

Figure 4.2

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

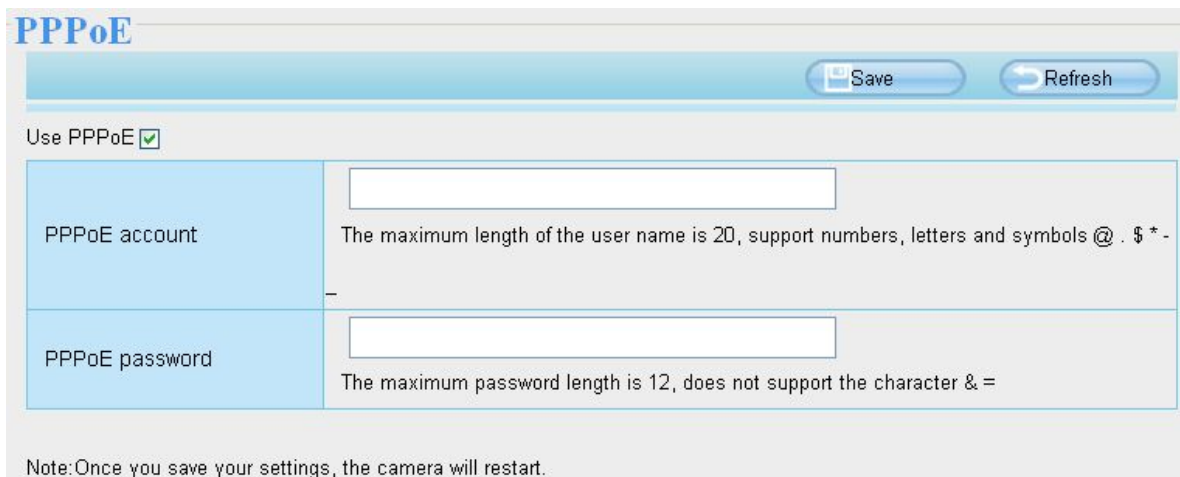
The LAN IP address will disappear on the window of IP Camera Tool when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the window of the IP Camera Tool. The IP address may have changed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

### Note

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

### 4.3.3 PPPoE

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



**PPPoE**

Save Refresh

Use PPPoE ☒

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

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

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

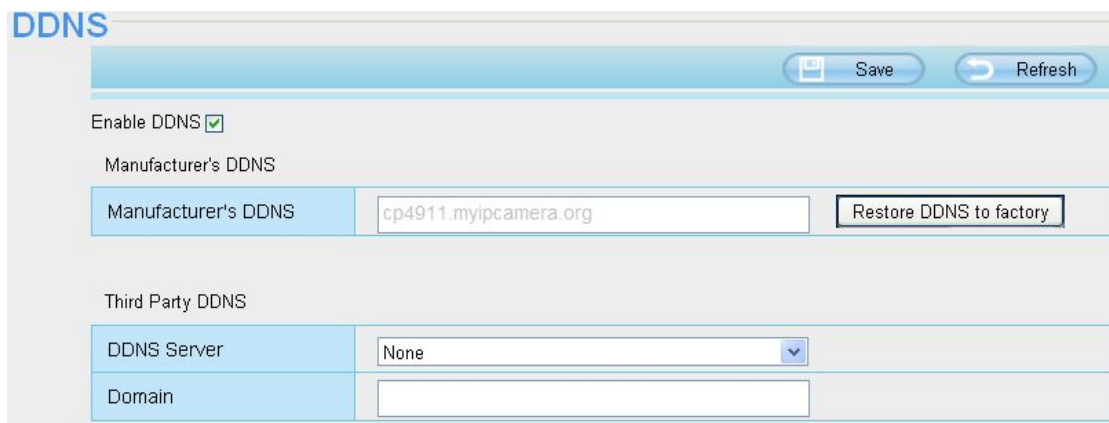
Figure 4.23

### 4.3.4 DDNS

The 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.

#### IPCAM domain name

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



**DDNS**

Save Refresh

Enable DDNS ☒

Manufacturer's DDNS

Manufacturer's DDNS  Restore DDNS to factory

Third Party DDNS

DDNS Server

Domain

Figure 4.24

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

Take hostname **cp4911.myipcamera.org** and HTTP Port no. 8000 for example, the accessing link of the camera via internet would be **http://cp4911.myipcamera.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](http://www.no-ip.com), [www.3322.com](http://www.3322.com)

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

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

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



Figure 4.25

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

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

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

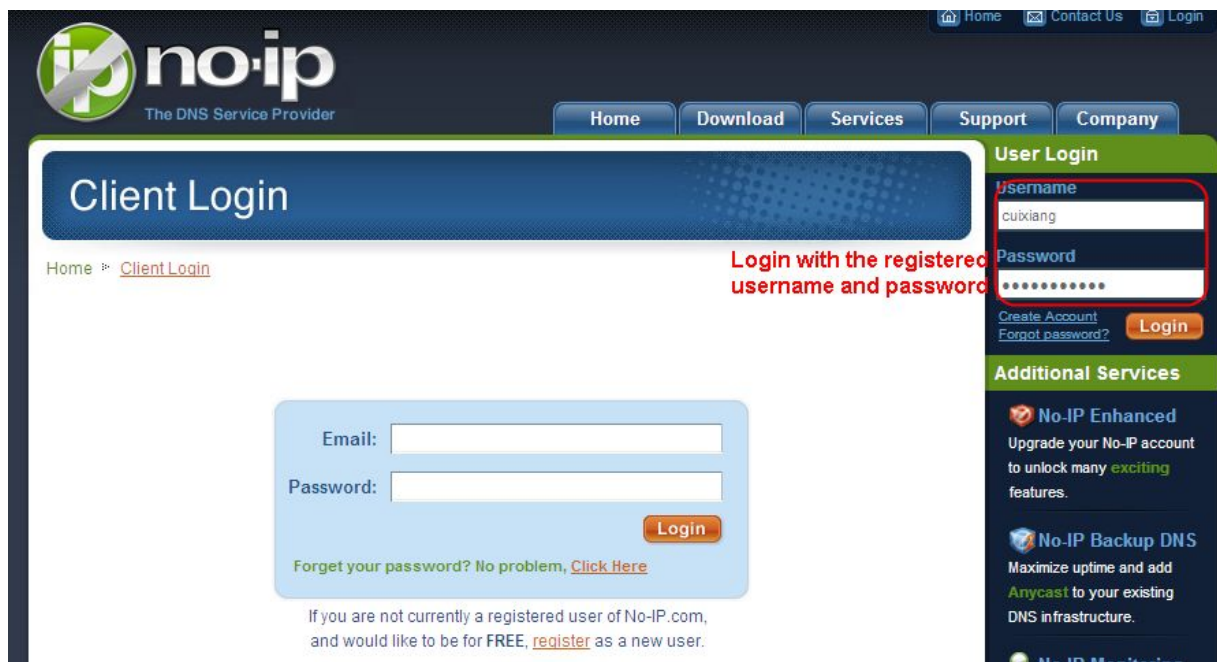


Figure 4.26

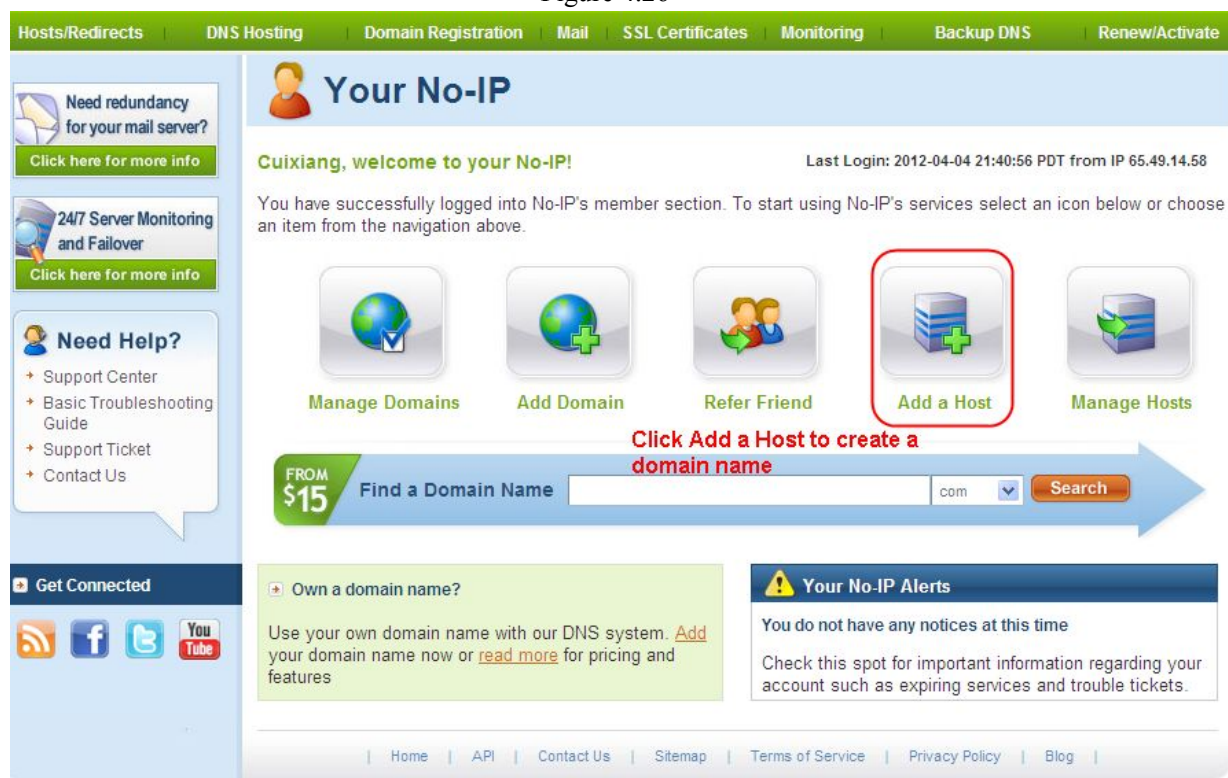


Figure 4.27

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

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

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

Take hostname [ycxgwp.no-ip.info](http://ycxgwp.no-ip.info), user name **test**, password **test2012** for example.

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

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

**Thirdly**, fill test as DDNS user, fill password test2012 as DDNS password, fill [ycxgwp.no-ip.info](http://ycxgwp.no-ip.info) as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

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

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

### NOTE :

If you have set Third Party DDNS successfully ,the IPCAM Domain Name will be invalid. The Third Party DDNS and the IPCAM 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.

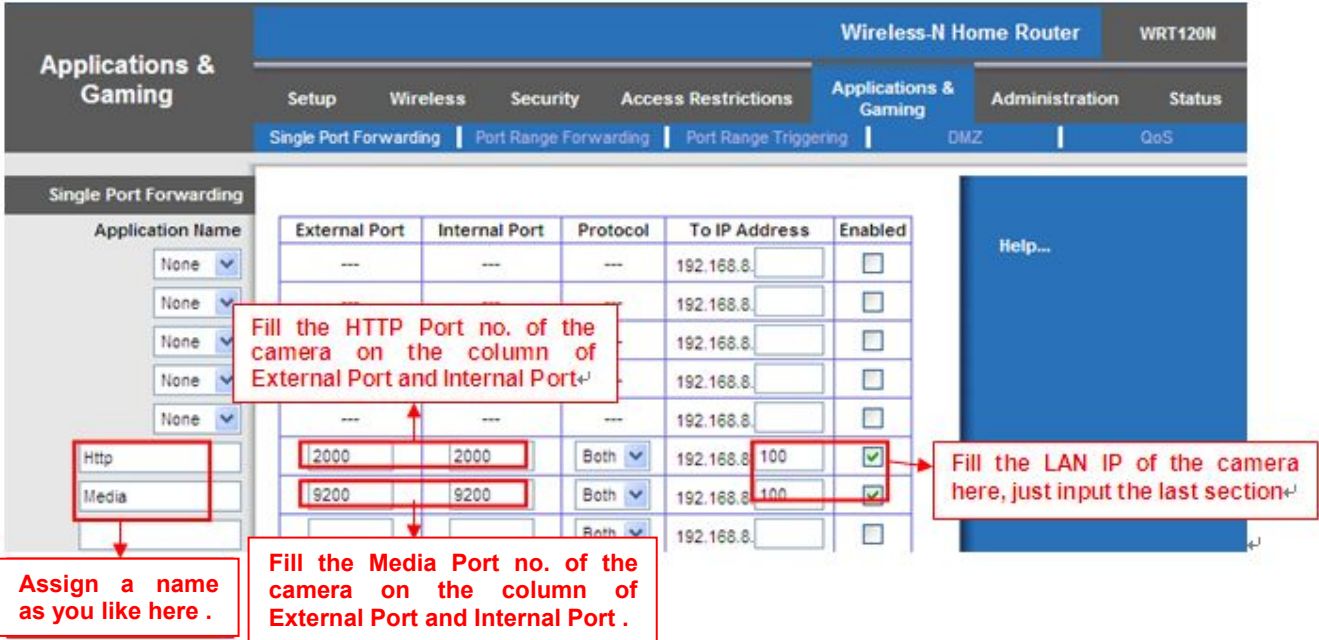


Figure 4.28

### 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

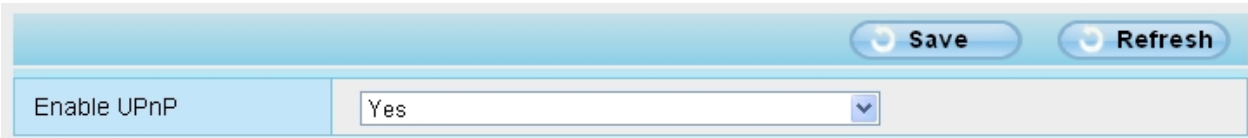


Figure 4.29

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

Device Status	
<div>Refresh</div>	
Alarm Status	Disabled
NTP Status	Failed
DDNS Status	Success <a href="http://cp4911.myipcamera.org:8000">http://cp4911.myipcamera.org:8000</a>
UPnP Status	Success
WiFi Status	Not connected
IR LED Status	Off

Figure 4.30

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.

Port	
<div>Save Refresh</div>	
HTTP Port	<input type="text" value="88"/>
HTTPS Port	<input type="text" value="443"/>
ONVIF Port	<input type="text" value="888"/>

Figure 4.31

#### 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.

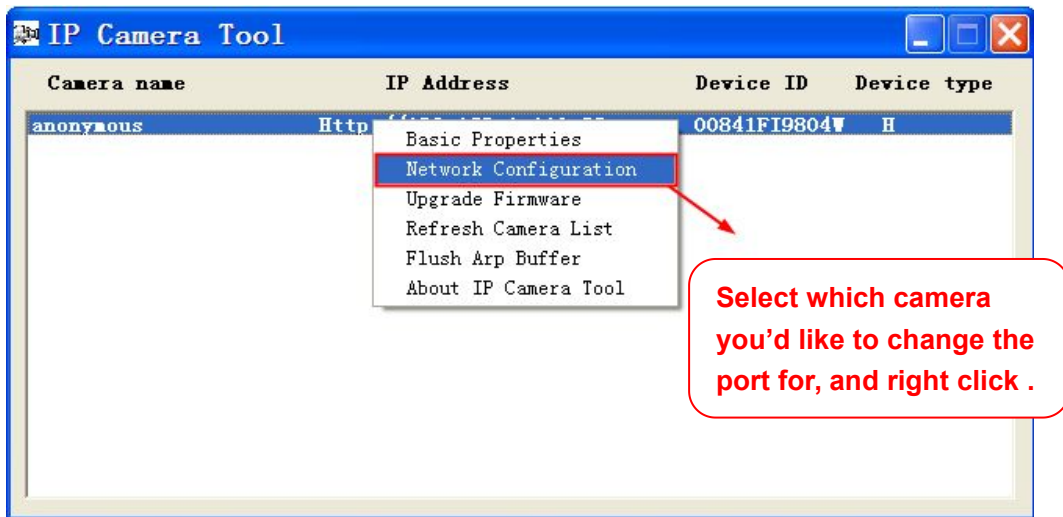


Figure 4.32

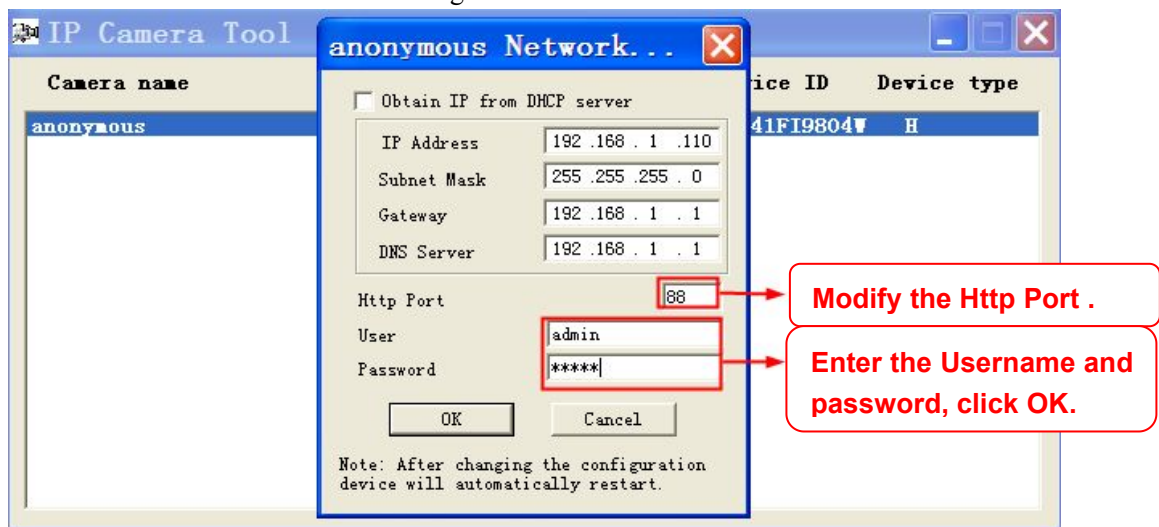


Figure 4.33

**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!

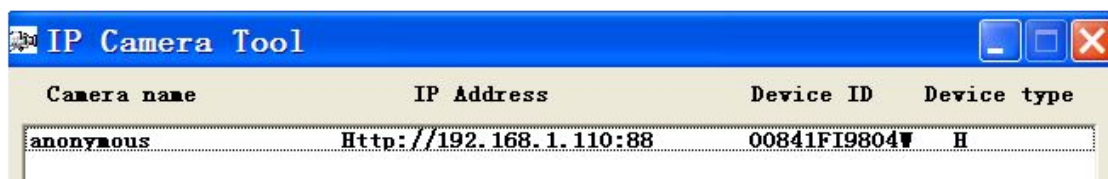


Figure 4.34

**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.

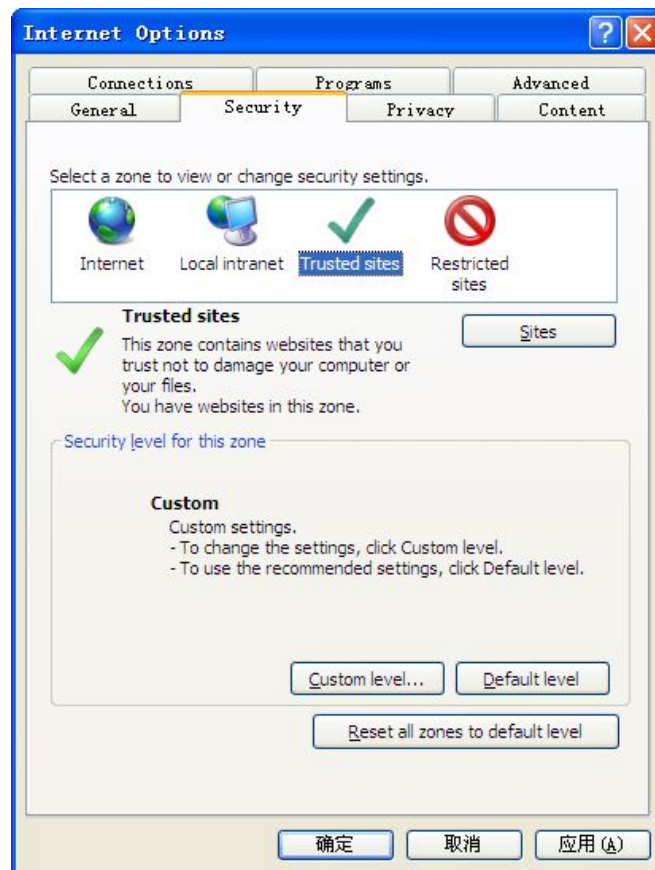


Figure 4.35

**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.

#### RTSP function

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

The part in the square brackets may be omitted.

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

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

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

For example:

IP: 192.168.1.11

HTTP Port number: 88

User name: admin

Password: 123



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

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

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

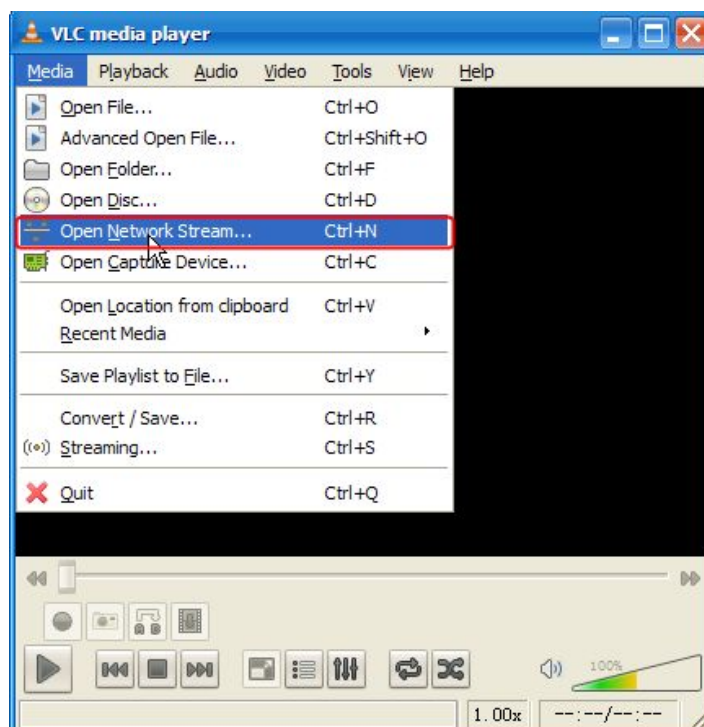


Figure 4.36

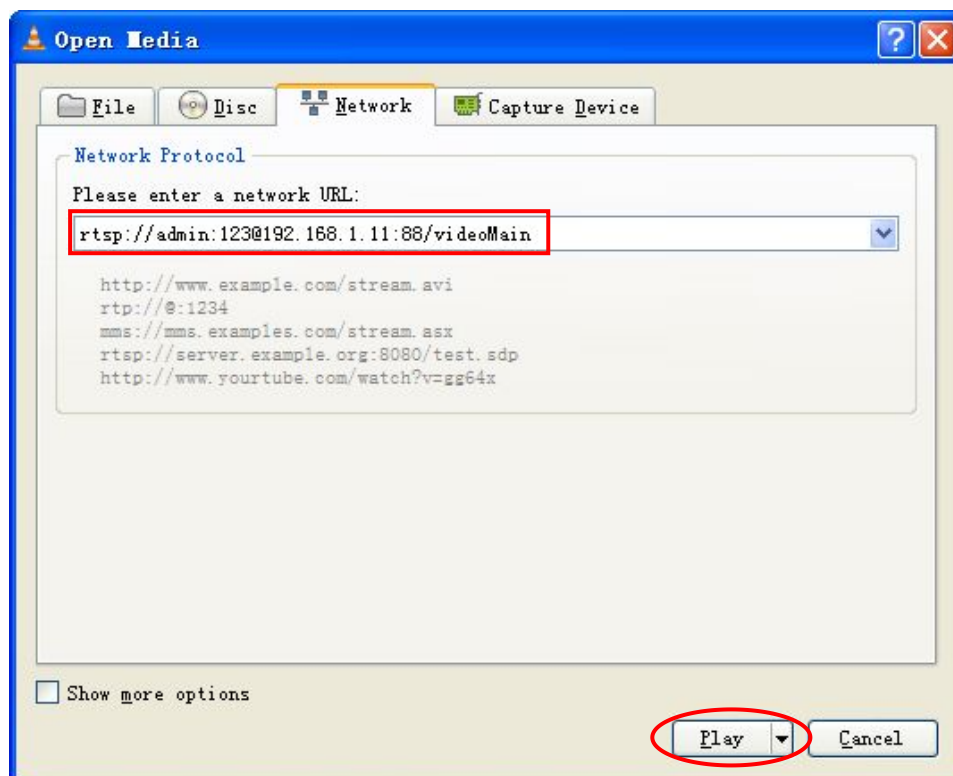


Figure 4.37

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



Figure 4.38

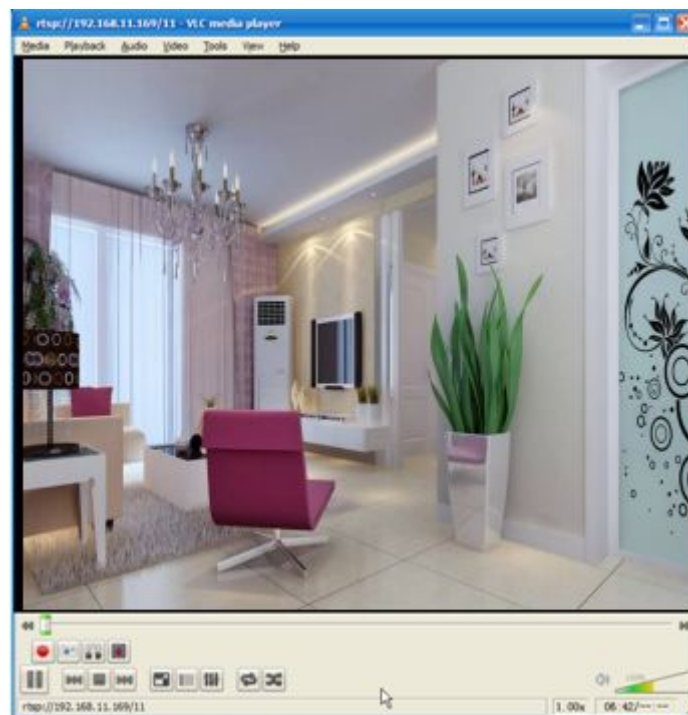


Figure 4.39

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.

### 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 boxes and arrows highlight specific areas: a box around SMTP Server, Port, and Security is labeled '1'; a box around Username and Password is labeled '2'; a box around Sender E-mail is labeled '3'; a box around the four Receiver fields is labeled '4'; an arrow points to the Save button labeled '5'; and an arrow points to the Test button labeled '6'. A note under Transport Layer Security states: 'G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25.'

Figure 4.40

**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 4.41

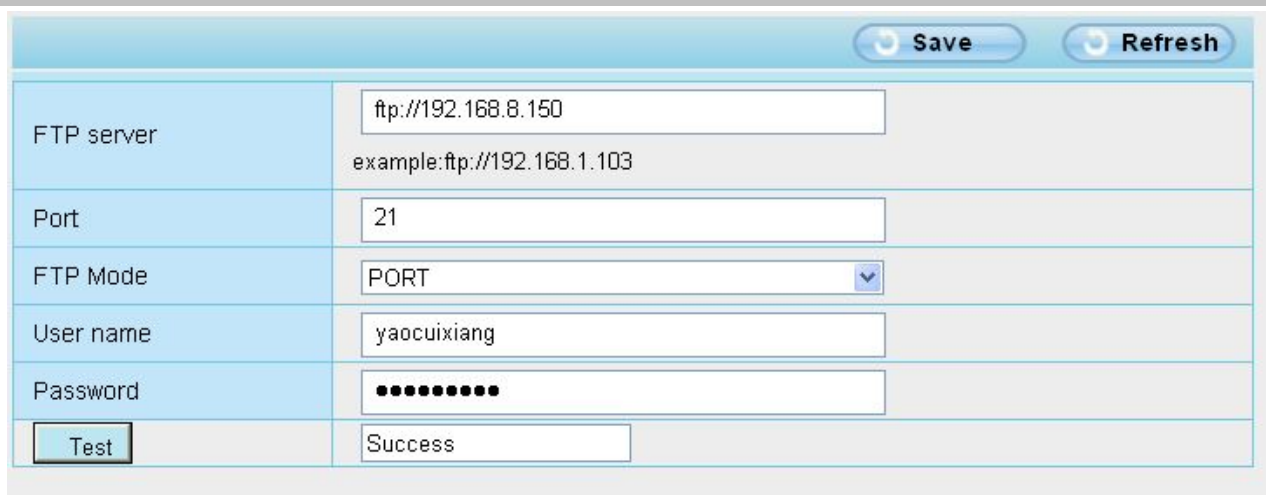
If the test success, you can see the Success behind the Test, at the same time the receivers will receive a test mail.

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

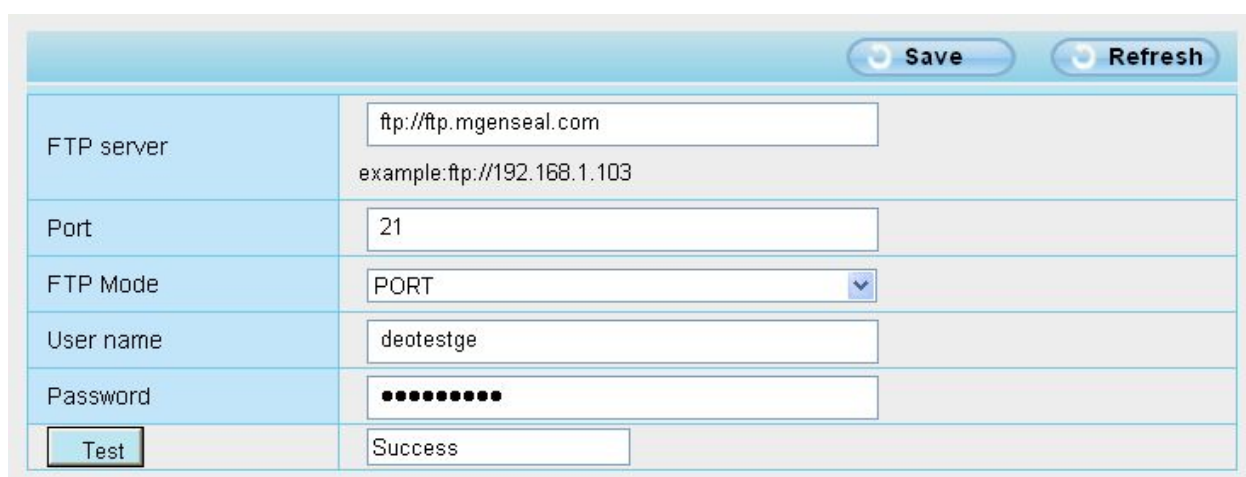
If you want to upload record images to your FTP server, you can set **FTP Settings**.



The screenshot shows a web-based configuration interface for an FTP server. At the top right, there are two buttons: 'Save' and 'Refresh'. The interface consists of several rows, each with a label on the left and a corresponding input field on the right. The labels are 'FTP server', 'Port', 'FTP Mode', 'User name', and 'Password'. The input fields contain the following values: 'ftp://192.168.8.150' (with an example 'ftp://192.168.1.103' shown below), '21', 'PORT' (selected from a dropdown menu), 'yaocuixiang', and a masked password '.....'. At the bottom, there is a 'Test' button and a 'Success' message in a text box.

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

Figure 4.42



This screenshot shows the same FTP configuration interface as Figure 4.42, but with different values entered. The 'FTP server' field contains 'ftp://ftp.mgenseal.com' (with the same example 'ftp://192.168.1.103' shown below). The 'User name' field contains 'deotestge'. The 'Test' button is highlighted, and the 'Success' message is displayed in the text box.

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

Figure 4.43

**FTP server:** If your FTP server is located on the LAN, you can set as Figure 4.48.

If you have an FTP server which you can access on the internet, you can set as Figure 4.49.

**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 IP Camera by Smart Phone (Android or iOS operating system)

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



P2P	
UID	F3GTBJ6PTNUL8MPMYRE1
Enable P2P	<input checked="" type="checkbox"/>
P2P Port	59656

Figure 4.3

Search and install **IPCam Viewer** on Google Play for Android devices, search and install **IPCam\_Viewer** on APP Store for 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.

Video 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 4.44

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

**Resolution:** The camera supports two types: 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.

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

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

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

## 4.4.2 On Screen Display

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

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

Figure 4.45

**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.

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

Figure 4.46

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 4.47

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 4.48

#### 4.4.4 Snapshot Settings

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

**Snapshot Settings**

Save Refresh

Image Quality: Medium

Alarm Pictures Save To: FTP

Enable timing to capture ☒

Capture interval: 2 (0-65535s)

Schedule

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

Figure 4.49

**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

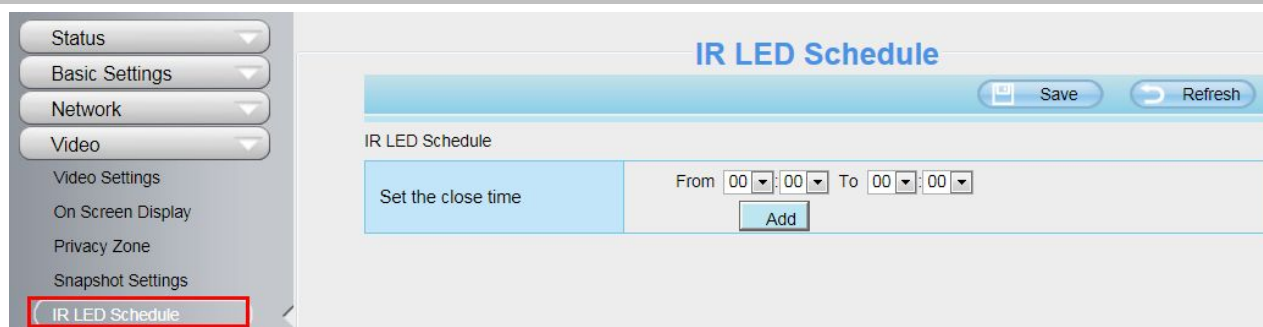
Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, the camera will capture.

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

##### 4 Click **Save** button to take effect.

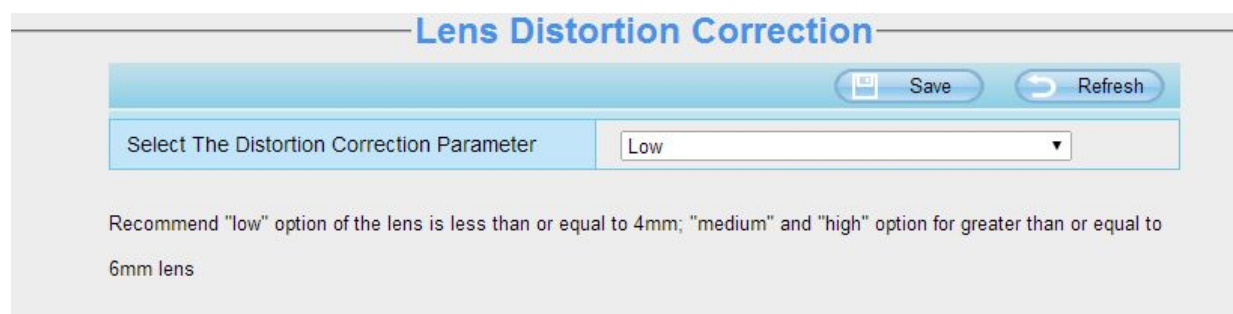
## 4.4.5 IR LED Schedule

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.



## 4.4.6 Lens Distortion Correction

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



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.



### Motion Detection

☒ Enable → 1

Sensitivity	Medium <span style="float: right;">→ 2</span>
Triggered Interval	10s <span style="float: right;">→ 3</span>
Action	PC Sound <input type="checkbox"/>
	Send E-mail <input type="checkbox"/>
	Take Snapshot <input type="checkbox"/> Time Interval 2s <span style="float: right;">→ 4</span>
	<input type="button" value="Set Detection Area"/> <span style="float: right;">→ 5</span>

→ 6

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																								

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

Figure 4.50

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.**

<input type="button" value="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 PC Sound

If the camera has connected with a speaker or other audio output device, if you select Ring, when the motion has been detected, the people around the camera will hear beep alarm sound.

### B Send Mail

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

### C Snap picture

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. If you select Send Email, at the same time the picture will be send to you as an attachment. Make sure you have set FTP and set FTP as the storage path in Video->Snapshot Settings panel.

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

## 5 Set Detection Area

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

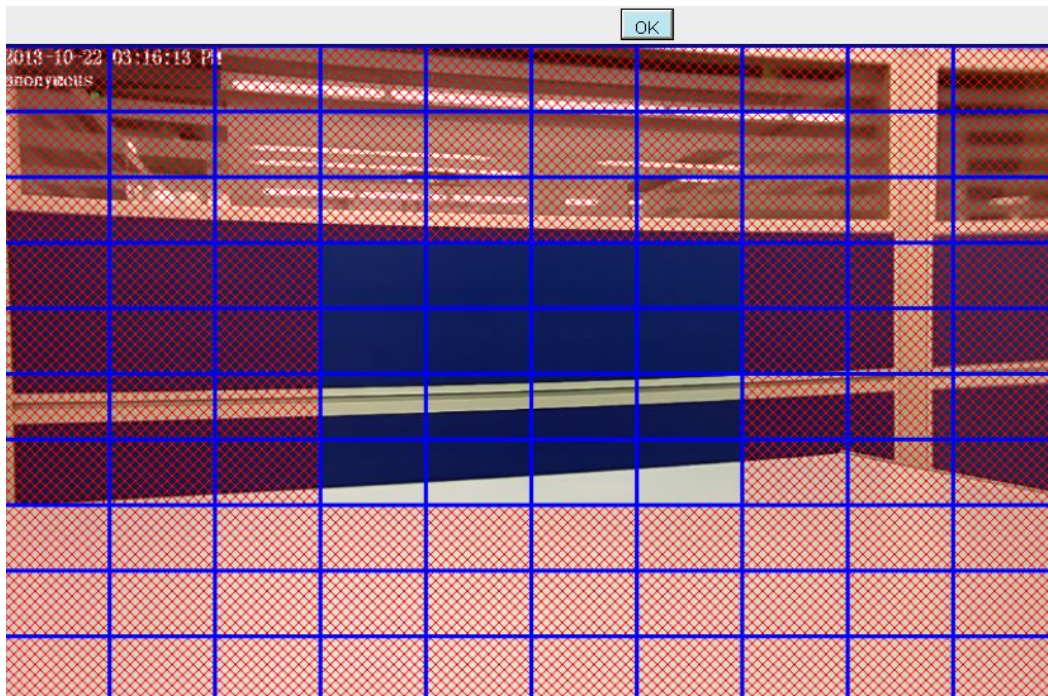


Figure 4.52

## 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.

Click this button and select all time range .

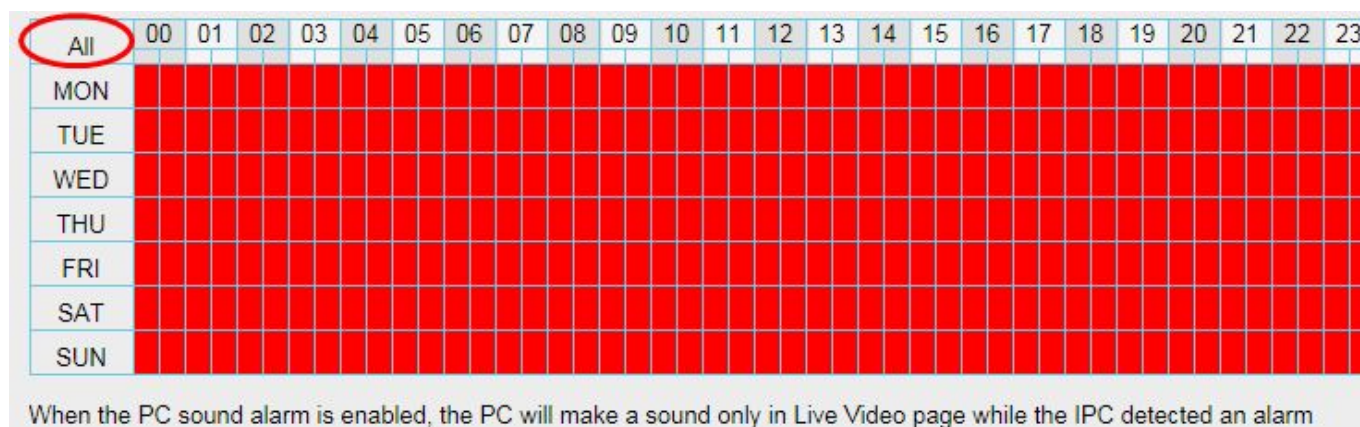


Figure 4.53

② Specify an alarm schedule

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

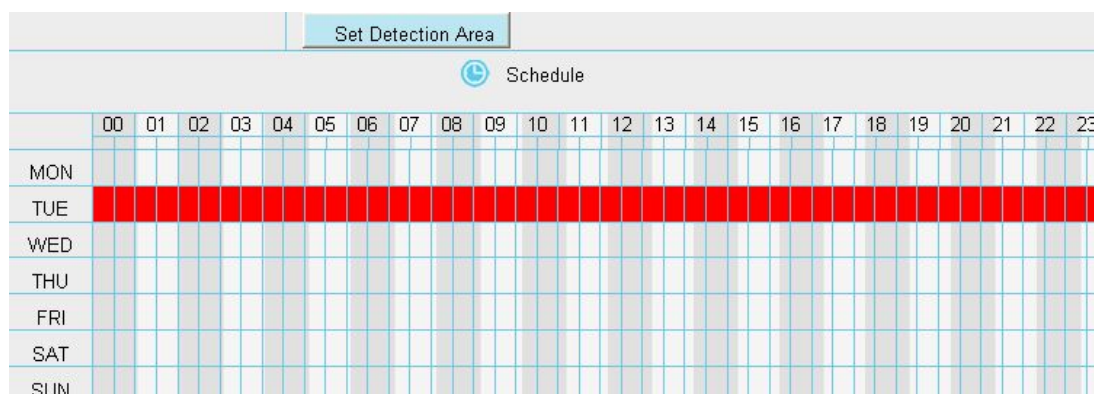


Figure 4.54

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

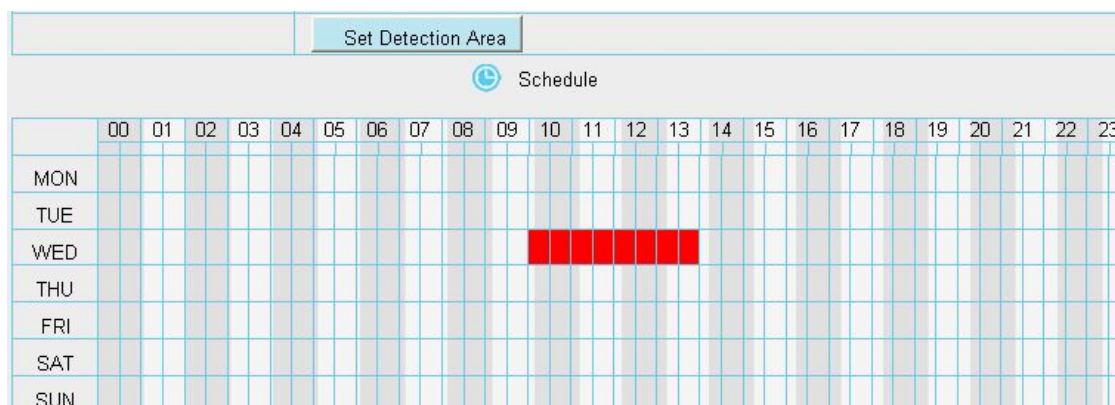


Figure 4.55

**7 Click Save button** to take effect. When the motion is detected during the detection time in the detection area, the camera will alarm and adopt the corresponding alarm indicators.

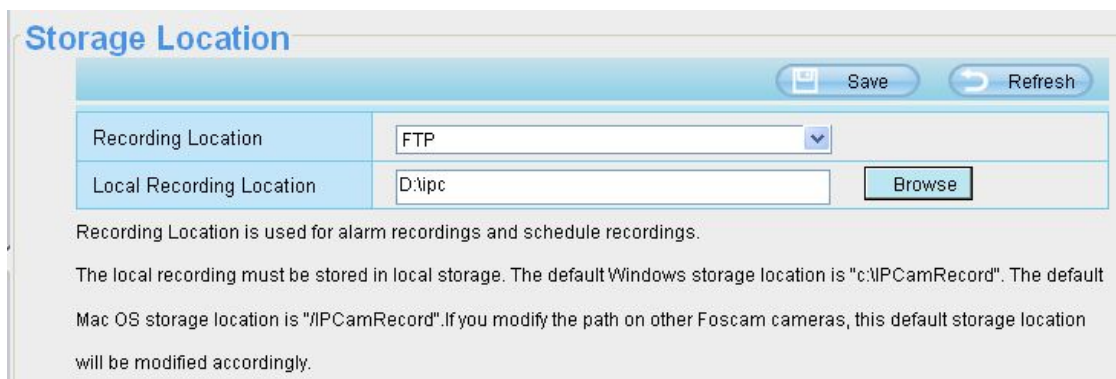
**NOTE:** You must set the detection area and detection schedule, or else there is no alarm anywhere and anytime.



## 4.6 Record

### 4.6.1 Storage Location

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



The screenshot shows a web interface titled "Storage Location". At the top right are "Save" and "Refresh" buttons. Below them are two input fields: "Recording Location" with a dropdown menu showing "FTP", and "Local Recording Location" with a text box showing "D:\ipc" and a "Browse" button. Below the fields is a paragraph of text: "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 4.56

### 4.6.2 Local Alarm Location

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



The screenshot shows a web interface titled "Local Alarm Recording". At the top right are "Save" and "Refresh" buttons. Below them is a checkbox labeled "Enable Local Alarm Recording" which is checked. Below the checkbox is a dropdown menu labeled "Local Alarm Recording Time" with "30s" selected.

Figure 4.57

### 4.6.3 Record Schedule

On this page you can enable schedule record.

### Scheduled Recording To FTP

Enable Scheduled Recording ☒

Stream Main stream ▼

⌚ Edit Scheduled Recording

	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 FTP server.

Figure 4.58

## 4.7 Firewall

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

### IP Filtering

Enable Firewall ☒

IP Filtering Block access from these IP addresses ▼

Block access from these IP addresses  
Only allow access from these IP addresses

IP Address #1	<input type="text"/>
IP Address #2	<input type="text"/>
IP Address #3	<input type="text"/>
IP Address #4	<input type="text"/>
IP Address #5	<input type="text"/>
IP Address #6	<input type="text"/>
IP Address #7	<input type="text"/>
IP Address #8	<input type="text"/>

Figure 4.59

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.

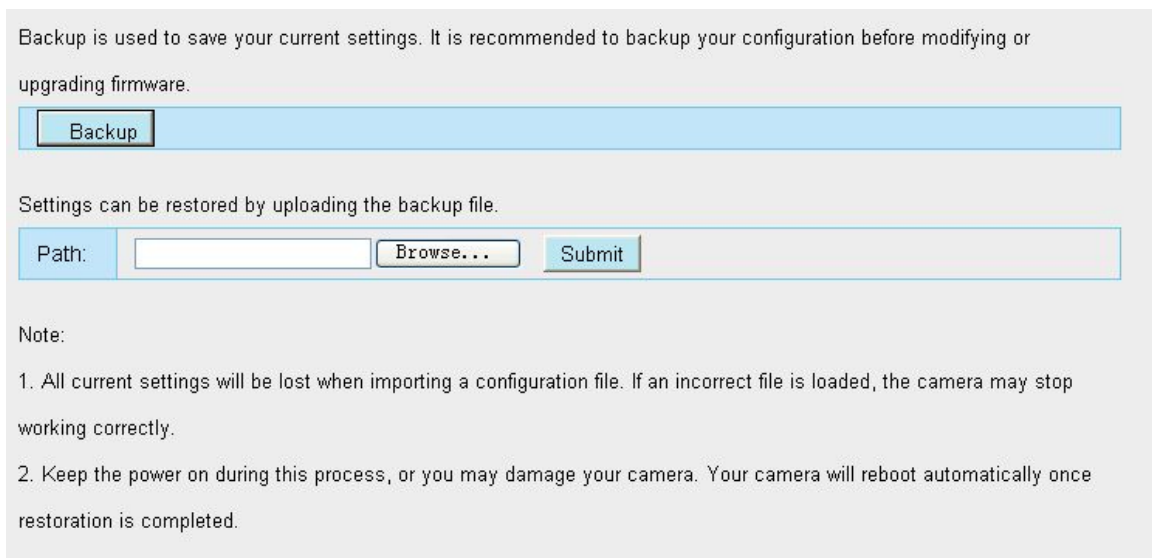
## 4.8 System

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.

### 4.8.1 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:

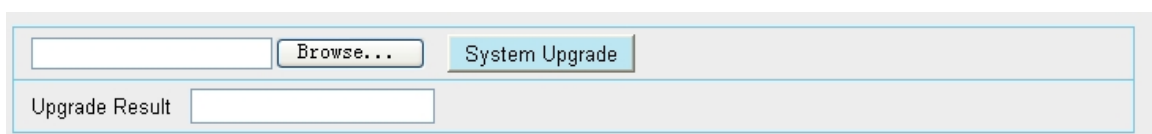
Note:

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 4.60

### 4.8.2 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 4.61

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.

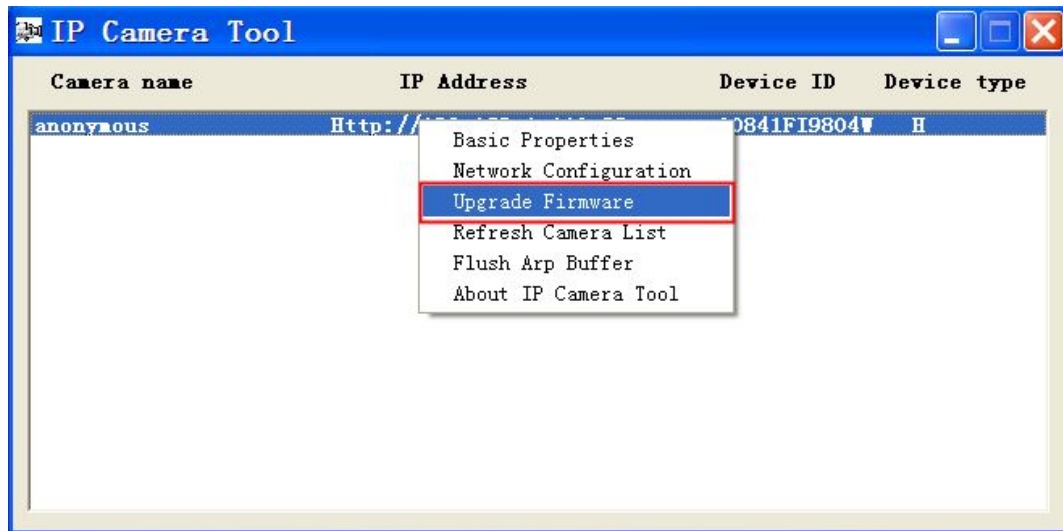


Figure 4.62

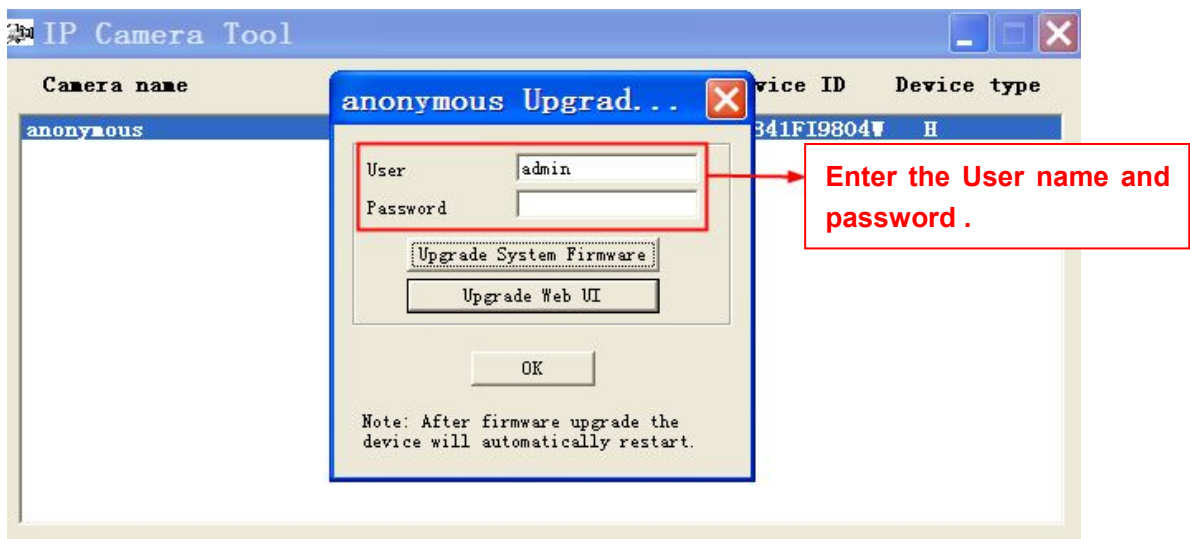


Figure 4.63

**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.

### 4.8.3 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.

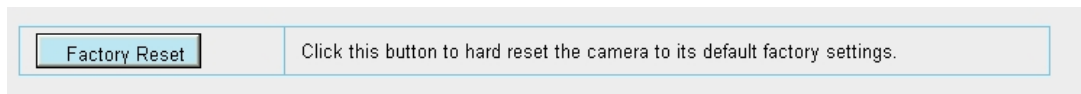


Figure 4.64

### 4.8.4 Reboot

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

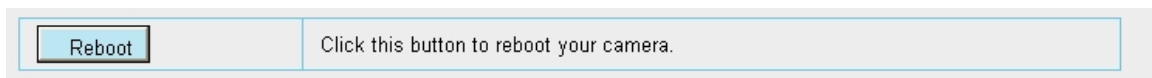


Figure 4.65

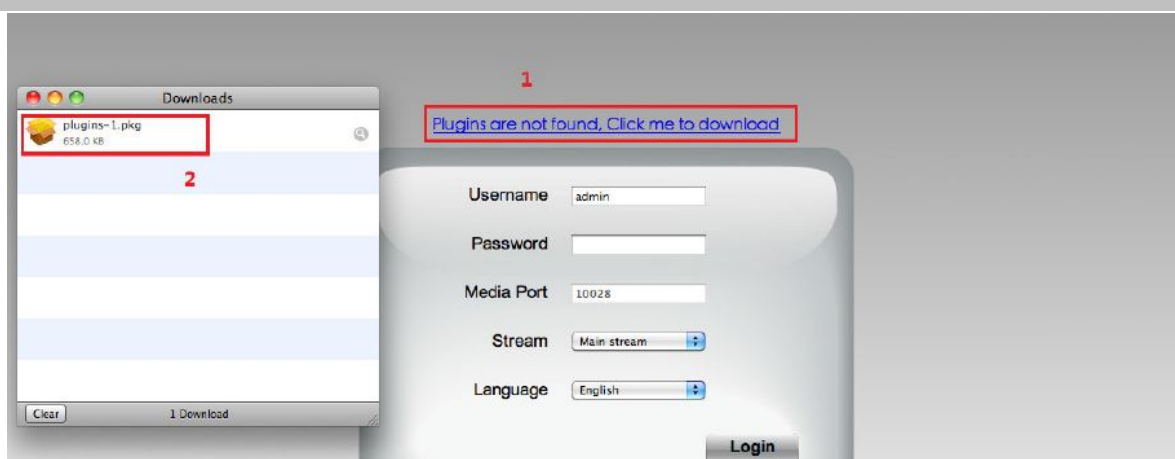
## 5 APPENDIX

### 5.1 Frequently Asked Questions

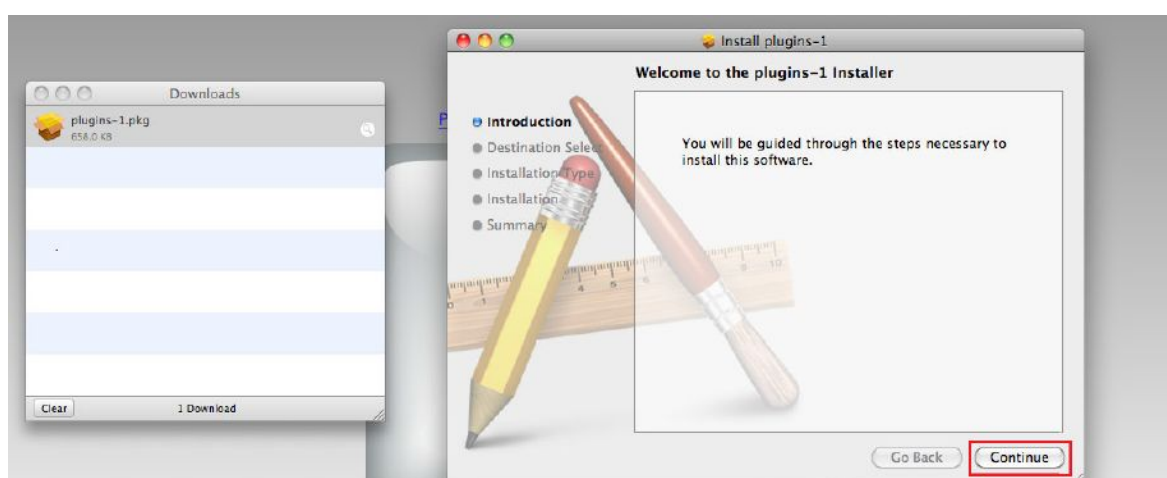
**NOTE:** Any questions you would meet, please check Network connections firstly. Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

#### 5.1.1 How to install the plug-in for Safari

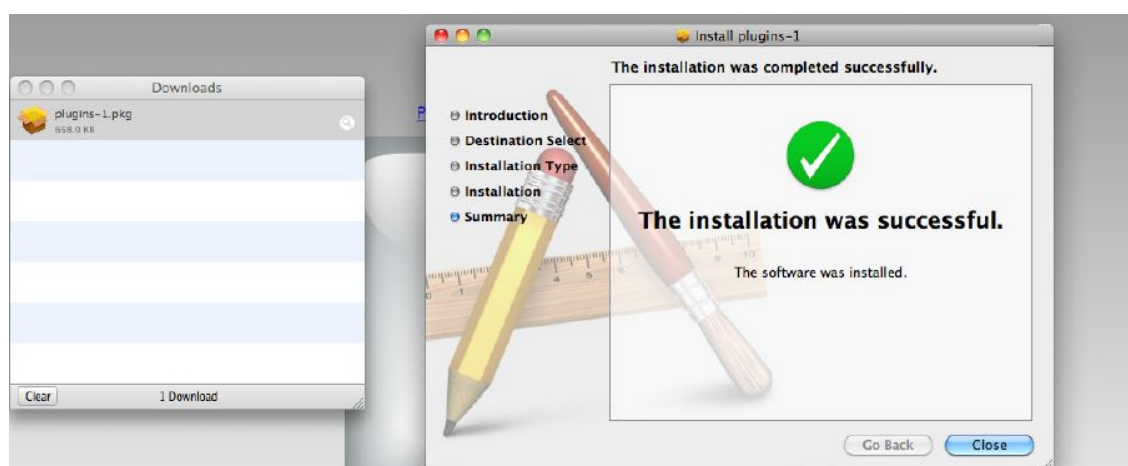
1. Download the plug-in when you login your camera at the first time.



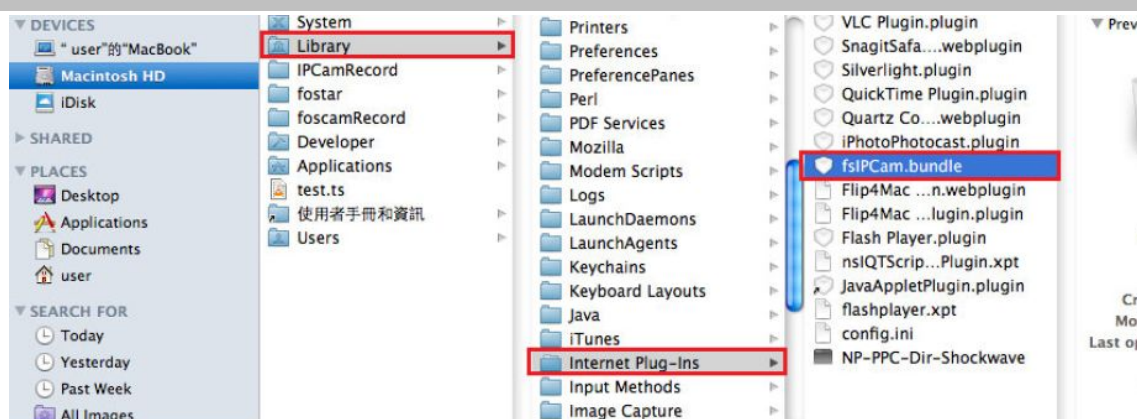
2. Double click the plug-in to install it.



3. Continue to finish the installation, and then it will be successful.



4. Please check if the plug-in was successfully installed or not.



5. Restart Safari to enable the plug-in.

### 5.1.2 How to download and install the ActiveX for Firefox users

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

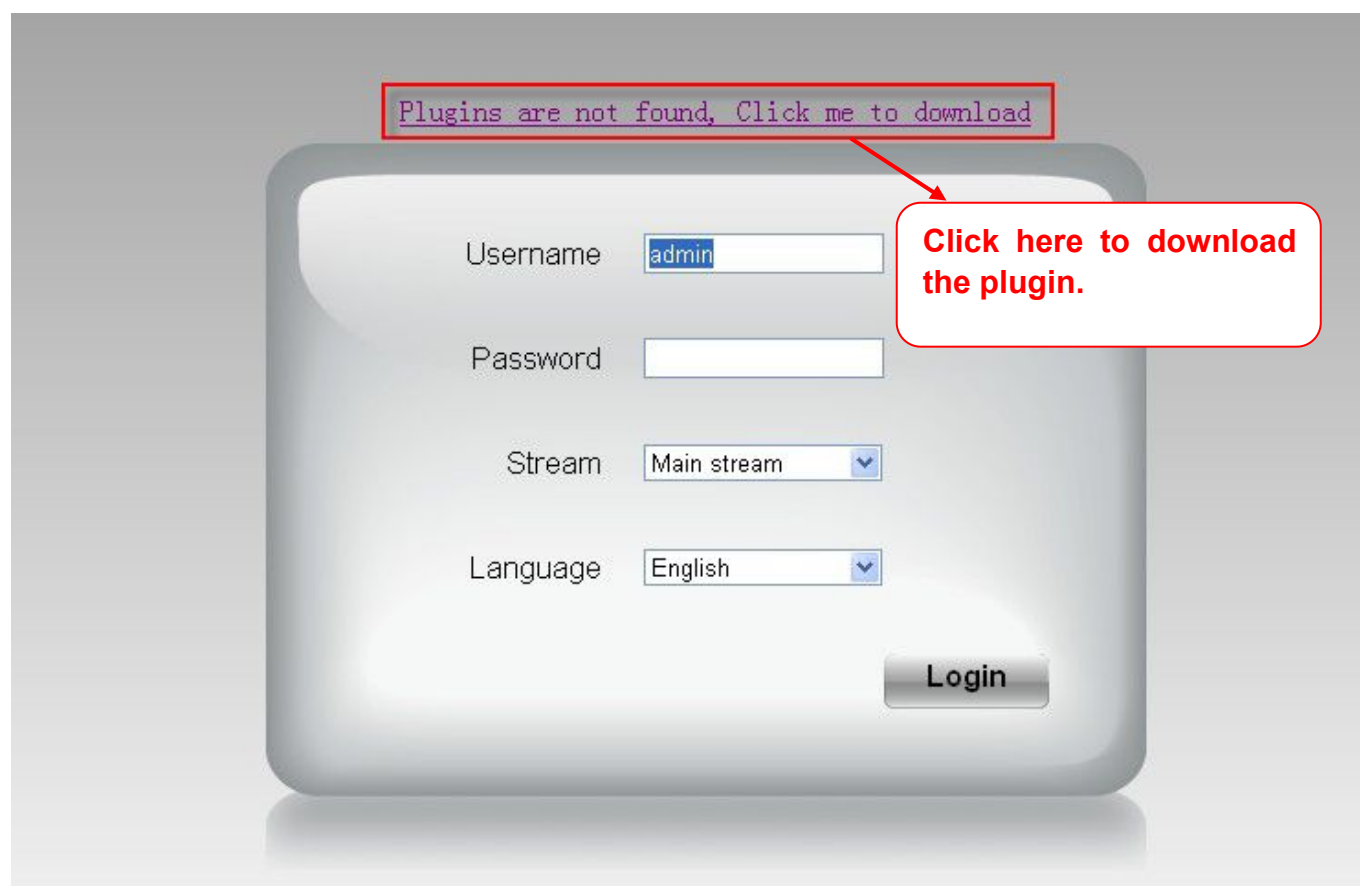


Figure 6.1

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



## Outdoor Waterproof IP Camera

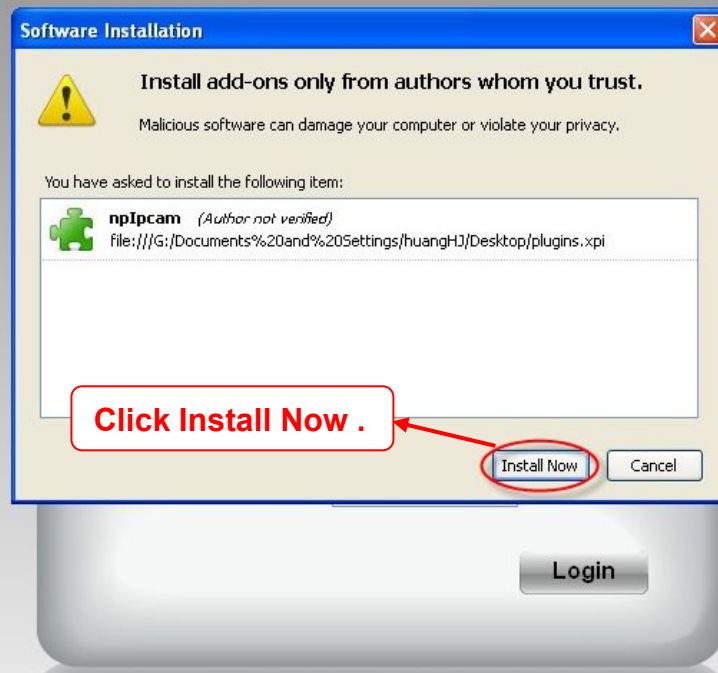



Figure 6.2

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.

### 5.1.3 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 6.3

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

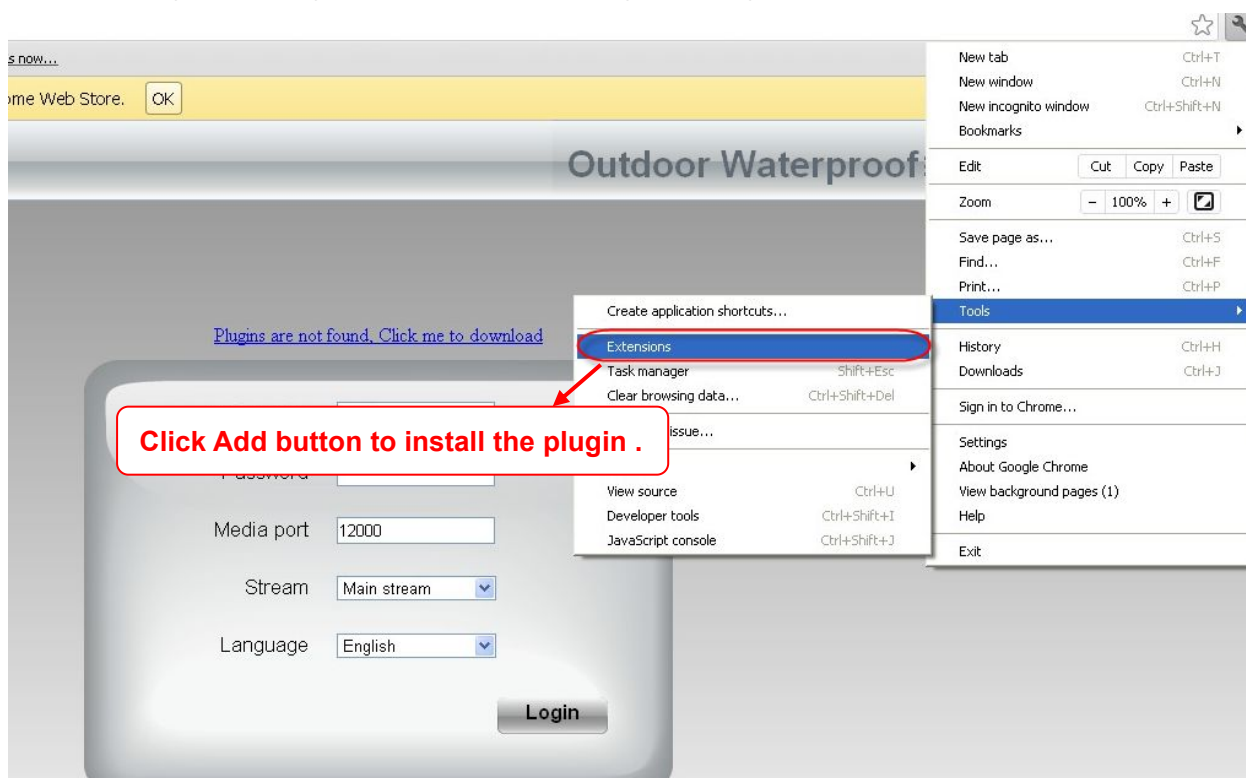


Figure6.4

Click Add button to install the Plugins.

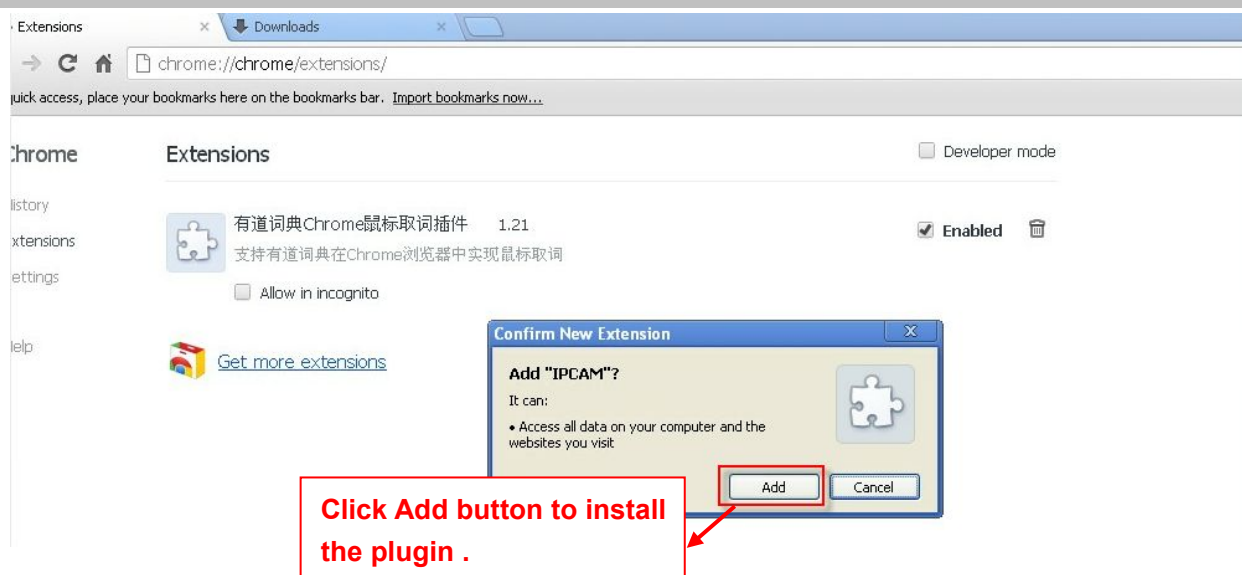


Figure 6.5

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

#### 5.1.4 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**

#### 5.1.5 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.

#### 5.1.6 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"

### 5.1.7 No Pictures Problems

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

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

**Enable: Download unsigned ActiveX controls**

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

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

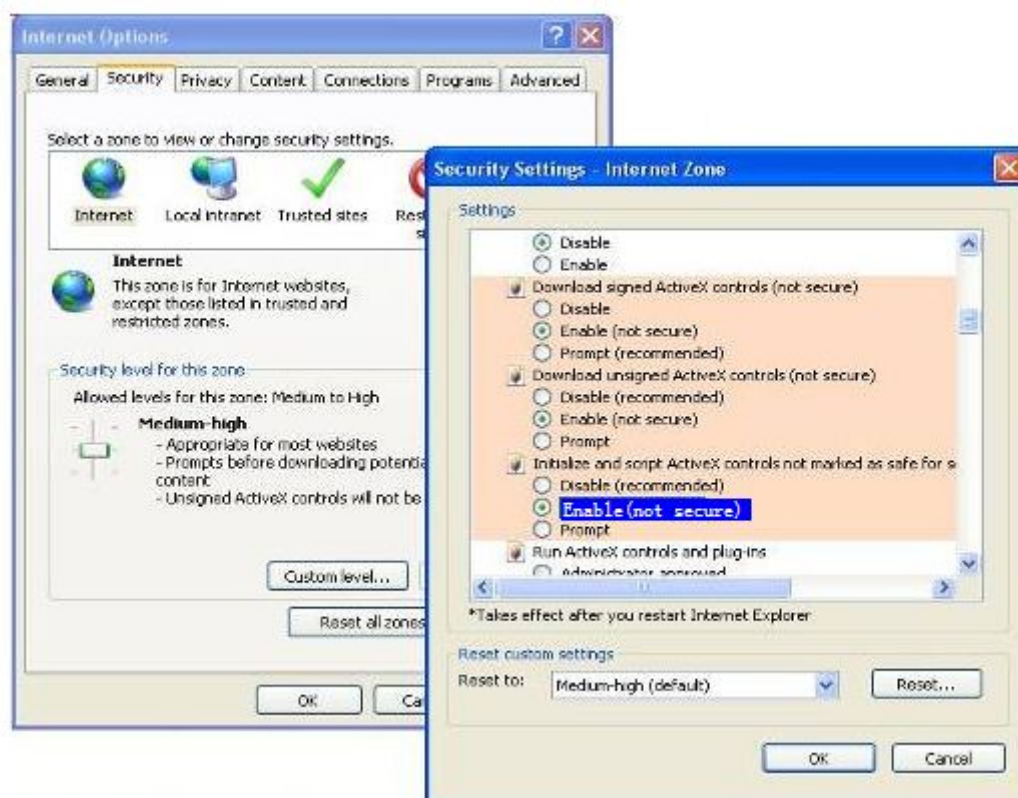


Figure 6.6

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.

Port	
HTTP Port	88
HTTPS Port	443
ONVIF Port	888

Figure 6.7

**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.

### 5.1.8 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.

### 5.1.9 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.

### 5.1.10 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.

### 5.1.11 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.)



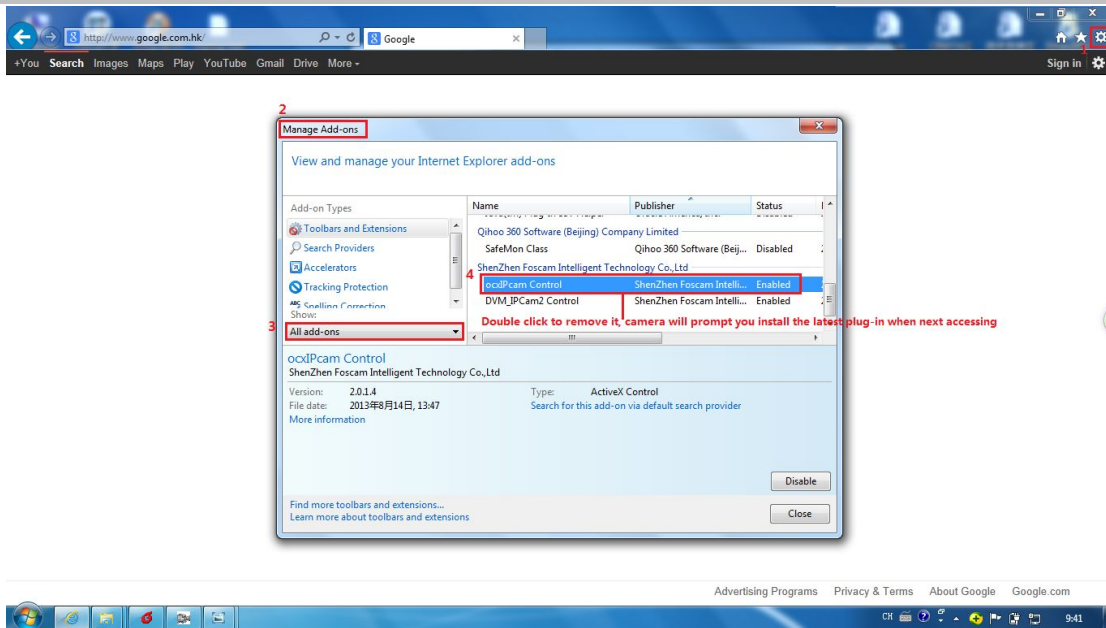


Figure 6.8

## 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.

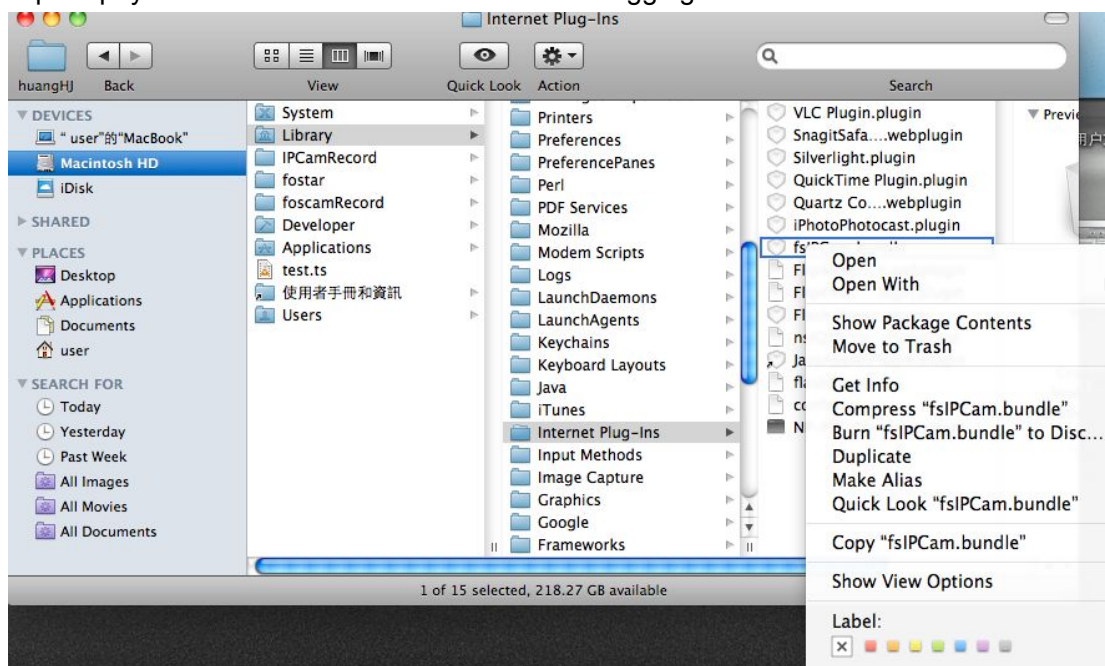


Figure 6.9

## 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.

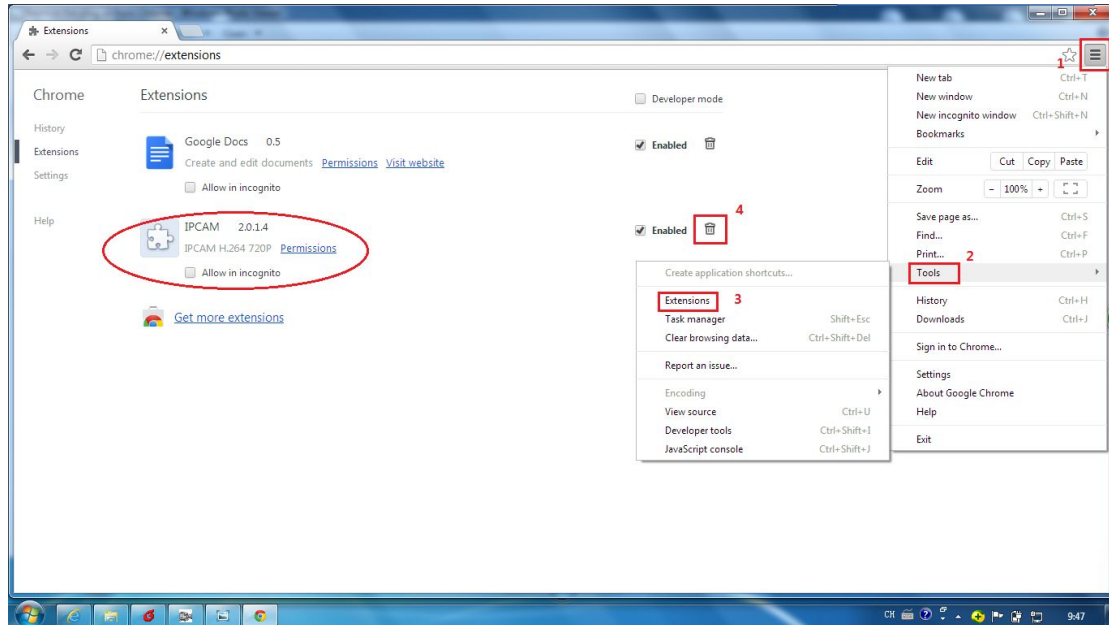


Figure 6.10

## 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 nplpcam 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.

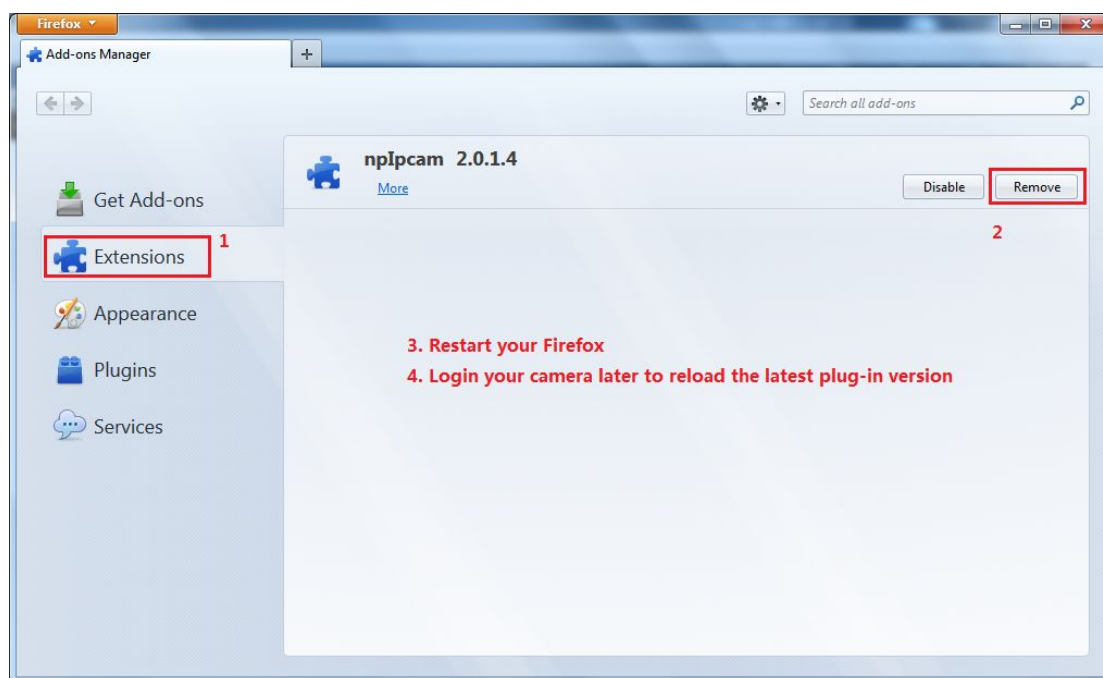


Figure 6.11

## 5.2 Default Parameters

### Default network Parameters

IP address: obtain dynamically

Subnet mask: obtain dynamically

Gateway: obtain dynamically

DDNS: Embedded IPCAM DDNS Service

### Username and password

Default admin username: admin with a blank password

## 5.3 Specification

ITEMS		FC5511E
Image Sensor	Image Sensor	High Definition Color CMOS Sensor
	Lens	f : 4mm
	Mini. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	Glass Lens
	IR_CUT	Filter can switch automatically
Audio	Input/Output	Linear Input/Output, which can realize two-way voice the intercom
Video	Image Compression	H.264
	Image Frame Rate	25fps(50Hz), 30fps(60Hz),Down adjustable
	Resolution	960p(1280 x 960), 720p(1280 x 720), VGA(640 x 480)
	View	H.264 dual streaming

	Image adjust	The brightness, contrast, saturation, chromaticity, is adjustable
	Infrared mode	Auto & Manually
	Night visibility	Φ8mm 36 IR LEDs, Night visibility up to 30 meters
<b>Network</b>	Ethernet	One 10/100Mbps RJ-45
	Supported Protocol	TCP/IP, UDP/IP, HTTP, SMTP, FTP, DHCP, DDNS,UPNP, ONVIF
	Support IP address	Static IP address, dynamic IP address
<b>Alarm</b>	Alarm detection	The motion detecting, I/O alarm
	Alarm inform	Support Email, FTP, I/O output alarm etc alarm inform way
<b>Hardware Interface</b>	POWER Interface	DC 12V/2.0A (EU, US, AU adapter or other types option), Power Consumption < 8 Watts
	Audio Input/Output Interface	One audio input jack, One audio output jack.
	Reset Buttons	One Reset
	I/O alarm interface	External Input/output terminal block
	Control Interface	One RS-485 port, support of transparent channel transmission
<b>PoE</b>	PoE Standard	IEEE 802.3af
	Input Voltage	DC 36V~DC 57V
	Output Voltage	DC 12V
	Output Power	15.4W (Max.)
	Wiring standards	100M BASE-T
<b>Environment</b>	Operate Temper	0° ~ 55°C (32°F ~ 131°F)
	Operate Humidity	10% ~ 80% non-condensing
	Storage Temper	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
	Dimension	245(L)X196(W)X112(H)mm
	Net Weight	900g
	Gross Weight	1150g
<b>PC Requirements</b>	CPU	2.0GHZ or above (suggested 3.0GHz)
	Memory Size	256MB or above (suggested 1.0GHz)
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP, Vista, 7 Mac OS iOS, Android
	Browser	IE6 and above version or compatible browser, Firefox, Chrome, Safari or other standard browsers
<b>Software</b>	Upgrade	Upgrade from network
<b>Certification</b>	CE, FCC, RoHS	

ITEMS		FC5412P
<b>Image Sensor</b>	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1280 x 720 (1.0M Pixels)
	Min. Illumination	0 Lux (With IR Illuminator)
<b>Lens</b>	Lens Type	Glass Lens
	focal length	f:4mm, 2.8mm/6mm Option
	Aperture	F1.2
	Angle of View	70°
<b>Video</b>	Image Compression	H.264
	Image Frame Rate	30fps(60Hz), 25fps(50Hz), downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240), QVGA(320 x 180)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Night visibility	With 2 Infrared Lamp Array, Night Vision Range up to 30m
<b>Network</b>	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.); IEEE802.11g: 54Mbps(Max.); IEEE802.11n: 150Mbps(Max.).
	Wireless Security	WEP, WPA, WPA2
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、UPnP、RTSP、ONVIF
<b>System Requirements</b>	Operating System	Microsoft Windows 2000/XP, Vista, 7,8; Mac OS
	Browser	Microsoft IE7 and above version or compatible browser; Mozilla Firefox; Google Chrome; Apple Safari.
<b>Other Features</b>	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Block	Set privacy area manually
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Reset	Reset button is available
<b>Power</b>	Power Supply	DC 12V/1.0A
	Power Consumption	4.2 Watts (Max.)
<b>Physical</b>	Dimension(LxWxH)	208(L)x 107(W)x 92(H)
	Net Weight	780g
<b>Environment</b>	Operating Temperature	-20° ~ 55°C (-4°F ~ 131°F)
	Operating Humidity	10% ~ 80% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)



	Storage Humidity	0% ~ 90% non-condensing
<b>Certification</b>	CE, FCC, RoHS	

ITEMS		FC5413P
<b>Image Sensor</b>	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1280 x 720 (1.0M Pixels)
	Min. Illumination	0 Lux (With IR Illuminator)
<b>Lens</b>	Lens Type	Glass Lens
	focal length	f:4mm, 2.8mm/6mm Option
	Aperture	F1.2
	Angle of View	70°
<b>Video</b>	Image Compression	H.264
	Image Frame Rate	30fps(60Hz), 25fps(50Hz), downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240), QVGA(320 x 180)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Night visibility	With 2 Infrared Lamp Array, Night Vision Range up to 30m
<b>Network</b>	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.); IEEE802.11g: 54Mbps(Max.); IEEE802.11n: 150Mbps(Max.).
	Wireless Security	WEP, WPA, WPA2
	Network Protocol	IP, TCP, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, DDNS, UPnP, RTSP, ONVIF
<b>System Requirements</b>	Operating System	Microsoft Windows 2000/XP, Vista, 7,8; Mac OS
	Browser	Microsoft IE7 and above version or compatible browser; Mozilla Firefox; Google Chrome; Apple Safari.
<b>Other Features</b>	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Block	Set privacy area manually
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Reset	Reset button is available
<b>Power</b>	Power Supply	DC 12V/1.0A
	Power Consumption	4.2 Watts (Max.)
<b>Physical</b>	Dimension(LxWxH)	199(L)x 118(W)x 96(H)

	Net Weight	550g
<b>Environment</b>	Operating Temperature	-20° ~ 55° C (-4° F ~ 131° F)
	Operating Humidity	10% ~ 80% non-condensing
	Storage Temperature	-20° C ~ 60° (-4° F ~ 140° F)
	Storage Humidity	0% ~ 90% non-condensing
<b>Certification</b>	CE, FCC, RoHS	

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

## 5.4 CE & FCC

### Electromagnetic Compatibility (EMC)

#### FCC Statement

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

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the installation manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

#### FCC Caution

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

#### CE Mark Warning



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