

# ***User Manual***

**Model: FI8906W**

**Outdoor Wireless IP Camera**



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## 1 Overviews

FI8906W is an integrated wireless IP Camera with a color CMOS sensor. 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.

The IPCAM supports IR-CUT, when light conditions turns poor, the IR cut filter will be automatically removed to accept IR illumination. Meanwhile, the camera switches itself automatically from color to black and white, assuring optimal image quality at all times.

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

This camera is designed for outdoor surveillance applications such as gardens, courtyards or parks. 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 ip cam viewer” and install it through APP Store, then you can view your camera directly as a computer.

## 1.1 Key Features

- Powerful high-speed video protocol processor
- High Definition Color CMOS Sensor
- 300K Pixels
- IR night vision (Range: 30m)
- Optimized MJPEG video compression for transmission
- Multi-level users' management and passwords definition
- Embedded Web Server for users to visit by IE
- Wi-Fi compliant with wireless standards IEEE 802.11b/g/n
- Supports IR\_CUT and the filter change automatically
- Supports Dynamic IP (DDNS) and UPnP LAN and Internet (ADSL, Cable Modem)
- Embedded FOSCAM DDNS (dynamic domain name service ) Service
- Motion detection activates alarm
- Supports image snapshot
- Supports multiple network protocols: HTTP/TCP/IP/UDP/STMP/DDNS/SNTP/DHCP/FTP
- Supports WPS(Wi-Fi Protected Set-up)
- Supports WEP/WPA/WPA2 encryption
- Supports Daylight Saving Time
- Supports MSN
- Supports Gmail as sender on mail service settings
- Providing Phone APPs for Android and iPhone users
- 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 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.

## 1.3 Packing Contents

• IPCAM×1	• CD×1
• Wi-Fi Antenna×1 (only available for wireless model)	• Quick Installation Guide×1
• DC Power Supply×1	• Warranty Card×1
• Mounting bracket×1(option)	
• Network Cable×1	

## 1.4 Physical Description

### Front Panel



Figure 1.1

- 1 WIFI Antenna:** Wireless Antenna
- 2 LENS:** CMOS sensor with fixed focus lens
- 3 Infrared LED:** 60 IR LEDs

## Back View

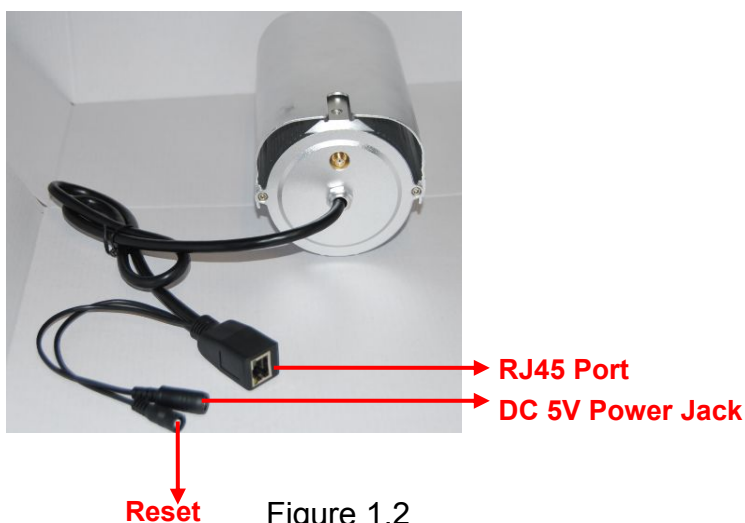


Figure 1.2

**LAN:** RJ-45/10-100 Base T

**Power:** DC 5V/2A Power supply

### RESET BUTTON:

- 1) Press and hold down the RESET BUTTON for 10 seconds. Release the power button and IP camera will be reset back to the factory default parameter.
- 2) Press and hold down the RESET BUTTON about 4 seconds, then press the WPS button on the router, then you can use the WPS function. (For more details: please read Wireless Settings in the User Manual)

## 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 1.3, it may be a clone one. Cloned Foscam cameras can not use original firmware and are not eligible for warranty or technical services.

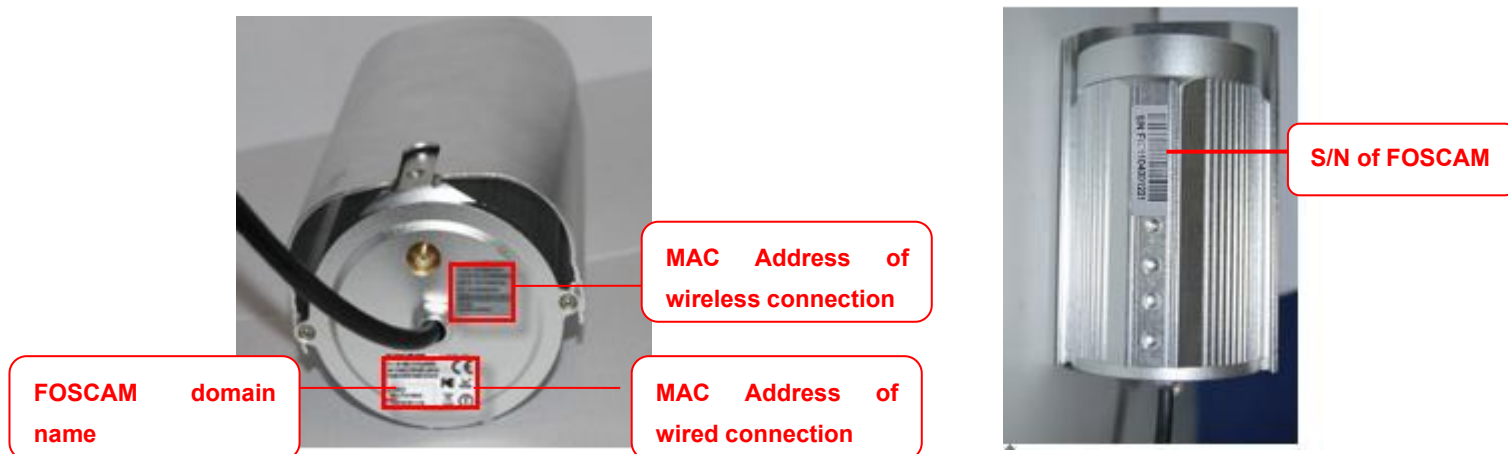


Figure 1.3

## 2 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.

### 2.1 Login Window

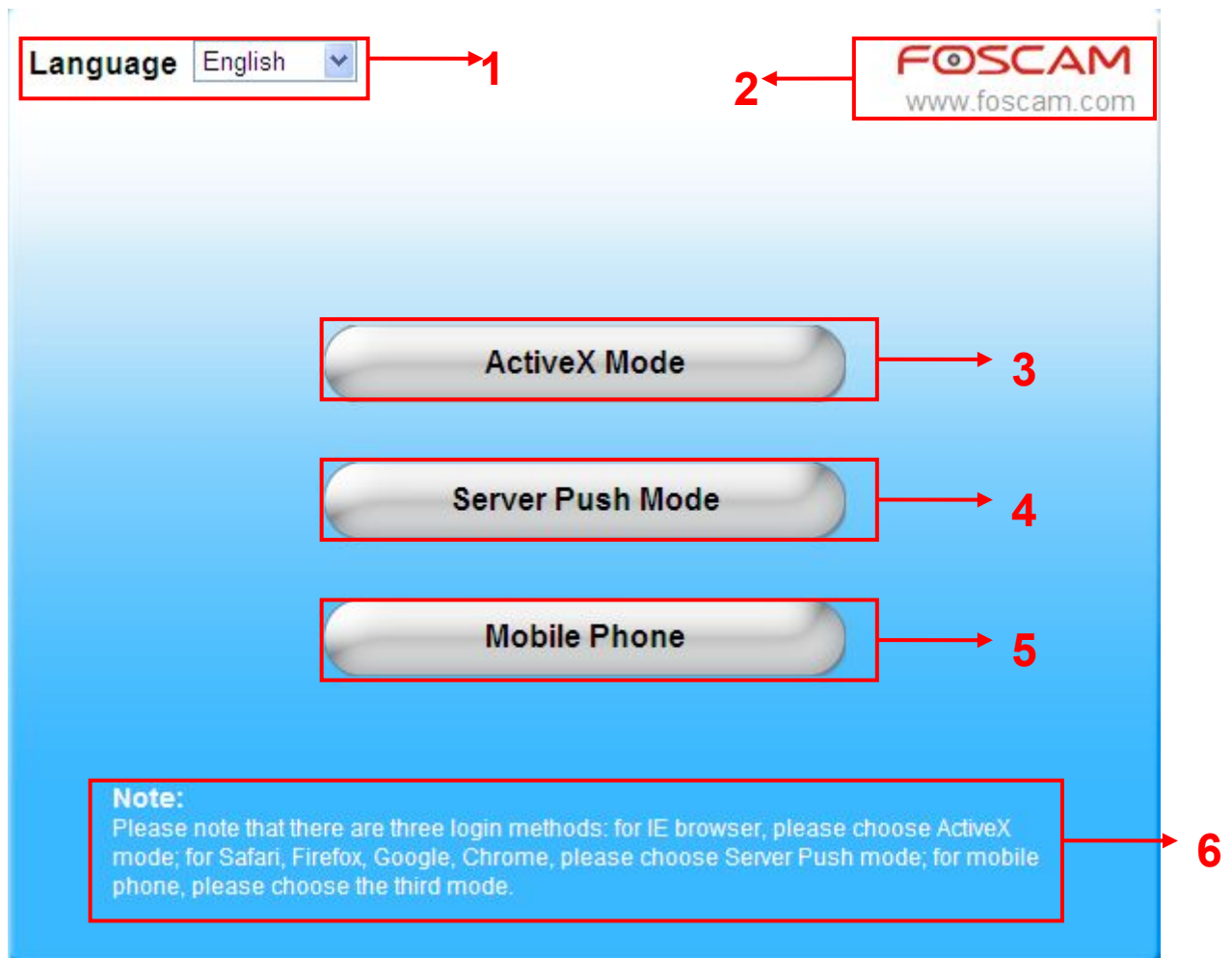


Figure 2.1

Please check the login window above, it was divided to 6 sections from no. 1 to 6.

#### Section1 Select Language

FOSCAM camera supports multi-languages, such as English, Spanish, Deutsch and so on. You can select the language you need via pull down the dropdown toolbar and click on the language to switch.

## **Section2 FOSCAM Website Link**

There is an access link to Foscam website homepage, if you need tech support you can contact Foscam directly.

## **Section3 ActiveX Mode**

If your PC is windows based OS, such as Windows XP, Windows7, Windows Vista and you are using IE-based browsers like IE6, IE7, IE8, please choose IE ActiveX Mode login mode.

## **Section4 Server Push Mode**

If you are using non-IE based browser, like Firefox, Safari, Google Chrome please choose Server Push Mode.

## **Section5 Mobile Phone**

If you are using the Mobile to access the camera, here you need to select Mobile Phone login mode.

## **Section6 Note**

Note that when you login the camera, please select the corresponding login mode.

## 2.2 Surveillance Window

Select the ActiveX mode and you will enter the surveillance window.

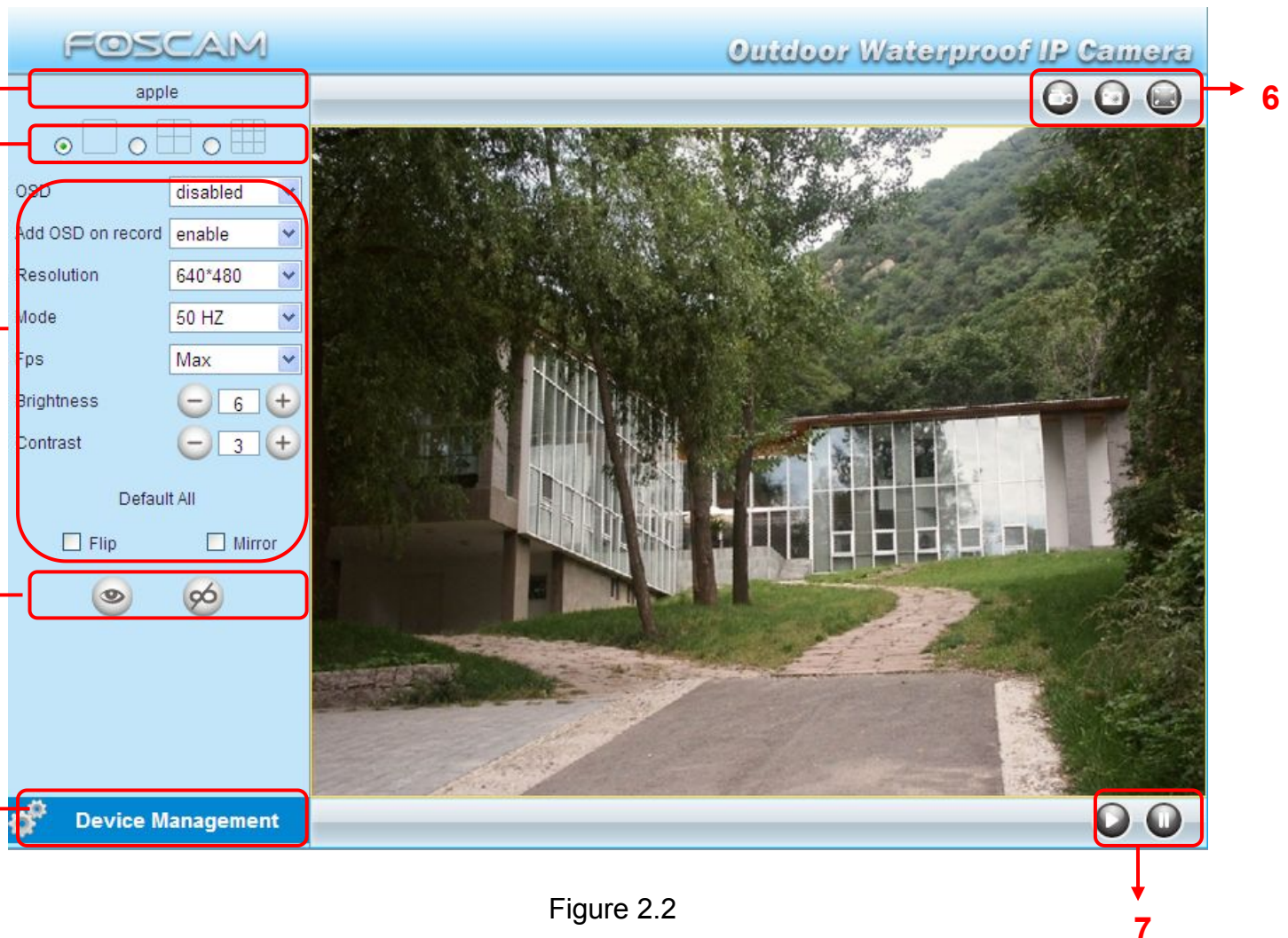


Figure 2.2

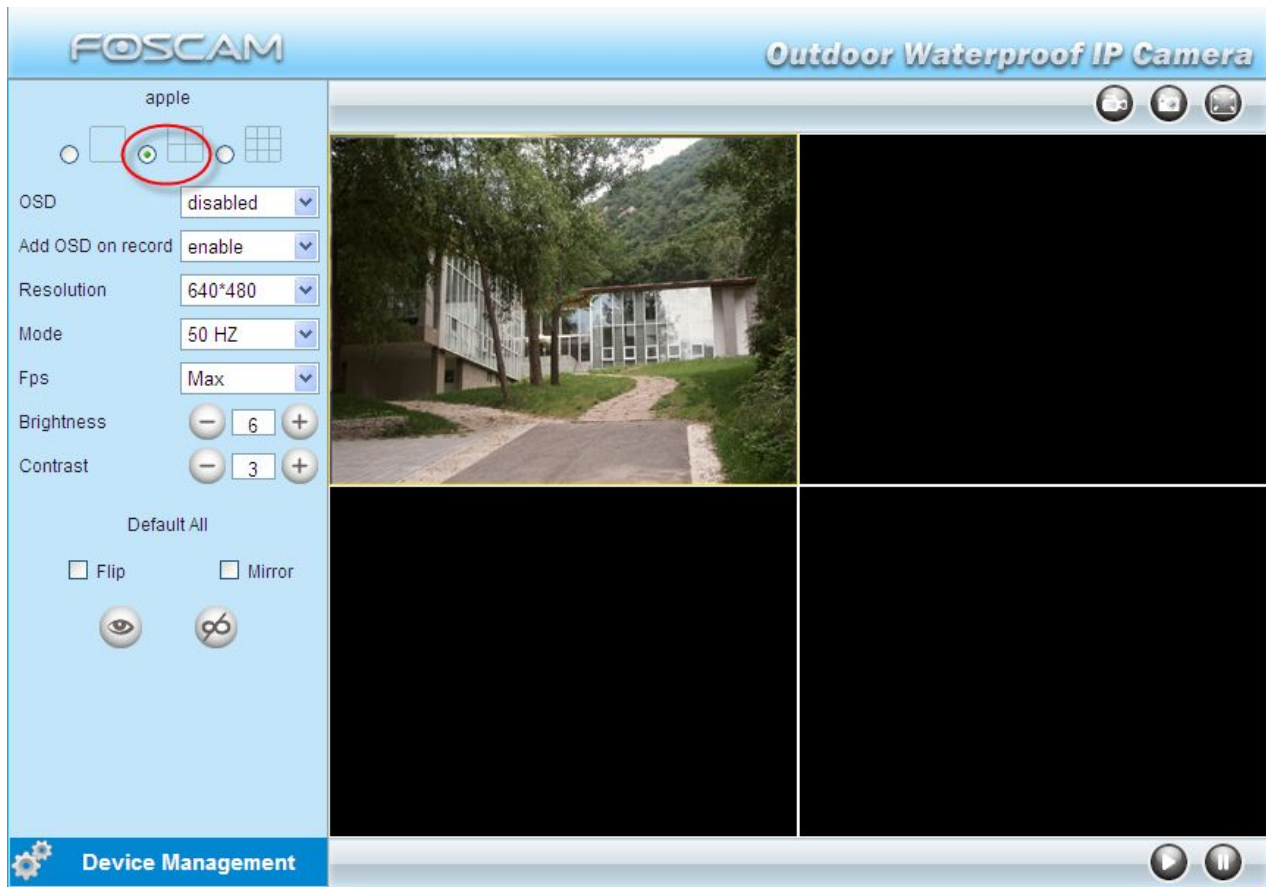
### Section1 Device Name

Default device name is Anonymous. You can define a name for your camera as you like (Please go to chapter 3.1 and read how to set it)

### 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 3.5).



. Figure 2.3

### Section3 Image Parameters Settings



#### OSD

OSD is used to add timestamp on the video. There are five text colors to choose from: Black, red, yellow, white, blue.

**Add OSD on record**

Select this option if you want to add a timestamp to recordings.

**Resolution**

- 1) 320x240-----QVGA
- 2) 640x480-----VGA

There are two resolutions, the bigger one (VGA) is 640x480 pixels, and the smaller one (QVGA) is 320x240 pixels. The bigger the resolution, the better of the image quality is, but the lower the frame rate is. If you are accessing the camera via internet and want to get more fluent video streaming, please select resolution QVGA 320x240.

**Mode**

- 1) 50HZ -----Indoor surveillance (Region: Europe, China)
- 2) 60HZ -----Indoor surveillance (Region: USA, Canada)
- 3) Outdoor-----Outdoor surveillance (Region: All over the world)

There are three options within the menu of Mode: 50HZ, 60HZ and Outdoor. It depends on the frequency of the electricity and surveillance model (indoors & outdoor). Please choose outdoor mode, when the camera was installed outside.

**Fps**

- 1) Max----- Maximum frame rate
- 2) 20fps, 15fps, 10fps, 5fps, 4fps, 3fps, 2fps, 1fps, 5fps, 1fps, 1/2fps, 1/3fps, 1/4fps, 1/5fps----- customized frame rate

You can choose option within the menu of Fps to adjust the frame rate. It is often used in LAN network when you want to lower the frame rate, so that you can save more bandwidth.

**Brightness**

Default parameter is 6, you can adjust the brightness of the image by clicking plus or minus button.

**Contrast**

Default parameter is 4, you can adjust the contrast of the image by clicking plus or minus button.

**Flip & Mirror**

You can flip the image by enabling Flip button, or mirror the image by enabling Mirror button.

## Section4 IR Lights Buttons



: Click this icon, all the IR lights will turn on.

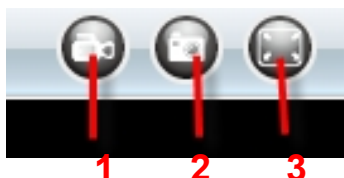



: Click this icon to turn off IR lights.

## Section5 Device Management

Device Management -----Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel.

## Section6 Record & Snapshot & Full Screen Buttons

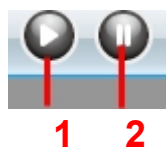


**1-----Record Button** Click it and it pop-up a path-setting window, you can select the storage path and the record file name. At the same time the record icon changes to , Click it again and stop recording.

**2-----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.

**3-----Full Screen** Click it to make full-screen, or you can double click the surveillance screen to make full-screen.

## Section7 Play/Stop Buttons



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

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

**NOTE:**

Record and multi-device function are controlled by ActiveX controller, therefore Firefox or Google Chrome, Safari browsers will not allow these functions.

For Firefox, Google Chrome, Safari, you should select the Server Push Mode and you can see the following screen:

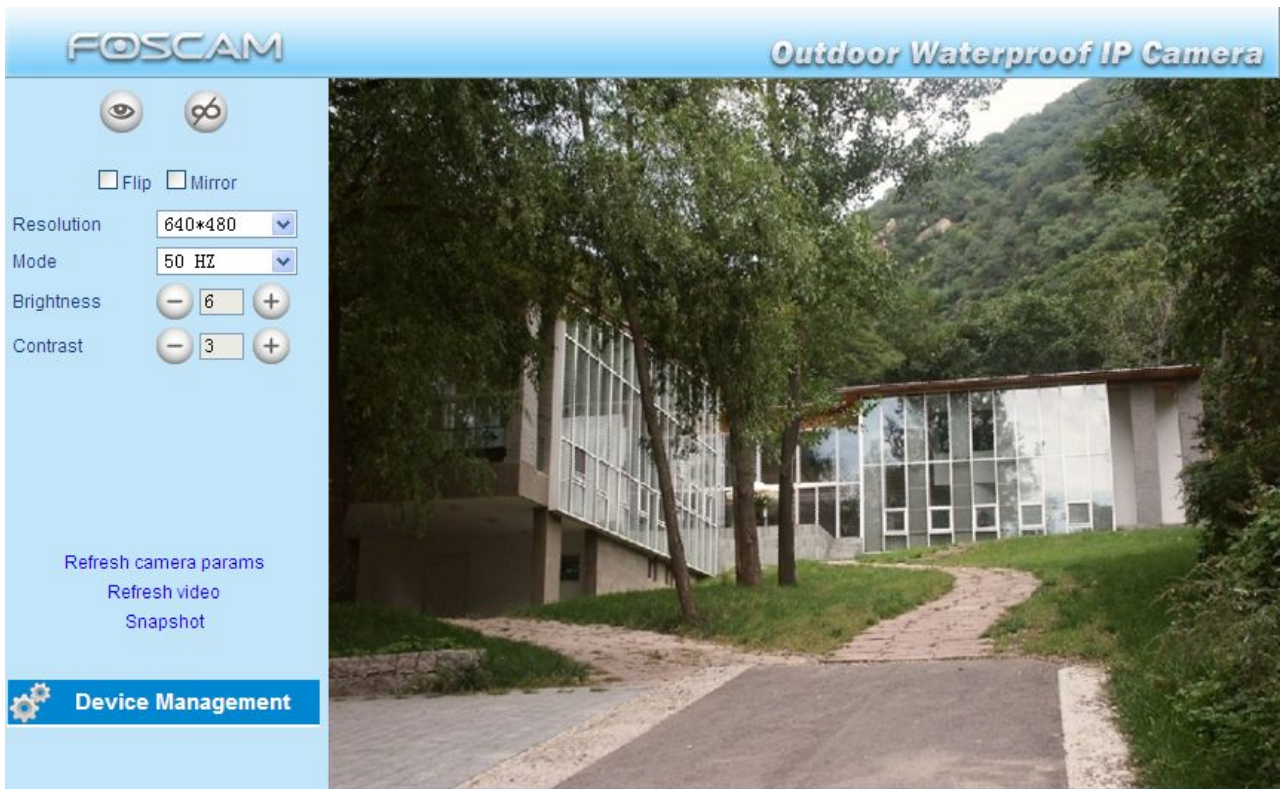


Figure 2.4

## 3 Advanced Camera Settings

Click the bar “Device Management”, goes to Administrator Control Panel to make advanced camera settings.

### 3.1 Device Status



Figure 3.1

- 1-----**Device ID**    MAC ID of the camera by wired connection
- 2-----**Device Firmware Version**    System Firmware version of the camera
- 3-----**Device Web UI Version**    Web UI firmware version of the camera
- 4-----**Alias**    Name of the camera
- 5-----**Alarm Status**    The status of Alarm Service Setting
- 6-----**DDNS Status**    The status of DDNS Setting
- 7-----**UPnP Status**    The status of UPnP Setting
- 8-----**MSN Status**    The status of MSN Setting

## Another Way:



Double click the the icon "IP Camera.exe" , select the camera IP, right click and select the Basic Properties, you can also see the Firmware Version and MAC Address, such as the following screen:

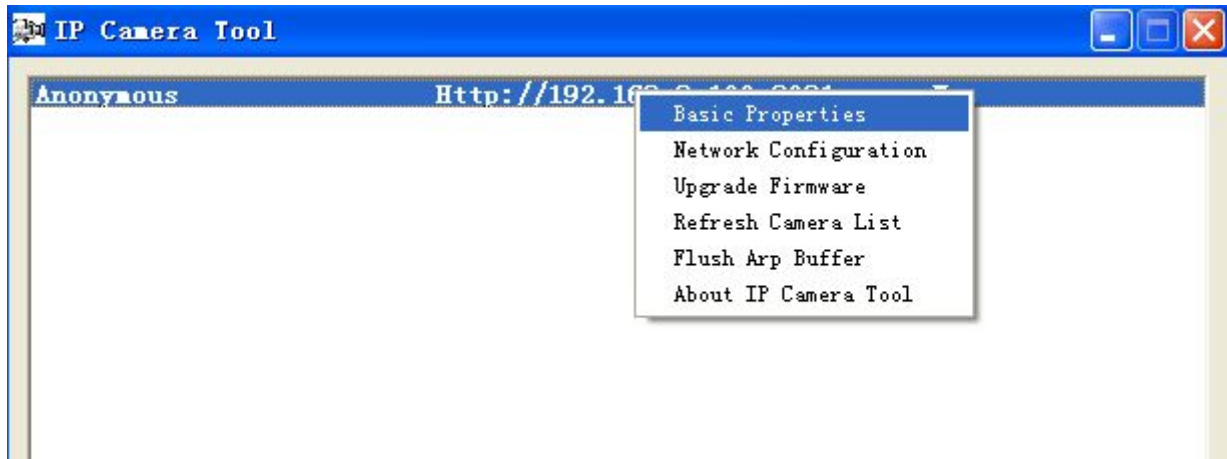


Figure 3.2

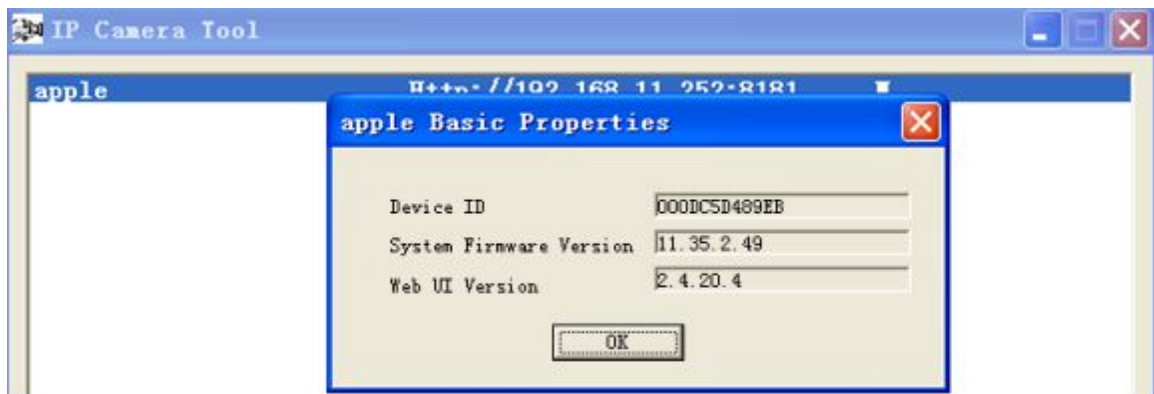


Figure 3.3

### 3.2 Alias Settings

Default alias is Anonymous. You can define a name for your camera here such as apple. Click **Submit** to save your changes. The alias name supports special characters.

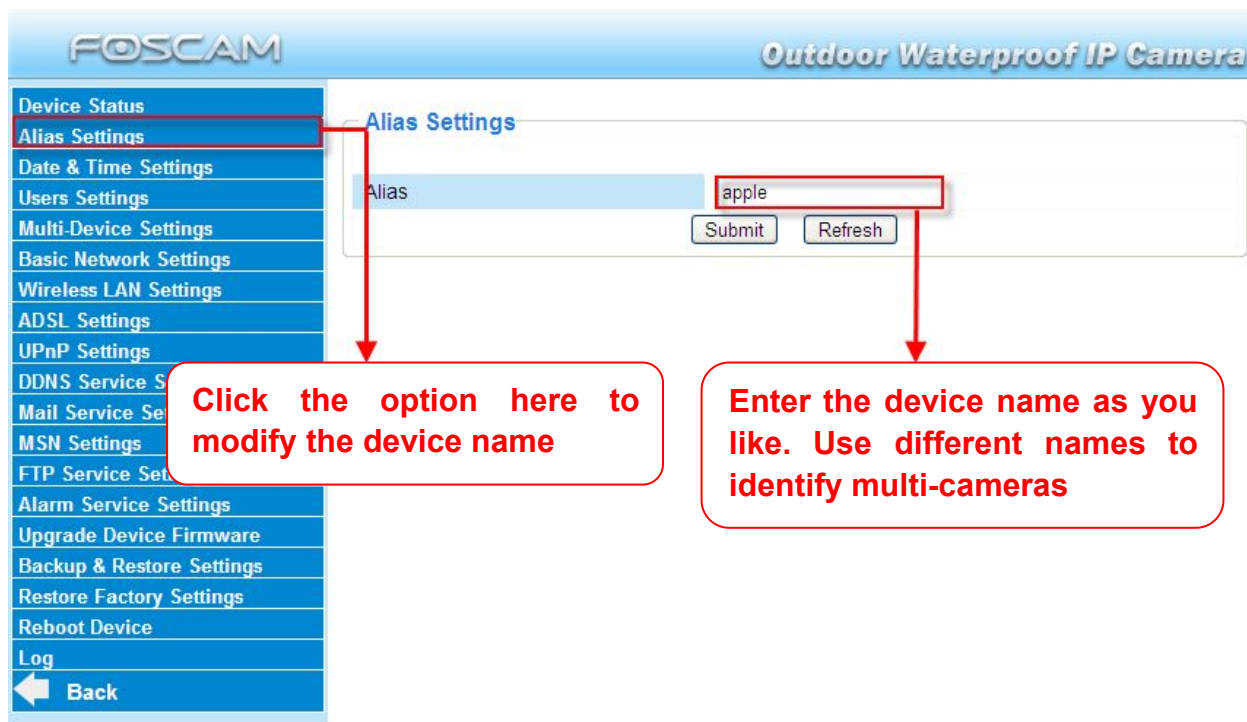


Figure 3.4

### 3.3 Date & Time Settings

Choose the time zone of your country. You can choose **Sync with NTP Server** or **Sync with PC Time**. If your country implements the **Daylight Saving Time**, that option can also be selected.

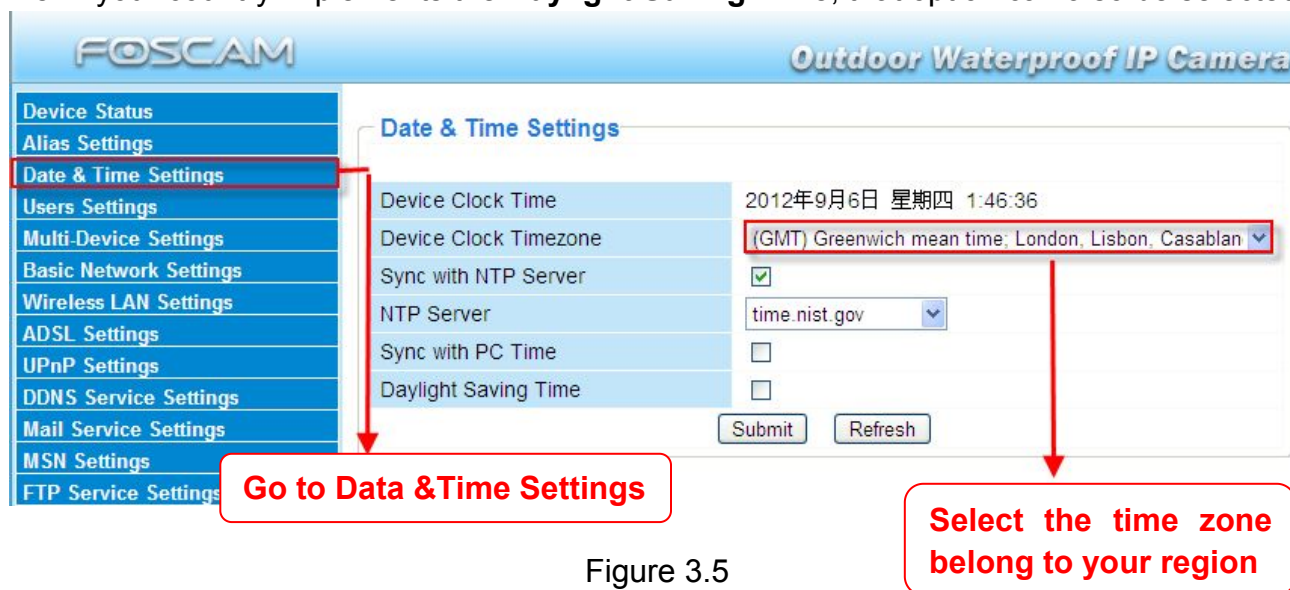


Figure 3.5

### 3.4 User Settings

Here you can create users and set permission levels, **visitor**, **operator** or **administrator**. Click **Submit** to save these settings. The camera will reboot.

**FOSCAM** Outdoor Waterproof IP Camera

**Users Settings**

User	Password	Group
admin		Administrator
user	.....	Operator
visitor		Visitor
		Visitor
		or
		or
		or
		or

**You can set different permission levels, but at least one administrator**

Submit Refresh

**Set Alarm Record Path**

C:\Documents and Settings\All Users\ Browse...

Figure 3.6

Here you can also set one important file locations for the camera, the **Alarm Record Path**. Simply click **Browse** and choose the path to the required folder.

The **Alarm Record Path** location is used to store automatically recorded files when the camera is activated by motion. (See set motion alarm. Figure 3.39) The default path for **Alarm Record Path** is C:\Documents and Settings\All Users\Documents.

**NOTE: In Windows7 or Vista, if you cannot set the paths.:**

Windows7 or Vista's security level is higher than Windows XP/2000. For "set record path" function, user should add the Device IP address to the Internet Explorer's 'Trusted sites' first. The step is: IE browser → Tool → Internet Proper → Security → Trusted sites → Sites → Add

### 3.5 Multi-Device Settings

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.

#### 3.5.1 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. After all cameras have been added, choose **Submit**.

The screenshot shows the 'Multi-Device Settings' page. On the left, a sidebar lists 'The 1st Device' and 'The 2nd Device' (highlighted in blue). The main area shows a 'Device List in LAN' dropdown menu with four items: 'Foscamdemo8918(192.168.11.206)', 'Foscamdemo FI8910W(192.168.11.211)', 'FoscamdemoFI8916W(192.168.11.208)' (highlighted in blue), and 'Anonymous(192.168.11.169)'. Below the list is a 'Refresh' button. To the right of the list, fields for 'Alias', 'Host', and 'HTTP Port' are populated with 'FoscamdemoFI8916W', '192.168.11.208', and '8916' respectively. Below these are 'User' (filled with 'admin') and 'Password' (empty) fields. At the bottom are 'Add' and 'Remove' buttons. Three red callout boxes provide instructions: Box 1 points to the selected device in the list, stating '1 Click it, alias, host and HTTP Port will be filled in the following boxes automatically'. Box 2 points to the User and Password fields, stating '2 Enter the User name and password of the 2nd camera'. Box 3 points to the Add button, stating '3 Click Add to take effect'.

Figure 3.7a

### Multi-Device Settings

Device List in LAN	This Device
FoscamdemoFI8916W(192.168.11.208)	FoscamdemoFI8916W(192.168.11.208)
<b>Foscamdemo8918(192.168.11.206)</b>	Foscamdemo FI8910W(192.168.11.211)
Foscamdemo FI8909W(192.168.11.212)	Foscamdemo8918(192.168.11.206)
Anonymous(192.168.11.169)	None
	None
	None
	None
	None
	None
	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.

**Submit** **Refresh**

**Click Submit after add all cameras**

Figure 3.7b

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



Figure 3.8

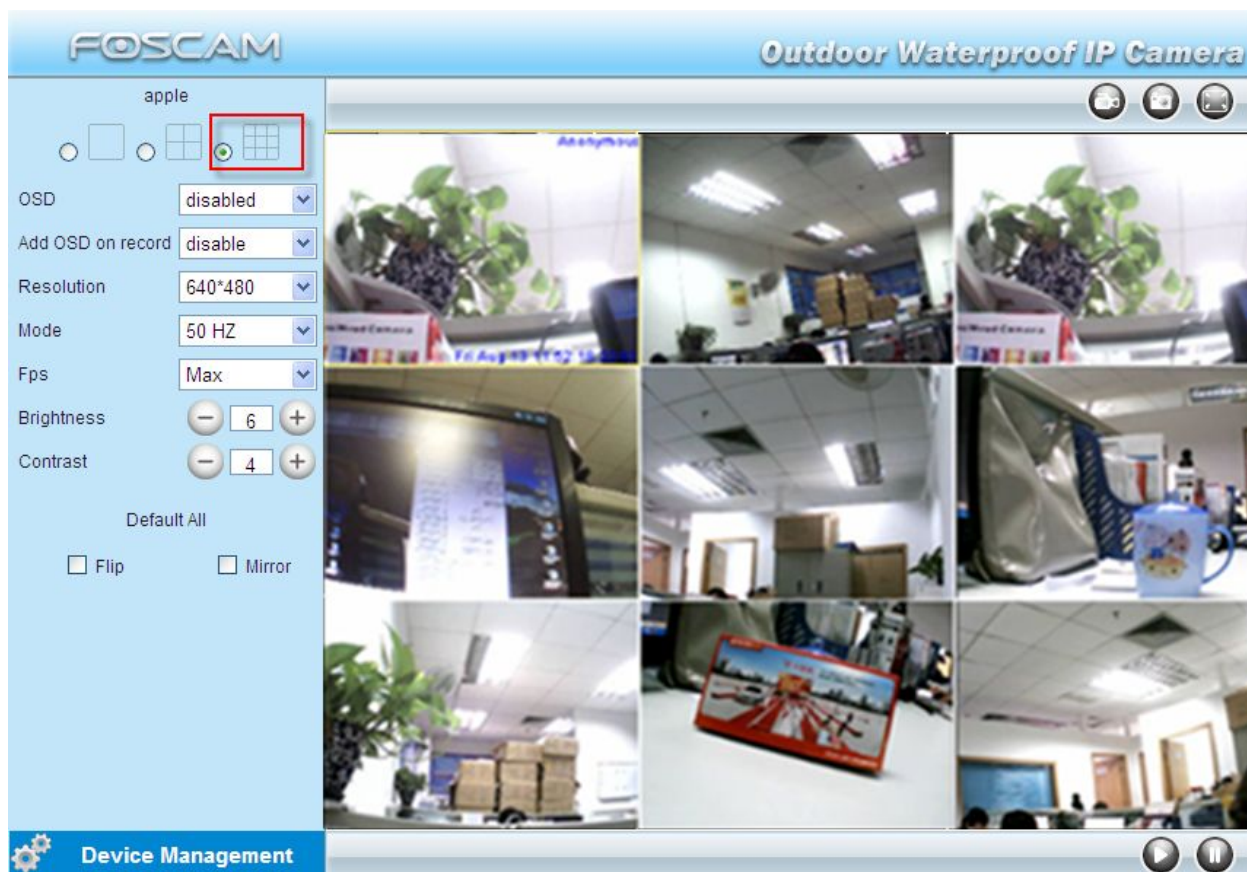


Figure 3.9

### 3.5.2 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 3.10**)

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

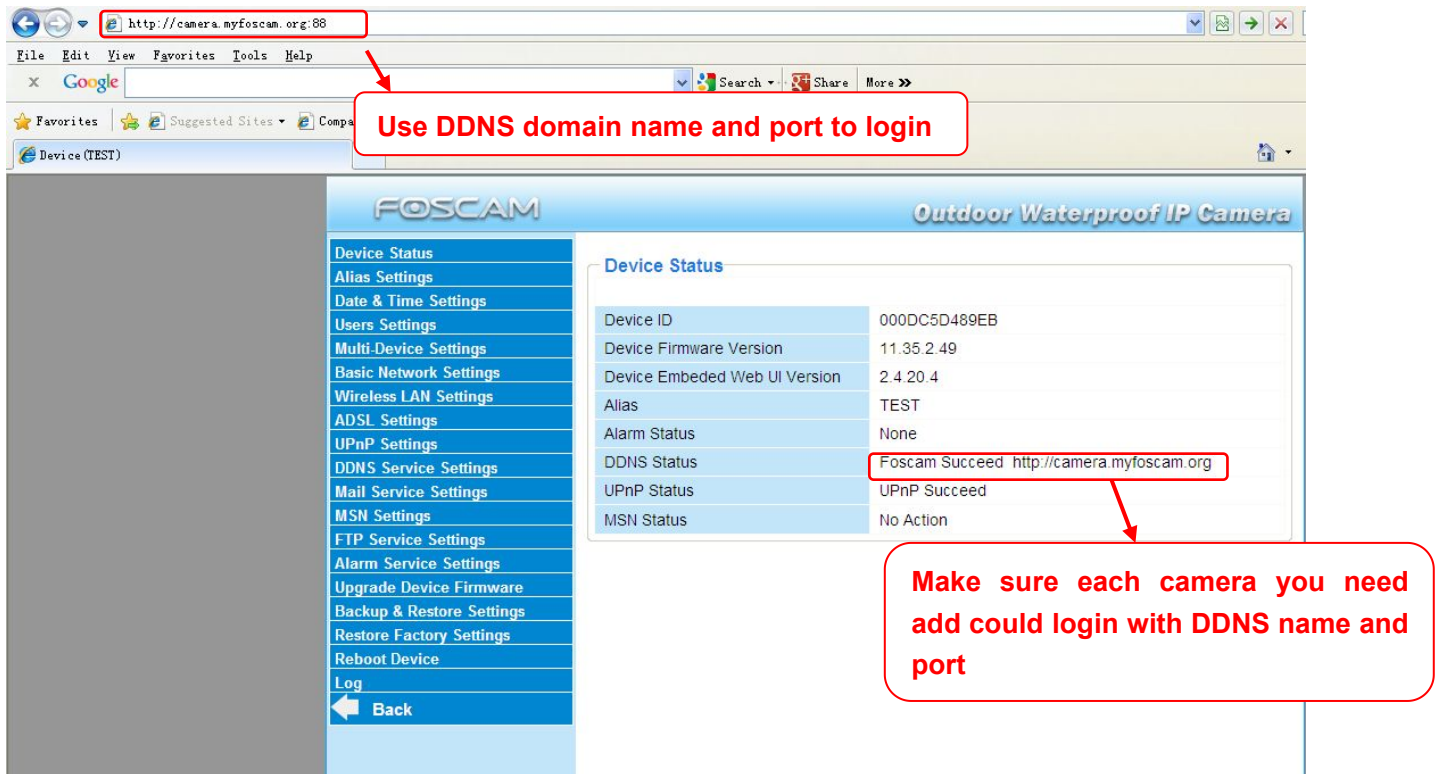


Figure 3.10

If you have several cameras, you can use the same DDNS domain name; you only need to set a different port number for each camera.

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. (Figure 3.11)

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

**Multi-Device Settings**

Device List in LAN	Foscamdemo FI8909W(192.168.11.212) Foscamdemo FI8904W(192.168.11.214) <b>Anonymous(192.168.11.169)</b> Foscamdemo FI8910W(192.168.11.211)
	<input type="button" value="Refresh"/>
The 1st Device	This Device
The 2nd Device	None
	Alias <input type="text" value="sarah"/>
	Host <input type="text" value="ipcam.dyndns.org"/>
	HTTP Port <input type="text" value="8090"/>
	User <input type="text" value="admin"/>
	Password <input type="password" value="..."/>
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
The 3rd Device	None
The 4th Device	None
The 5th Device	None
The 6th Device	None
The 7th Device	None

Figure 3.11

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

Add the other cameras in the same way. Click **Submit** to save.

### Multi-Device Settings

Device List in LAN	This Device
	FoscamdemoFI8916W(192.168.11.208)
	Anonymous(192.168.11.169)
	Foscamdemo8918(192.168.11.206)
	Foscamdemo FI8904W(192.168.11.214)
	<input type="button" value="Refresh"/>
The 1st Device	
The 2nd Device	sarah(ipcam.dyndns.org)
The 3rd Device	apple(ipcam.myfoscam.org)
The 4th Device	linia(test1.myfoscam.org)
The 5th Device	None
The 6th Device	None
The 7th Device	None
The 8th Device	None
The 9th Device	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.

**Click submit after finishing all settings**

Figure 3.12

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.

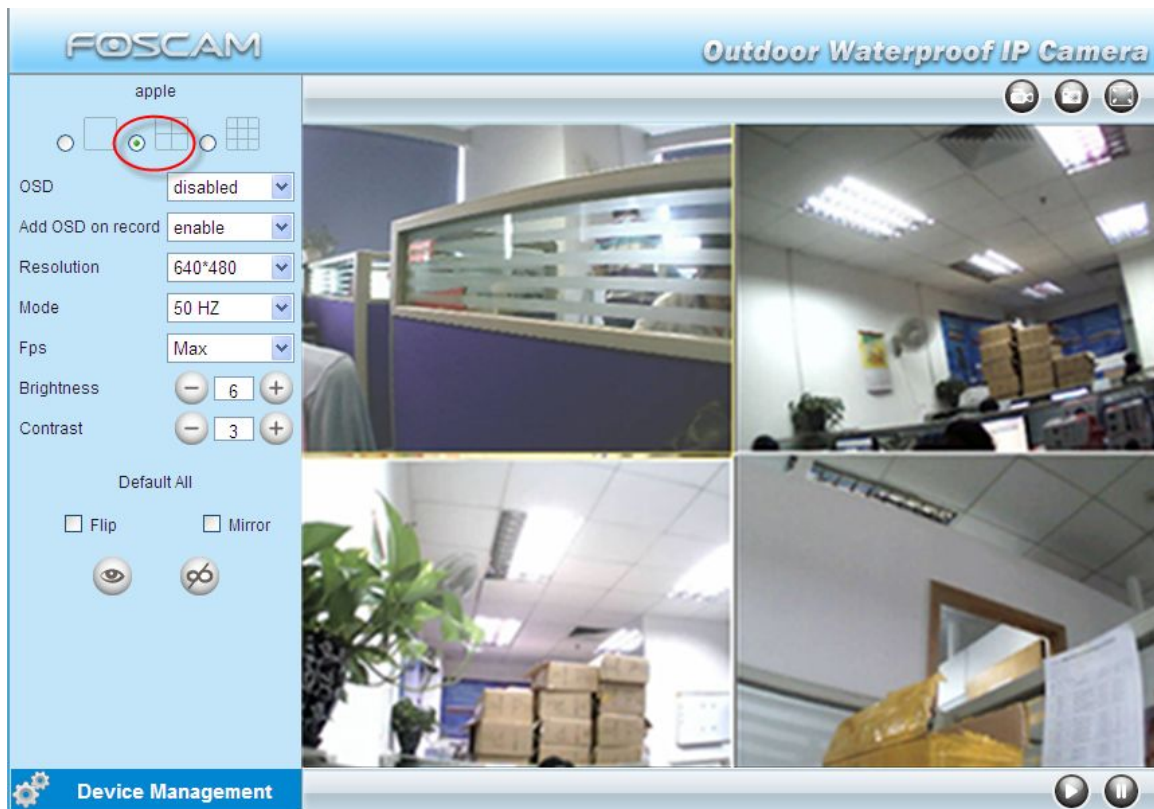


Figure 3.13

### 3.6 Basic Network Settings

If you want to set a static IP for the camera, select **Basic Network Settings**. Keep the camera in the same subnet of your router or computer.

Figure 3.14

Changing settings here is the same as using the IP Camera Tool. (Figure 3.17/3.18)

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.**

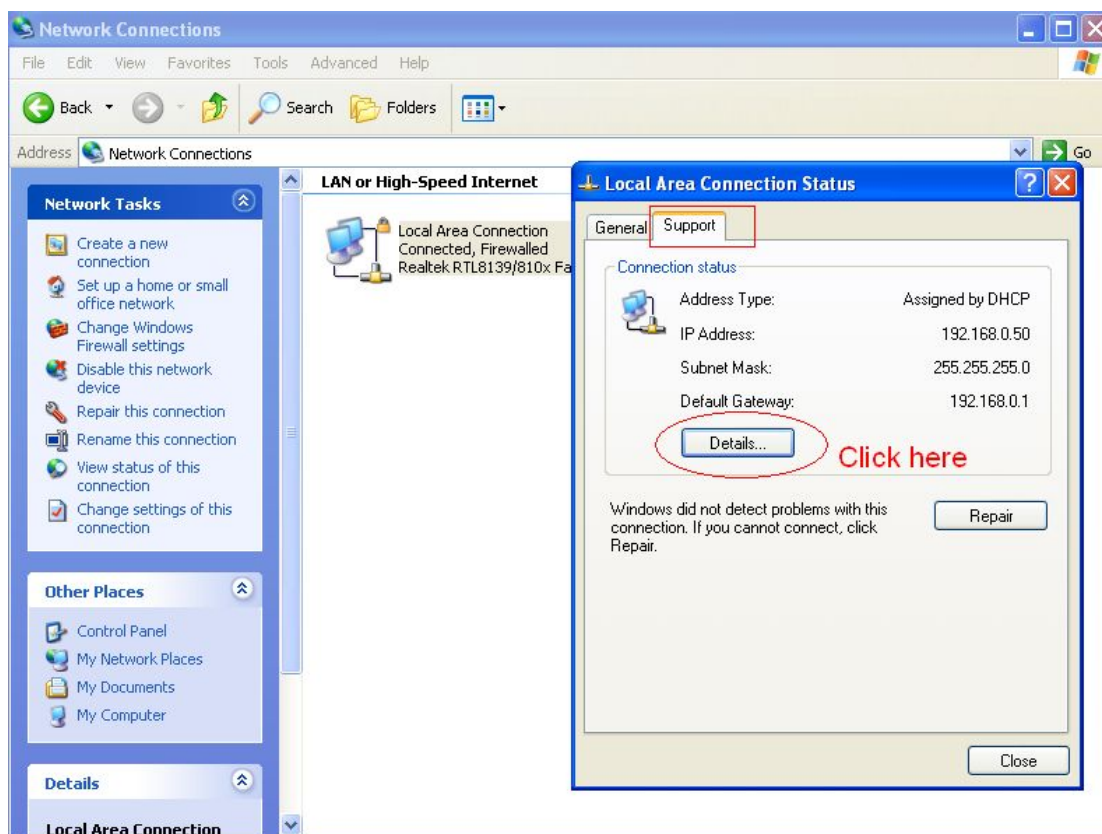


Figure 3.15

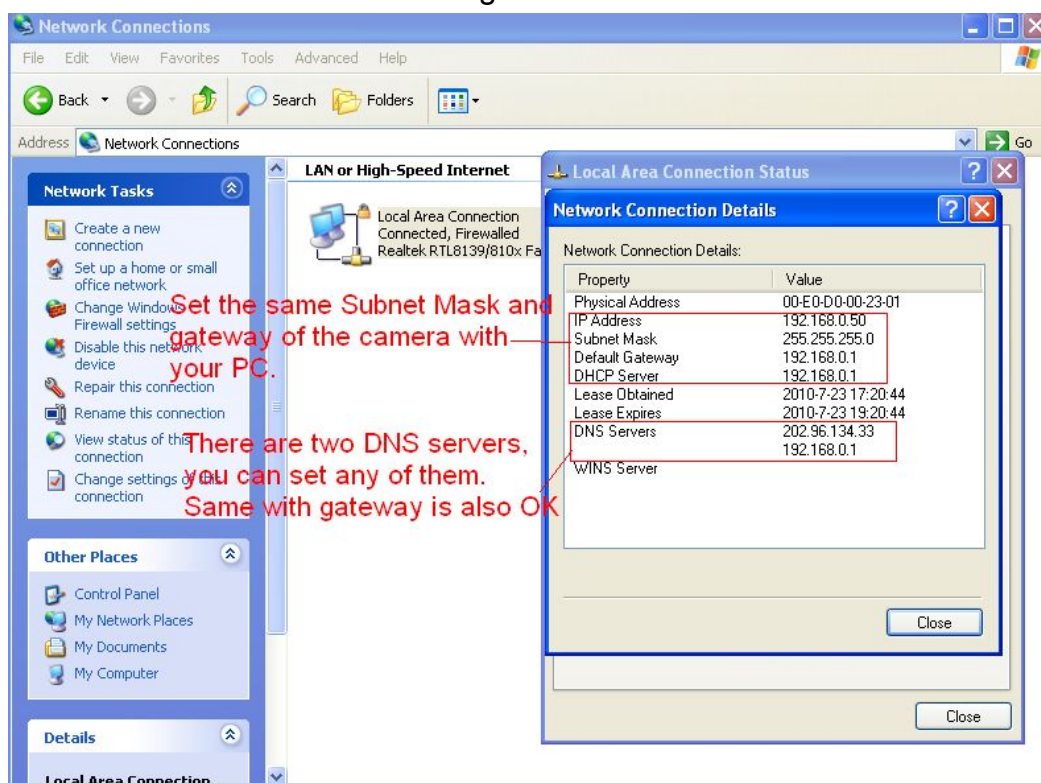


Figure 3.16

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

### Another way to change the camera's LAN IP and HTTP Port no.

Open the IP Camera Tool, select the camera you want to change the port no, right click on the IP address link, and goes to Option "Network Configuration", it pops up another dialogue showed as the following screen

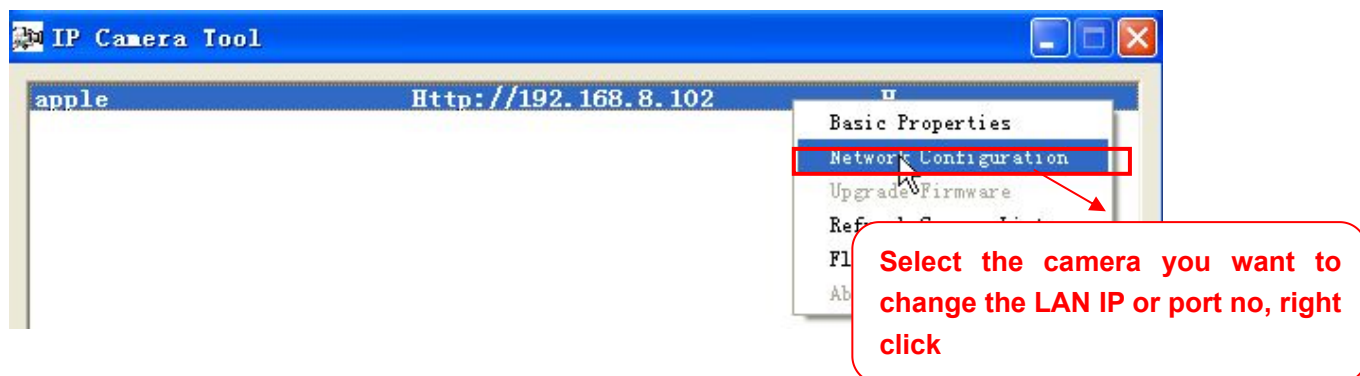


Figure 3.17

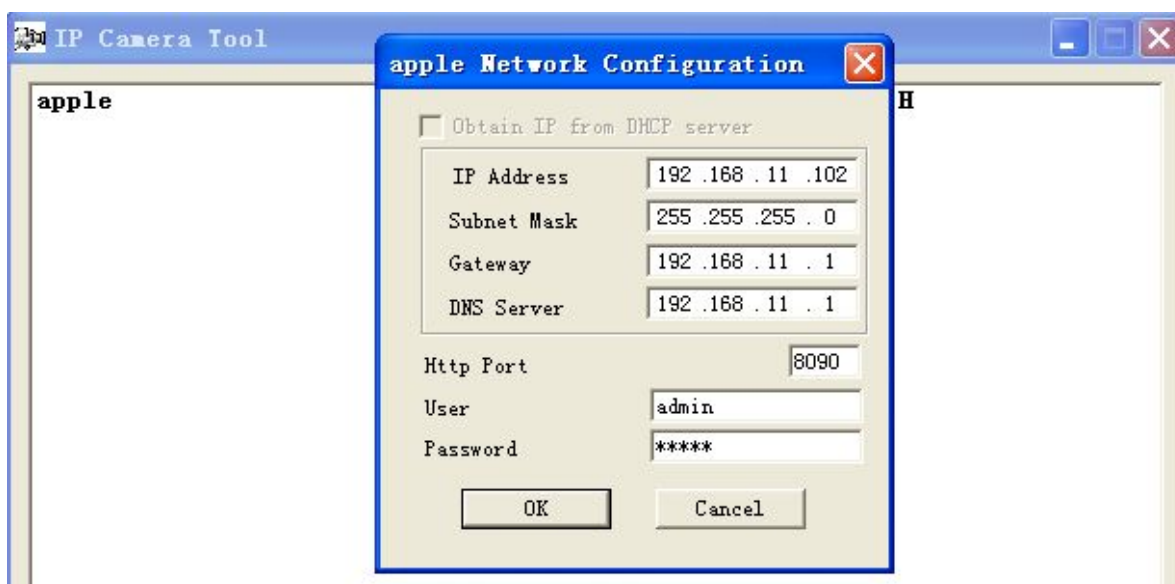


Figure 3.18

**IP Address:** Fill in the IP address assigned and make sure it is in the same subnet as your computer or router. (I.e. the first three sections are the same)

**Subnet Mask:** The default subnet mask of the equipment in our LAN is: 255.255.255.0. You can find the subnet mask in the basic information of your router or the locally-attached of your PC.

**Gateway:** Make sure it is in the same subnet with PC's IP address. The gateway is your router's LAN IP.

**DNS Server:** IP address of your ISP network provider. You can find the DNS server in your router or check the locally-attached address of your computer. Your PC contains your PC's IP address, gateway and DNS server. Normally, there are two DNS servers. Here you can also set the DNS server the same with gateway.

**Http Port:** The default Lan port is 80. You can set another port number, such as port 8005, 8100.etc.

**User&Password:** Default administrator user name is admin with no password.



**NOTE:**

If the prompt “Subnet doesn’t match, dbclick to change!” appears, please enable DHCP set camera’s IP address and gateway once again.

## 3.7 Wireless Settings

Wireless Lan Settings support three modes: Infra(Do wireless lan settings manually) and WPS (Wi-Fi Protected Set-up) and Adhoc..

**If your router does not support WPS function, please go to chapter 3.7.1 and make wireless connection settings manually.**

**If your router supports WPS function, please go to chapter 3.7.2 and make wireless connection settings quickly.**

**If there is no wireless router, please go to chapter 3.7.3 and Connect the IPCAM directly to a host in a peer\_to\_peer environment.**

### 3.7.1 Infrastructure Mode

**Step 01)** Please choose “**Device Management**” and goes to the option **Wireless LAN Settings**, click “**Wireless LAN Settings**”. Then enable “**Using Wireless LAN**”.

Click the Scan button and the camera will detect all WIFI devices around the area. It should also display your router in the list. (Figure 3.19)

**Wireless LAN Settings**

Wireless Network List	lucy[14e6e462d576] infra dlink[f07d685630dc] infra test1[54e6fc35f13a] infra WEP cisco[00259cb1df9a] infra WEP
Using Wireless LAN	<input checked="" type="checkbox"/>
SSID	
Network Type	Infra
Encryption	None
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Click Scan Button to search WIFI device

Figure 3.19

**Step 02)** Click the SSID of your router in the list, the corresponding information (SSID & Encryption) will be filled in the following boxes automatically.

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

**Wireless LAN Settings**

Wireless Network List	lucy[14e6e462d576] infra dlink[f07d685630dc] infra test1[54e6fc35f13a] infra WEP cisco[00259cb1df9a] infra WEP
Using Wireless LAN	<input checked="" type="checkbox"/>
SSID	cisco
Network Type	Infra
Encryption	WPA2 Personal (AES)
Share Key	.....
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Click the SSID of router and SSID, Encryption will be filled in the following box automatically

Enter the same share key with your router

Figure 3.20

**Step 03)** Please click on the **Submit** button after all settings have been entered, the camera will reboot. After the camera has completed the reboot process, wait 10 seconds and disconnect the network cable.

The LAN IP address will disappear on the window of IP Camera Tool when the camera gets restarted. Just wait for around 1 minute, the camera will get wireless connection, and the LAN IP

of the camera will be showed again on the window of the IP Cam Tool. You have done wireless connection of the camera successfully. If the camera has a dynamic IP, after the wireless settings, the IP will be changed.

**Note** If fail to make WiFi connection, please refer to seller or us for help.

### 3.7.2 WPS (Wi-Fi Protected Set-up)

**Step 01)** Press and hold the RESET button for **four seconds**. .



**Step 02)** Press the WPS button on your router **within 60 seconds**. The WPS button is usually on the back or side of your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature. If you are not sure where the WPS buttons is on your router, please refer to your router's User Manual.

The camera will automatically create a secure wireless connection to your router. If you have plugged in the network cable, please plug it out. While connecting, the green network light on RJ45 will blink and the wireless settings will take effect. The IP Camera Tool will search the camera's LAN IP. Make sure the PC and the camera share the same subnet.

#### **Note**

1 During the WPS Settings, you must press the Reset button only for four seconds, or else, the camera may be reset back to factory default settings if you press and hold on the reset button above 10 seconds.

2 The security mode of router cannot be WEP, or else the WPS settings may be failed.

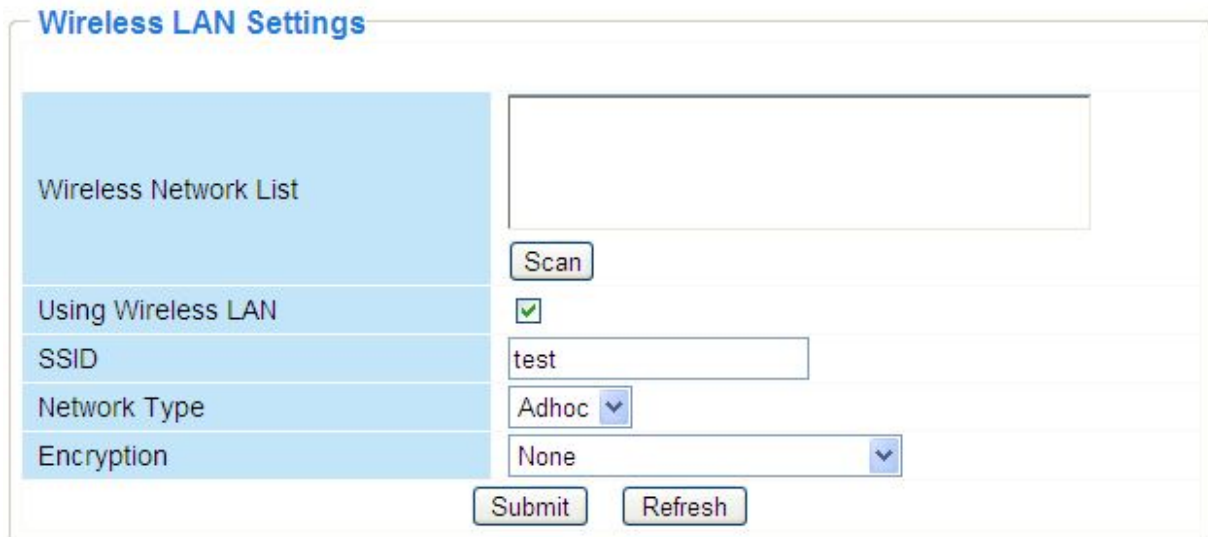
### 3.7.3 Adhoc Mode

Under this mode, the IPCAM will directly connect to a host in a peer\_to\_peer environment.

Make sure the PC has plugged in the wireless network card.

**Step 01)** Enable wireless and choose Adhoc mode.

Fill in a SSID to identify the IPCAM and then set the security mode, you can choose none or others. Click Apply.



The image shows a 'Wireless LAN Settings' window. On the left is a table with settings: 'Wireless Network List' (empty), 'Using Wireless LAN' (checked), 'SSID' (test), 'Network Type' (Adhoc), and 'Encryption' (None). On the right is a 'Scan' button. At the bottom are 'Submit' and 'Refresh' buttons.

Wireless LAN Settings	
Wireless Network List	
Using Wireless LAN	<input checked="" type="checkbox"/>
SSID	test
Network Type	Adhoc
Encryption	None
<input type="button" value="Scan"/>	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Figure 3.21

**Step 02)** Plug out the network cable and the camera will restart..

Open the wireless network card of PC and search the wireless network around the area. You can find the SSID you filled for the camera (Figure 3.21).

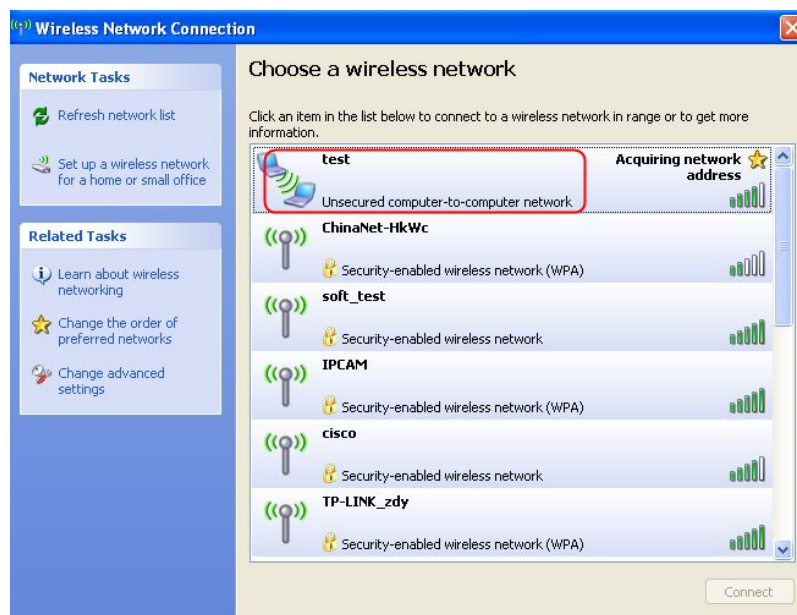


Figure 3.22

**Step 03)** Disabled the wired connection of the PC. Select the SSID you filled at Figure3.21 for

your camera and enter the same key with your camera. Make sure PC and Camera share the same subnet.

Open the IP Camera Tool, you can search the camera LAN IP again.

### 3.8 ADSL

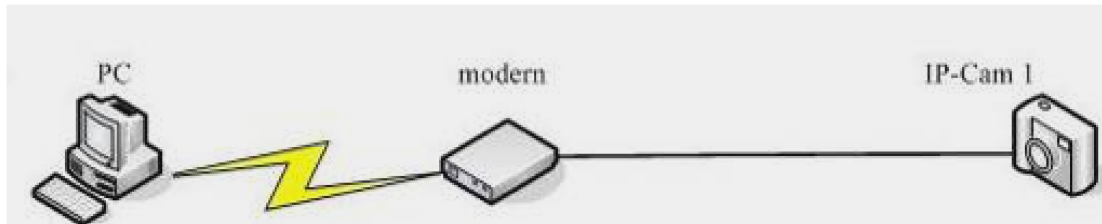


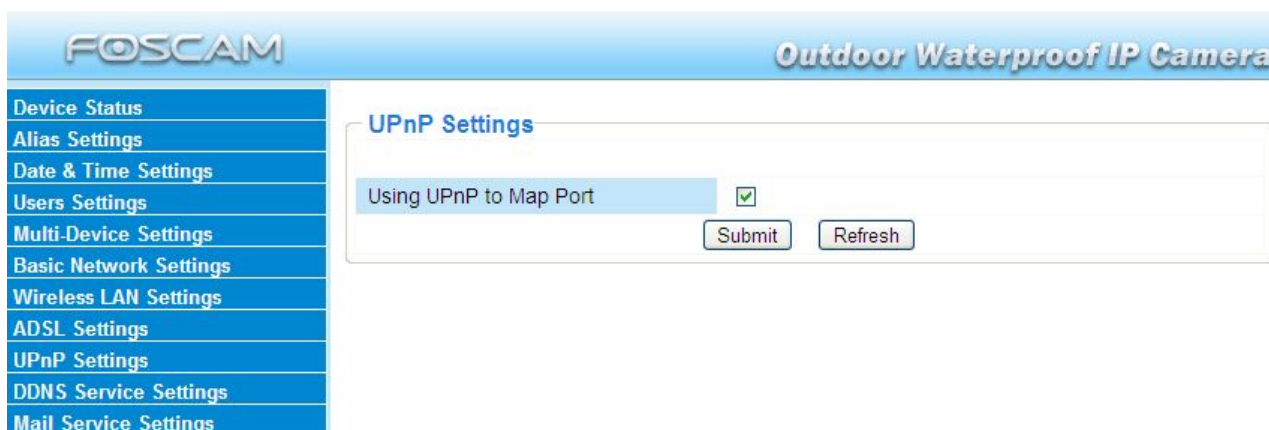
Figure 3.23

If you are connecting the camera directly to a ADSL modem, you can do ADSL settings with your ADSL account & password provided by the ISP, then make the camera connected to the network.

Figure 3.24

### 3.9 UPnP Settings

Choose **Using UPnP to MAP Port** and then click **Submit**.



The screenshot shows the FOSCAM web interface for an 'Outdoor Waterproof IP Camera'. On the left is a navigation menu with options like Device Status, Alias Settings, Date & Time Settings, Users Settings, Multi-Device Settings, Basic Network Settings, Wireless LAN Settings, ADSL Settings, UPnP Settings, DDNS Service Settings, and Mail Service Settings. The main content area is titled 'UPnP Settings' and contains a checkbox labeled 'Using UPnP to Map Port' which is checked. Below the checkbox are 'Submit' and 'Refresh' buttons. The 'Submit' button is highlighted with a blue border.

Figure 3.25

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



The screenshot shows the FOSCAM web interface for an 'Outdoor Waterproof IP Camera'. On the left is a navigation menu with options like Device Status, Alias Settings, Date & Time Settings, Users Settings, Multi-Device Settings, Basic Network Settings, Wireless LAN Settings, ADSL Settings, UPnP Settings, DDNS Service Settings, Mail Service Settings, MSN Settings, FTP Service Settings, Alarm Service Settings, Upgrade Device Firmware, Backup & Restore Settings, Restore Factory Settings, Reboot Device, Log, and Back. The main content area is titled 'Device Status' and contains a table of device information. The 'UPnP Status' row is highlighted with a red box, showing 'UPnP Succeed'.

Device Status	
Device ID	000DC5D489EB
Device Firmware Version	11.35.2.49
Device Embedded Web UI Version	2.4.20.4
Alias	TEST
Alarm Status	None
DDNS Status	Foscam Succeed <a href="http://camera.myfoscam.org">http://camera.myfoscam.org</a>
UPnP Status	UPnP Succeed
MSN Status	No Action

There may be issues with your routers security settings, and sometimes may error. We recommend you configure port forwarding manually on your router (Figure 3.30).

### 3.10 DDNS Service Settings

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 **camera.myfoscam.org** for example. Go to option of **DDNS Service Settings** on the administrator panel, you can see the domain name.

Please **enable** the FOSCAM DDNS name first.

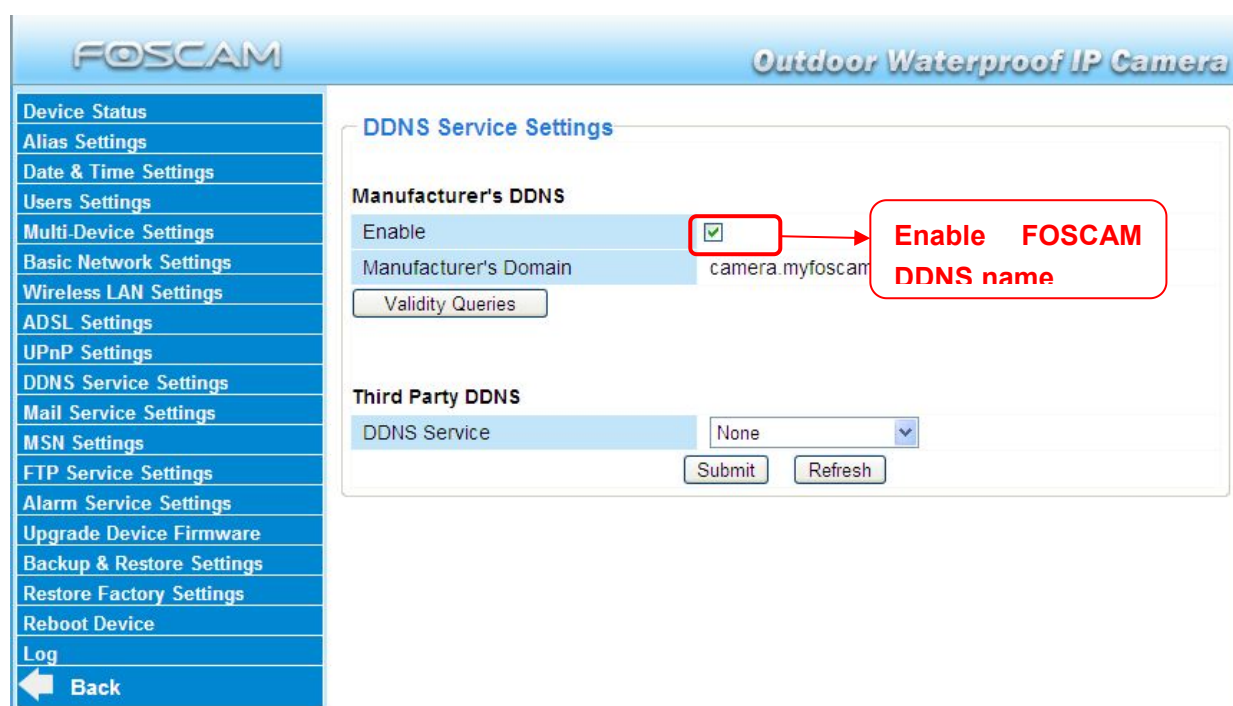


Figure 3.26

**Enable:** Open or close the FOSCAM domain name. The default status of FOSCAM domain name is open.

**Validity Queries:** Check the validity of embedded domain name.

Now you can use [http:// Domain name + HTTP Port](http://Domain name + HTTP Port) to access the camera via internet. Take hostname **camera.myfoscam.org** and **HTTP Port no. 88** for example, the accessing link of the camera via internet would be [http:// camera.myfoscam.org:88](http://camera.myfoscam.org:88)

**Note:** If you want to use the manufacturer's domain name, please select None as the Third Party DDNS and enable the Manufacturer's domain name, then click submit.

## Third Party Domain Name Settings

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

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

**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 3:27

**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.**

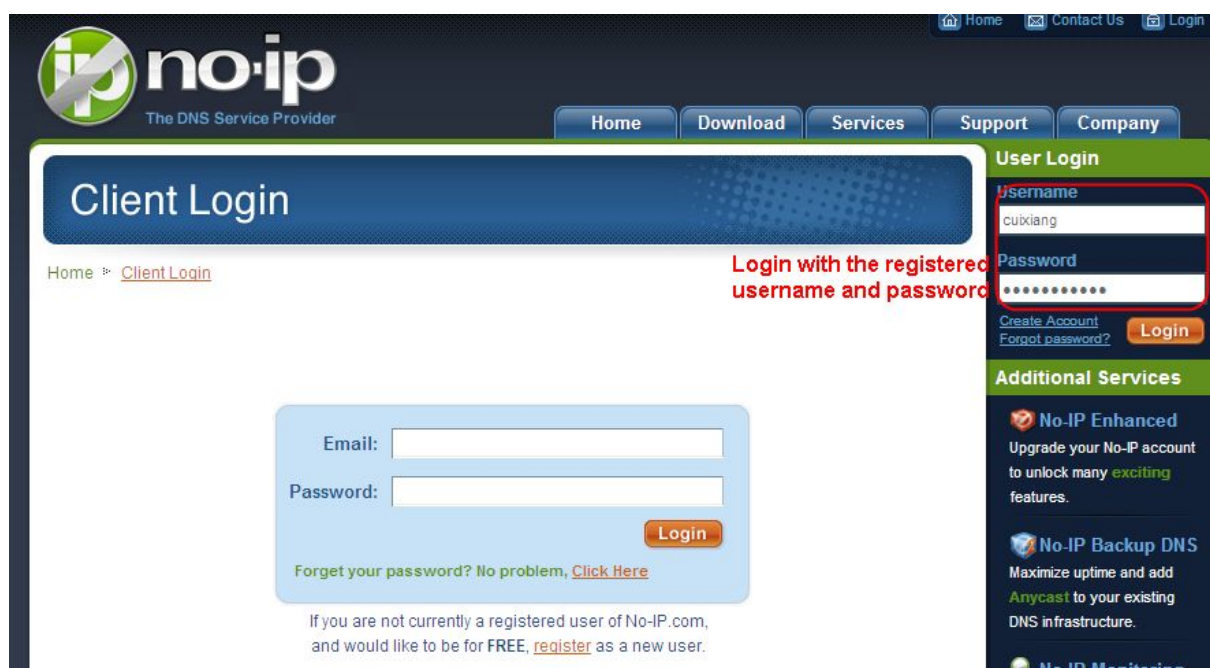


Figure 3.28

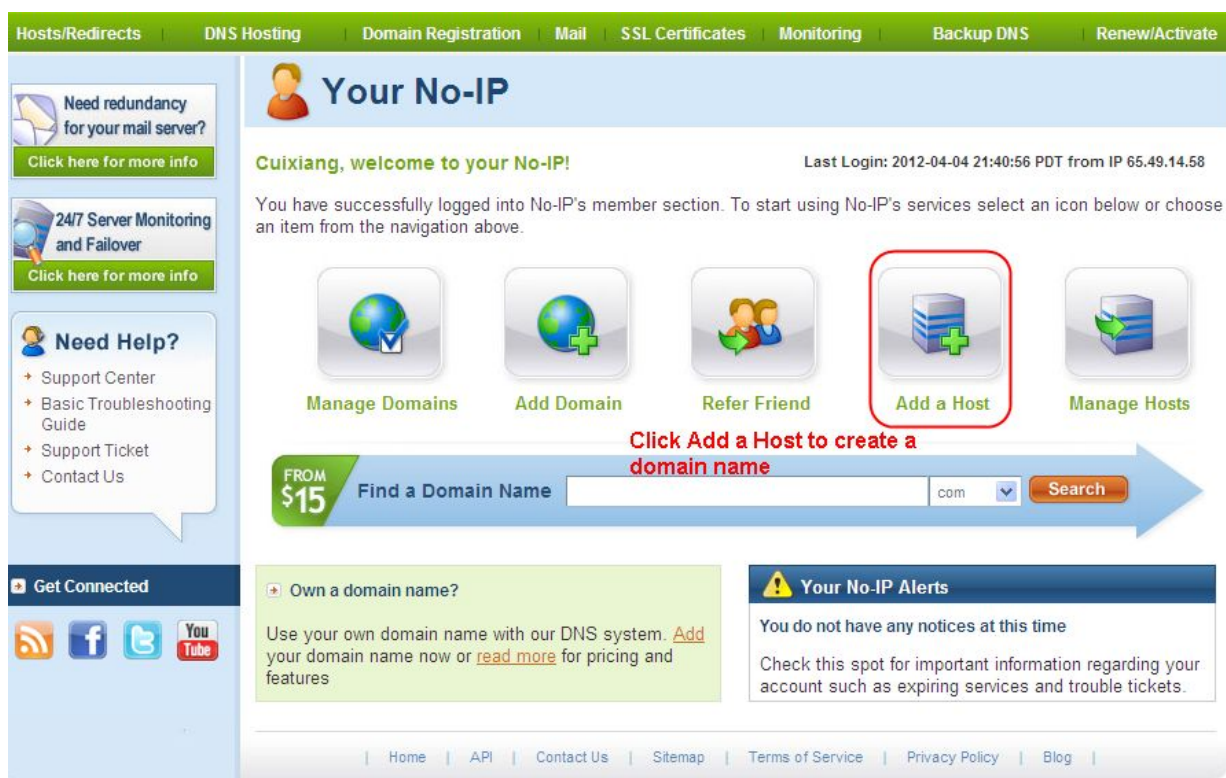


Figure 3.29

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 Service 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, user name foscam, password foscam2012 for example.

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

**Secondly**, disable the Manufacturer's domain name and select No-Ip as a server in the **Third Party DDNS**.

**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

The Third Party DDNS and the Manufacturer's Domain Name cannot work at the same time. If you have set Third Party DDNS and meanwhile you enabled the Foscam Domain Name, the Third Party DDNS will take effect.

## ② Do port forwarding within the router

**Example: The camera's LAN IP address is http://192.168.1.35:88 ,**

**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.

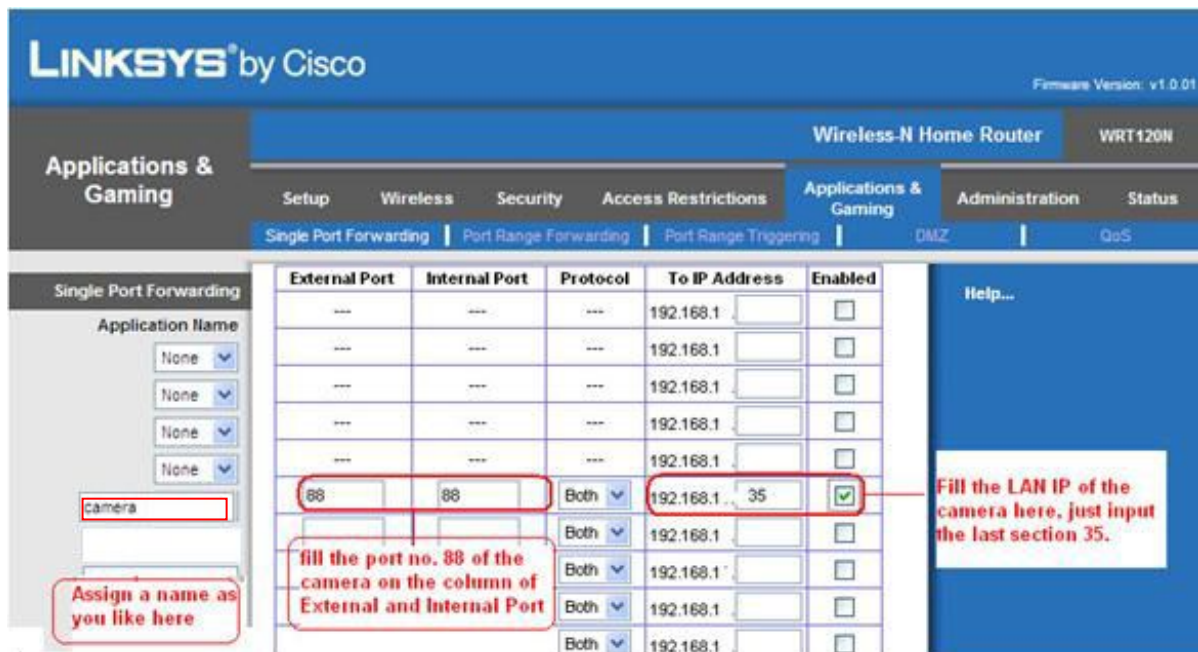


Figure 3.30

### 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. 88 for example, the accessing link of the camera via internet would be [http:// ycxgwp.no-ip.info:88](http://ycxgwp.no-ip.info:88)

## 3.11 Mail Service Settings

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

**FOSCAM Outdoor Waterproof IP Camera**

**Mail Service Settings**

Sender	cuiyao93@gmail.com	1
Receiver 1	yaoyao@163.com	2
Receiver 2		
Receiver 3		
Receiver 4		
SMTP Server	smtp.gmail.com	3
SMTP Port	25	
Transport Layer Security	STARTTLS	
Gmail only supports TLS at port 465 and supports STARTTLS at port 25/587.		
Need Authentication	<input checked="" type="checkbox"/>	4
SMTP User	cuiyao93@gmail.com	
SMTP Password	*****	
<input type="button" value="Test"/> Please set first, and then test.		
Report Internet IP by Mail	<input checked="" type="checkbox"/>	6
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>		

5

Figure 3.31

**1----- Sender** Mailbox for sender must support SMTP

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

**3----- SMTP Server/ Port** 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.

**4----- SMTP user** ID account of the sender email address

**5----Submit** Click Submit to take effect

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

**NOTE:** Click **Submit** first before choosing **Test**.

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

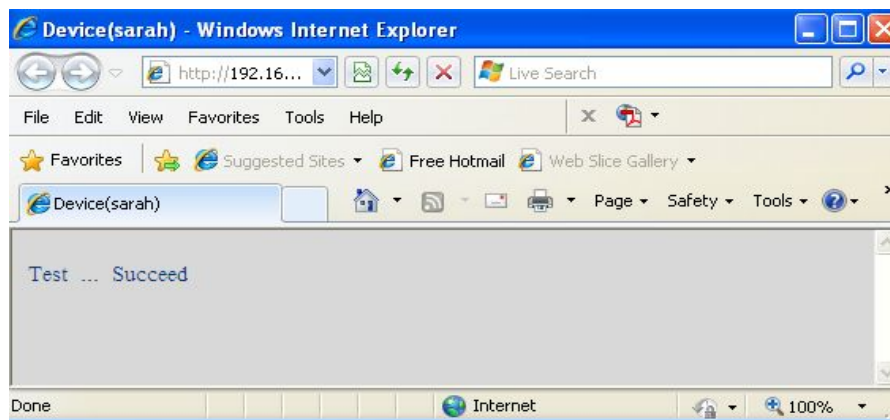


Figure 3.32

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

**Report Internet IP by Mail**—If selected, you will receive emails which contains internet IP information such as When the camera is powered or the Internet IP has changed. (For example: IPCAM's urls is <http://119.123.207.96:8068>). Make sure the port is mapped to the router correctly.

### 3.12 MSN Setting

If you want the camera send its current internet IP address to you or your friends, please set MSN settings.

Acquire an MSN ID for the IPCAM first, then follow the instructions as per Figure 3.33.

**FOSCAM Outdoor Waterproof IP Camera**

**MSN Settings**

User: foscam31@hotmail.com

Password: .....

MSN Friends List:

- foscam13@hotmail.com
- sanshao27@hotmail.com
- 
- 
- 
- 
- 
- 
- 
- 

Submit Refresh

**Fill in the user and password of the MSN ID you applied for your camera**

**MSN ID in this list can chat with the camera**

Figure 3.33

Click Submit and go to the “Device Status” screen and verify the MSN settings are succeed.

**FOSCAM Outdoor Waterproof IP Camera**

**Device Status**

Device ID	000DC5D5FE9B
Device Firmware Version	11.35.2.49
Device Embedded Web UI Version	2.4.20.4
Alias	apple
Alarm Status	None
DDNS Status	Foscam Succeed <a href="http://camera.myfoscam.org:8181">http://camera.myfoscam.org:8181</a>
UPnP Status	No Action
MSN Status	Succeed

Figure 3.34

When the MSN ID in the Friends list login the MAN, he can chat with camera. For example:

Foscam13(this account contained in the Friends list) log in MSN, and double click the camera's account (foscam31), then enter "url?", the camera will send it's current IP address to you.

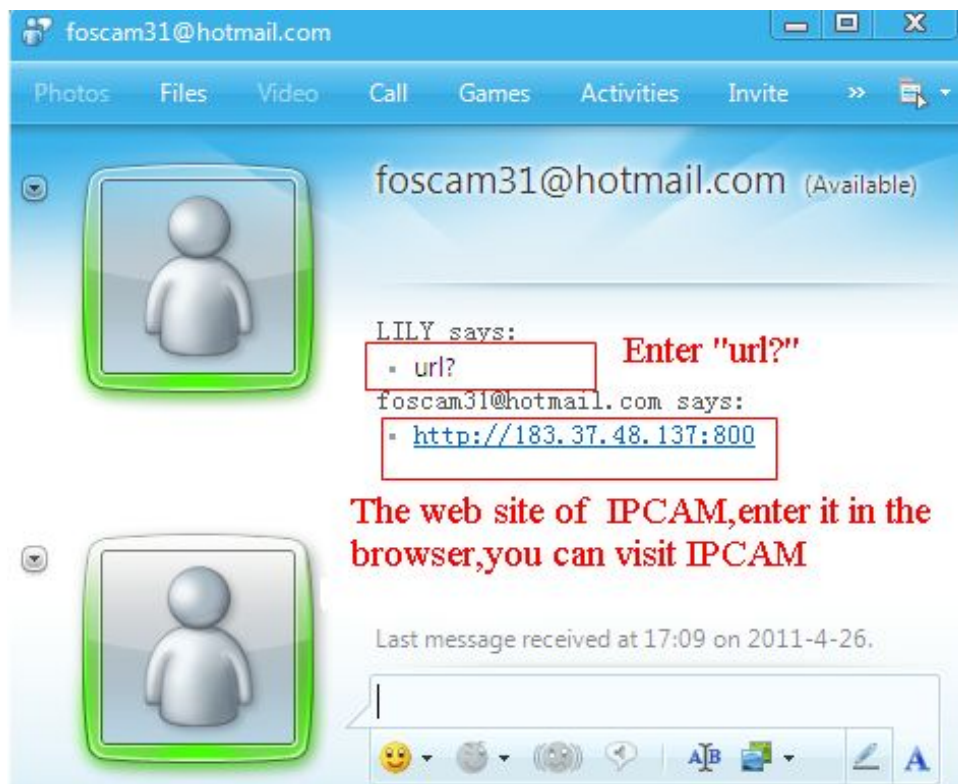


Figure 3.35

**Note:** Create a new MSN account for the camera, do not use the same MSN account as you would like to chat with your friends. When the camera login uses the MSN account, this account cannot be used for anything else when the camera works.

### 3.13 FTP Service Settings

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

**FTP Service Settings**

FTP Server	192.168.0.50
FTP Port	21
FTP User	sarah
FTP Password	••••
FTP Upload Folder	/
FTP Mode	PORT ▾
	Test Please set first, and then test.
Upload Image Now	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	30
Enable Set Filename	<input checked="" type="checkbox"/>
Filename	sarah
<input checked="" type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Figure 3.36

**FTP Service Settings**

FTP Server	ftp.mgenseal.com
FTP Port	21
FTP User	deotest@mgenseal.com
FTP Password	••••
FTP Upload Folder	/
FTP Mode	PORT ▾
	Test Please set first, and then test.
Upload Image Now	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	30
Enable Set Filename	<input checked="" type="checkbox"/>
Filename	sarah
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Figure 3.37

**FTP server:** If your FTP server is located on the LAN, you can set as Figure 3.36.

If you have an FTP server which you can access on the internet, you can set as Figure 3.37.

**FTP Port:** Usually the port is 21.

**FTP Upload Folder:** Make sure that the folder you plan to store images exists as the camera can't create the folder itself. Also, the folder must be read/writable.

**FTP Mode:** The camera supports standard (POST) mode and passive (PASV) mode

**Upload Image Now:** This option will upload images continuously when you enable the checkbox

**Enable Set Filename:** When you enable this option the uploaded image will be named according to the filename you enter. The next image will overwrite the filename of the previous image. Hence there will only be one image, the last uploaded.

**Filename:** See the above option.

**Note:** You cannot change the name of the alarm image.

**Upload Interval** refers to the time between the current image and the next image being uploaded.

Click **Submit** to save these settings. Click **Test**, the following screen displays if successful.

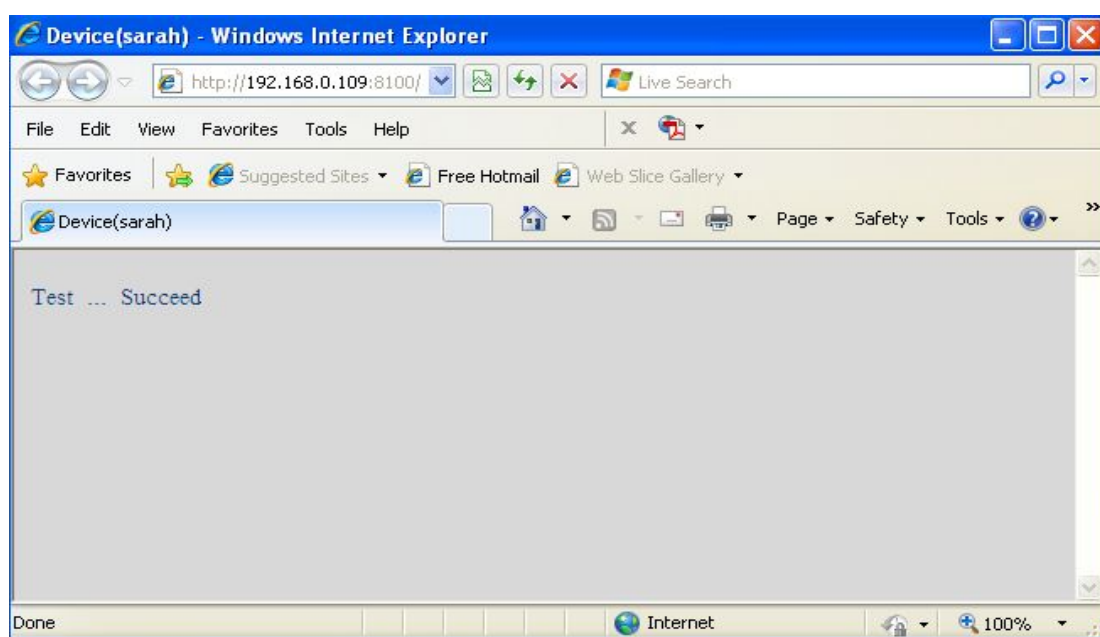


Figure 3.38

The following errors may occur:

- 1) Can not connect to the server. Check if the FTP Server is correct.
- 2) Network Error. Please try later.
- 3) Server Error.
- 4) Incorrect user or password. Check the username and password.
- 5) Cannot access the folder. Verify the folder exists and your account is authorized
- 6) Error in PASV mode. Verify the server supports PASV mode.
- 7) Error in PORT mode. PASV mode should be selected if the device is behind a NAT.
- 8) Cannot upload file. Verify your account is authorized

If an error occurs check the parameters you entered are correct. The filename format of the image is similar to 00606E8C1930(sarah)\_0\_20100728114350\_25.jpg

Check if your FTP server supports this file name format.

### 3.14 Alarm Service Settings

IP Camera supports **Motion Detection Alarmed**, when the motion has been detected, it will send email alerts or upload images or record.

**Alarm Service Settings**

Motion Detection Alarmed	<input checked="" type="checkbox"/>	1
Motion Detection Sensitivity	10	2
Motion Compensation	<input checked="" type="checkbox"/>	3
Send Mail on Alarm	<input type="checkbox"/>	
Upload Image on Alarm	<input type="checkbox"/>	
Scheduler	<input type="checkbox"/>	
Beep on Alarm	<input checked="" type="checkbox"/>	
Record on Alarm	<input checked="" type="checkbox"/>	
Alarm Record Filepop	<input checked="" type="checkbox"/>	

Sensitivity: 1-10, 10=the highest sensitivity

Submit Refresh

Figure 3.39

- 1---- If you want to set Motion Detection Alarmed ,select the checkbox
- 2---- The larger the number, the higher the motion sensitivity will be
- 3---- Select this option to reduce false alarms when light changes

If motion is detected after you enable **Motion Detection Armed**, the Alarm Status will turn to Motion Detect Alarm.



Figure 3.40

There are four alarm indicators:

**1) Camera will send emails when motion is activated.**

If you want to receive images when motion is detected, you must set **Mail Service Settings** first. (Figure 3.31) Then set motion alarm as follows:



Figure 3.41

**2) Upload images via FTP server when motion trigger.**

To upload images to an FTP server when motion is detected, you must set **FTP Service Settings** (Figure 3.36/3.37) first and then set motion alarm as pictured below

**Alarm Service Settings**

Motion Detection Alarmed	<input checked="" type="checkbox"/>
Motion Detection Sensitivity	10 <small>Sensitivity: 1-10, 10=the highest sensitivity</small>
Motion Compensation	<input checked="" type="checkbox"/>
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image on Alarm	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	30
Scheduler	<input type="checkbox"/>
Beep on Alarm	<input type="checkbox"/>
Record on Alarm	<input type="checkbox"/>

**Select this option**

**Set an interval for images to upload**

Figure 3.42

3) You can hear the beep sound when the alarm has been detected.

**Alarm Service Settings**

Motion Detection Alarmed	<input checked="" type="checkbox"/>
Motion Detection Sensitivity	10 <small>Sensitivity: 1-10, 10=the highest sensitivity</small>
Motion Compensation	<input checked="" type="checkbox"/>
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image on Alarm	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	30
Scheduler	<input type="checkbox"/>
Beep on Alarm	<input checked="" type="checkbox"/>
Record on Alarm	<input type="checkbox"/>

**Select this option**

Figure 3.43

4) The camera will record automatically for one minute after motion is detected. You can find the recording file in the folder which you set previously. (Figure 3.6)

**Alarm Service Settings**

Motion Detection Alarmed	<input checked="" type="checkbox"/>
Motion Detection Sensitivity	10 <small>Sensitivity: 1-10, 10=the highest sensitivity</small>
Motion Compensation	<input checked="" type="checkbox"/>
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image on Alarm	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	30
Scheduler	<input type="checkbox"/>
Beep on Alarm	<input checked="" type="checkbox"/>
Record on Alarm	<input checked="" type="checkbox"/>
Alarm Record Filepop	<input checked="" type="checkbox"/>

Submit

**Select the checkbox**

**When you enable motion alarm, the camera will record automatically and store the recording file to the folder you configured. This icon is used to control whether the folder opens or not.**

Figure 3.4

### Alarm Scheduler:

Here are two ways to set the alarm.

1) Alarm at any time when motion is detected.

Don't select **Scheduler**. Click Submit and the camera will alarm at any time when motion is detected.

**Alarm Service Settings**

Motion Detection Alarmed	<input checked="" type="checkbox"/>
Motion Detection Sensitivity	10 <small>Sensitivity: 1-10, 10=the highest sensitivity</small>
Motion Compensation	<input checked="" type="checkbox"/>
Send Mail on Alarm	<input checked="" type="checkbox"/>
Upload Image on Alarm	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	30
Scheduler	<input type="checkbox"/>
Beep on Alarm	<input checked="" type="checkbox"/>
Record on Alarm	<input checked="" type="checkbox"/>
Alarm Record Filepop	<input checked="" type="checkbox"/>

Submit Refresh

Figure 3.45

Another Way: select Scheduler, and click "set All", you will see all time boxes turn blue as in the following picture. Click Submit and the camera will alarm at any time when motion is detected.

**FOSCAM Outdoor Waterproof IP Camera**

**Device Status**

**Alias Settings**

**Date & Time Settings**

**Users Settings**

**Multi-Device Settings**

**Basic Network Settings**

**Wireless LAN Settings**

**ADSL Settings**

**UPnP Settings**

**DDNS Service Settings**

**Mail Service Settings**

**MSN Settings**

**FTP Service Settings**

**Alarm Service Settings**

**Upgrade Device Firmware**

**Backup & Restore Settings**

**Restore Factory Settings**

**Reboot Device**

**Log**

**Back**

Motion Compensation ☒

Send Mail on Alarm ☒

Upload Image on Alarm ☒

Upload Interval (Seconds)

**Scheduler** ☒

Beep on Alarm ☒

Record on Alarm ☒

Alarm Record Filepop ☒

**set All** **clear All**

Set	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Clear	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

**Submit** **Refresh**

Figure 3.46

## 2) Specify an alarm schedule.

If you want the camera to alarm during set times select **Scheduler** and set time range.

If you want to select one serial area, you can click any number between 00 and 23 on the first row, the corresponding column will be selected and it will turn blue. For example, click the number "06" on the first row, you can see the column turn blue. That means the camera will alarm when motion is detected between 6 and 7 o'clock every day. Click the number "06" on the second row, you can cancel the corresponding column you set. And it will turn grey.

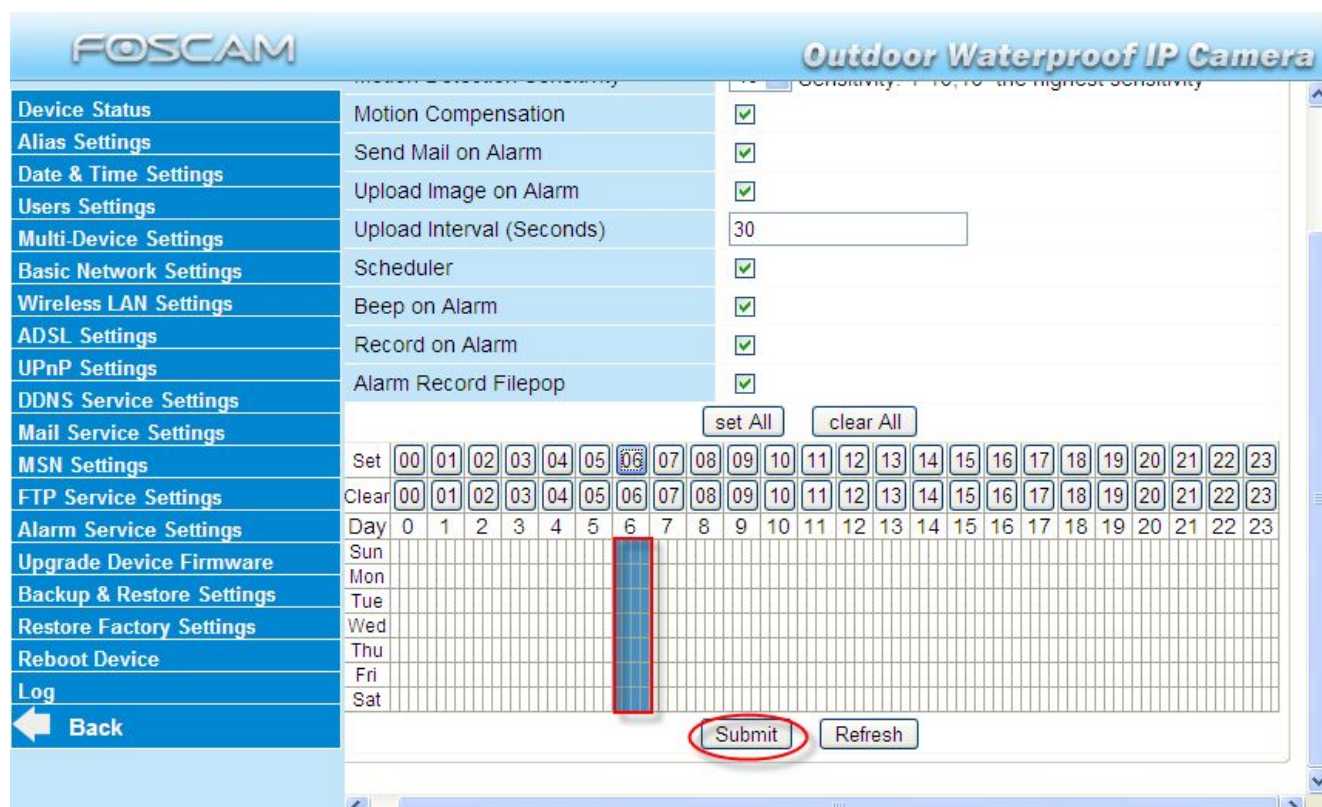


Figure 3.47

If you want to select discrete area, you click the left button on the box of time range. It will turn blue. If you want to delete it, just click the left button and it will turn grey.

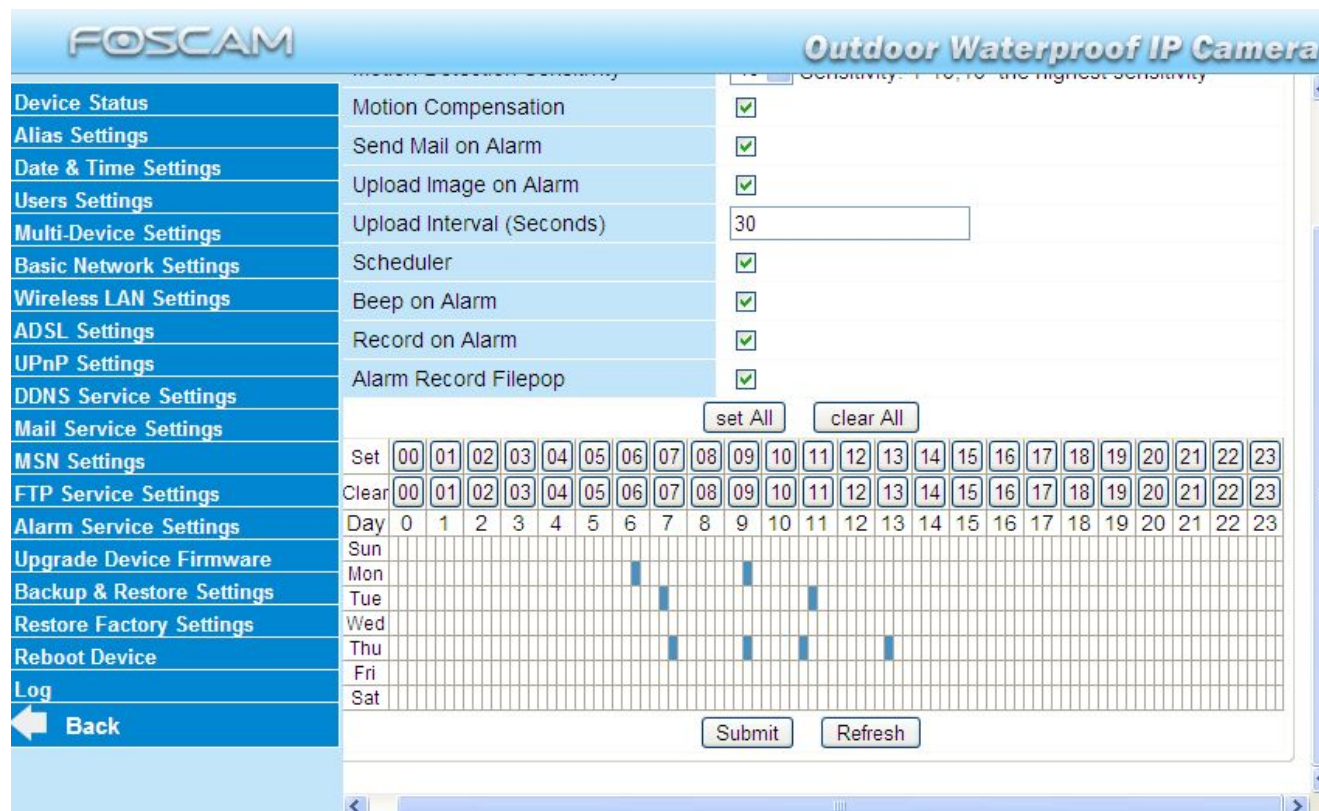


Figure 3.48

### 3.15 Upgrade Device Firmware

When you upgrade the camera, please upgrade system firmware first and then upgrade the Web UI.

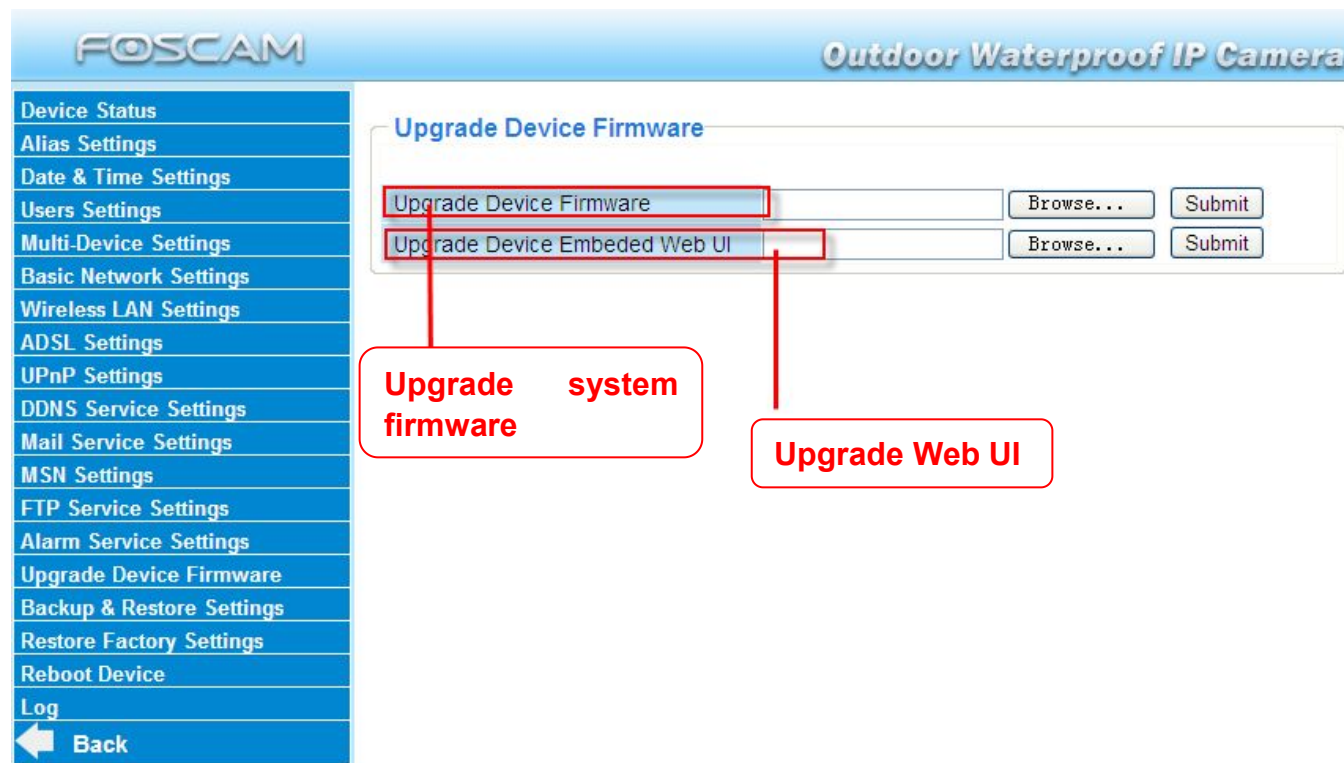


Figure 3.49

Click **Browse**, choose the correct bin file and then click **Submit** to upgrade.  
Don't shut down the power during upgrade until the IP camera tool finds the camera again.

### 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 3.50

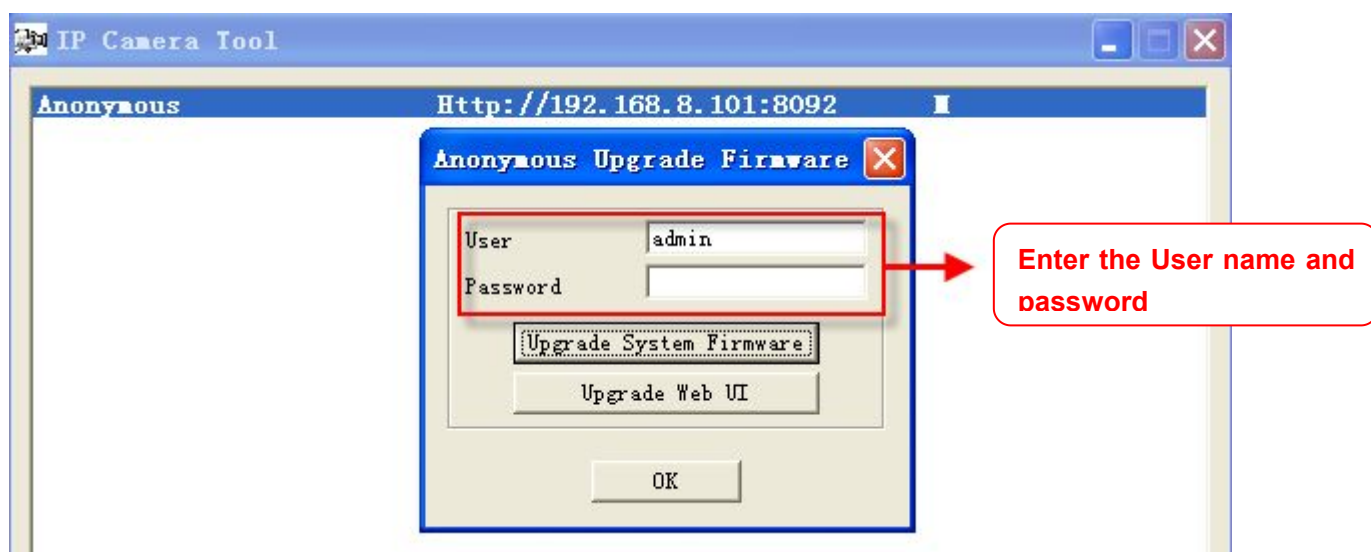


Figure 3.51

**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) 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.

2) 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.

3) Normally, only Device WEB UI need to be upgrade, please do not try to upgrade the Device Firmware.

4) Never shut down the power of the camera during upgrade until the IP camera restart and get connected.

### 3.16 Backup & Restore Settings

Click **Submit** to save all the parameters you have set. These parameters will be stored in a bin file for future use. The bin file can be reloaded to restore the parameters that were set.

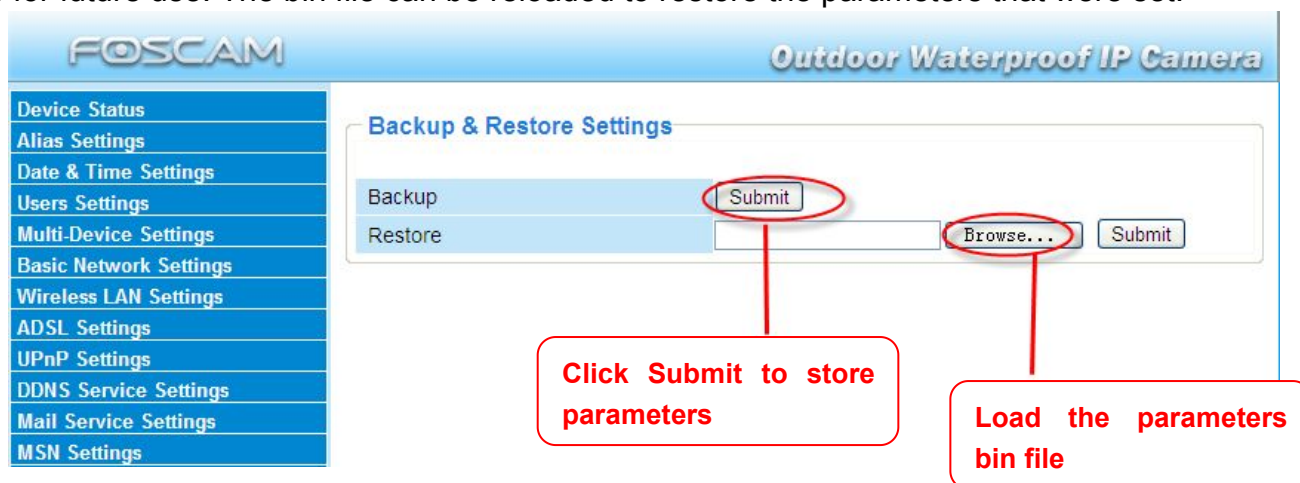


Figure 3.52

### 3.17 Restore Factory Settings

All parameters will return to factory settings if selected.

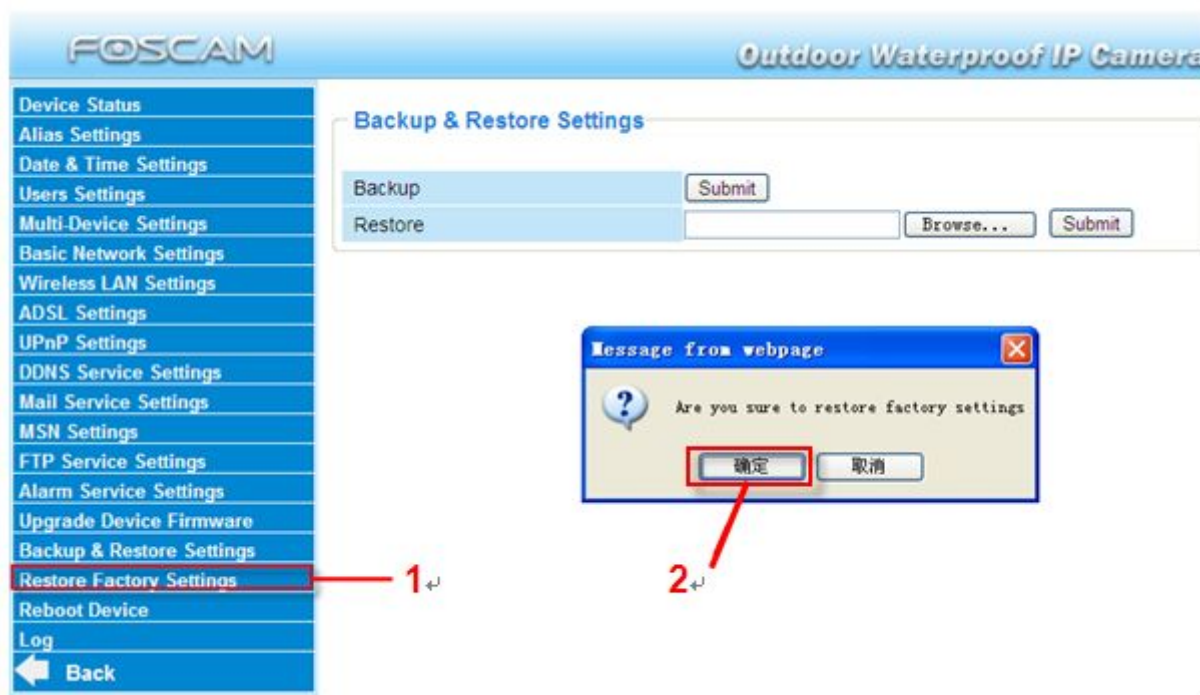


Figure 3.53

### 3.18 Reboot Device

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

### 3.19 Log

The log record shows who accessed the camera and when. (Figure 3.54).

**FOSCAM** *Outdoor Waterproof IP Camera*

**Log**

Thu, 2012-09-06 01:27:40	admin	192.168.8.101	access
Thu, 2012-09-06 01:27:53	admin	192.168.8.101	access
Thu, 2012-09-06 01:27:59	motion detect		
Thu, 2012-09-06 01:28:07	admin	192.168.8.101	access
Thu, 2012-09-06 01:28:19	admin	192.168.8.101	access
Thu, 2012-09-06 01:34:43	admin	192.168.8.101	access
Thu, 2012-09-06 01:37:16	admin	192.168.8.101	access
Thu, 2012-09-06 01:37:43	admin	192.168.8.101	access
Thu, 2012-09-06 01:42:49	admin	192.168.8.101	access
Thu, 2012-09-06 01:50:02	admin	192.168.8.101	access
Thu, 2012-09-06 02:05:25	motion detect		

Refresh

Figure 3.54

### 3.20 Back

This will take you back to the surveillance window.

## 4 APPENDIX

### 4.1 Frequently Asked Questions

**NOTE:** Always verify network connections are working by checking the status of the indicators on the network server, hub and network card.

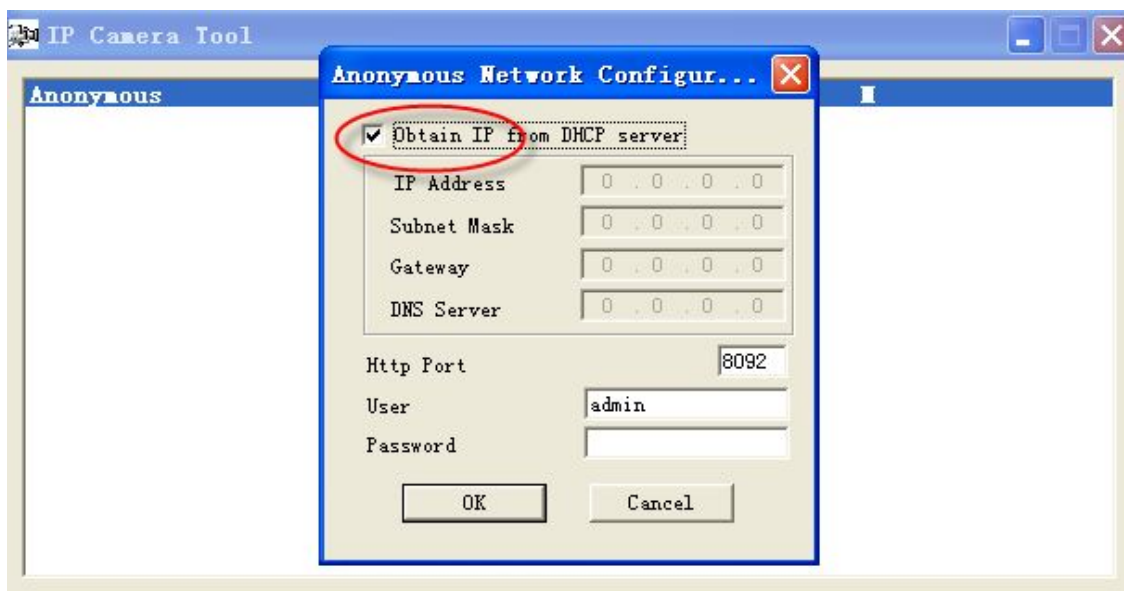
#### 4.1.1 I have forgotten the administrator username and/or password

To reset the administrator username and password, press and hold down the RESET BUTTON for 10 seconds. Upon releasing the reset button, 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

#### 4.1.2 Subnet doesn't match, dbclick to change

If the IP Camera Tool shows the error "Subnet doesn't match, dbclick to change!", select **Obtain IP from DHCP server**.



If this error still exists after obtaining an IP from the DHCP server, check the local area connection of your computer and verify the subnet and gateway of the camera which should be the same subnet of your computer.

### 4.1.3 No Pictures Problems

Video streaming is managed by the ActiveX controller. If the ActiveX controller isn't installed correctly you will see no video image. There are two ways to resolve this problem:

- 1) Reinstall "IP Camera Tool" and ActiveX controller (recommended) .
- 2) Download ActiveX controller and set the security setting of IE: IE browser → Tool → Internet Proper → Security → Custom Level → ActiveX control and Plug-ins. The first 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: Initialise and script ActiveX controls not marked as safe**

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

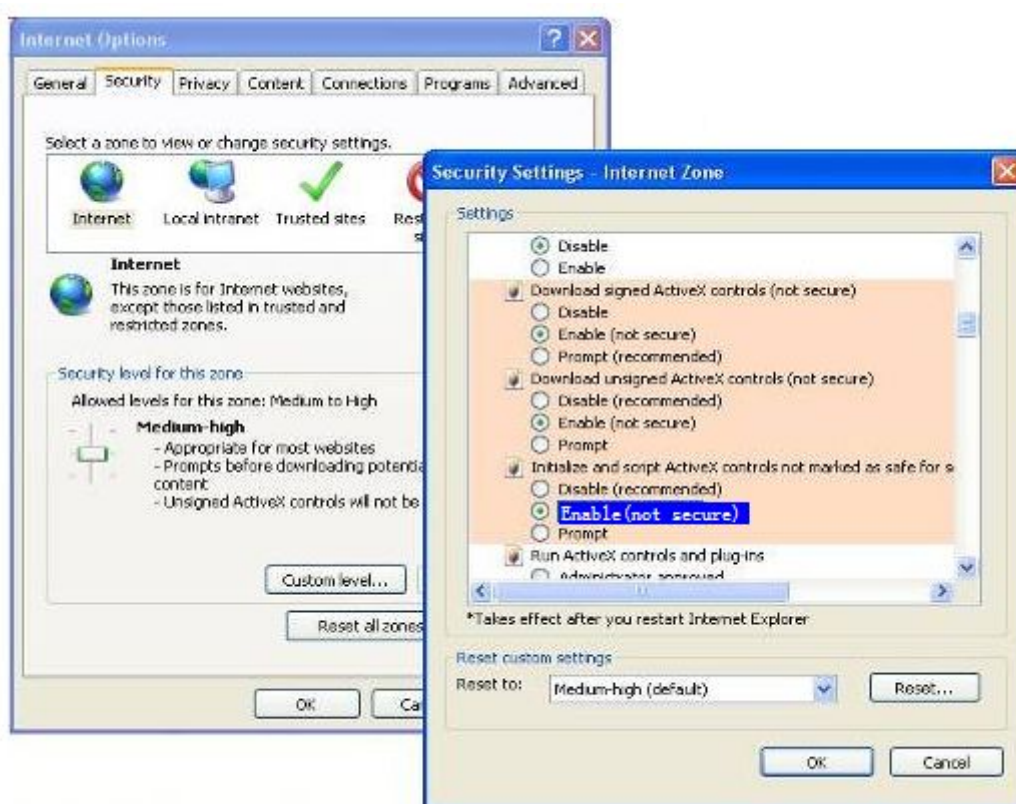


Figure 5.1

If you allow the ActiveX to run, but still can not see living video and a red cross in the centre of the video. Please select another port number. Don't use port 80, use port 85, 8005.etc.

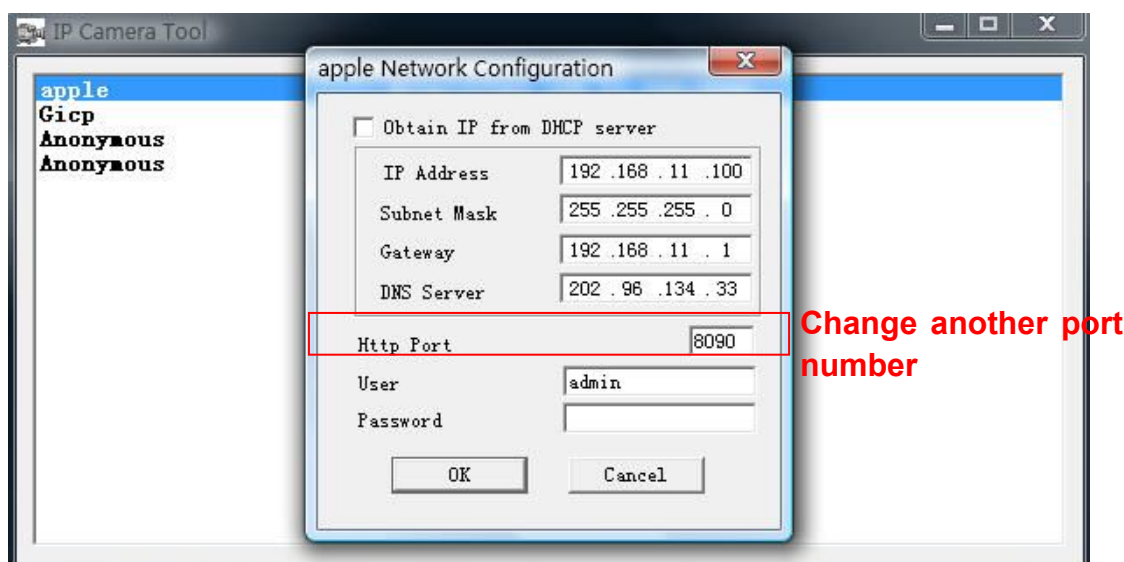


Figure 4.2

**NOTE:** Make sure that your firewall or anti-virus software does not block the camera or ActiveX. If you cannot see live video, try shutting down the firewall or anti-virus software and try again.

#### 4.1.4 Can't access IP camera on internet

Possible reasons why camera is not accessible on the internet:

- 1) ActiveX controller is not installed correctly
- 2) The port which the camera uses is blocked by a Firewall or Anti-virus software. Try changing to another port number. (Figure 5.2)
- 3) Port forwarding is not successful (Figure 3.30)

Double check these settings and make sure they are correct.

#### 4.1.5 IP Camera Tool could not find camera's IP

Verify that the network cable is securely fastened to the camera.

Make sure that DHCP is enabled on your router, do not enable MAC address filter.

Make sure that the firewall or anti-virus software does not block the camera. You can add the camera as a trusted site on your firewall or anti-virus software.

#### 5.1.6 UPnP always failed

UPnP only contains port forwarding in our recent software. Sometimes, it may be fail to do port forwarding automatically because of the firewall or anti-virus software. It may also be due to the router's security settings. We recommend manually configuring port forwarding the camera can be viewed on the internet.

### 4.1.7 Couldn't find the shortcut on the desktop after install IP camera tool

If you use Windows7 or Vista and the shortcut is missing after installing the IP camera tool, check the path of IP Camera program.

For example, if it was pointing to C:\Windows\System32\IPCamera.exe.

Please fix this by pointing the shortcut to the correct path

C:\Windows\SysWOW64\IPCamera.exe. After this you should be able to use the shortcut without any problems.

### 4.1.8 I can't change the record path

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

### 4.1.9 I can't find multi-device settings and record icon

Record and multi-device functionality are controlled by the ActiveX controller.

These functions are not available in Firefox, Google Chrome and Safari.

### 4.1.10 Camera cannot connect using wireless

If your camera cannot connect wirelessly after you set the wireless settings, unplug / plug the power cable. (for more details: **Wireless LAN settings** in **Chapter3.7**)

Usually, camera can't connect wireless mainly because of incorrect settings.

Verify that the SSID is correct; use the same encryption for router and camera. Share key should not contain special characters, only word and number will be better. Disable MAC address filtering.

### 4.1.11 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)

### 4.1.12 Only see black screen or undefined characters when using remote login

If you could access the login page remotely, this indicates that your DDNS settings are correct. If you are unable to see live video but only some undefined characters, this may be due to the internet speed issues or the camera using Wi-Fi.

## 4.2 Default Parameters

### Default network Parameters

IP address: obtain dynamically

Subnet mask: 255.255.255.0

Gateway: obtain dynamically

DHCP: Disabled

DDNS: Embedded FOSCAM domain name

### Username and password

Default administrator username: **admin**

Default administrator password: No password

## 4.3 Specifications

ITEMS		FI8906W
<b>Image Sensor</b>	Image Sensor	Color CMOS Sensor
	Display Resolution	640 x 480 Pixels(300k Pixels)
	Lens	f: 4mm
	Mini. Illumination	0.5Lux
<b>Lens</b>	Lens Type	Glass Lens
	View Angle	50°
	IR_CUT	Filter will switch automatically
<b>Video</b>	Image Compression	MJPEG
	Image Frame Rate	15fps(VGA),30fps(QVGA)
	Resolution	640 x 480(VGA), 320 x 240(QVGA)
	Light Frequency	50Hz, 60Hz or Outdoor
	Video Parameters	Brightness, Contrast

<b>Communication</b>	Ethernet	One 10/100Mbps RJ-45
	Supported Protocol	HTTP,FTP,TCP/IP,UDP,SMTP,DHCP,PPPoE,DDNS,UPnP,GPRS
	Wireless Standard	IEEE 802.11b/g/n
	Data Rate	802.11b: 11Mbps(Max.) 802.11g: 54Mbps(Max.) 802.11n: 150Mbps(Max.)
	Wireless Security	WEP & WPA & WPA2 Encryption
	Infrared Light	60 IR LEDs, Night visibility up to 30 meters
	Dimension	175(L)X95(W)X245(H)mm.
	Gross Weight	1408 g(carton box package)
	Net Weight	1228 g (accessories included)
<b>Power</b>	Power Supply	DC 5V/2.0A (EU,US,AU adapter or other types optional)
	Power Consumption	5Watts (Max.)
<b>Environment</b>	Operate Temper.	0° ~ 55°C (32°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temper.	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
<b>PC Requirements</b>	CPU	2.0GHZ or above
	Memory Size	256MB or above
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP/Vista/Windows7-32bit/Windows7-64bit/ Windows8- 32bit/Windows8-64 bit / mac
	Browser	IE 6.0, IE7.0, IE8.0,IE9.0, Firefox2.0,Firefox3.0, Google Chrome, Safari or other standard browsers
<b>Certification</b>	CE,FCC	

## 5 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, pls contact our service department: [tech@foscam.com](mailto:tech@foscam.com).

