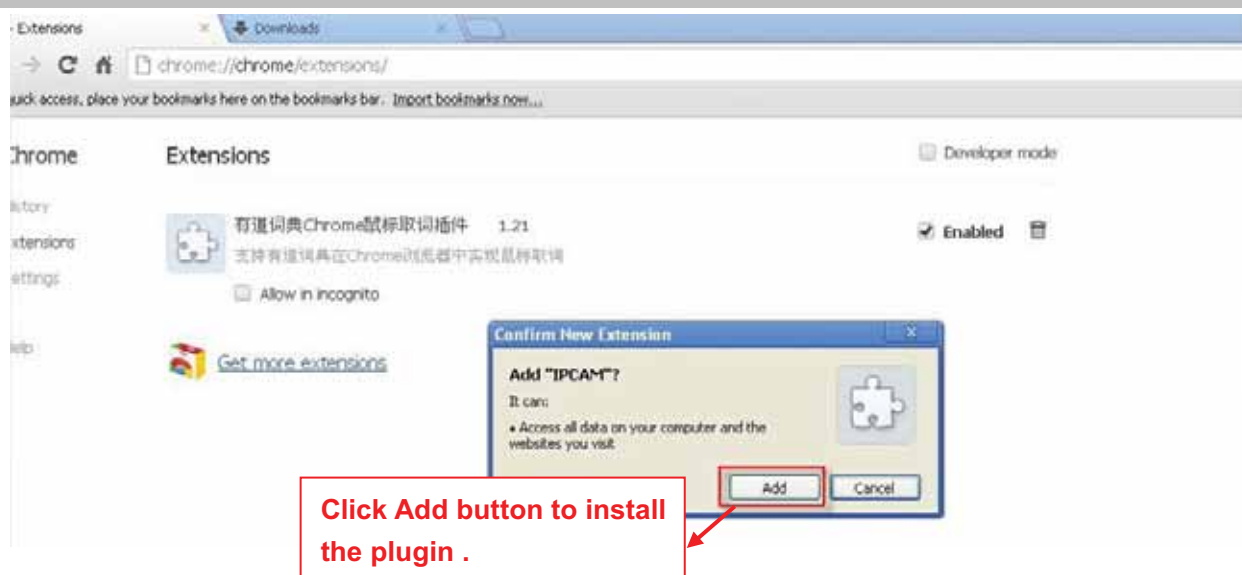


Figure 7.5

Reboot the browser and re-login the camera, you will see the surveillance window.

7.1.3 I have forgotten the administrator password

To reset the administrator password, you had better unplug the network cable firstly. After that, press and hold down the RESET BUTTON about 5 seconds. Releasing the reset button, the password will turn to the factory default.

Default administrator username/password: **admin with blank password**

7.1.4 Subnet doesn't match

Check whether your ip camera in the same subnet of your computer. The step is **Control Panel -- Network Connections -- Dbclick Local Area Connections -- Choose General -- Properties.**(Figure 4.23/4.24) 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.

7.1.5 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"

7.1.6 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

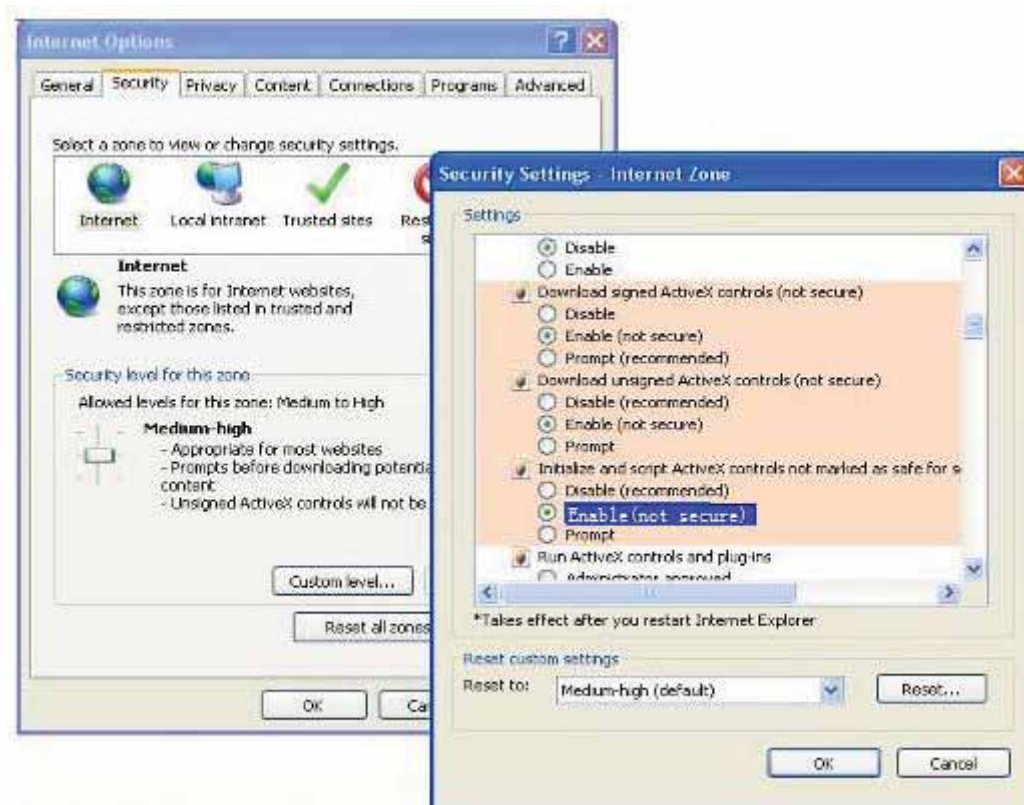


Figure 7.6

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.

<input type="button" value="Save"/> <input type="button" value="Refresh"/>	
HTTP Port	88
Media Port	88
HTTPS Port	443

Figure 7.7

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.

7.1.7 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. (Figure6.7)

3 Port forwarding is not successful(Figure4.30)

Check these settings and make sure they are correct.

7.1.8 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.

7.1.9 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.

7.1.10 Remove the plug-in

Remove the plug-in from IE

If you need to remove the plug-in from IE, please open an IE page.

Go to Tools-->Manage Add-ons-->Show All add-ons-->then find the ocxIPcam Control, double click to remove it.

Camera will prompt you to install the latest one when next logging.

(Do not login your camera during the deleting, or the plug-in won't removed caused it is running.)

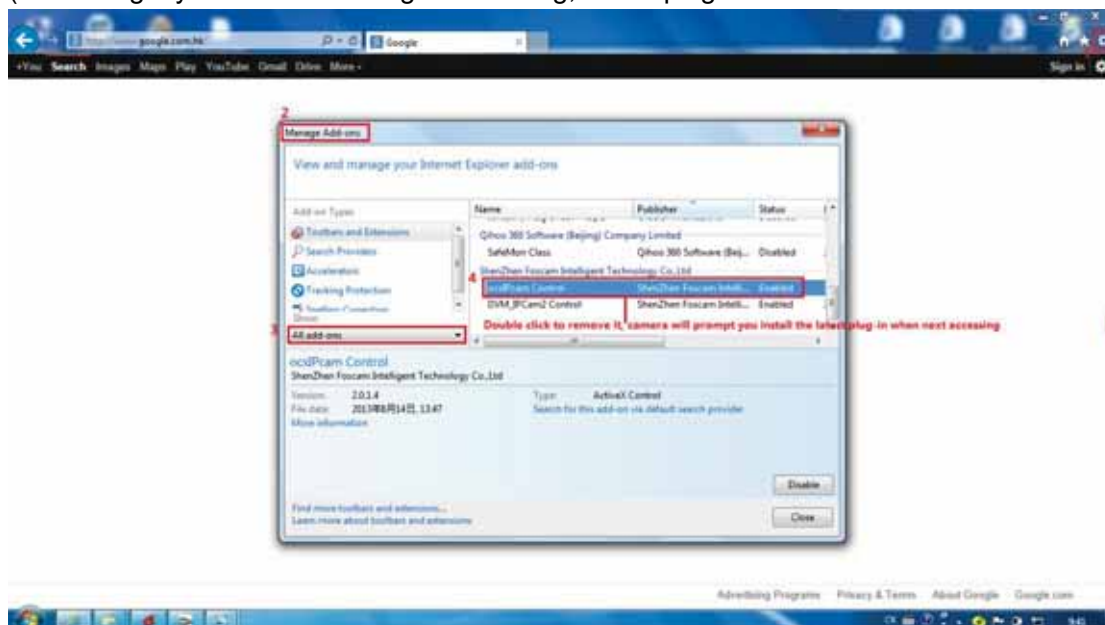


Figure 7.8

Remove the plug-in on Safari

If you need to remove the plug-in from Safari, please open a Finder window.

From the Finder menu bar click Go ---> Go to Folder

Copy then paste the following:

Library/Internet Plug-Ins

Click Go then move to the Internet Plug-Ins.

Find the fsIPCam.bundle file, and delete it.

Camera will prompt you to install the latest one when next logging.

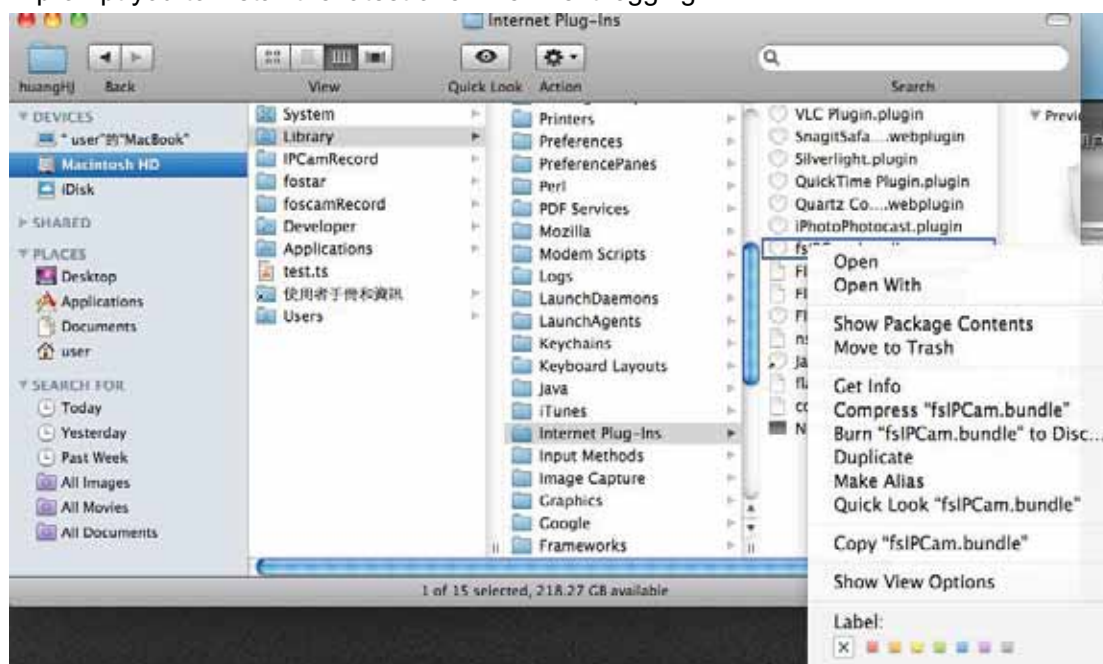


Figure7.9

Remove the plug-in from Chrome

If you need to remove the plug-in from Google Chrome, please open a new tab.

Click **Customize and Control Google Chrome**, then go to **Tools** ---> **Extensions**.

Find the IPCAM extension, and click the junk icon to remove it.

Camera will prompt you to install the latest one when next logging.

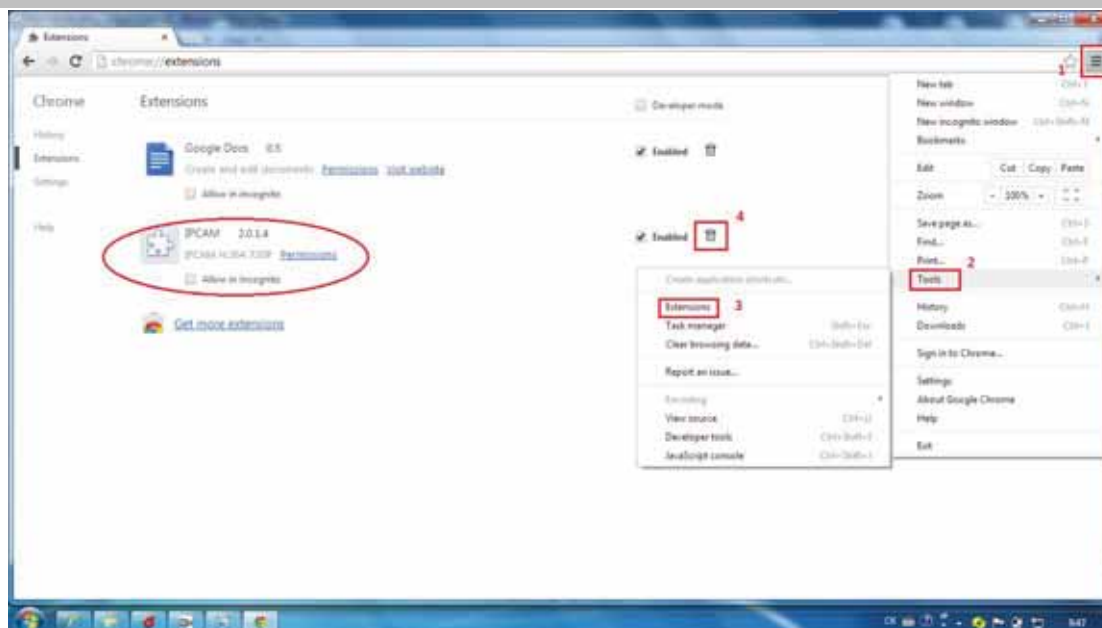


Figure 7.10

Remove the plug-in from Firefox

If you need to remove the plug-in from Firefox, please open a new tab.

Click the **Firefox** icon on the top right, then go to **Add-ons**.

Find the npIpcam 2.0.1.x, and click the **Remove** button to delete it.

Please follow a restart to take the change effect.

Camera will prompt you to install the latest one when next logging.

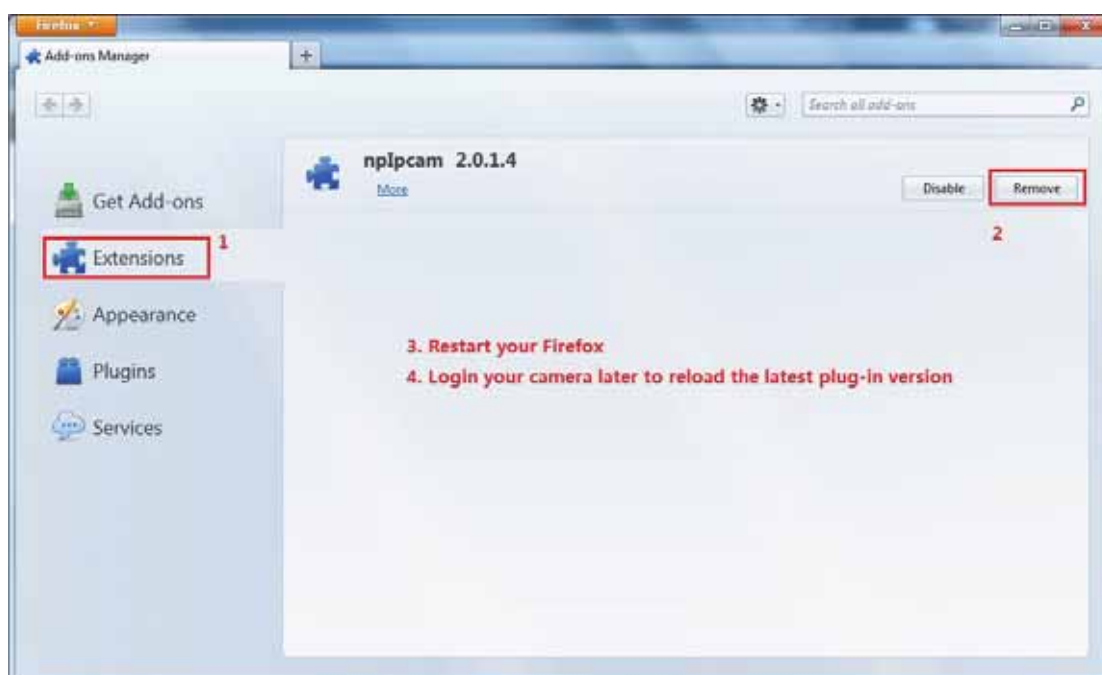


Figure 7.11

7.2 Default Parameters

Default network Parameters

IP address: obtain dynamically

Subnet mask: obtain dynamically

Gateway: obtain dynamically

DDNS: Embedded FOSCAM DDNS Service

Username and password

Default admin username: admin with a blank password

7.3 Specification

ITEMS		FI9803W
Image Sensor	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1.0 Megapixels
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	Glass Lens
	focal length	f: 4mm(option 2.8mm,6mm,8mm)
	Aperture	F1.2
	Angle of View	70°
Video	Image Compression	H.264
	Image Frame Rate	30fps(60Hz), 25fps(50Hz), downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), QVGA(320 x 240)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Night visibility	Infrared lamp array, night vision range up to 20 meters
Network	Ethernet	One 10/100Mbps RJ45 port
	Wireless	IEEE 802.11b/g/n (FI9803W only)
	Remote Access	P2P DDNS
	Network Protocol	IP, TCP, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, DDNS, UPnP, RTSP, ONVIF
System Requirements	Operating System	Microsoft Windows 2000/XP, Vista, 7; Mac OS
	Browser	Microsoft IE6 and above version or compatible browser; Mozilla Firefox; Google Chrome; Apple Safari.
Other Features	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Block	Set privacy area manually
	User Accounts	Three levels user role

	Firewall	Supports IP Filtering
	Reset	Reset button is available
Power	Power Supply	DC 12V/1.0A
	Power Consumption	5.5 Watts (Max.)
Physical	Dimension(mm)	153(L)x 92(W)x 86(H)
	Gross Weight	696g
	Net Weight	380g
Environment	Operating Temperature	-20°C ~ 55°C (-4°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	
Warranty	Limited 2-year warranty	

7.4 CE

CE Mark Warning



This is a Class A product.

7.5 WARRANTY

ShenZhen FOSCAM Intelligent Technology Limited.("FOSCAM") values your business and always attempts to provide you the very best of service.

No limited hardware warranty is provided by FOSCAM unless your FOSCAM product ("product") was purchased from an authorized distributor or authorized reseller. Distributors may sell products to resellers who then sell products to end users. No warranty service is provided unless the product is returned to an authorized return center in the region where the product was first shipped by FOSCAM or to the point-of-purchase, which may have regional specific warranty implications.

If you purchase your FOSCAM product from online store, please contact the point-of-purchase and ask for return/replacement/repair service.

Hardware Warranty Information

FOSCAM provide 2-year limited warranty for naked product and 6-month limited warranty for accessories.

Limited Hardware Warranty

FOSCAM products are warranted to be free from manufacturing defects in materials and workmanship starting from the shipping date of FOSCAM.

This limited hardware warranty does not cover:

- Software, including the software added to the products through our factory-integration system, software that included in the CD,etc.
- Usage that is not in accordance with product instructions.
- Failure to follow the product instructions.
- Abuse firmware upgrade without the authorized technician's guidance.
- Normal wear and tear.

Return Procedures

- Please read FOSCAM warranty policy & policy of your reseller first before sending items back to point-of-purchase.
- Customer must first contact point-of-purchase to obtain a Return Merchandise Authorization (RMA) number before returning the product. If the product you received is suspected to be defective and the product warranty has not expired, The RMA number will allow your reseller to track your return much easier and help them expedite processing your request.
- After receiving your RMA case number, pack the item(s) very well with the original box and all the original accessories included such as power adapters, brackets, cables, manuals, and driver CD disks.
- Write your RMA number and the return reason (the problem of the product) on the warranty card along with the complete package to send them back.

Replacement Services

- **If customers ask for replacement service, please contact point-of-purchase and follow their policy.**
- Our technicians will inspect all items returned for replacement requests. If the returned product is found in working order, we will return the same item received. However customers shall be responsible for all shipping & handling charges incurred for getting the units back to customers.
- If returned products are found defective, we will replace the product and assume the shipping cost for sending back the replacement unit to customers.
- If for any reason, we are unable to provide a replacement of the original returned item(s). You will have a choice for a "Substitute" item at the same equal value.
- We do not provide exchange and replacement due to normal hardware upgrade according the market after 14 days after the product is delivered.
- Our technicians will test the product before send out the replacement, any other demand for more than two times replacement for the same product during replacement limit will be rejected.
- **Replaced products are warranted from the balance of the former warranty period.**

Warranty Forfeiture

- Warranty is void if purchase from unauthorized distributor or reseller.
- **Warranty is void if trade-mark, serial tags, product stickers have been removed, altered or tampered with.**
- Warranty is void for mishandling, improper use, or defacing the product.
- **Abuse firmware upgrade without the authorized technician's guidance.**
- Warranty is void for physical damage, altered, either internally or externally, improper or inadequate packaging when returned for RMA purposes.

- Warranty is void if damage has resulted from accident, dismantle, abuse, or service or modification by someone other than the appointed vendor, source, or the spare part has been over the period of warranty.
- Warranty is void if product is damaged due to improper working environment or operation. (For example, improper temperature, humidity, unusual physical or electrical stress or interference, failure or fluctuation of electrical power, static electricity, using wrong power adapter, etc.)
- Warranty is void if damaged by the use of parts not manufactured or sold by FOSCAM.
- Damage caused by improper installation of third-party products.
- Warranty is void if damaged for irresistible cause, such as earthquake, fire, lightning, flood, etc.
- Product beyond limited warranty.

Shipping Fee

- If products are defective or damaged under normal use or operation in the replacement limit, distributors or resellers are responsible for the shipping cost the product back to customers, customers should assume the shipping cost send the product to the point-of-purchase.
- During replacement limit, if customers ask for replacement due to the product does not fit for customer's personal expectation, customers should responsible for both shipping fee.
- Customers shall be responsible for both shipping fee if their product beyond the replacement limit but still in warranty limit.

Repair Service Out Of Warranty

- FOSCAM provide extra repair service for product that out of warranty, it is chargeable. The total fee contains device cost and service fee. Device cost (including accessories) is the standard uniform price provide by FOSCAM.
- Different region may have different service fee, please contact the point-of-purchase to confirm that before you ask for this service.
- Our technicians will quote the total price after detect the product, If customers refused to repair after the quotation, customers need pay for the test fee, \$3.5/hour. If agree with the quotation, test will be free.
- Repaired product out of warranty will obtains 3-month warranty from the date of the product back to customers.

Limitation of Liability

- FOSCAM is not responsible for other extra warranty or commitment promised by resellers, if your reseller promised some extra commitment or warranty; please ask for written documents to protect your rights and interests.
- FOSCAM does not offer refunds under any circumstances. Please contact the point-of-purchase and follow their refund/return policy.
- FOSCAM shall not be liable under any circumstances for any consequential, incidental, special or exemplary damages arising out of or in any connection with this agreement or the products, including but not limited to lost profits, or any claim based on indemnity or contribution, or the failure of any limited or exclusive remedy to achieve its essential purpose or otherwise. Purchaser's exclusive remedy, as against FOSCAM, shall be the repair or replacement of defective parts. If FOSCAM lists a product on its website specification in error or that is no longer available for any reason, FOSCAM reserves the right to explain it without incurring any liability.

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8 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.

FCC Caution:

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

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.

Note: This equipment has been tested and found to comply with the limits for a Class A 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 instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

