User Manual

Indoor HD IP Camera

Model: C1

Model: R2

Model: C2

V1.3

Table of Contents

1 Overview 1
- 1.1 Key Features 1
- 1.2 Read Before Use 2
- 1.3 Package Contents 2
- 1.4 Physical Description 2
- 1.5 Micro-SD Card 5

2 Access the IP Camera 6
- 2.1 Wired Connection 6
- 2.2 Wireless Connection 8
- 2.3 Access the Camera in WAN 13
- 2.4 Using the VLC player 17
- 2.5 IP camera connection to the server 19

3 Surveillance Software GUI 19
- 3.1 login Window 20
- 3.2 Setup Wizard 21
- 3.3 Surveillance Window 21

4 Advanced Camera Settings 28
- 4.1 Setup Wizard 28
- 4.2 Status 28
- 4.3 Basic Settings 30
- 4.4 Network 39
- 4.5 Video 50
- 4.6 Alarm 54
- 4.7 Record 58
- 4.8 PTZ(Only R2) 62
- 4.9 Firewall 67
- 4.10 System 67

5 Playback 71

6 Appendix 73
- 6.1 Frequently Asked Questions 73
- 6.2 Default Parameters 80
- 6.3 Specifications 81
- 6.4 CE & FCC 85
- 6.5 Warranty 86

7 Obtaining Technical Support 89

1 Overview

FOSCAM Indoor HD IP Camera is an integrated wireless IP Camera with a color CMOS sensor which enable to view in High Definition resolution. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop and mobile devices no matter where by your local network or over the Internet.

These cameras support P2P function. Thanks to the P2P easy access technology, you don't need to do complicated Port Forwarding and DDNS settings, you just need to scan the QR code on the bottom of the camera to connect it to smart phone, or input the UID on CMS software to realize remote access.

FOSCAM IP Camera provides users with more comprehensive controls over a monitored site. The camera supports H.264 video compression technology, dramatically reduces file size and saves network bandwidth.

The camera is based on the TCP/IP standard. A built-in WEB server inside which could support Internet Explorer simplifies the management and maintenance of your device is simplified by accessing the website of your camera through network.

The camera is designed for indoor surveillance with wide applications such as at home, in retail store and in office. Controlling the camera and managing images are simplified by using the provided web interface across the network in either wired or wireless way.

FOSCAM provides Smart Phone APP for Android and iPhone users, please search and install Foscam App named **Foscam** on App Store and Google Play for iOS and Android devices, then you can view your camera anywhere, anytime on your smart mobile devices.

1.1 Key Features

- Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network
- P2P feature for easy access
- 1.0 Mega-Pixel(C1) / 2.0 Mega-Pixel (R2/C2)
- Supports IE/Firefox/Google/Safari browser or any other standard browsers
- Support WEP,WPA-PSK and WPA2-PSK Encryption
- Wireless connection is compliant with IEEE 802.11b/g/n WI-FI, up to 150Mbps
- IR night vision Range: 8m(C1/R2), C2(5m)
- Support image snapshot
- Support dual-stream
- Support SD Card storage up to 32GB(C1) or 64GB(R2/C2)
- When the camera has been connected the computer via the USB power cable with supplied, you can view and operate the files in SD Card by the computer. (Only C2)
- Support IR-Cut auto switch

- Embedded free FOSCAM DDNS(dynamic domain name service) Service
- Supporting the Third Party Domain Name Service
- Support two-way audio
- Support ONVIF protocols
- Multi-level users management with password protection
- Motion detection alert via email or upload image to FTP
- Provide free Android and iPhone APP for viewing live video provide free Central Management Software to manage and monitor multiple cameras
- Support record schedule
- Supports Passive Infrared Sensor(only C1/C2)
- Supports High Dynamic Range(only R2)
- Supports 8X Magic zoom(only R2)
- Supports voice prompt(only R2/C2)

1.2 Read Before Use

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

1.3 Package Contents

C1/C2

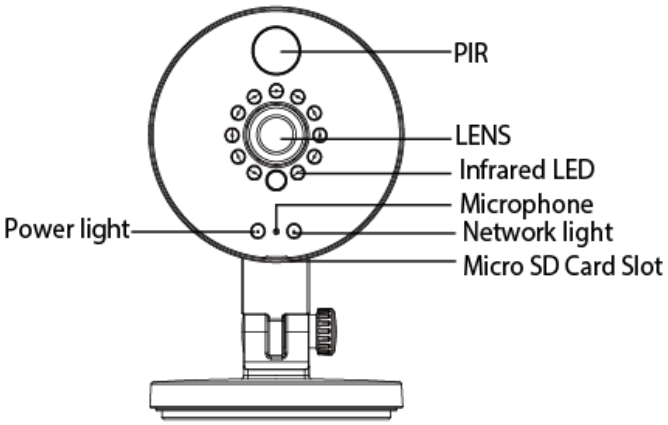
● IP Camera × 1	● AC Adapter × 1
● Quick Installation Guide × 1	● Power Line × 1
● CD×1	● Warranty Card × 1

R2

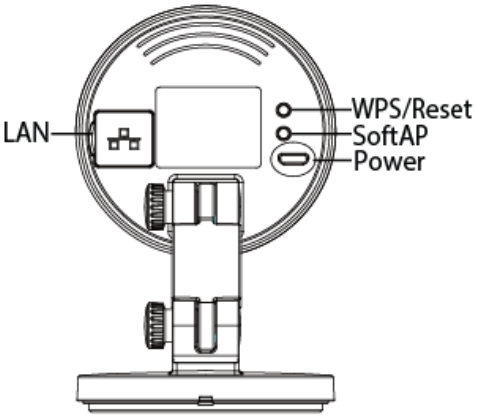
● IP Camera × 1	● Power Supply × 1
● Quick Installation Guide × 1	● Warranty Card × 1
● CD×1	● Wi-Fi Antenna×1
● Mounting bracket×1	

1.4 Physical Description

C1



Front panel



Rear panel

Front panel:

- PIR:The PIR (Passive Infrared) is electronic devices which are used in some security alarm systems to detect motion of an infrared emitting source, usually a human body.
- LENS: Fixed focus lens.
- Infrared LED: Infrared LEDs for night vision.
- Microphone: Built-in microphone.
- Micro SD Card slot: Supports up to 32GB SD card for storing the video.

Rear panel:

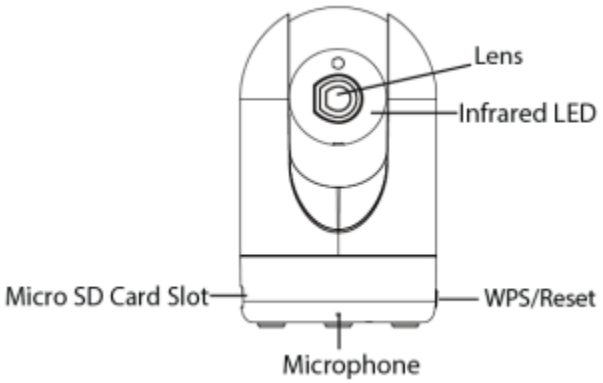
- Power Light: If the power supply works fine, the light will be on.
- LAN: 10/100 Mbps RJ-45 port for wired connection
- SoftAP: Press the SoftAP button for more than 2 seconds. The Network light indicator begins to twinkle every 0.1 seconds.
- WPS/Reset
  - WPS: Push both WPS/Reset button on the camera and wireless router within 1 minute, the camera will connect to the wireless router automatically, in WPS process, the Network light will blink every 0.4 seconds;
  - Reset: Push and hold the WPS/Reset button for more than 10 seconds to set the camera to factory default, the Power light will blink every 0.4 seconds;
- Power: DC 5V/1A Power supply.

The flashing status of the Power light and Network light are shown in the following table.

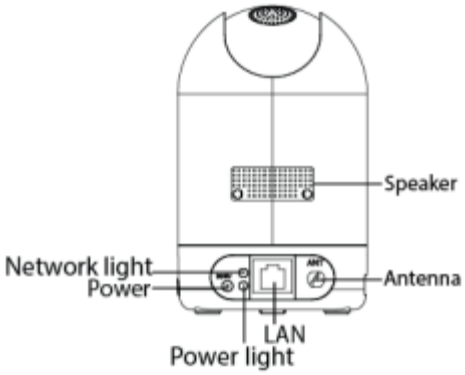
Light	Flashing Status	Description
Power light	off	The power don't work properly.
	on	The power supply works fine.
	Flashing every 0.4 seconds	Reset to take effect
Network light	off	No Wireless connection
	Constant Flash	Wired connection
	Slow Flash every 1.0 second	Wi-Fi connected
	Flashing every 0.4 seconds	WPS is connecting

	Flashing every 0.2 seconds	EZLink takes effect
	Flashing every 0.1 seconds	SoftAP is started

R2



Front panel



Rear panel

Front panel:

- LENS: Fixed focus lens.
- Infrared LED: Infrared LEDs for night vision.
- Microphone: Built-in microphone.
- Micro SD Card slot: Supports up to 64GB SD card for storing the video.
- WPS/Reset
  - WPS: Push both WPS/Reset button on the camera and wireless router within 1 minute, the camera will connect to the wireless router automatically, in WPS process, the Network light will blink every 0.4 seconds;
  - Reset: Push and hold the WPS/Reset button for more than 10 seconds to set the camera to factory default, the Power light will blink every 0.4 seconds;

Rear panel:

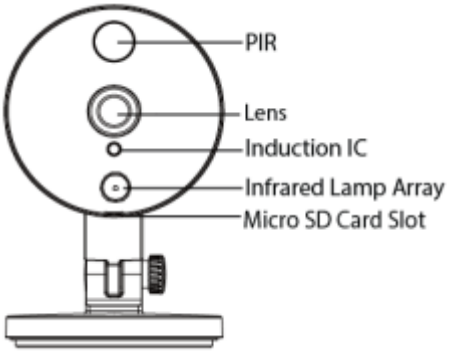
- LAN: 10/100 Mbps RJ-45 port for wired connection
- Power: DC 5V/2A Power supply.
- Speaker: Built-in speaker
- Antenna: Used to connect external wireless antenna

The flashing status of the Power light and Network light are shown in the following table.

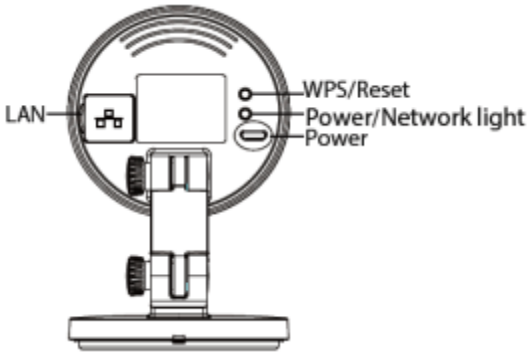
Light	Flashing Status	Description
Power light	off	The power don't work properly.
	on	The power supply works fine.
	Flashing every 0.4 seconds	Reset to take effect
Network light	off	No Wireless connection
	Constant Flash	Wired connection
	Slow Flash every 1.0 second	Wi-Fi connected

	Flashing every 0.4 seconds	WPS is connecting
	Flashing every 0.2 seconds	EZLink takes effect

C2



Front panel



Rear panel

Front panel:

- PIR:The PIR (Passive Infrared) is electronic devices which are used in some security alarm systems to detect motion of an infrared emitting source, usually a human body.
- Lens: Fixed focus lens.
- Induction IC
- Infrared Lamp Array
- Micro SD Card slot: Supports up to 64GB SD card for storing the video.

Rear panel:

- LAN: 10/100 Mbps RJ-45 port for wired connection
- WPS/Reset
  - WPS: Push both WPS/Reset button on the camera and wireless router within 1 minute, the camera will connect to the wireless router automatically, in WPS process, the light will be green and blink every 0.4 seconds;
  - Reset: Push and hold the WPS/Reset button for more than 10 seconds to set the camera to factory default, the light will be red and blink every 0.4 seconds;
- Power: DC 5V/1A Power supply.

The flashing status of the Power light and Network light are shown in the following table.

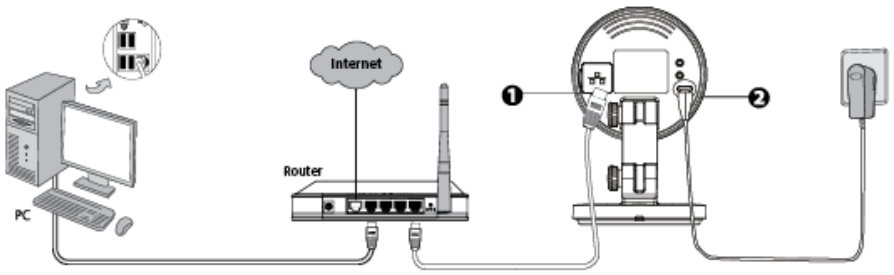
Flashing Status	Description
Flashing(red) every 0.4 seconds	Reset to take effect
Constant Flash(green)	Wired connection
Slow Flash(green) every 1.0 second	Wi-Fi connected
Flashing every(green) 0.4 seconds	WPS is connecting
Flashing every(green) 0.2 seconds	EZLink takes effect

1.5 Micro-SD Card

This camera supports SD Card.
When you plug in the SD card during the camera work process, please reboot the camera again, or else the SD Card may be cannot work well.
Go to the **Settings→Device Status→Device Status** page, you can see the SD card status.

2 Access the IP Camera

2.1 Wired Connection



1. Connect the camera to the LAN network (Router or Switch) via network cable.
2. Connect the power adapter to the camera.
3. Insert the CD into the CD drive of your computer.

Go to the folder “IP Camera Search Tool” and find the folder “For Windows OS” or “For Mac OS” from the CD supp. Copy and paste the IP camera tool file to your computer, or drag it onto your Desktop.

Shortcut icon for Windows OS

Shortcut icon for Mac OS

Notes:

- If your computer (Windows OS) supports autorun function, you can find the corresponding file in the opened control panel.
- If your computer doesn’t have CD drive, you can download the IP camera tool from our website for free.

The camera supports HTTP and HTTPS protocols, you can access the camera in two ways.

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

The default HTTP port NO. is 88. Double click the IP Camera Tool icon to run, and it should find the

camera's IP address automatically after you plug in the network cable.

Double click the IP address of the camera; the camera login page should be open in your default browser.

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

The default HTTPS port NO. is 443. You can use the URL to access the camera: https:// LAN IP + HTTPS port NO.
Go to **Settings - Network - Port** panel, you can see and change the HTTP and HTTPS port NO.

NOTE:
When logging in for the first time, you will need to download and install the add-on.

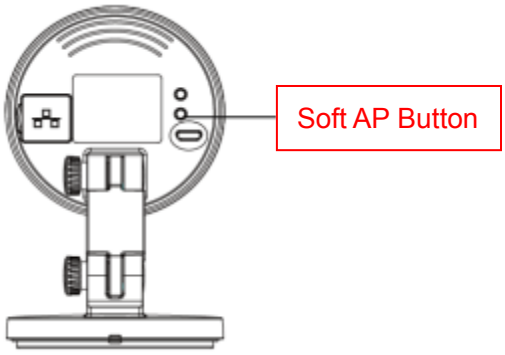
2.2 Wireless Connection

There are some ways of wireless connection: EZLink connection, soft AP connection and WPS connection.

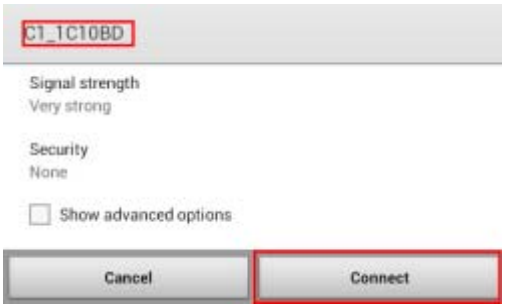
- **EZLink connection:** Use the mobile phones or other mobile devices to download APP, then connect the camera and the wireless router by the APP. The procedure of the EZLink connection, please refer to the Quick Installation Guide.
- **Soft AP connection(only C1):** Use the mobile device which can search for the wireless network, Then use the web browser to visit http://192.168.1.1:88 by the mobile device. Follow the Setup Wizard to finish the settings.
- **WPS connection:** WI-FI Protected Set-up, Press and hold the WPS button on your wireless router and your camera within 60 seconds. So that your camera and wireless router connect successfully.

2.2.1 Soft AP Connection(Only C1)

To ensure that the ethernet cable and the camera is disconnected before you begin.
1. Start camera: power on, the indicator light of camera will light on.
2. Press the Soft AP button for 3-5 seconds. The Network light begins to twinkle at very high frequency(every 0.1 seconds).
3. Use a terminal which could search the WLAN (desktop or laptop. This part takes laptop as an example.) to search for the AP named "C1_******" for connection.(****** indicate the last six letters of camera's MAC ID.)

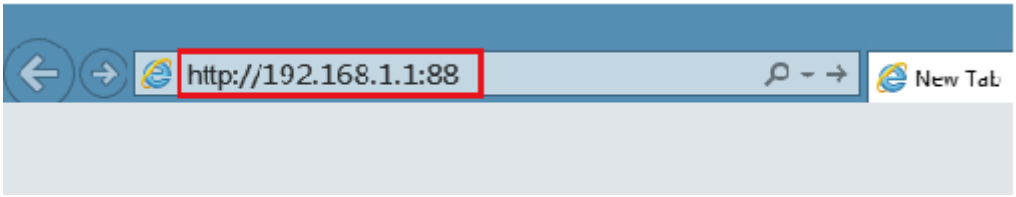


IP Camera

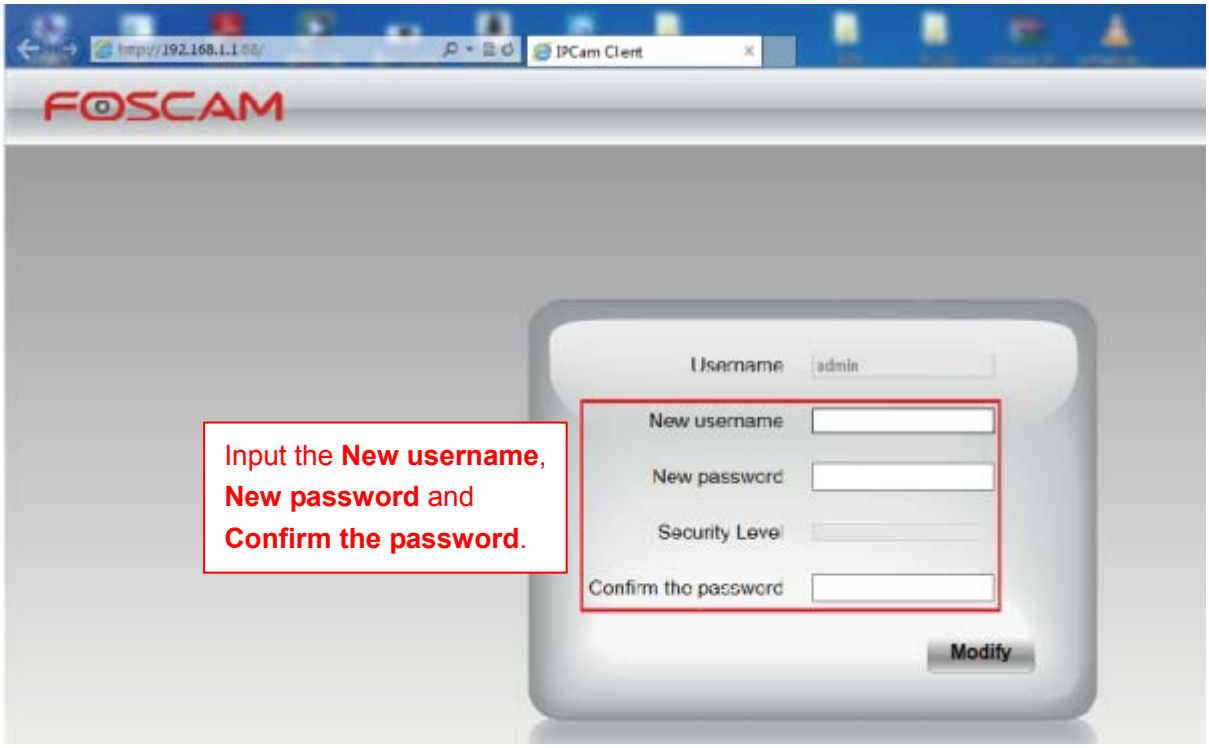


The WLAN page in the terminal device

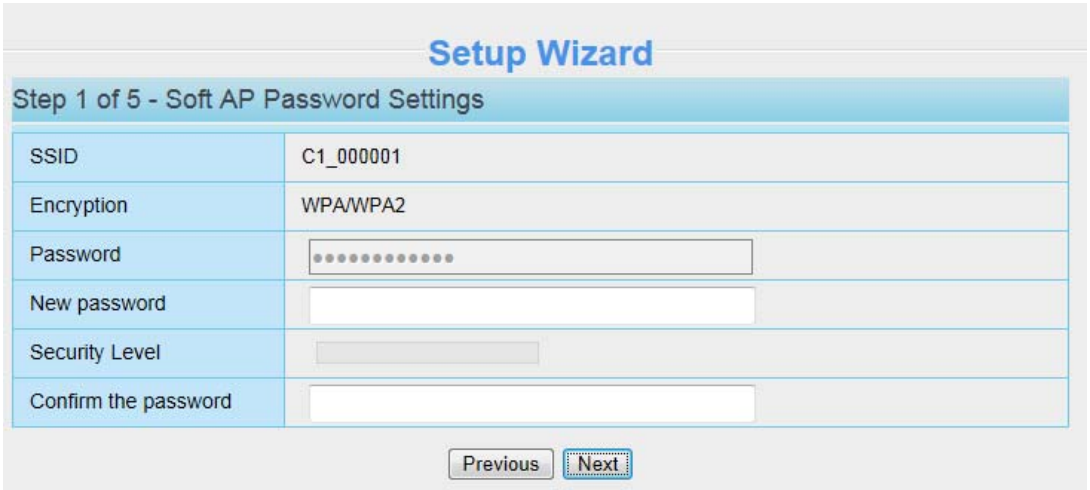
4. After finishing Soft AP connection, use the web browser of the terminal to visit http://192.168.1.1:88.



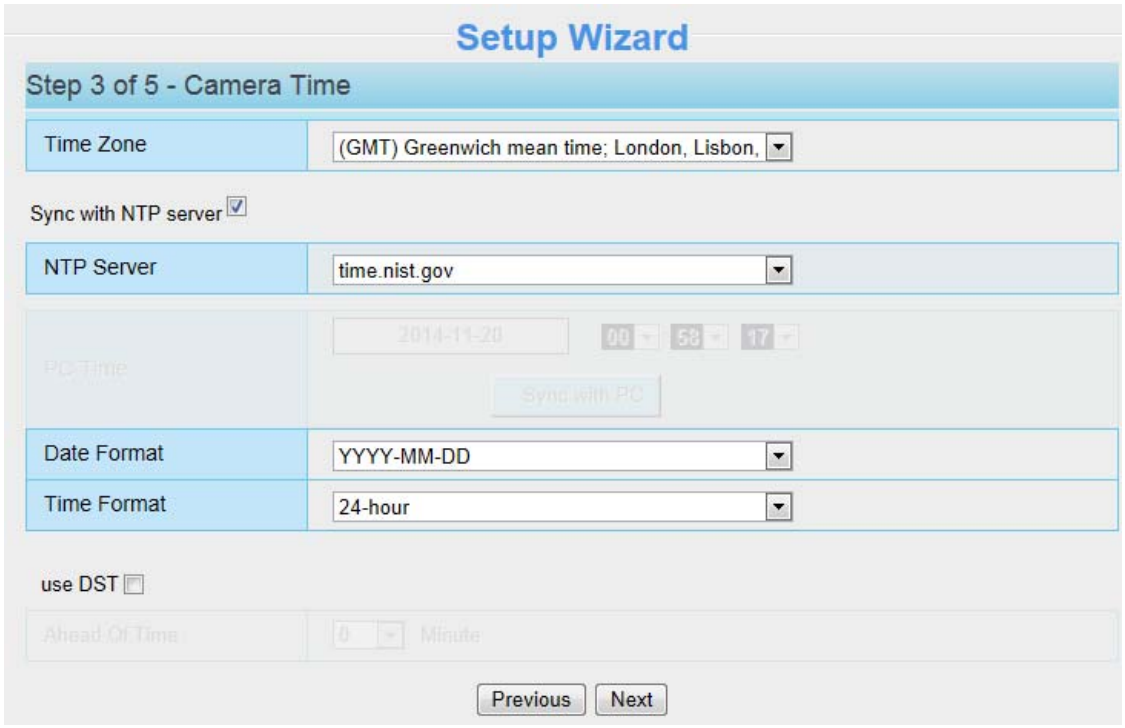
5. Log in the camera (Default username is admin with no password). When log in for the first time, you need to change the username and password.

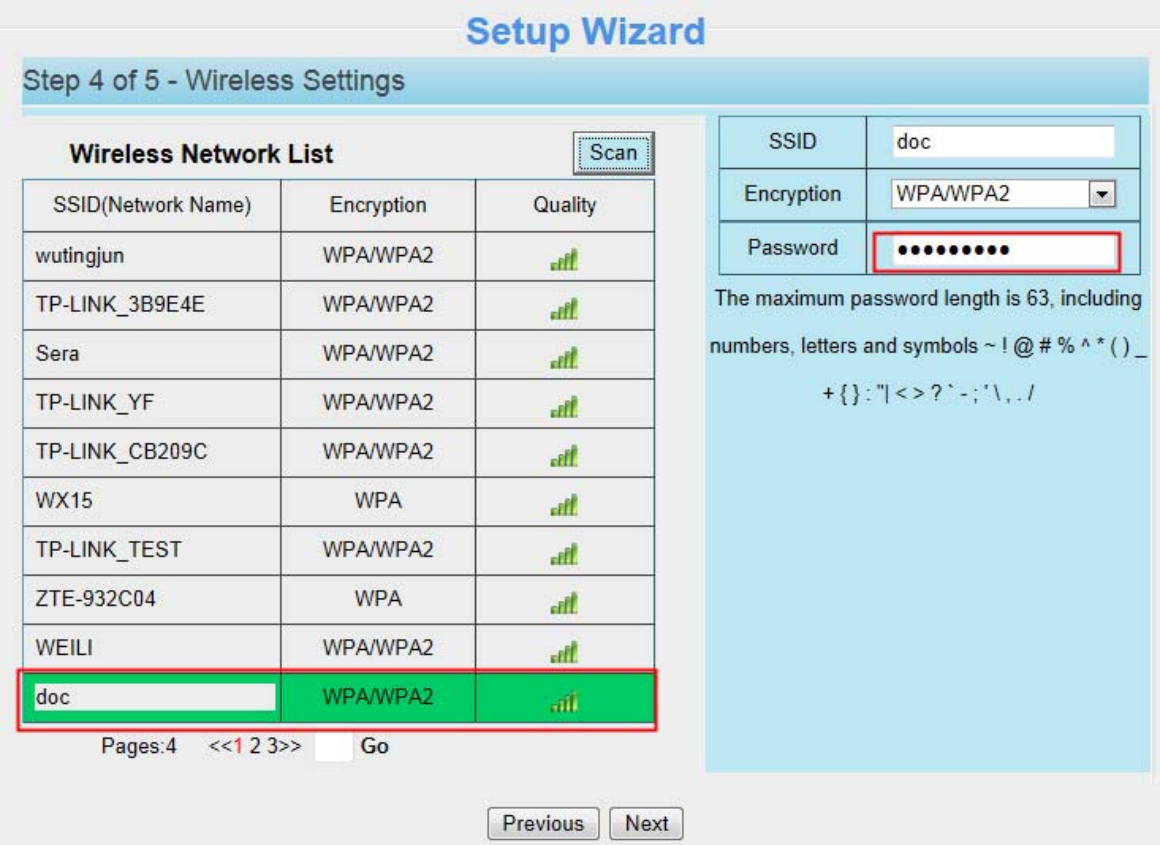


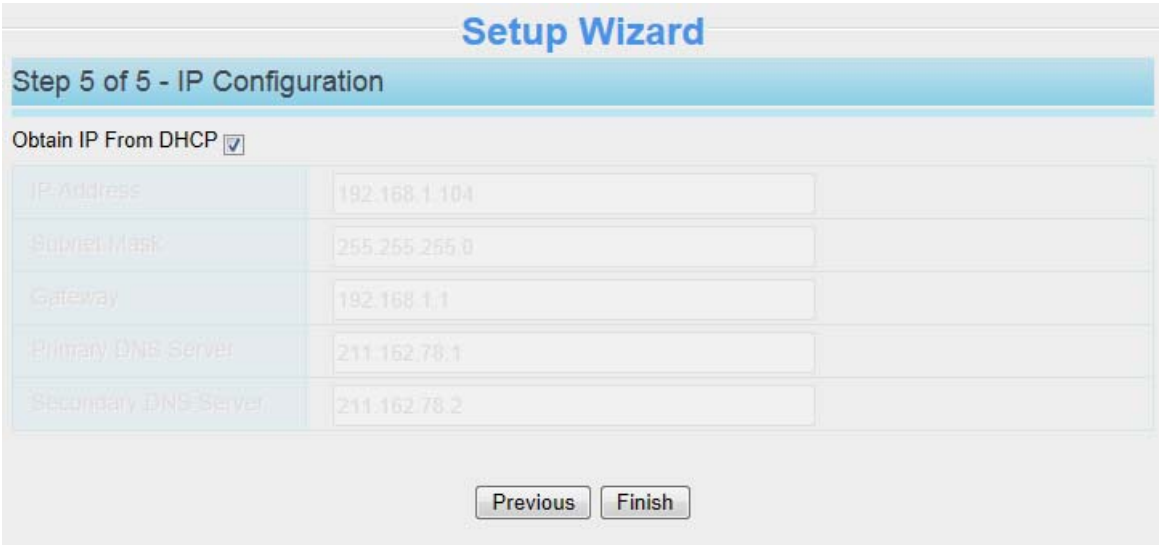
6. After logging in for the first time, it will go to "Setup Wizard" automatically. Please set the basic parameters of the camera, such as camera name, camera time, wireless settings (The camera connect to your wireless router: Wireless Network List - enter the password of your wireless router), IP configuration.



Setup Wizard
Step 2 of 5 - Camera Name
Camera Name
C1
The maximum Device Name length is 20, support English, numbers, letters and symbols
Previous
Next


Setup Wizard
Step 3 of 5 - Camera Time
Time Zone
(GMT) Greenwich mean time; London, Lisbon,
Sync with NTP server
NTP Server
time.nist.gov
PC Time
2014-11-20
00
58
17
Sync with PC
Date Format
YYYY-MM-DD
Time Format
24-hour
use DST
Ahead Of Time
0
Minute
Previous
Next





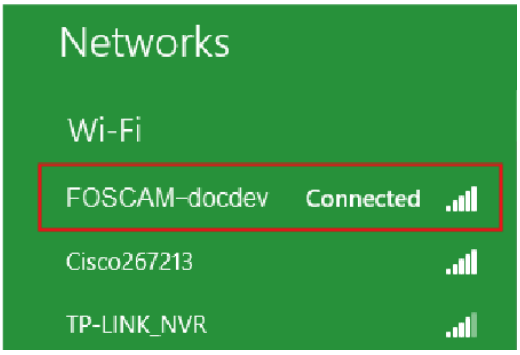
Notes:

- We recommend you to choose to manually set the IP when you know some knowledge of the network.
- It needs about 1 minute to connect the camera to your router.

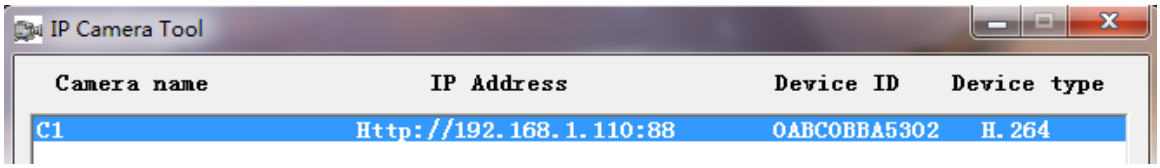
7. After completing the setup wizard, you should press the Soft AP button for 3-5 seconds to cancel the Soft AP connection mode, this is located on the back of your camera. The Network light begins to slowly flash(once per second), it indicates that the wireless connection is successful.

8. Please make sure that the wireless device connect your laptop to the router which your camera has

connected to.



9. Open the CD named “FOSCAM”, go to the folder “IP Camera Search Tool” and find the folder “For Windows OS” or “For Mac OS”. Copy and paste the IP camera tool file to your wireless device, or drag it onto your desktop.



Notes:

- You could also download the IP camera tool from our website ***www.foscam.com*** for free.
- If you have multiple cameras and you cannot determine which camera you are going to log in. Please match the "Device MAC address" on the search tool with the MAC address on the label pasted of each camera.

10. Double-click the camera list here, and your default browser will open up to the login page. Input the username and password you has changed. Then, you will see the live video of your baby on the interface.

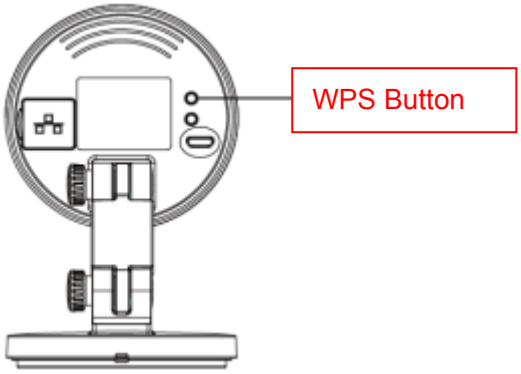
Now, you could use your camera in LAN.

Note:
64-bit browser is not supported.

2.2.2 WPS (WI-FI Protected Set-up)

Before using WPS wireless connection, you need to:

- Make sure that your wireless router has the WPS function, and has been properly connected to the Internet.
- WPS button on the wireless router is typically located on the front panel or rear panel.TP-LINK router's WPS button is called QSS (Quick Security Setup).
- Make sure that the ethernet cable and the camera is disconnected.



(1) Press and hold the WPS button for three seconds. The Network light of the camera begins to twinkle at high frequency. (every 0.4 seconds)
(2) Press and hold the WPS button for three seconds on your wireless router within 60 seconds. Then the camera will automatically create a secure wireless connection to your router in about 60 seconds.
(3) The IP Camera Tool will search the camera's LAN IP. Make sure the PC and the camera share the same subnet.

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

2.3 Access the Camera in WAN

2.3.1 Static IP Addresses

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

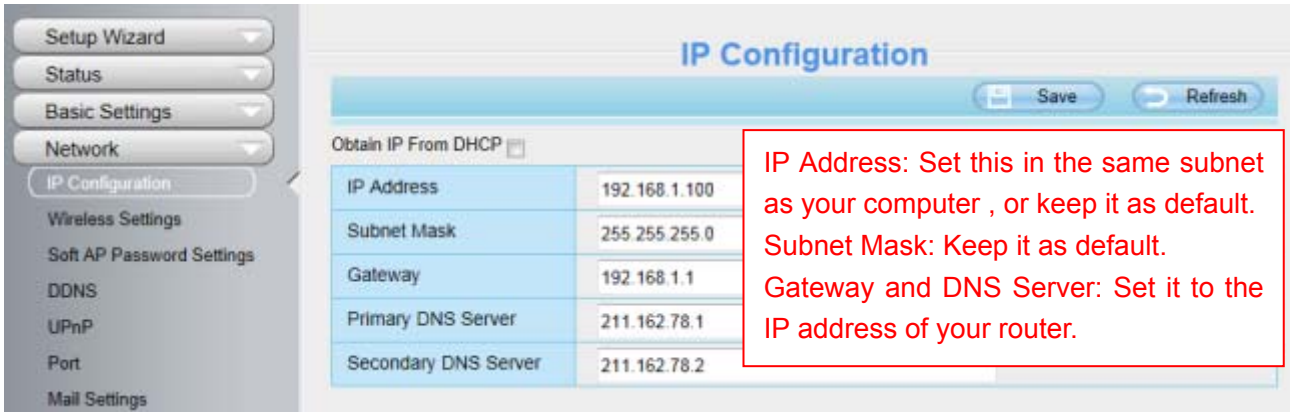
How to Obtain the WAN IP address from a public website ？

To obtain your WAN IP address, enter the following URL in your browser: http://www.whatismyip.com. Your current WAN IP will be shown on the webpage.

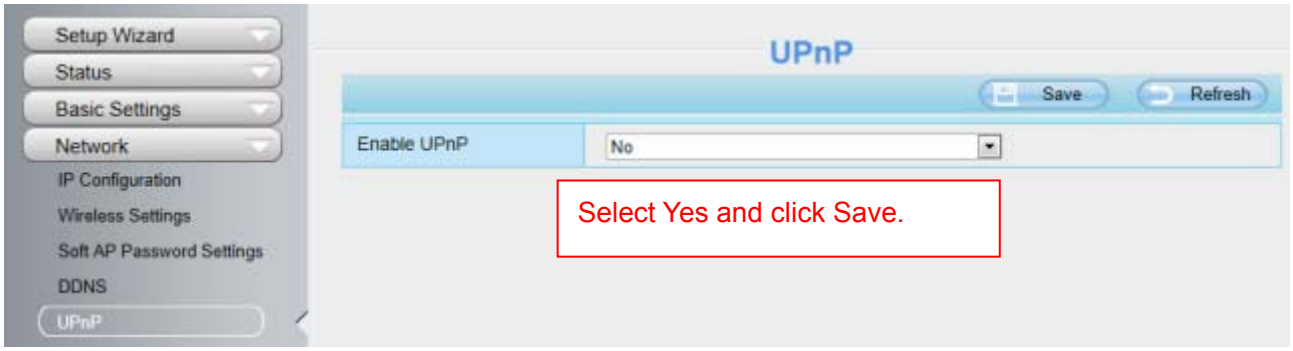
2.3.2 Remote Access

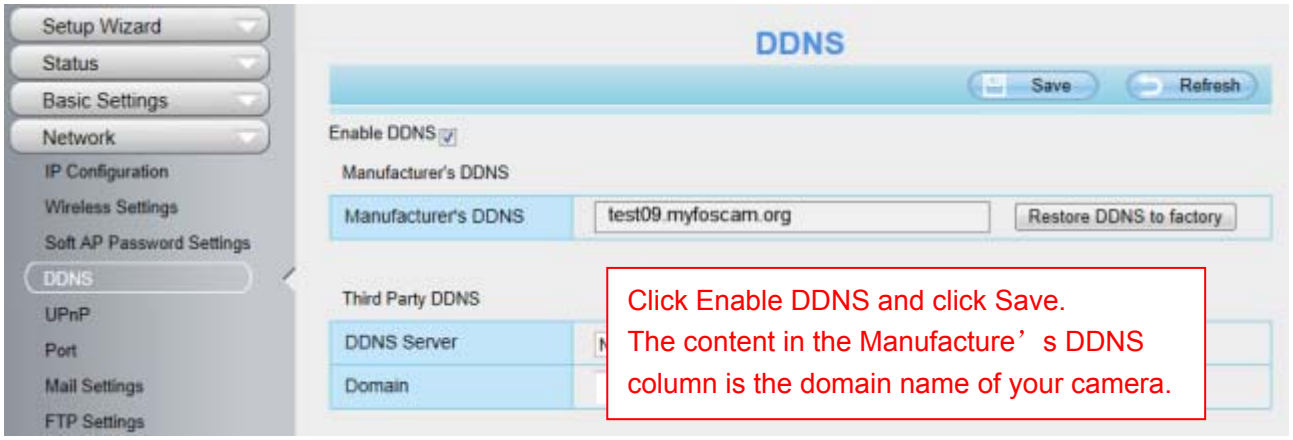
If you want to access your camera by web browser outside of your LAN, you need to configure following configurations.

1. Choose “Settings” on the top of the camera web page, then go to the “Network > IP Configuration” section on the left side of the screen, then uncheck the Obtain IP DHCP.

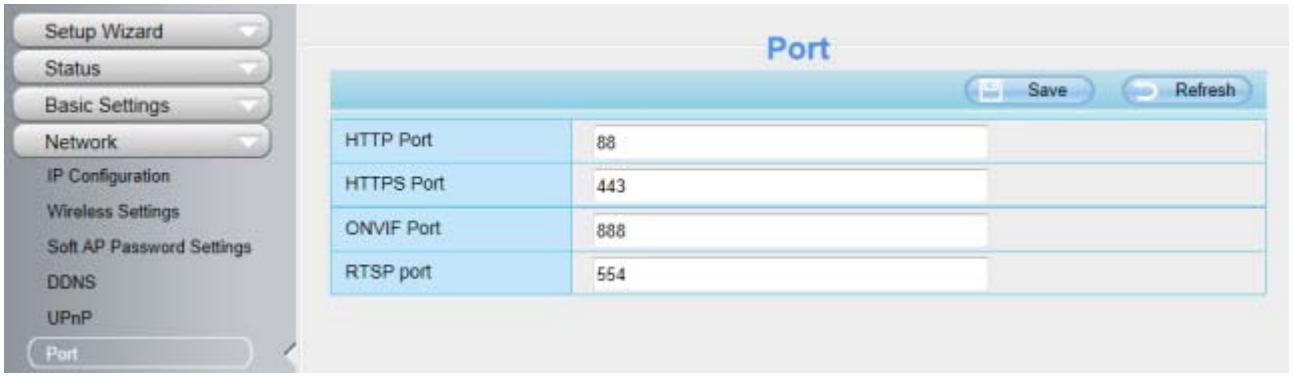


2. Enable UPnP and DDNS in the camera’s settings page. We recommend you to use the DDNS by factory default.





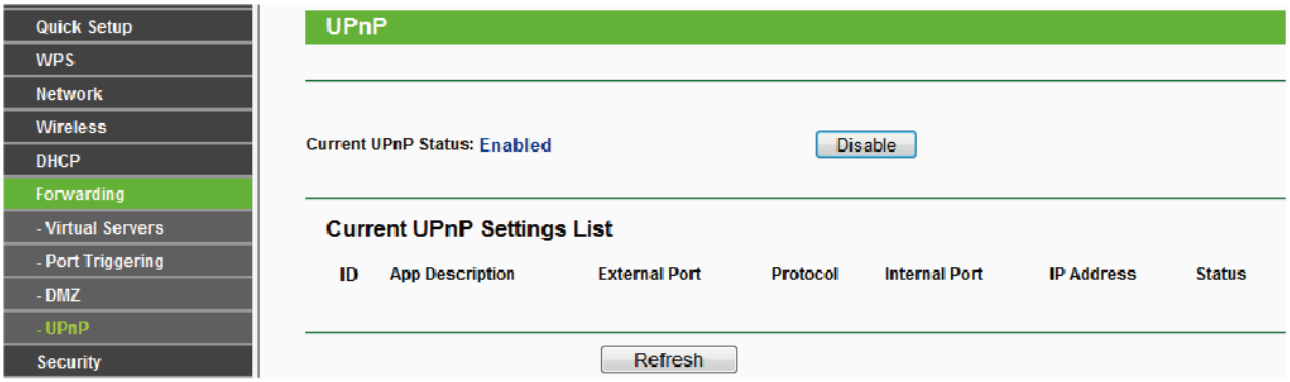
3. You can see the port of your camera here. If you want to set Remote Access for several cameras on the same network, you will need to change the HTTPS port for each camera.



4. If the UPnP of the router has been enable, you do not need to perform following steps. Otherwise, you need to select one of the following methods to configure port forwarding on your router. For these steps, we will be using the TP-LINK brand wireless router as an example.

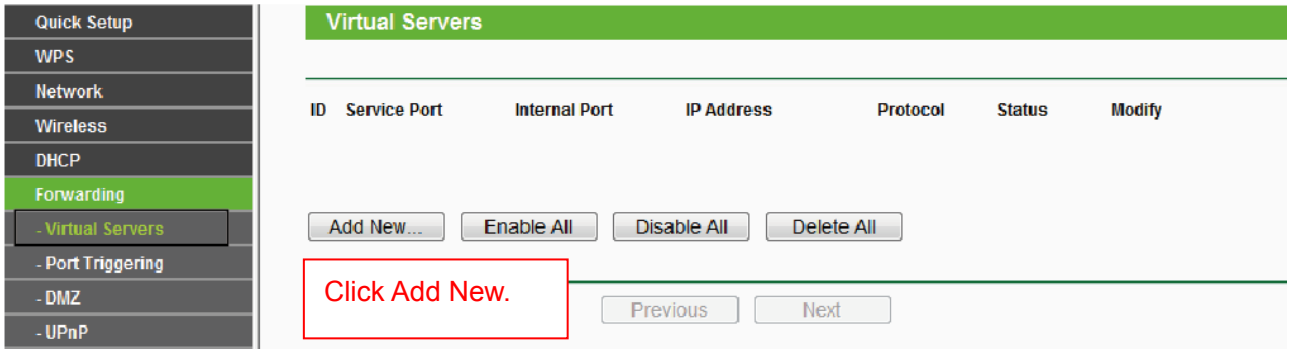
- **If there is a UPnP function in your router：**

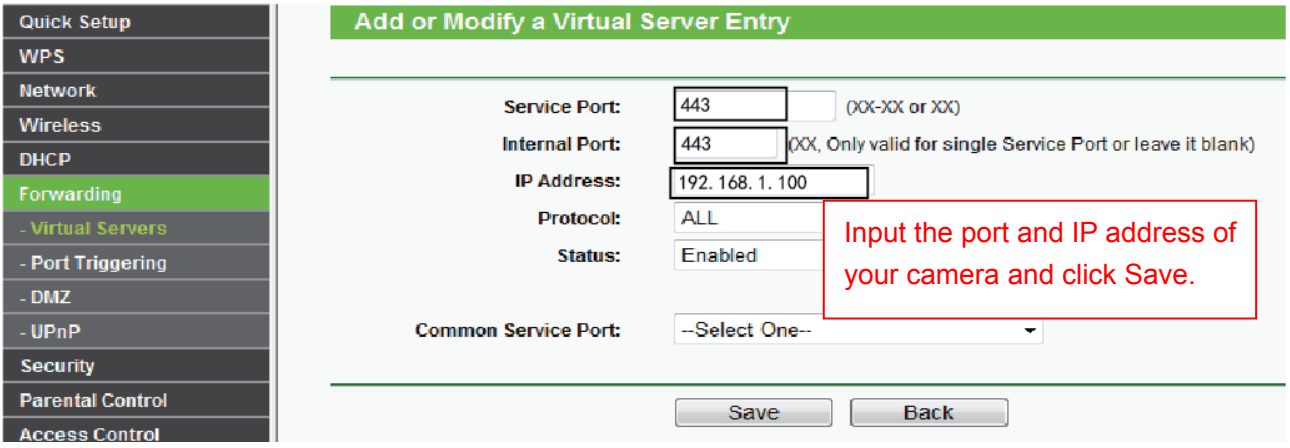
Choose “Forwarding > UPnP”, make sure that the Current UPnP Status is Enabled.



- **If there is no UPnP function in your router:**

You need to manually add port forwarding, refer to the following steps. You need go to the "Forwarding > Virtual Servers" panel for setup.





5. Now you can access your IP camera by https://domain name: HTTPS port via the Internet.

2.4 Using the VLC player

The camera supports RTSP streaming, here you can view the camera by VLC player.

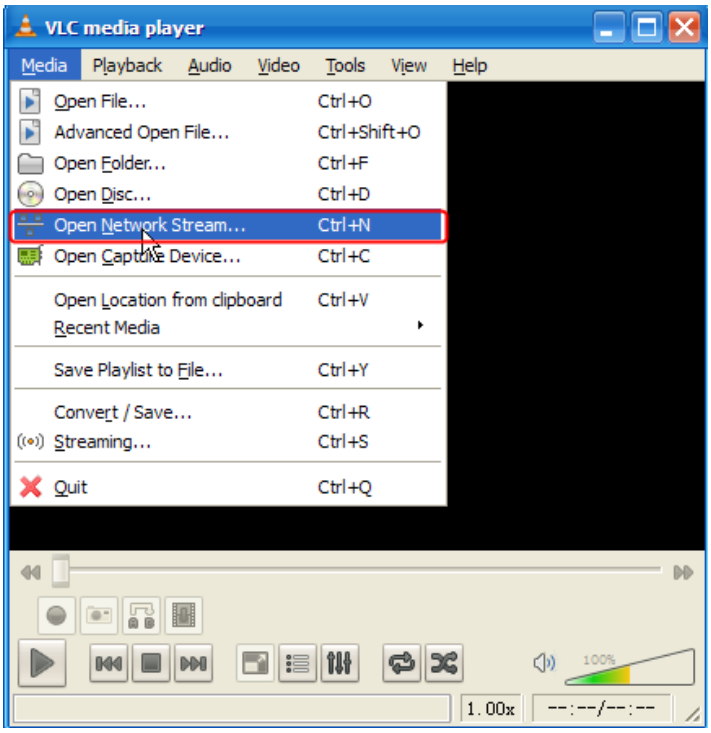
RTSP URL rtsp:// [user name][:password]@IP:Port number/videostream

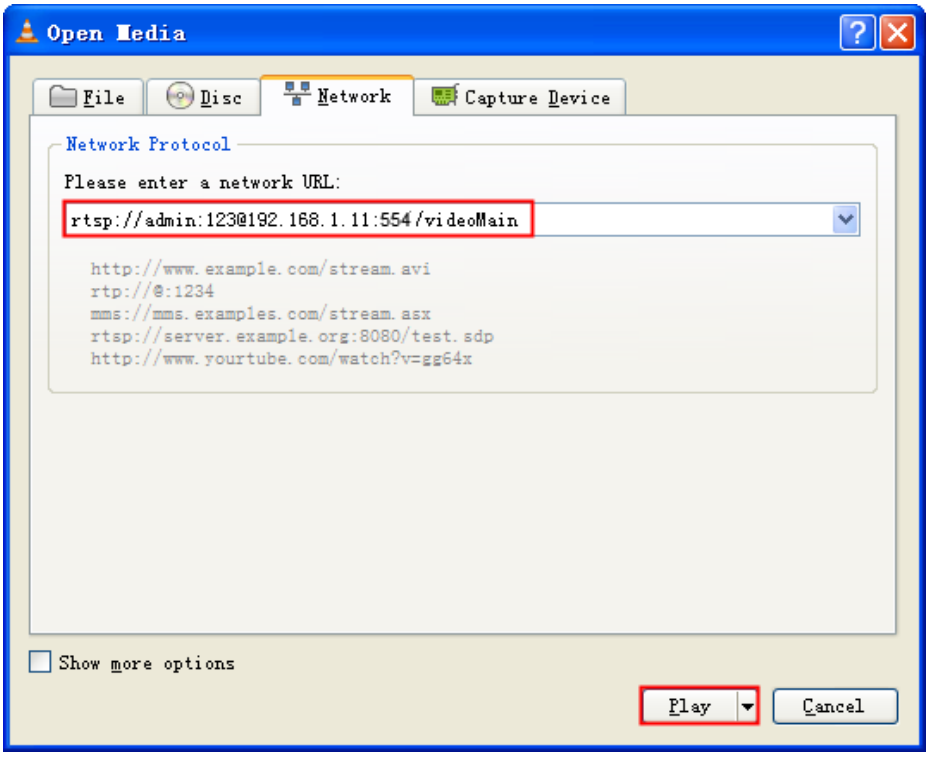
The part in the square brackets can be omitted.
user name & password: The user name and password to access the camera. This part can be omitted.
IP: WAN or LAN IP address.
Port NO. : If there is the RTSP port number on the Port page, you must only use RTSP port number. otherwise, you must only use http port number.
Video stream: Three modes are supported: video Main, video Sub and audio. Video Sub is a better choice in bad network condition. If you select audio, you can only hear sound without seeing picture.

For example:
IP: 192.168.1.11
RTSP Port number: 554
User name: admin
Password: 123

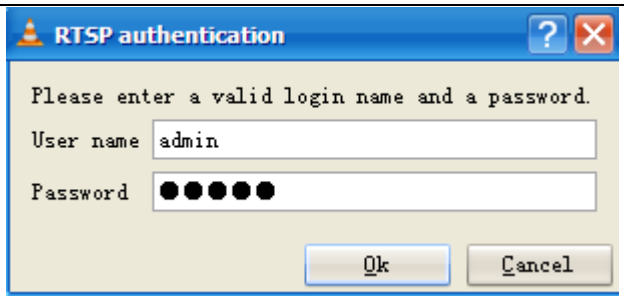
Enter either one of the following four URLs in the VLC
1. rtsp://admin:123@192.168.1.11:554/videoMain
2. rtsp:// @192.168.1.11:554/videoMain
3. rtsp://:123@192.168.1.11:554/videoMain
4. rtsp://admin@192.168.1.11:554/videoMain

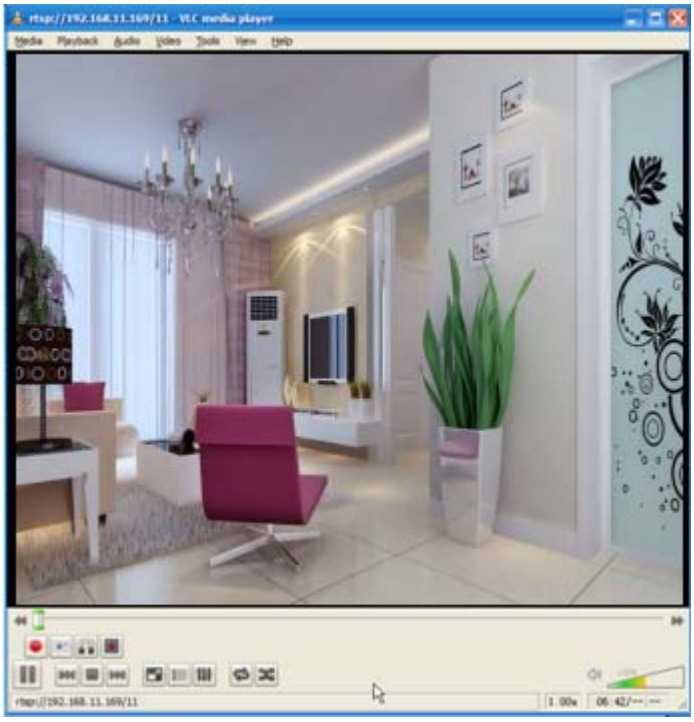
Open the VLC, and go to “Media”--”Open Network Stream” option, then enter the URL in VLC.





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





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 to apply the new username and password in authentication in the VLC.

2.5 IP camera connection to the server

Device supports ONVIF 2.2.1 protocol, You can easily access NVR with ONVIF or server with ONVIF.

3 Surveillance Software GUI

Please refer to the section 2.1 if you install the camera for the first time. You can start to learn about software operation in the computer

3.1 login Window

Section1 Enter the Username and password

The default administrator username is “admin” with no password, please change the password the first time you use and prevent unauthorized users login the camera.

Section2 Stream

The camera supports two stream modes: Main stream and sub stream. Select Main stream if you want to access the camera from LAN and sub stream will be better if you want to access the camera from Internet.

Note:

Select sub stream to ensure a more fluent video under narrow network bandwidth.

Section3 Select the language

You click on the language dropdown list to select language.

Section4 login the camera

Click “Login” button.

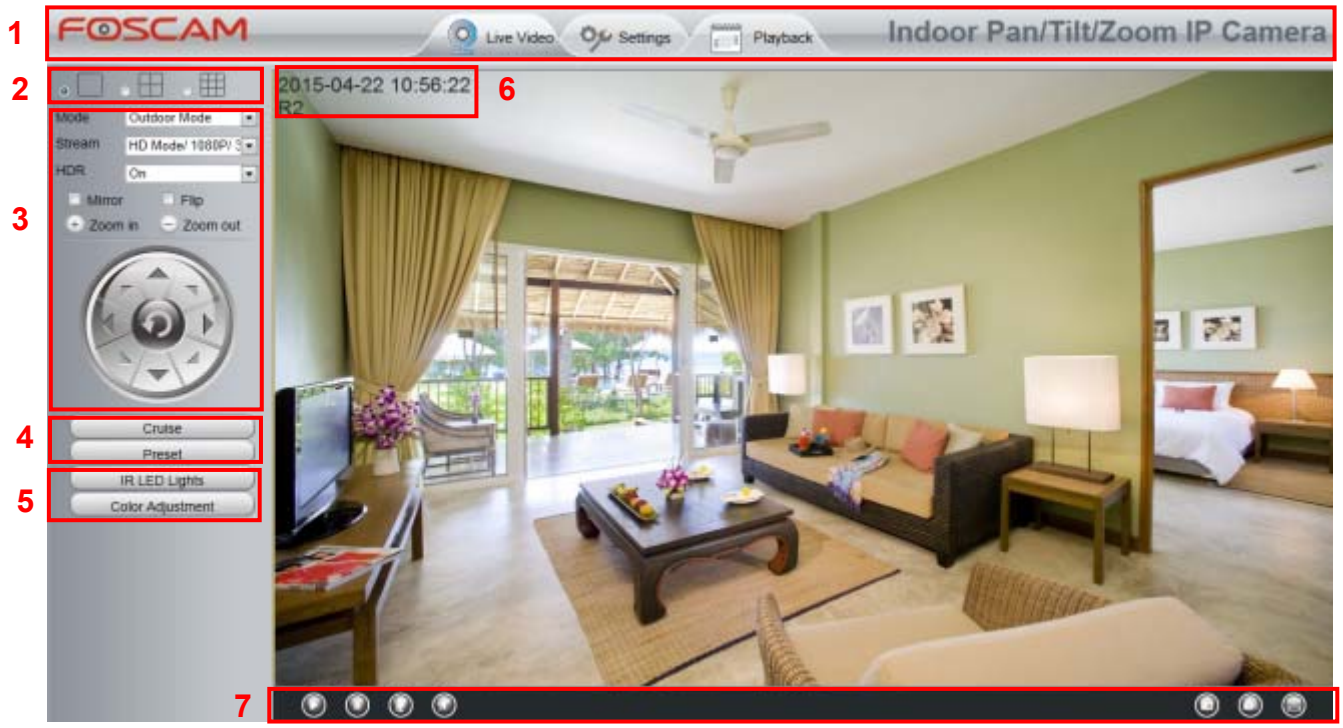
NOTE:

When setting up your camera for the first time, it will request that you modify the default username and/or password if both are still set to default. Input the new username and password, click "Modify" to complete the modification. You will now use the new username and password to login to the camera in the future.

3.2 Setup Wizard

You will go to “Setup Wizard” automatically after your first-login, where you can set the basic parameters of camera, such as camera name, camera time, wireless settings, IP configuration.

3.3 Surveillance Window



Section 1 FOSCAM Logo/ Live Video / Settings/Playback

: FOSCAM LOGO

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

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

: Click this button to go back to the Playback panel to view the stored audio files stored in the SD Card.

Section 2 Multi-Device Window

The firmware inside the camera supports up to 9 cameras being monitored at the same time. You can add other cameras in multi-device setting.

Section 3 Mode/ Stream / HDR / Mirror/ Flip buttons / Zoom

- **Mode**

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

- **Stream**

The default stream supports multiple modes, For example: HD Mode/720P/23fps/2M meanings: Stream type / Resolution / Maximum frame rate/ Bit rate. (Different models support different specific mode.)

Stream type : It is used to identify the stream type.

Resolution

The bigger the resolution, the better of the image quality is. If you are accessing the camera via internet and want to get more fluent video streaming, please select resolution VGA.

Maximum frame rate

You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video. The maximum frame rate for each model is different, please see the "Specifications".

Bit rate

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

You can reset the stream type on **Settings-> Video-> Video Settings** panel.
After changing, please reboot the camera and you can see the modification.

- **HDR**(Only R2)

HDR stands for High Dynamic Range. It usually refers to the method of capturing images having “greater dynamic range between the lightest and darkest areas of an image than current standard digital imaging methods or photographic methods”. You can select “on” from the dropdown list under sunlight or with bright background.

- **“Zoom in” or ”Zoom out”**(Only R2/C2)

Device Support 8x zoom feature, click or ,The focal length of the camera lens will be larger or shrink, you can adjust the focus distance to the target object size, access to high-definition screen.

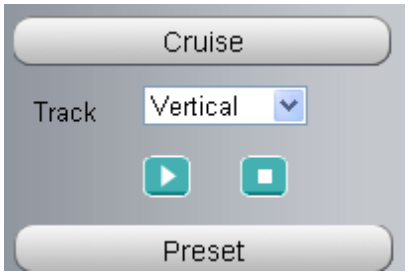
- **Pan/Tilt Control**(only R2)

1----- Up control button, 2-----Down control button,
3------Left control button, 4------Right control button,
5----- Up-Left control button
6----- Up-Right control button
7----- Down-Left control button
8----- Down-Right control button

Click this button and go to center

Section 4 Cruise / Preset settings(Only R2)

Cruise Settings



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

Vertical: The camera will rotate from up to down.

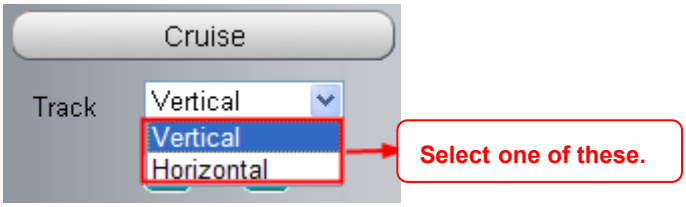
Horizontal: The camera will rotate from left to right.

: Start cruise. : Stop cruise.

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

How to do cruise?

Firstly: Select one track in the track dropdown list.



Secondly: Click Start cruise button, the camera will cruise following the predefined path.
Thirdly: Click stop button and finish cruising.

Preset settings

IPCam supports 16 preset positions, which is considered enough for DIY home & small business surveillance market
The default preset position is Topmost, Bottom most, Left most, right most, you can add other preset positions.

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

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

GO Select one preset position in the preset drop-down list and click Go to make the camera move the preset position

How to do preset position?

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

Secondly, click button and enter a descriptive name for the preset position. The preset position cannot contain special characters. Then click OK to save it. If you want to reset the preset position, click Cancel.
After that, you can move the camera and stop at another place, and set another preset position. You can do all the 16 preset positions with this method.

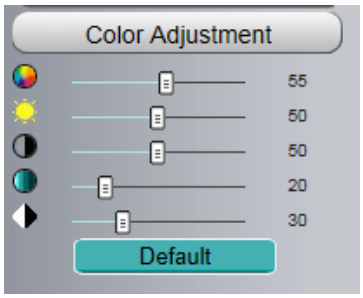
If you want to see one preset position you have set, only select the preset position name from the preset drop-down list, and click go button, the camera will go to the preset position.

Section 5 IR LED Lights / Color Adjustment

Click Infra led and there are three modes to adjust the infrared led: Auto, Manual and Schedule.
Auto: Select it and the camera will adjust the infra led (on or off) automatically.
Manual: Select it and you can turn on or turn off the infra led manually.
Schedule: Select it and the IR led light will be off at the schedule period. If you want to define or change the IR led lights schedule time, please go to **Settings--->Video---> IR LED Schedule** page.

Color Adjustment

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



Section 6 OSD

If you have added time and camera name in the video, you can see it in the live window.
Go to **Settings ---Basic settings---Camera name** panel, and you can change another device name. The default device name is anonymous.
Go to **Settings ---Basic settings---Camera time** panel and adjust the device time.
Go to **Settings ---Video---On Screen Display** panel, you can add or no add OSD.

Section 7 Play/ Stop/ Talk/ Audio/ Snap/ Record/ Full screen button

1----- Play Click it to play the video of the camera
2----- Stop Click it to stop the video of the camera

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

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

5----- Adjusting the sound Click this icon, the icon will become to ,you can change the sound of the camera.

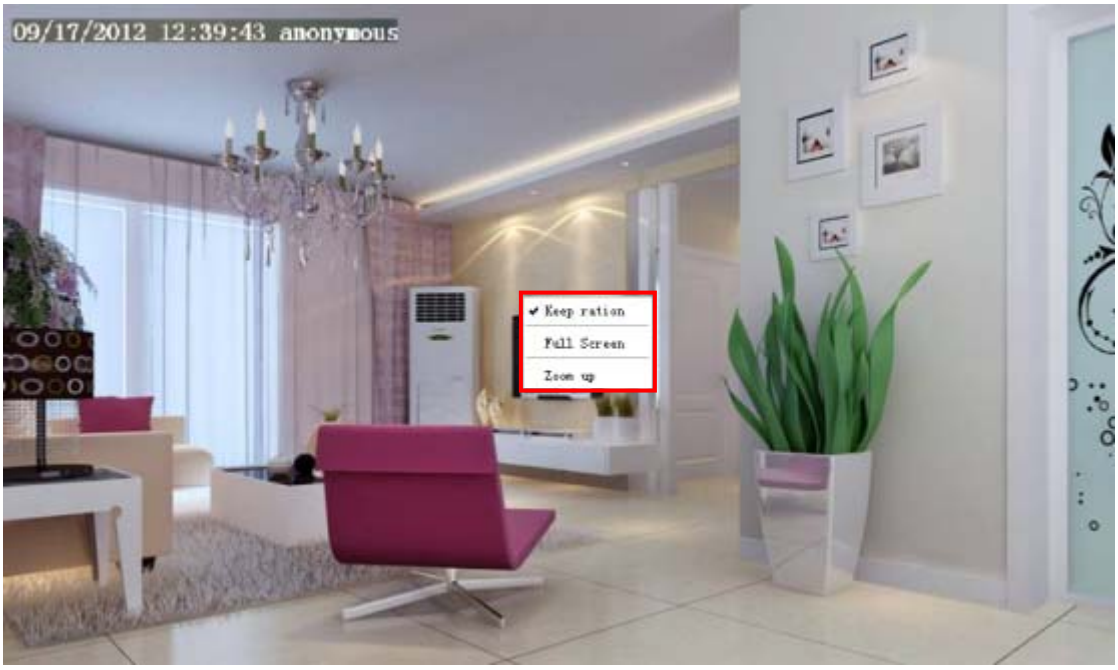
6----- Snapshot Click it to make snapshot and it pop-up a window which picture you snapshot, right click in the window and save the picture to anywhere you want.

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

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

Onscreen Mouse Control

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



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

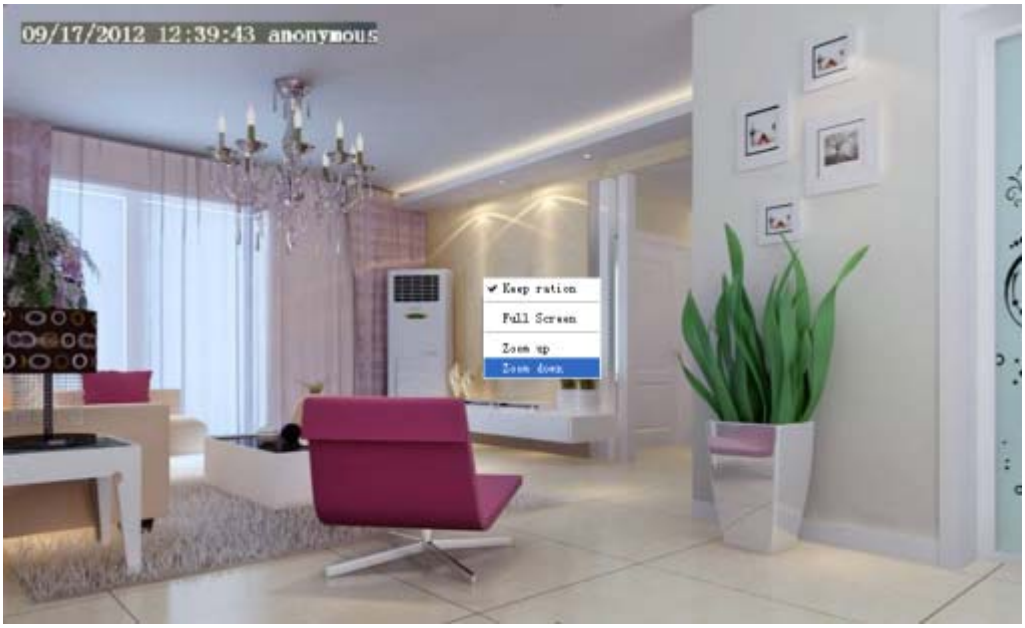
Full Screen: Select it and Click it to make full-screen, press ESC and exit full-screen.

Zoom up: Select it and you can see a bigger screen than before.

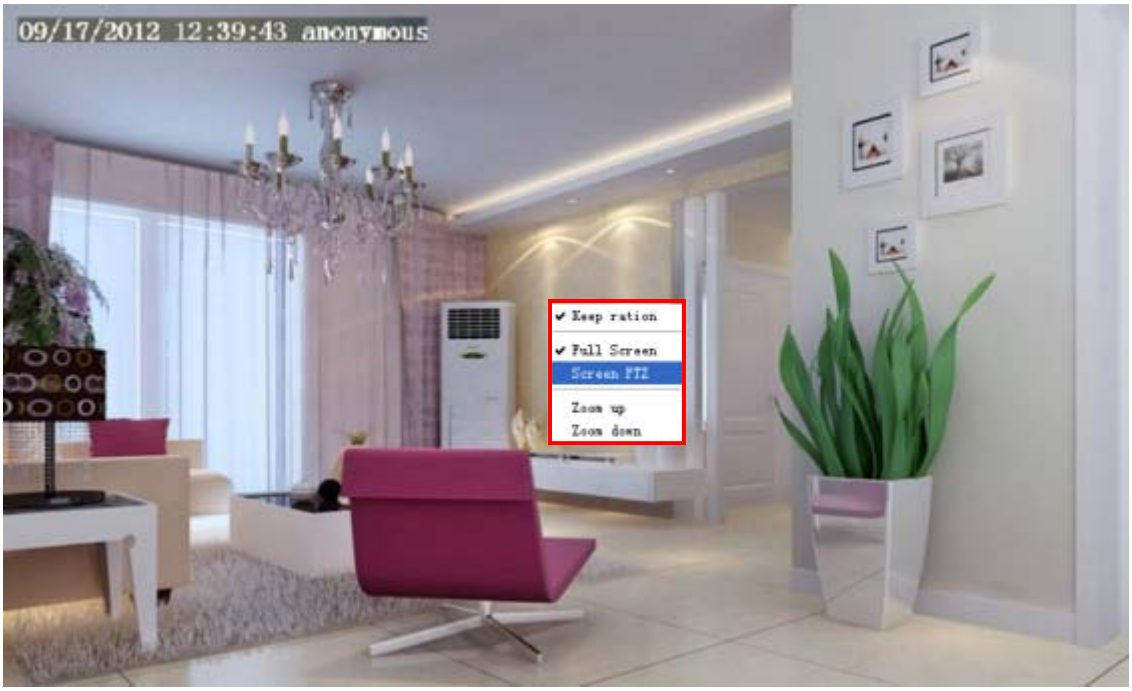
First Method: Here is a convenient and fast solution to Zoom up/down screen by Clicking Video Screen

and adjusting Mouse pulley, or by press the CTRL key and click the mouse left button.

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



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



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

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

4 Advanced Camera Settings

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

4.1 Setup Wizard

Please go to section 3.2 to find the way to set it.

4.2 Status

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

4.2.1 Device Information

Camera Model: The camera model NO.

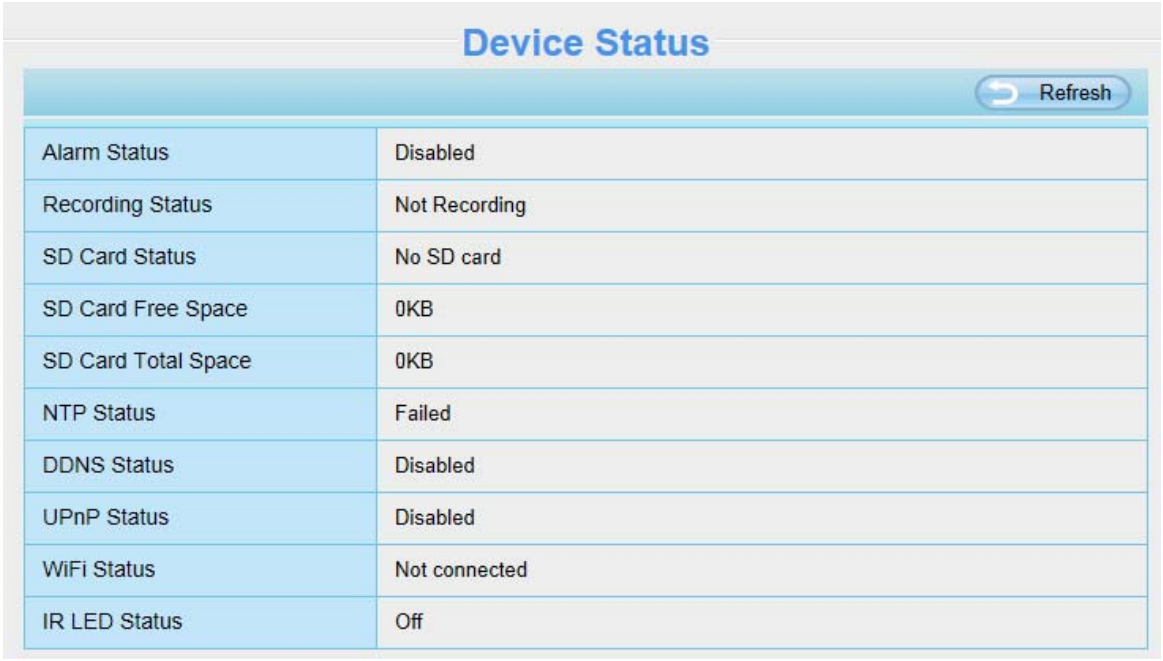
Camera Name: The Device Name is a unique name that you can give to your device to help you identify it. Click **Basic Settings** and go to **Camera name** panel where you can change your camera name. The default device name is anonymous.

Camera ID: Display the wired MAC address of your camera. For example Device ID is 000C5D00008, the same MAC ID sticker is found at the bottom of the camera.

Camera Time: The system time of the device. Click **Basic Settings** and go to **Camera time** panel and adjust the time.
System Firmware Version: Display the System Firmware version of your camera.
Application Firmware Version: Display the application firmware version of your camera.
Plug-In Version: Display the plug-in version of your camera.

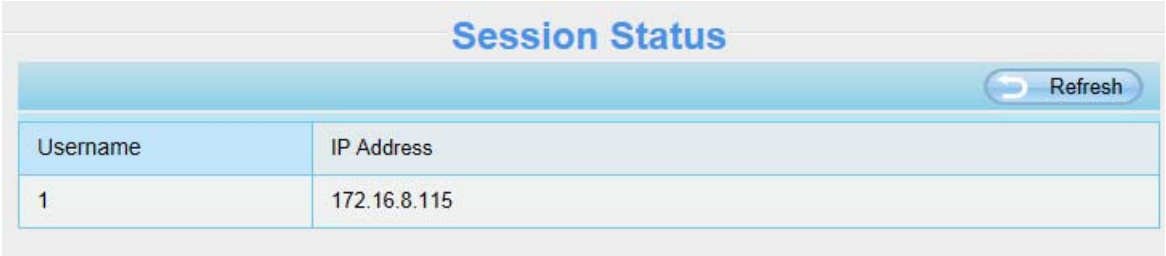
4.2.2 Device Status

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



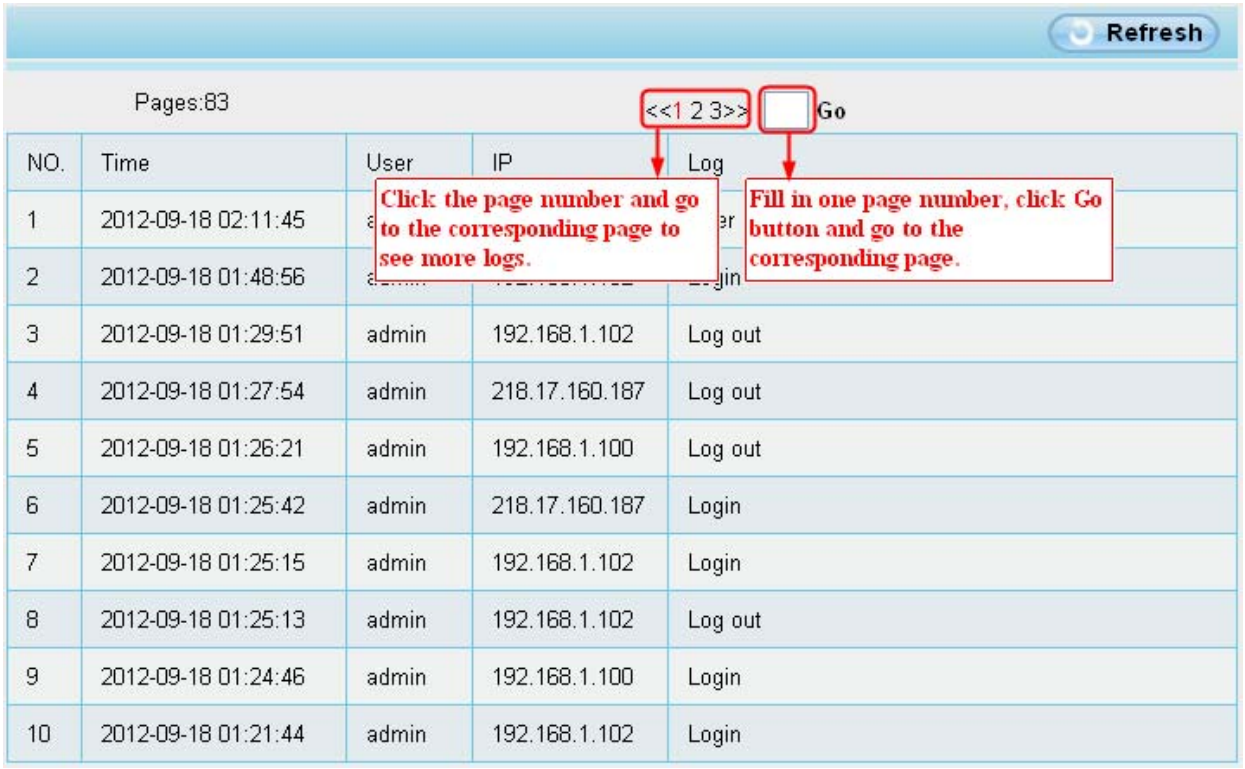
4.2.3 Session Status

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



4.2.4 Log

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



NO.	Time	User	IP	Log
1	2012-09-18 02:11:45			
2	2012-09-18 01:48:56			
3	2012-09-18 01:29:51	admin	192.168.1.102	Log out
4	2012-09-18 01:27:54	admin	218.17.160.187	Log out
5	2012-09-18 01:26:21	admin	192.168.1.100	Log out
6	2012-09-18 01:25:42	admin	218.17.160.187	Login
7	2012-09-18 01:25:15	admin	192.168.1.102	Login
8	2012-09-18 01:25:13	admin	192.168.1.102	Log out
9	2012-09-18 01:24:46	admin	192.168.1.100	Login
10	2012-09-18 01:21:44	admin	192.168.1.102	Login

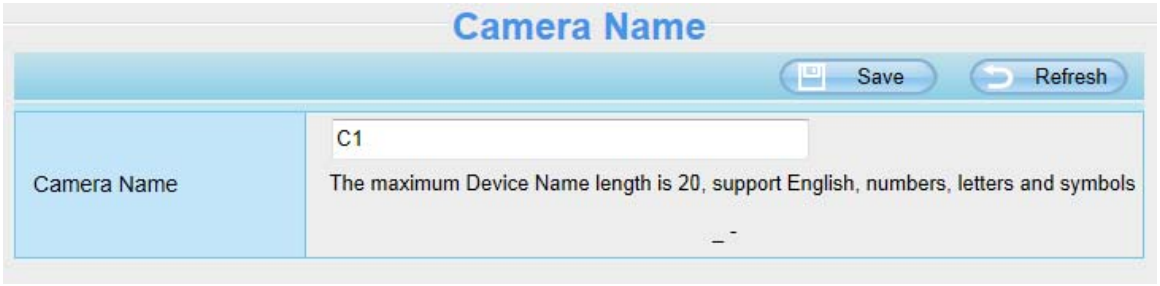
Reboot the camera and clear the log records.

4.3 Basic Settings

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

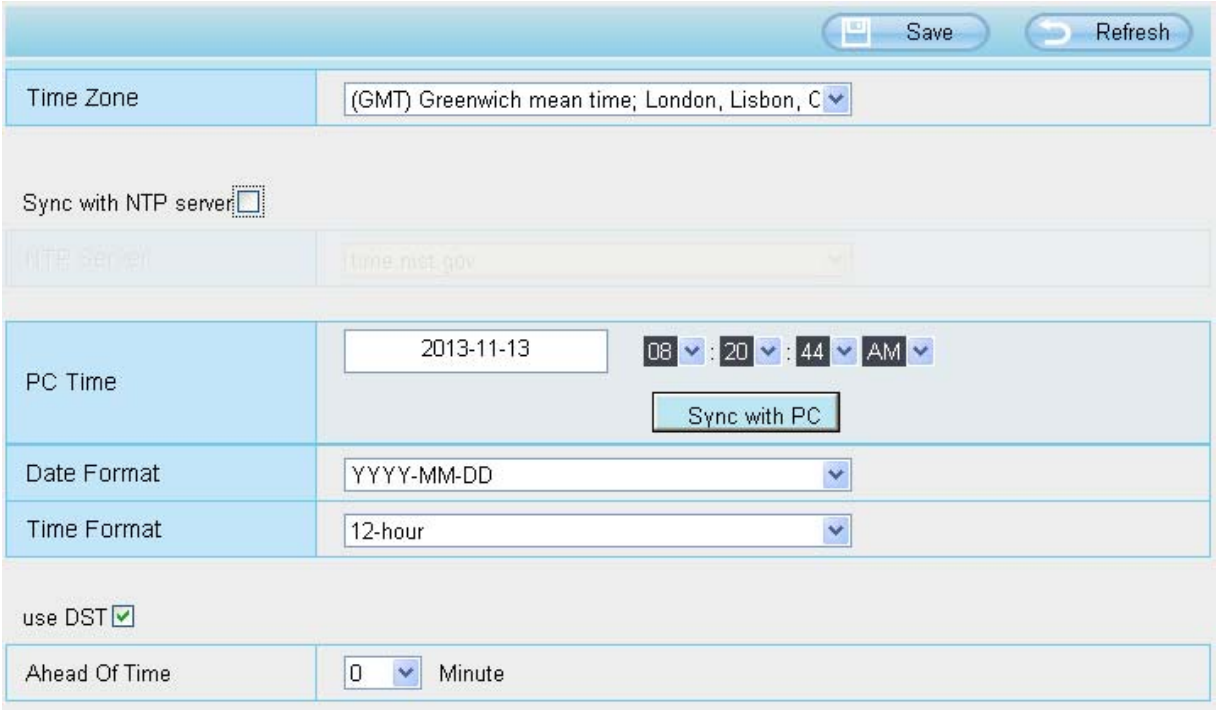
4.3.1 Camera Name

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



4.3.2 Camera Time

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



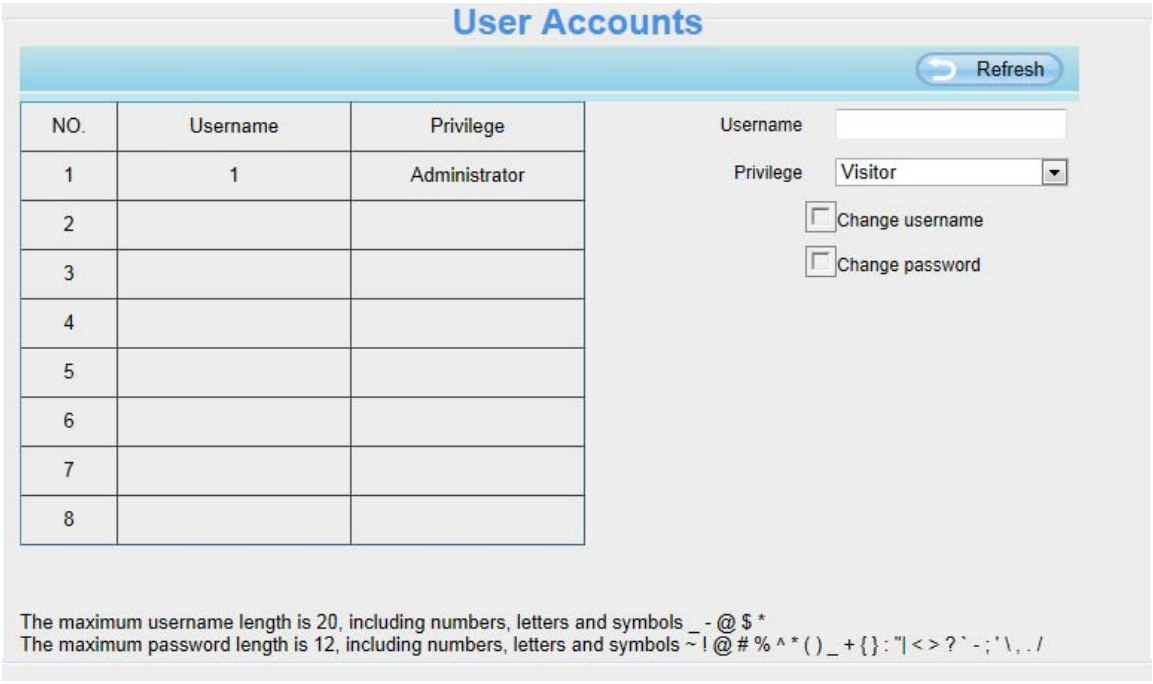
Time Zone: Select the time zone for your region from the dropdown menu.
Sync with NTP server: Network Time Protocol will synchronize your camera with an Internet time server. Choose the one that is closest to your camera.
Sync with PC: Select this option to synchronize the date and time of the Network Camera with your computer.
Manually: The administrator can enter the date and time manually. Note select the date and time format.
use DST: Select the daylight saving time from the dropdown list.

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

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

4.3.3 User Accounts

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

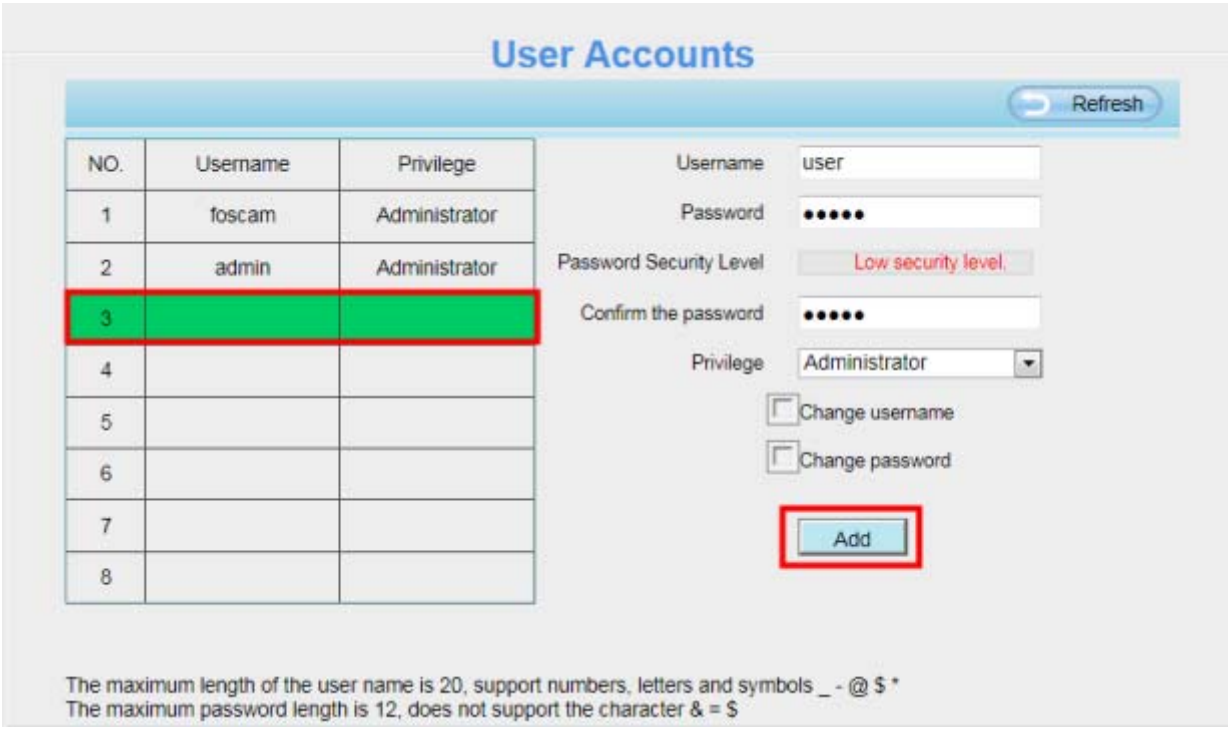


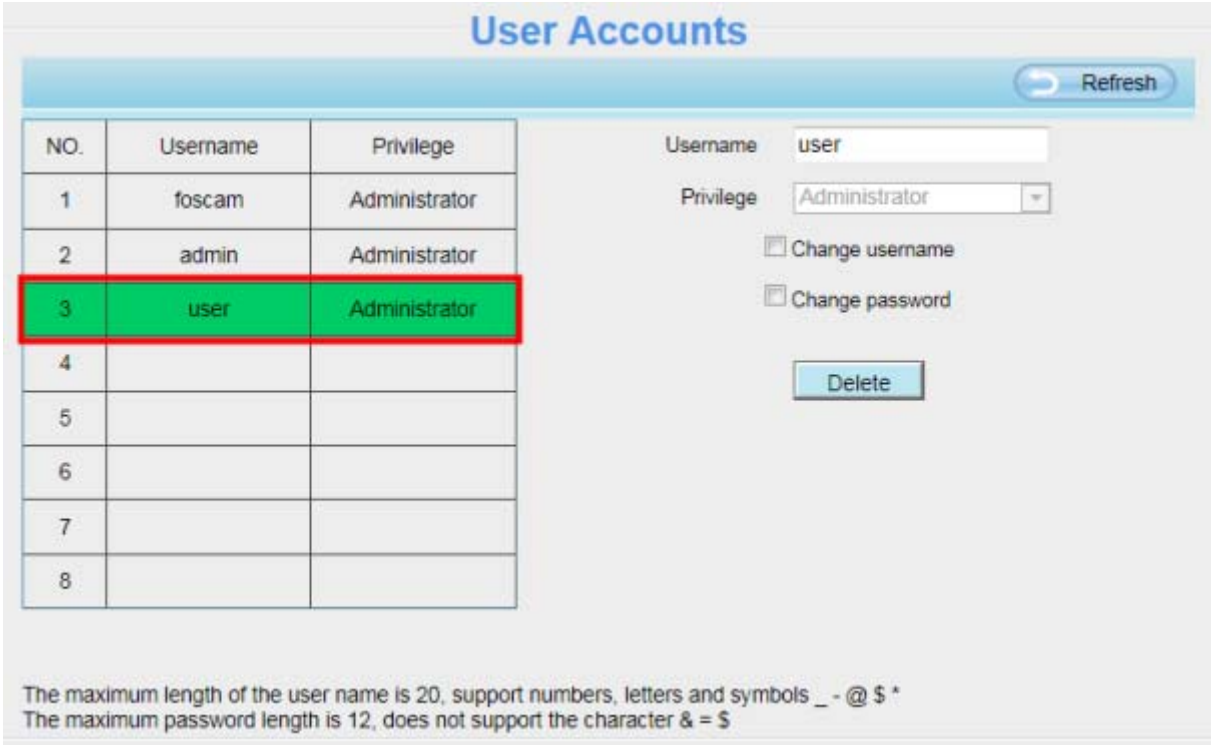
How to change the password?

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

How to add account ?

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



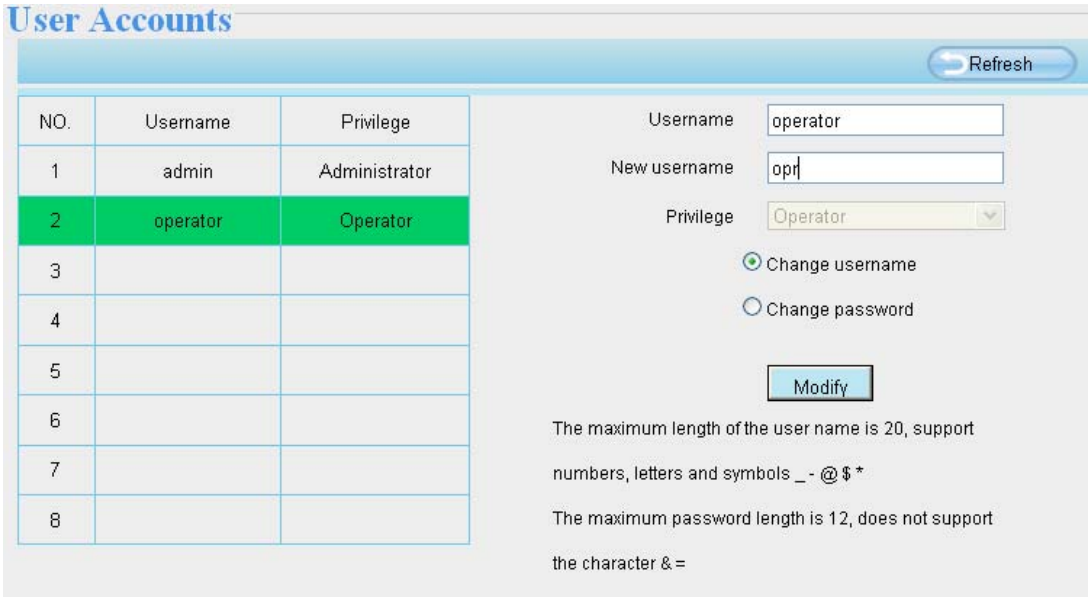


Delete ：Select the account which you want to delete, then click Delete button to take effect.

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

How to change the username ?

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



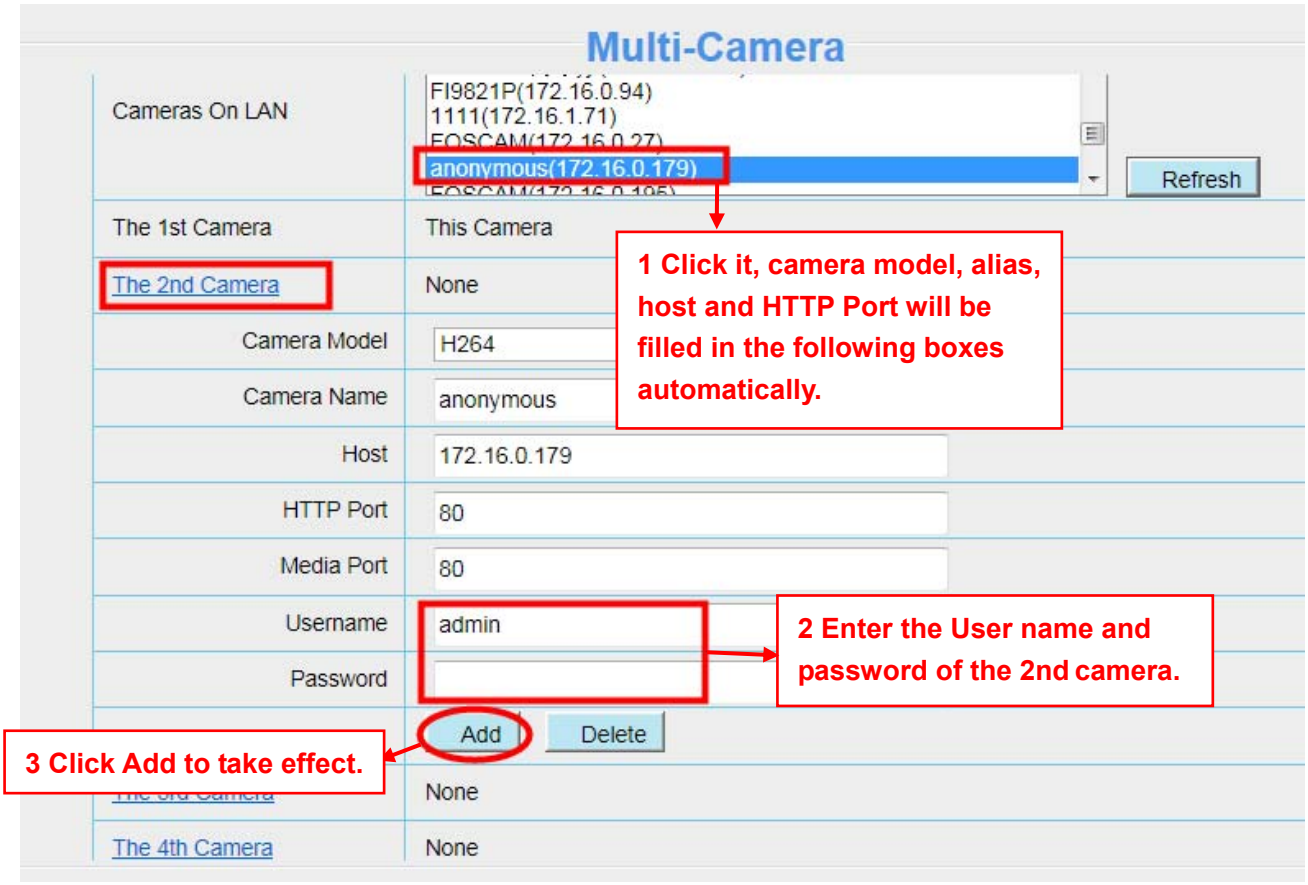
4.3.4 Multi-Camera

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

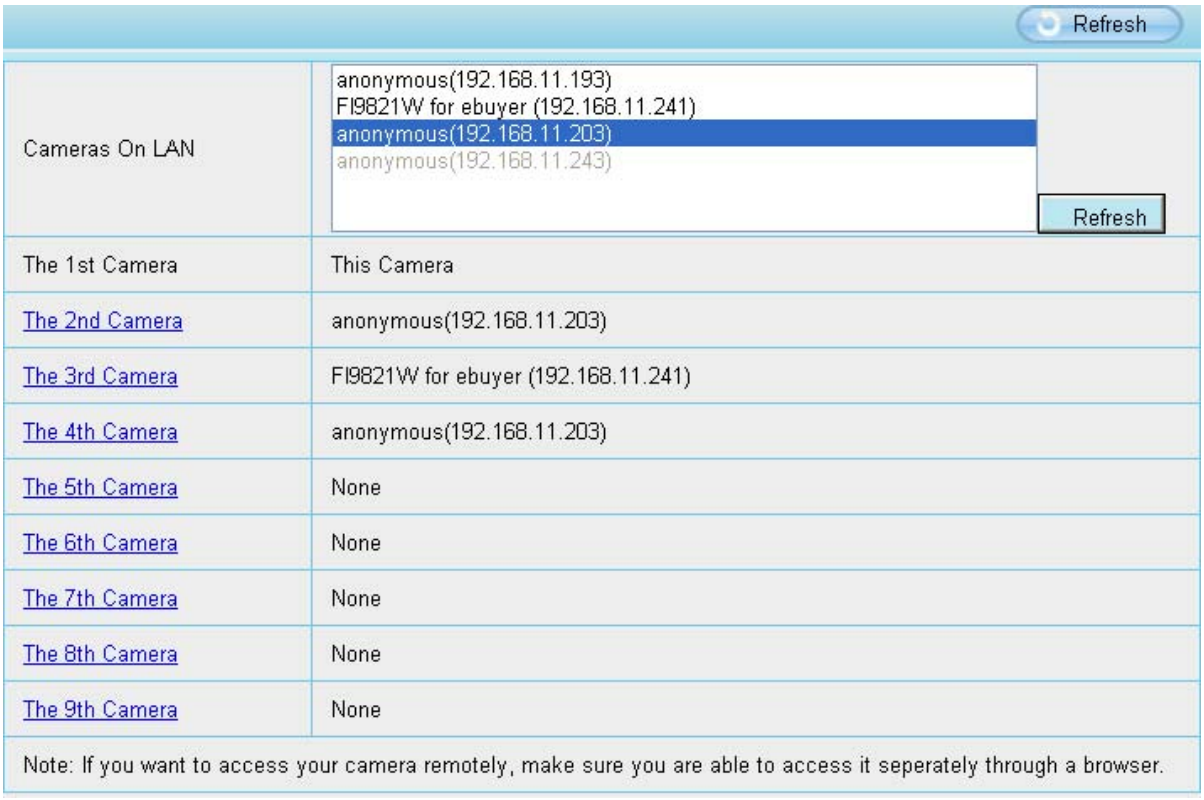
The firmware within the camera can support a maximum of 9 devices monitoring all at the same time. This page you can both add FOSCAM MJPEG and H.264 series cameras to the first camera and view multi-surveillance screen on one window.

Add cameras in LAN

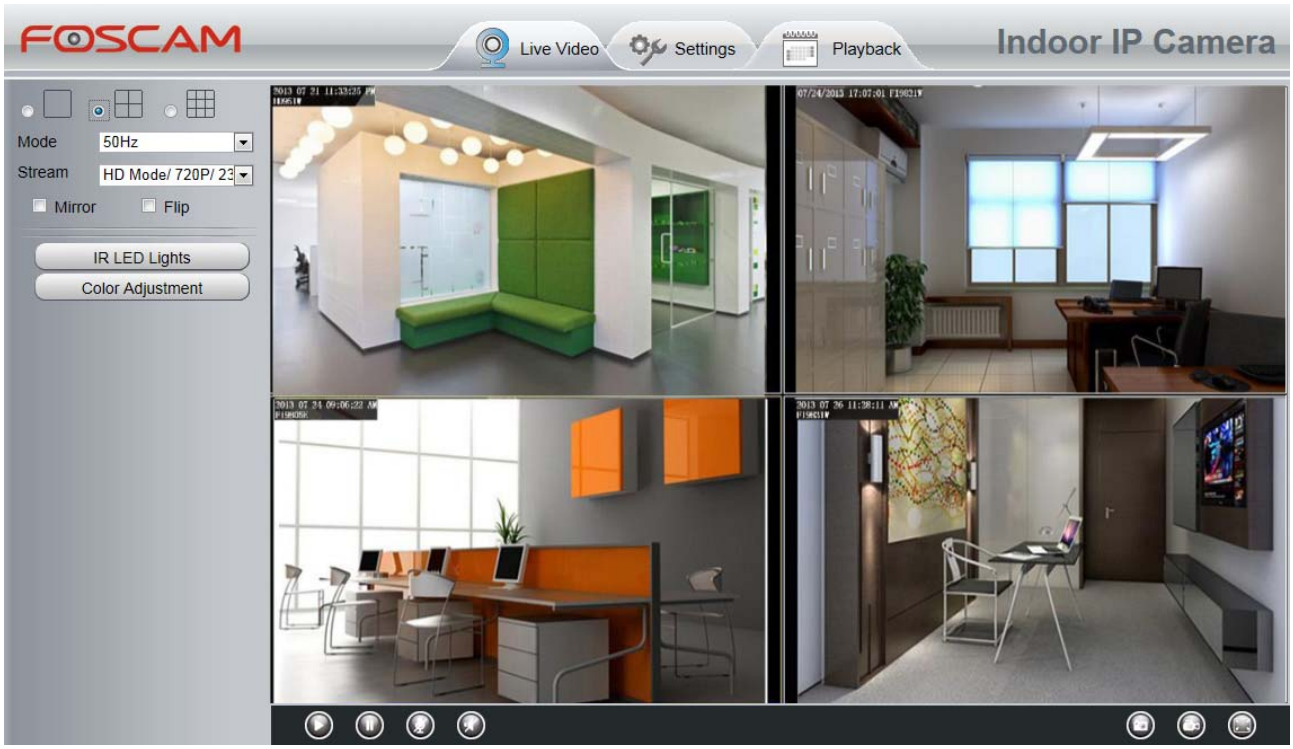
In Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is the default one. You can add more cameras in the list in LAN for monitoring. The camera's software supports up to 9 IP Cameras online simultaneously. Click The 2nd Device and click the item in the Device List in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

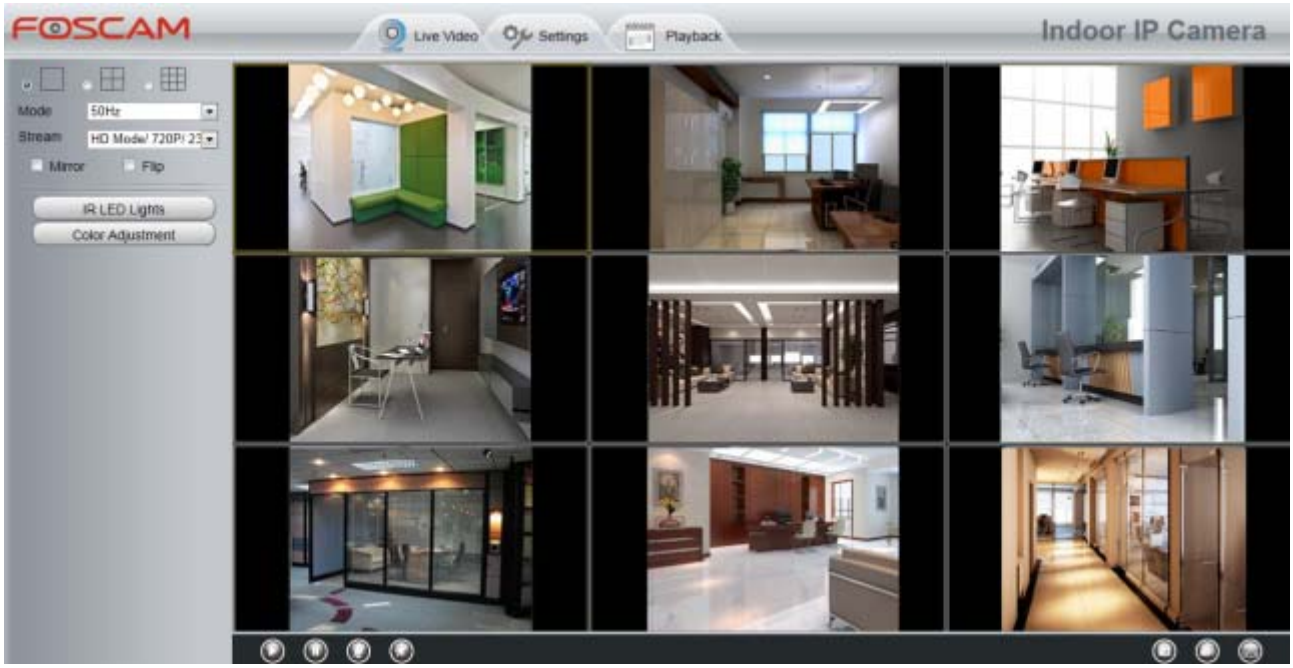


Camera Model: Our Company produces two series cameras: MJPEG and H.264. Here will show you which series the camera belongs to.



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

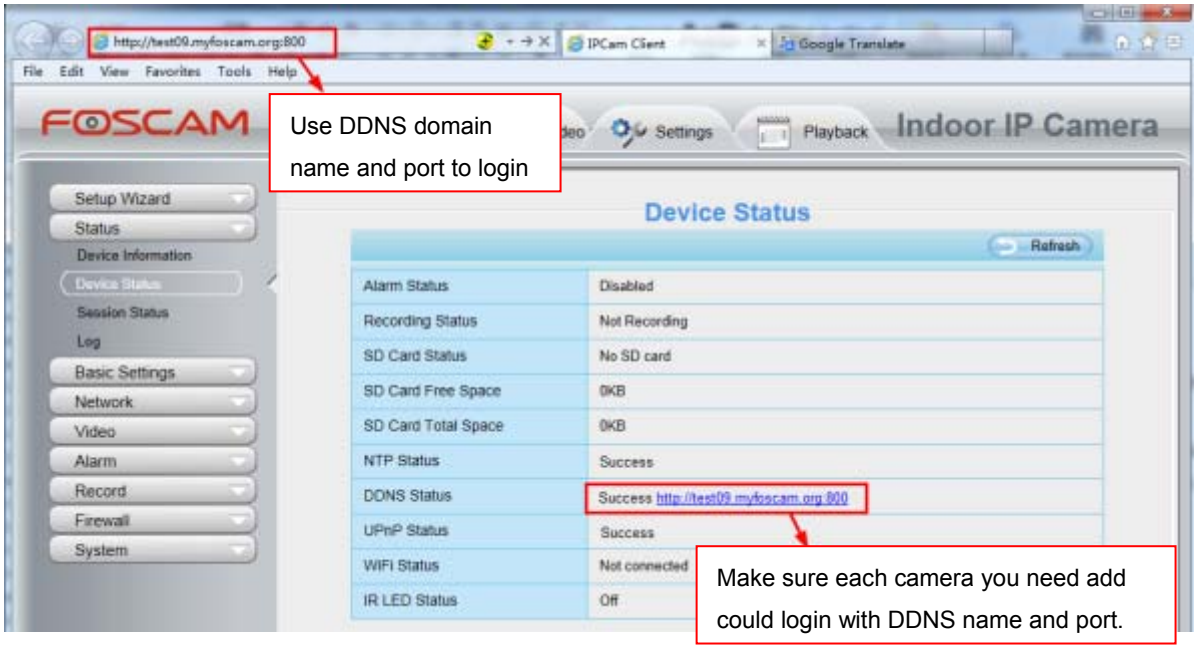




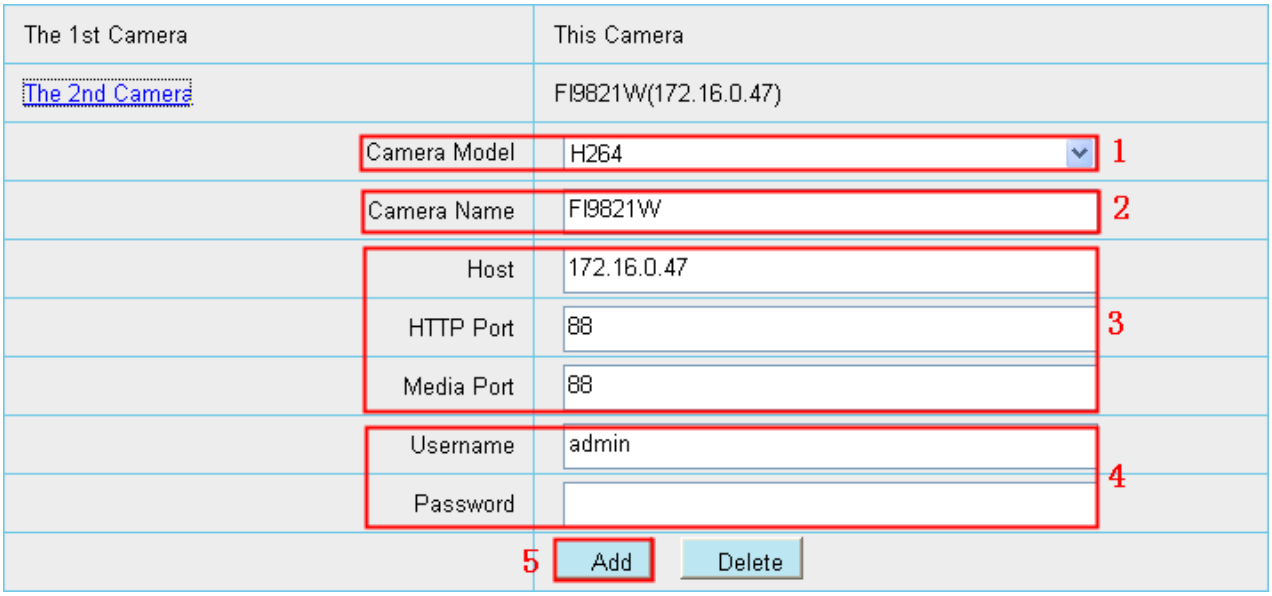
Add cameras in WAN

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. **(The way to configure DDNS is in chapter 4.4.4)**

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



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.

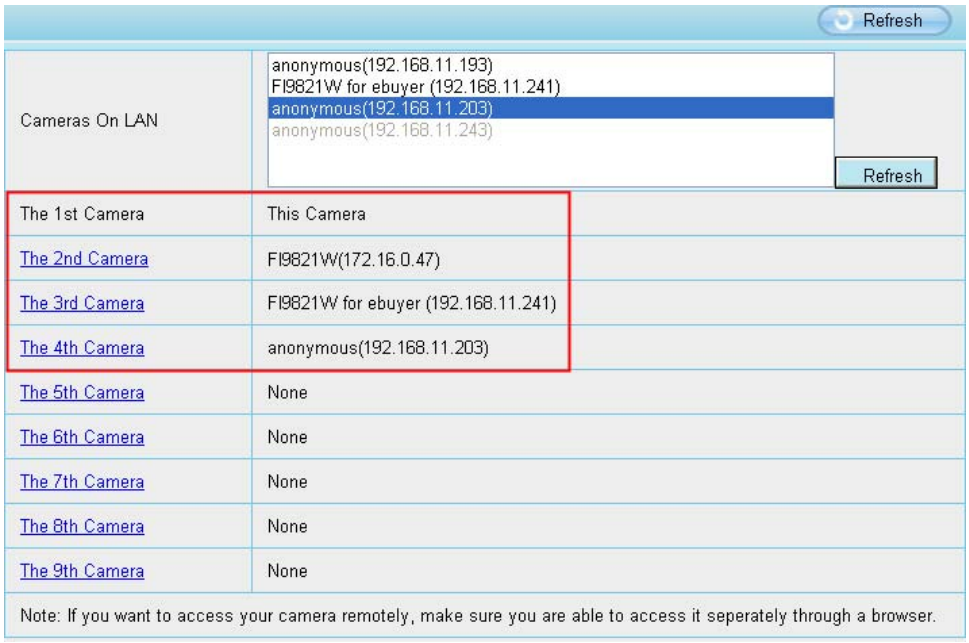


1 ---- The camera model: MJ or H264.
2 ---- The 2nd camera's name
3 ---- Fill in the 2nd camera's DDNS host not LAN IP

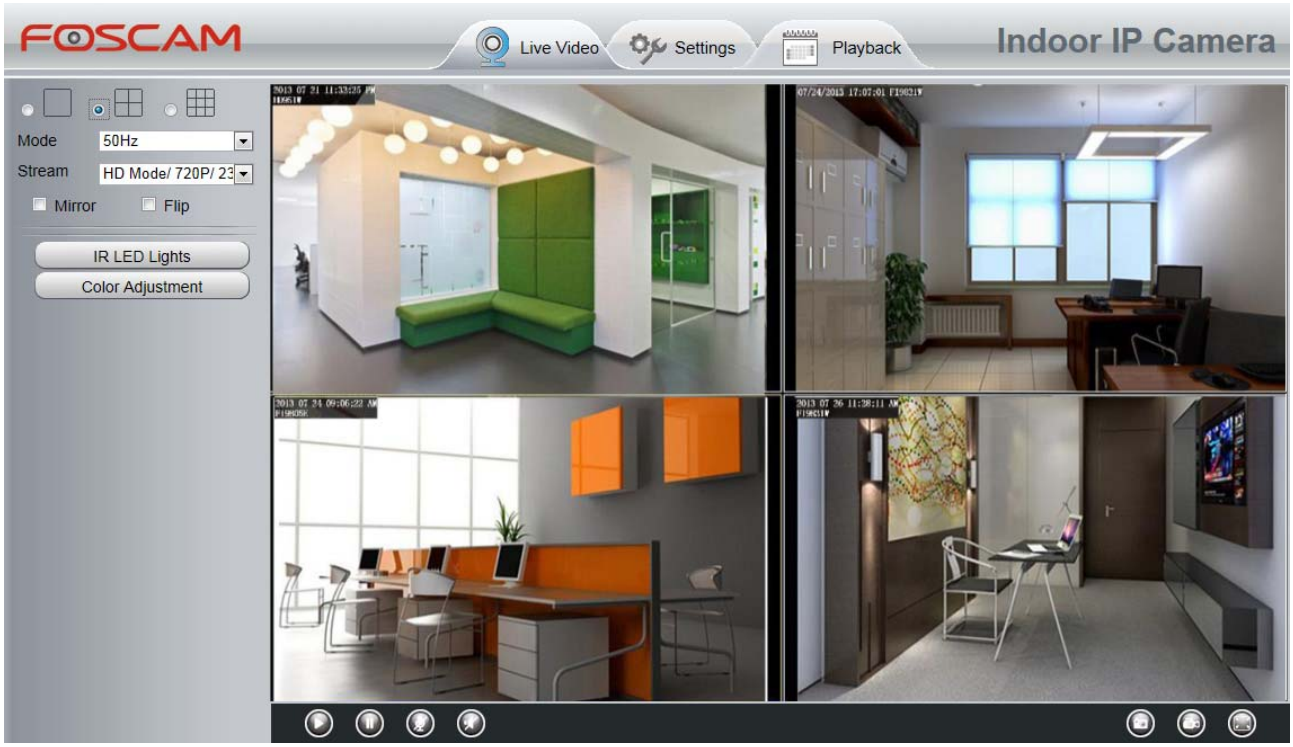
NOTE: The MJ series have the same HTTP Port NO. and Media Port NO.

4 ---- Enter the 2nd camera's user name and password
5 ---- Click Add button and to take effect

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

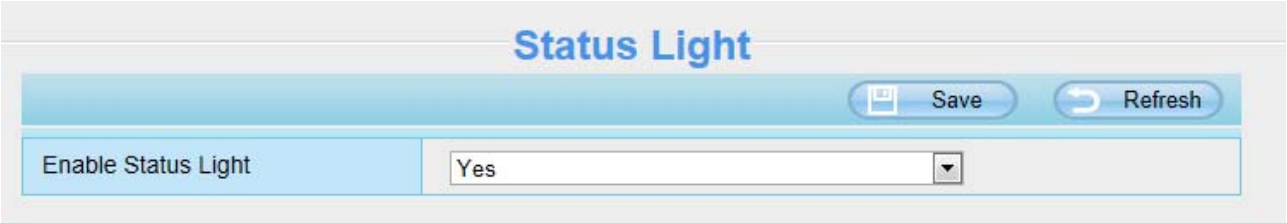


Return to video window. You will see all of the cameras accessible through the internet.
When you are away from home, you can use the first camera's DDNS domain name and port to view all the cameras via internet.



4.3.5 Status Light

You can enable or disable status light.



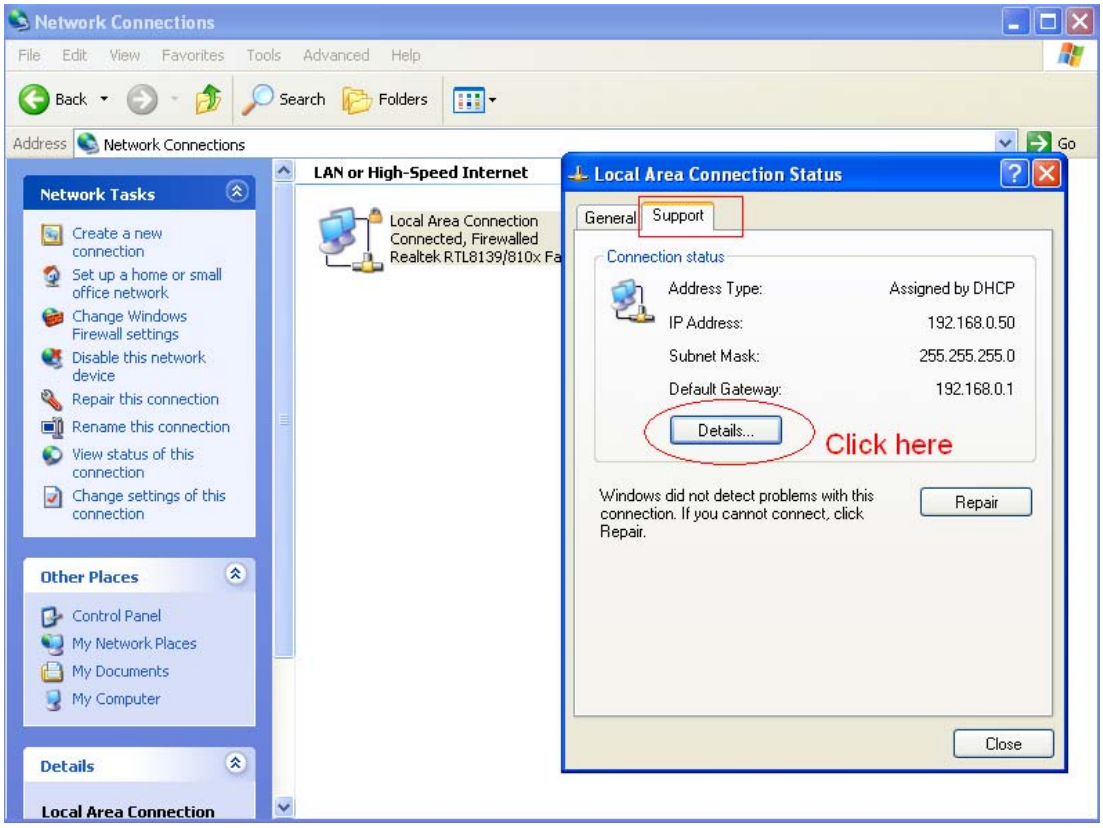
4.4 Network

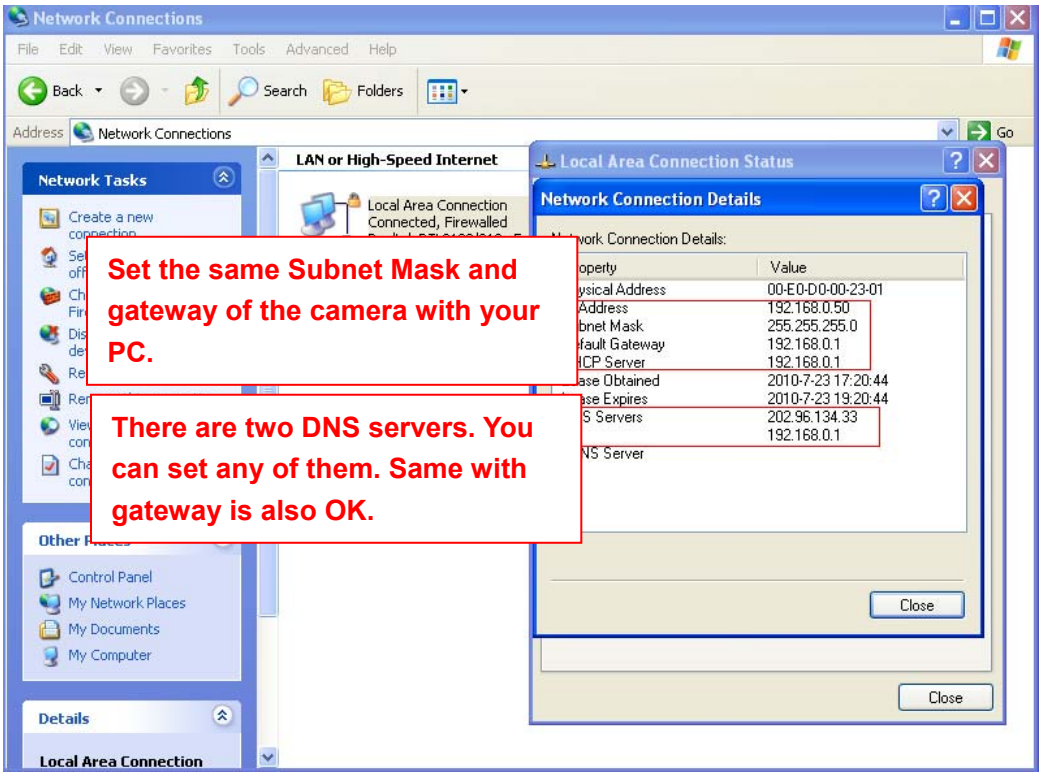
This section will allow you to configure your camera's IP, PPPoE, DDNS, Wireless Settings, UPnP and Port.

4.4.1 IP Configuration

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

Changing settings here is the same as using the IP Camera Tool.
It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area connection as follows:
Control Panel →Network Connections →Local Area Connections →Choose Support →Details





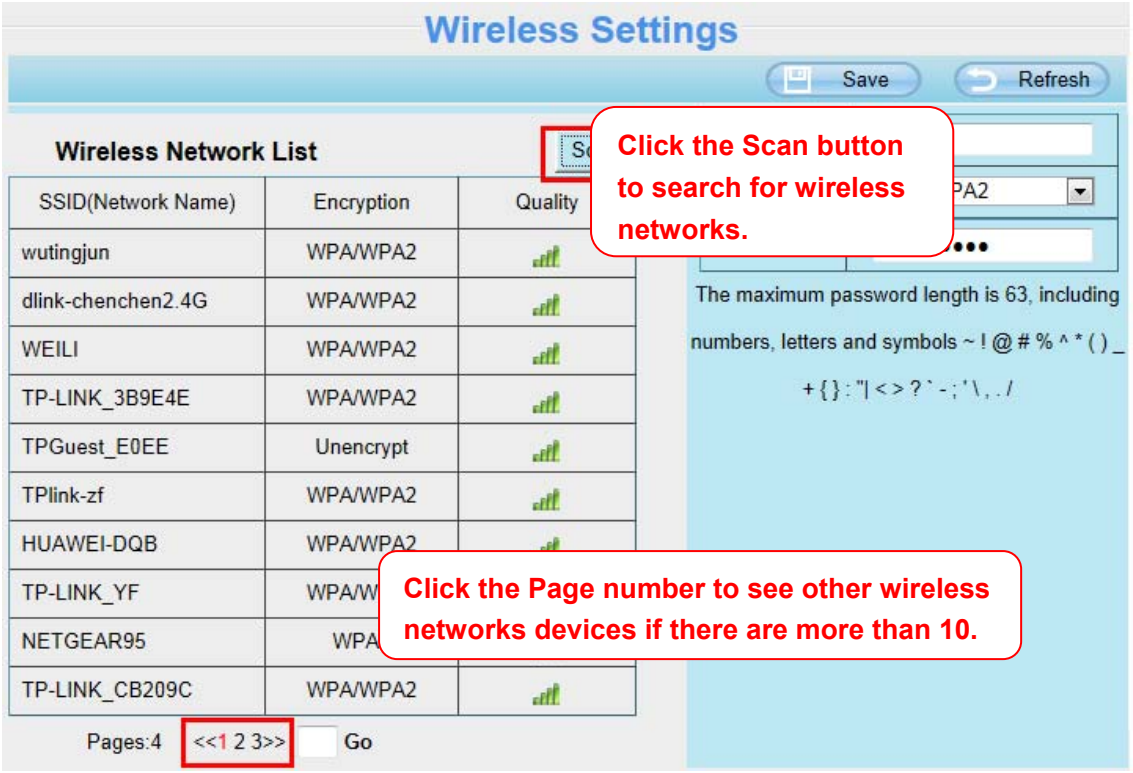
If you don't know the DNS server, you can use the same settings as the Default Gateway.

4.4.2 Wireless Settings

Step 1: Choose **"Settings"** on the top of the camera interface, and go to the **"Network"** panel on the

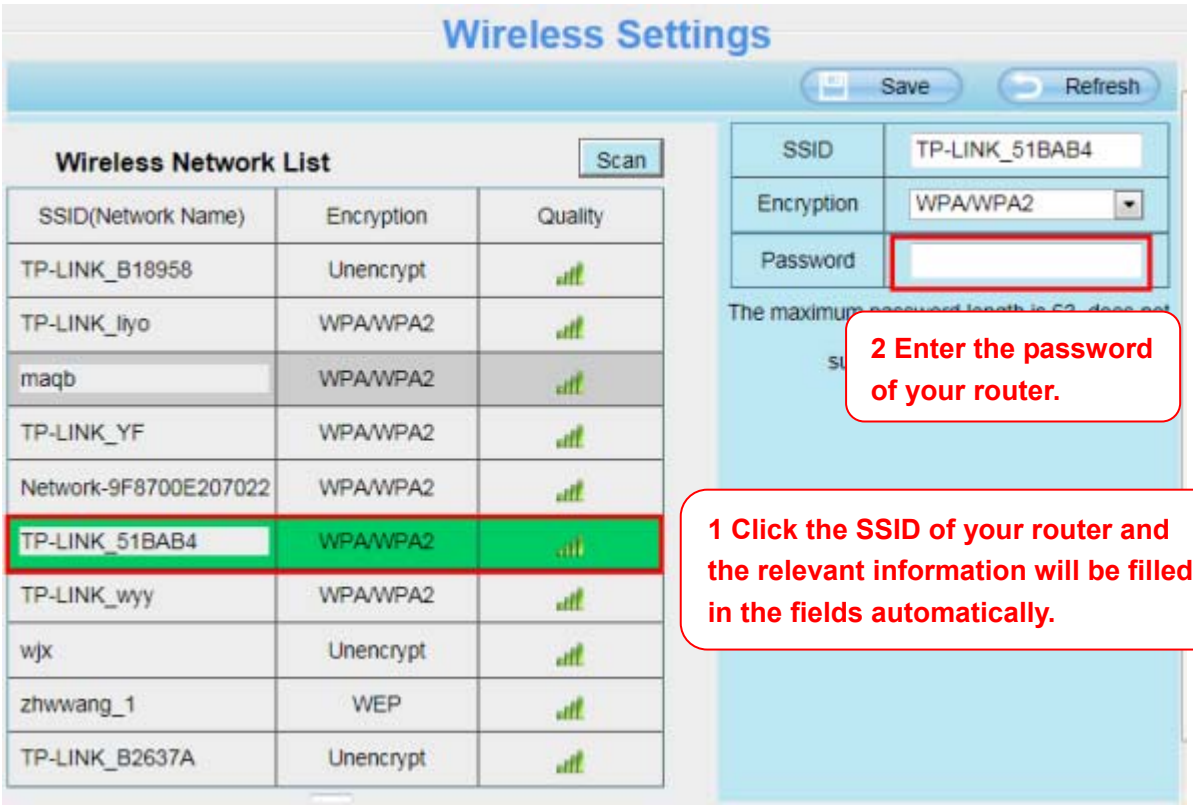
left side of the screen, then click **"Wireless Settings."**

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



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

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



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.

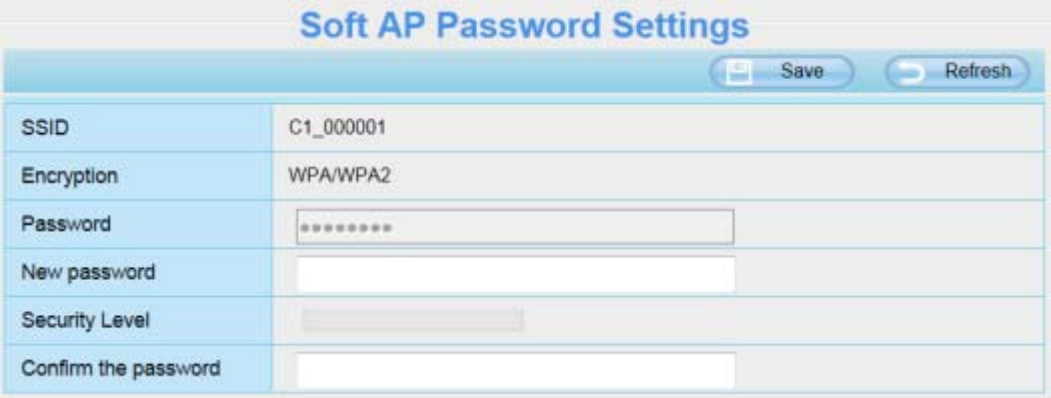
The LAN IP address will disappear on the window of IP Camera Tool when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the window of the IP Camera Tool. The IP address may have changed 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.

4.4.3 Soft AP Password Settings(Only C1)

For the safety of your camera, we recommend you change the Soft AP password.

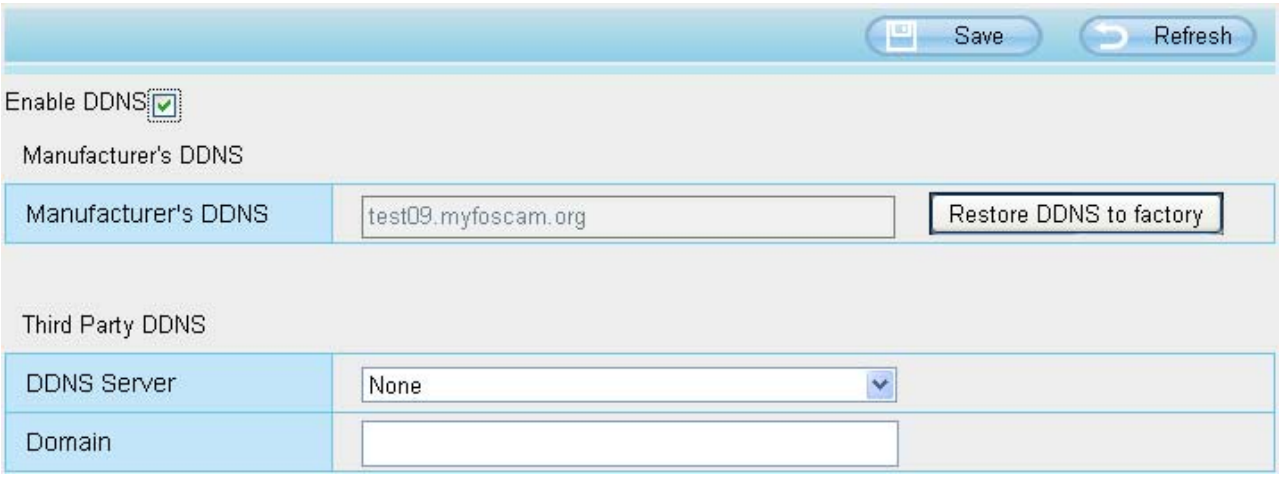


4.4.4 DDNS

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

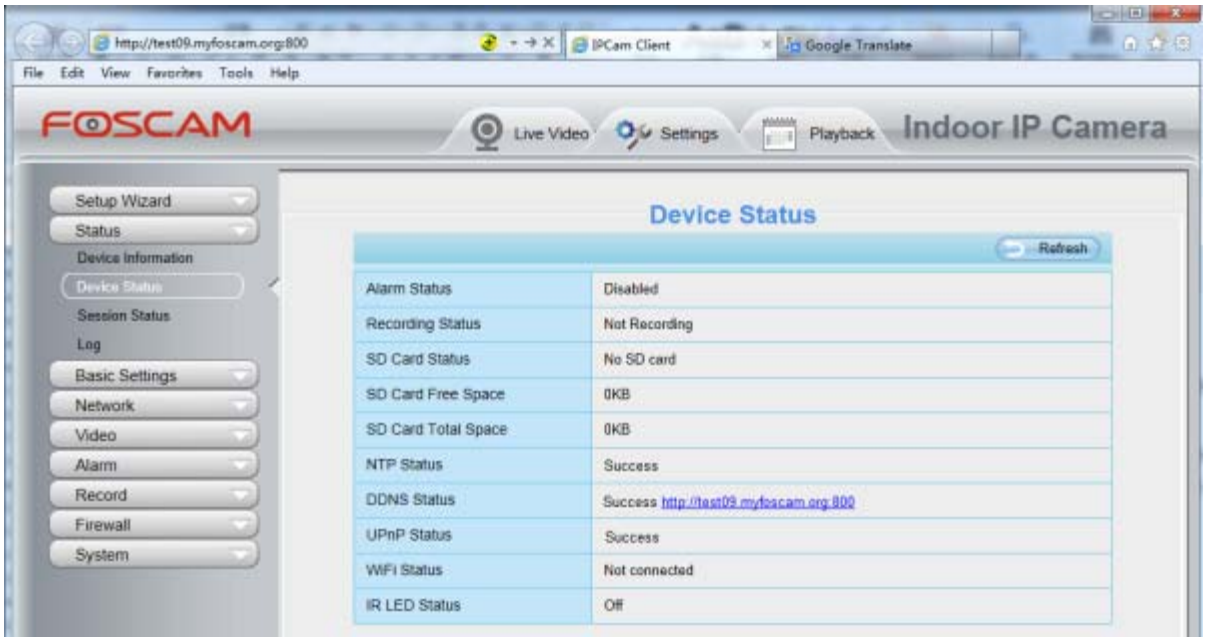
FOSCAM domain name

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



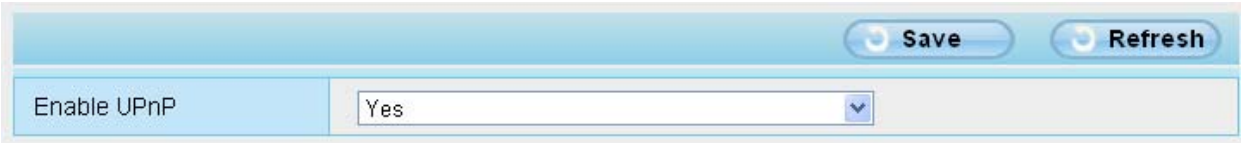
Now you can use http:// **Domain name + HTTP Port** to access the camera via internet.

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



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.
User can also use third part DDNS, such as **www.no-ip.com. ,www. 3322.com**

4.4.5 UPnP



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:

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

your router.

4.4.6 Port

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

HTTP port: By default, the HTTP 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.

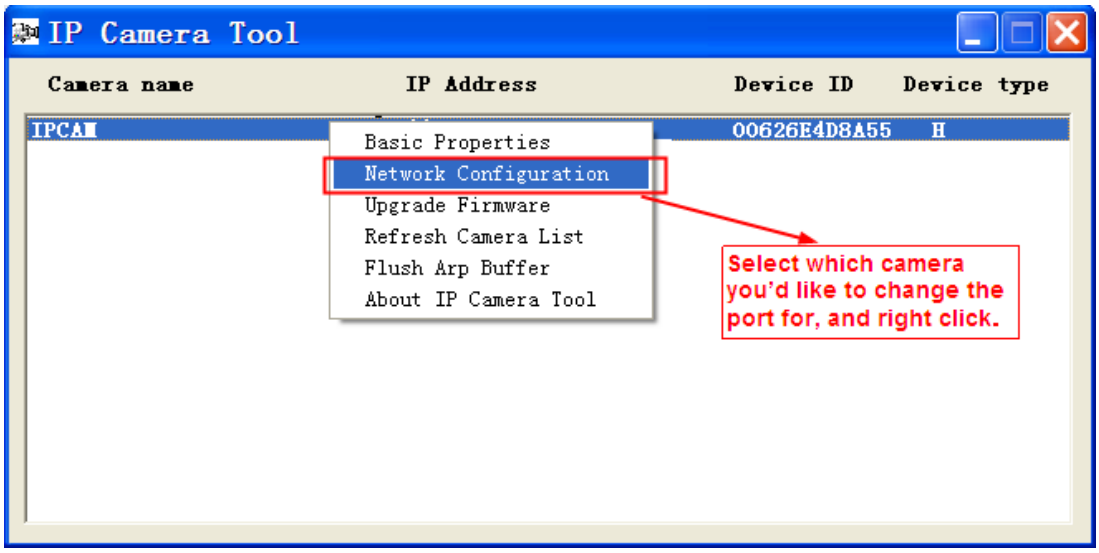
ONVIF port: By default, the ONVIF port is set to 888. Also, they can be assigned with another port number between 1 and 65535(except 0 and 65534). But make sure they can not be conflict with other existing ports.

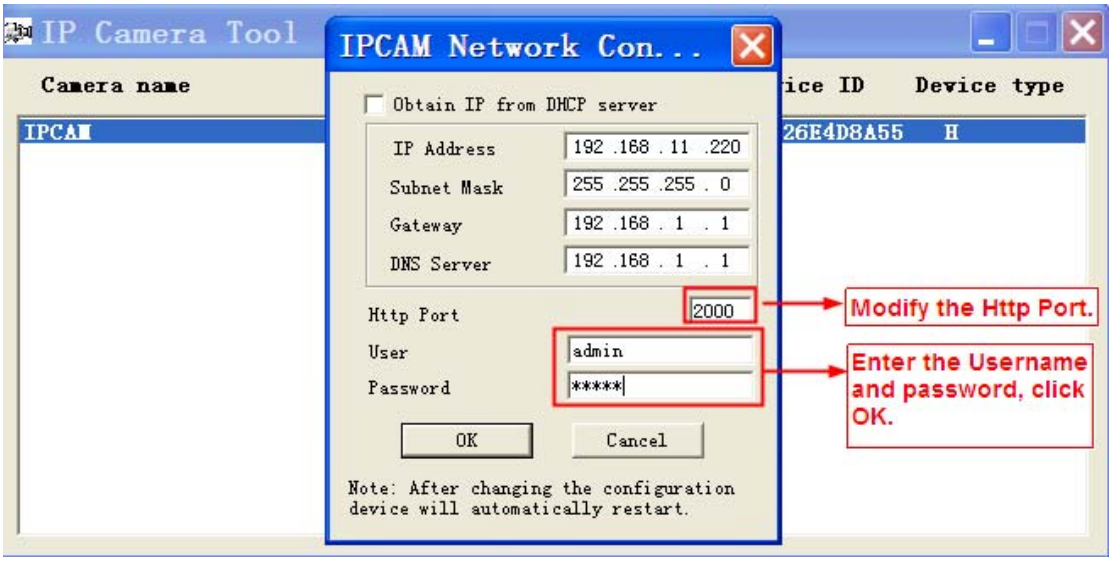
HTTPS port: The default port is 443. You can use the url to access the camera: **https:// IP + HTTPS port.**

RTSP port: The default port is 554. The R2 does not have RTSP port.

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 flowing figures.





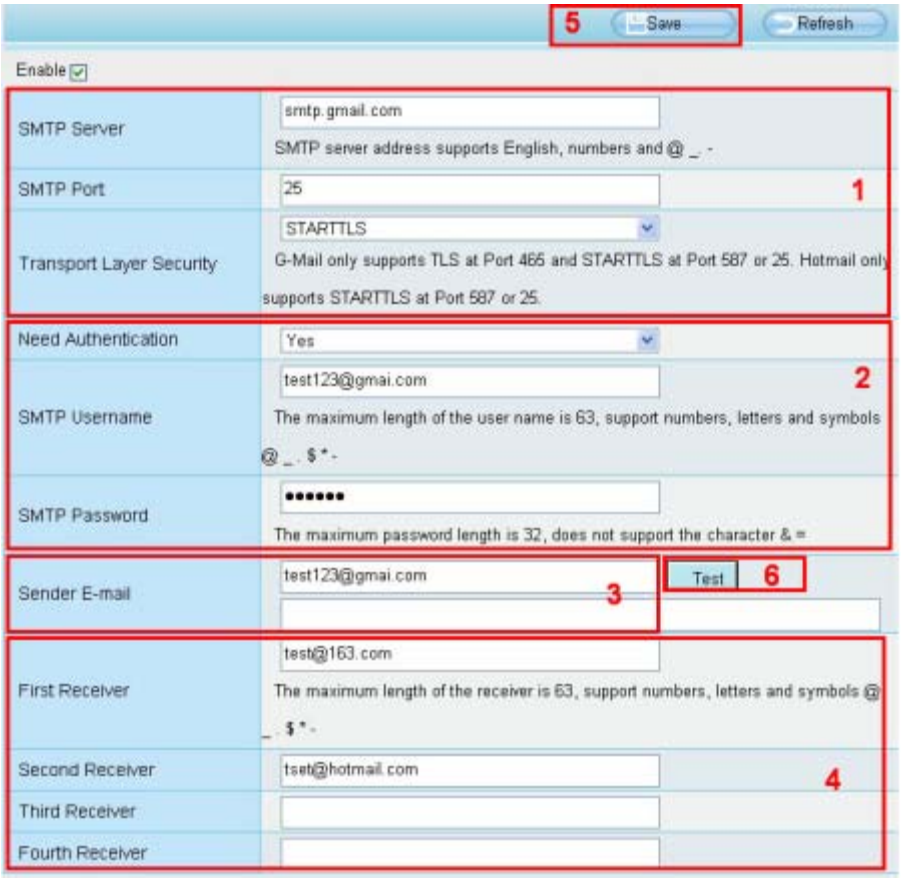
Step 2: Enter the username and password of the Administrator (default username is admin with a blank password), and click "OK" to apply changes.

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!

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

4.4.7 Mail Settings

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



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

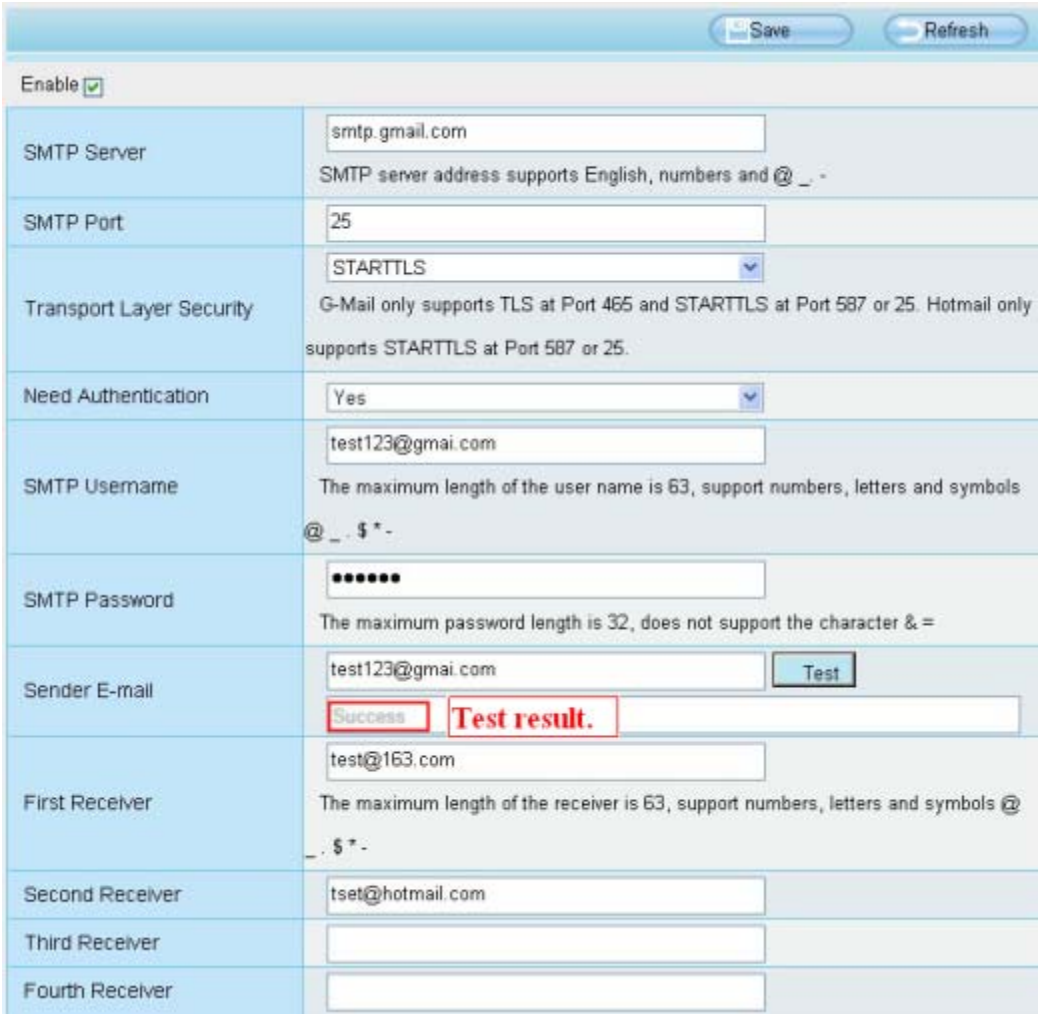
3---- Sender E-mail Mailbox for sender must support SMTP

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.



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

4.4.8 FTP Settings

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

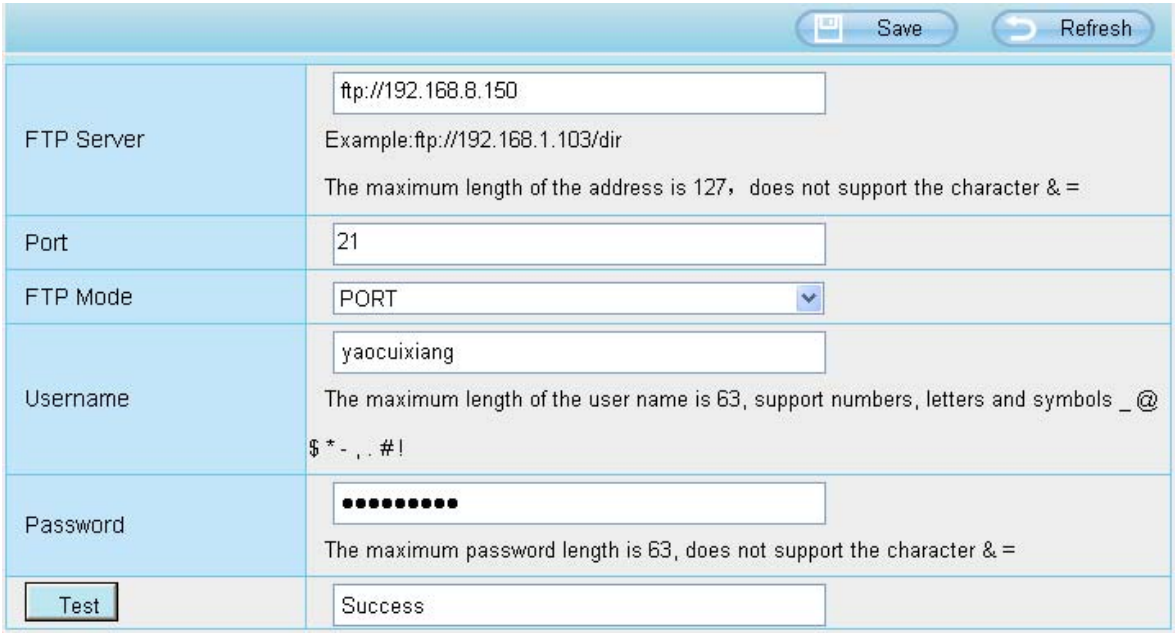


Figure a

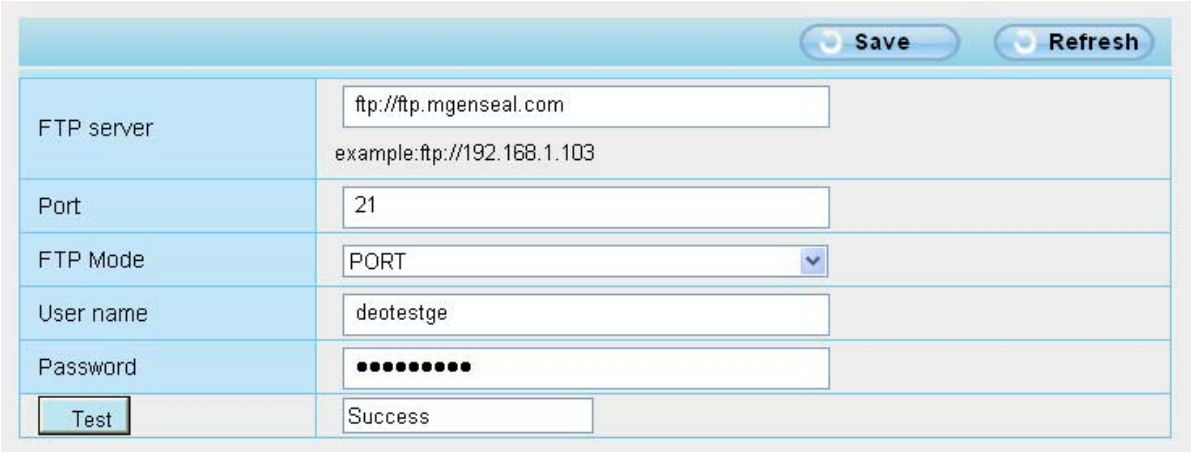
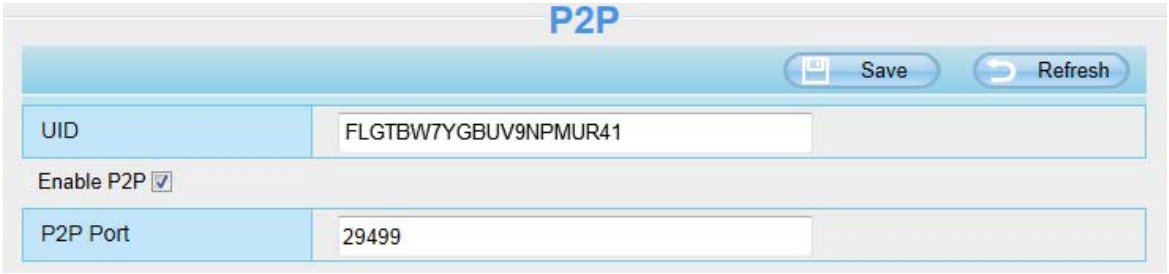


Figure b

FTP server: If your FTP server is located on the LAN, you can set as Figure a.
If you have an FTP server which you can access on the internet, you can set as Figure b.
Port: Default is port 21. If changed, external FTP client program must change the server connection port accordingly.
FTP Mode: Here supports two modes: PORT and PASV.
Username/password: The FTP account and password.
Click **Save** to take effect.
Click **Test** to see if FTP has been successfully configured.

4.4.9 P2P

Access the IP Camera by Smart Phone (Android or iOS operating system)
First of all, you must open the P2P function of the IP Camera at “Settings --> Network --> P2P.”



Foscam App named **Foscam** on App Store and Google Play for iOS and Android devices.

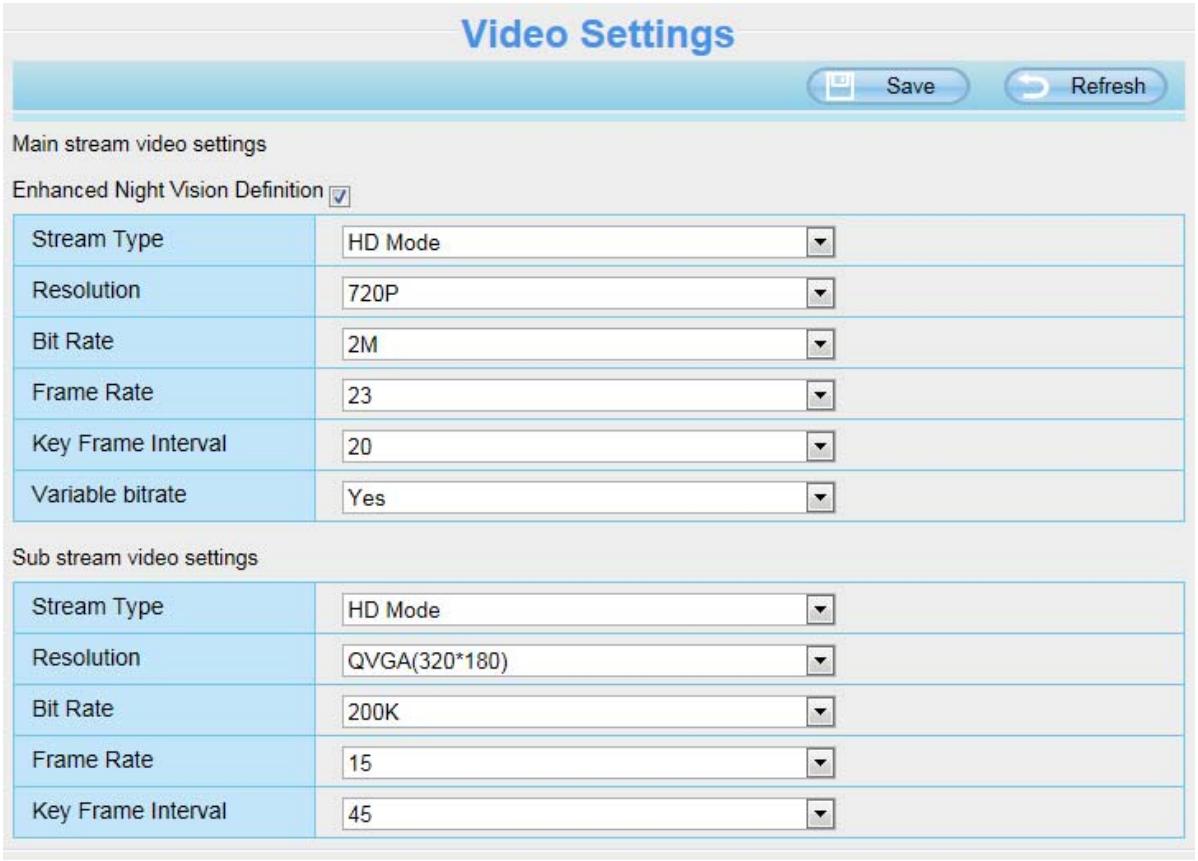
NOTE:
If the QR code scanning is not successful, please input the UID on the bottom of the camera manually.

4.5 Video

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

4.5.1 Video Settings

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



Enhanced Night video Definition(Only C1): The camera will automatically drop the frame to extend the recording time in the night.

Stream Type: There are four types to identify different streams you have set. If select the HD Mode, the clearer video will become, and it will take up more bandwidth; If select the Smooth Mode, the bandwidth is very narrow, and bit rate is large, that will lead to video can not play well. The Equilibrium Model is a value between HD Mode and Smooth Mode.

Resolution: The camera supports multiple types, For example: 960P, 720P, VGA. The higher the resolution is the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth. (The maximum frame rate for each model is different, please see the "Specifications".)

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: You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

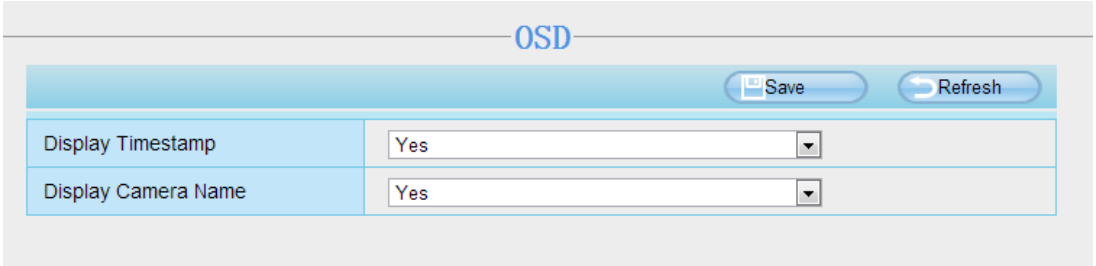
Key Frame Interval: The time between last key frame and next key frame. The shorter the duration, the more likely you will get a better video quality, but at the cost of higher network bandwidth consumption.

Variable bitrate(Only C1): Select the Bit rate type to constant or variable. If select Yes, the camera will change the video bit rate according to the situation, but will not more than the maximum parameter "Bit Rate"; If select No, the Bit Rate is unchanged.

Rate Control Mode(Only R2, C2):There are three rate control modes.
CBR: Constant Bit Rate, it means that the Bit Rate is constant.
VBR: Variable Bit Rate, the camera will change the video bit rate according to the situation, but will not more than the maximum parameter "Bit Rate".
LBR: Low Bit Rate. If you can select the LBR, then you can slide the scroll bar to choose percentage of the bit rate. By reducing the bit rate, so that the camera can obtain a better image at low bandwidth.

4.5.2 On Screen Display

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



Display Timestamp

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

Display Camera Name

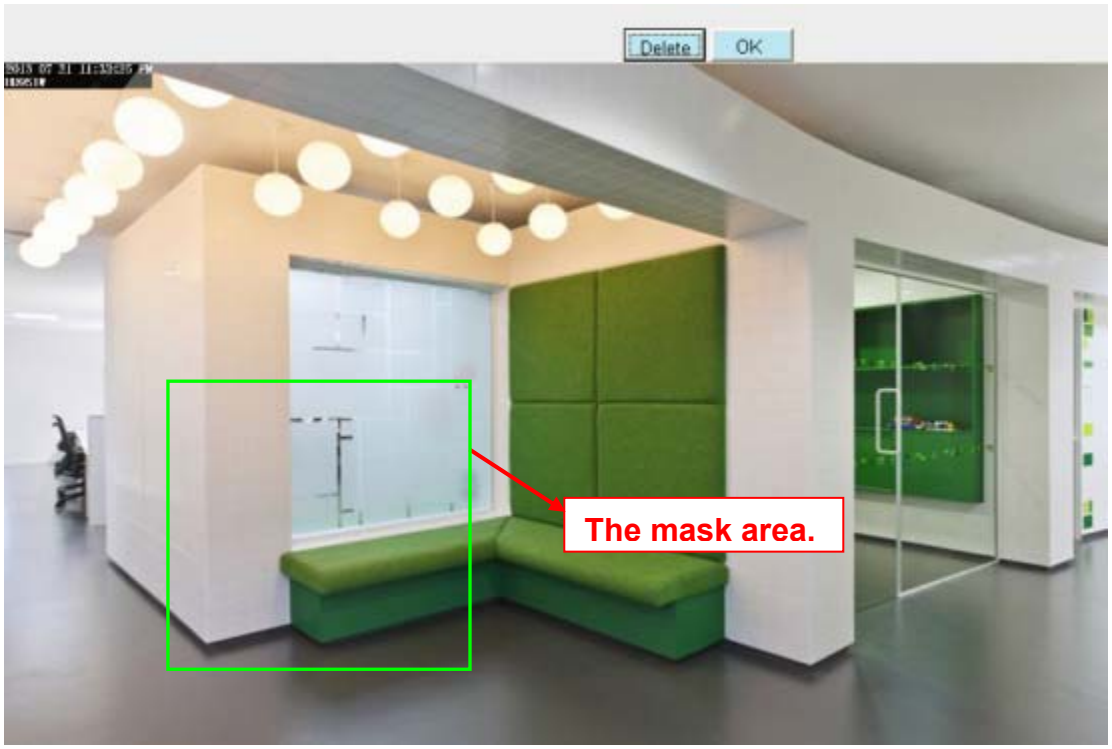
There are two options: Yes or NO. Select Yes and you can see the device name on the video.

4.5.3 Privacy Zone(Only R2, C2)

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

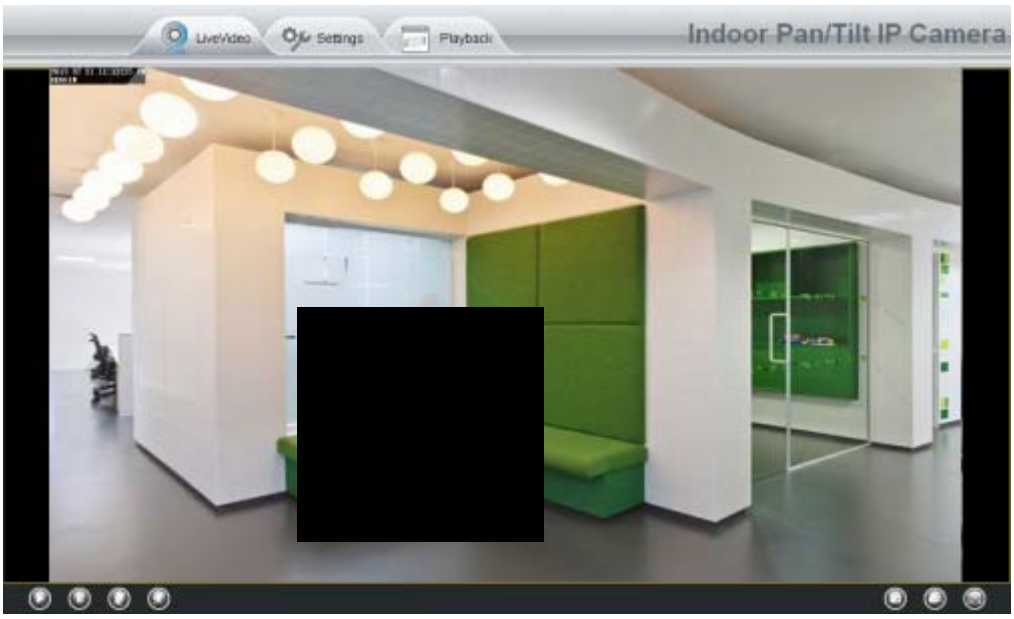
Allow On Screen Display Mask

There are two options: Yes or NO. Select yes and draw a mask area on the video, the mask area will be black on the video.



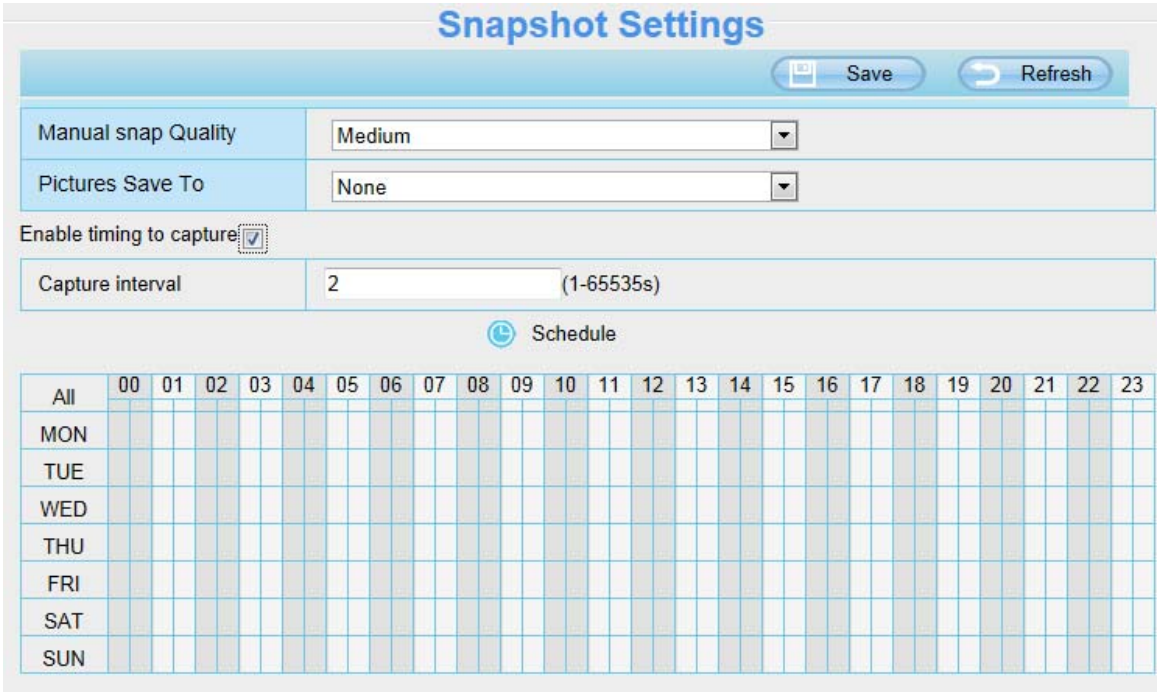
Click **OK** button and return to the OSD page, click Save to take effect.

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



4.5.3 Snapshot Settings

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



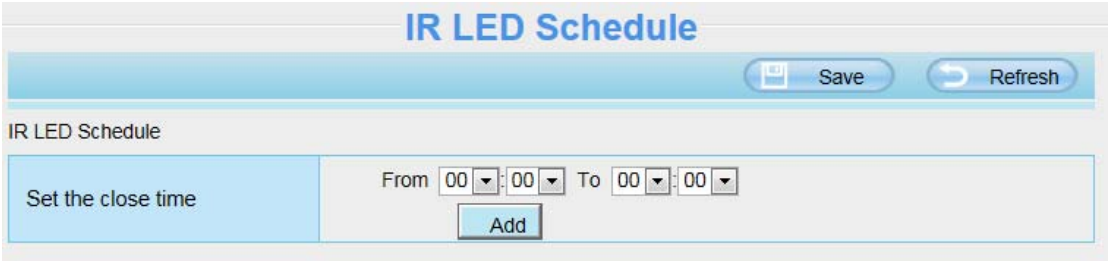
Manual snap Quality: Low, Middle and High. The higher the quality, the picture will be clearer.
Pictures Save To: FTP or SD card. If you have done FTP and Alarm settings, when alarming, the camera will snap pictures to the FTP or SD card automatically.
Enable timing to capture
To enable capture interval, follow the steps below:
1 Select **Enable Motion detection**
2 Capture interval: The interval time between two captures.
3 Select the capture time

- Capture anytime
  Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the camera will capture.
- Specify an capture schedule
  Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, the camera will capture.
- Press the left mouse and drag it on the time boxes, you can select the serial area,

4 Click Save button to take effect.

4.5.4 IR LED Schedule

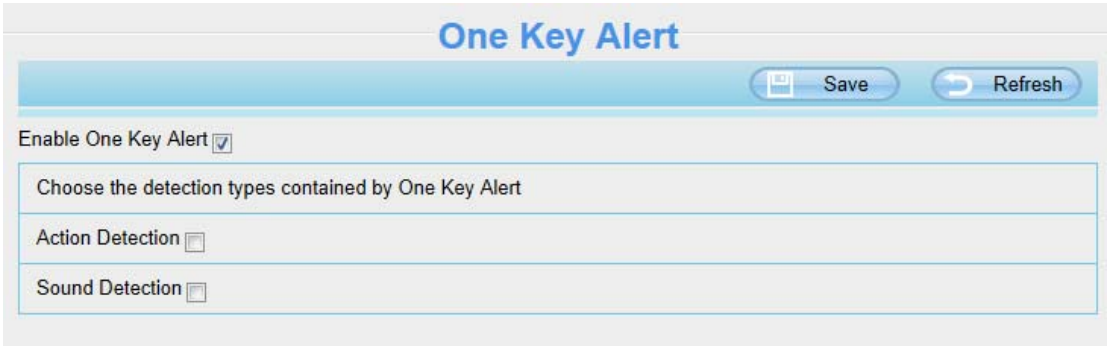
On this page you can set the schedule time for switching IR LED lights. When parameter Mode is set to the **Schedule** on the **Live Video** window, at these schedule time, the IR LED lights will be turned off.



4.6 Alarm

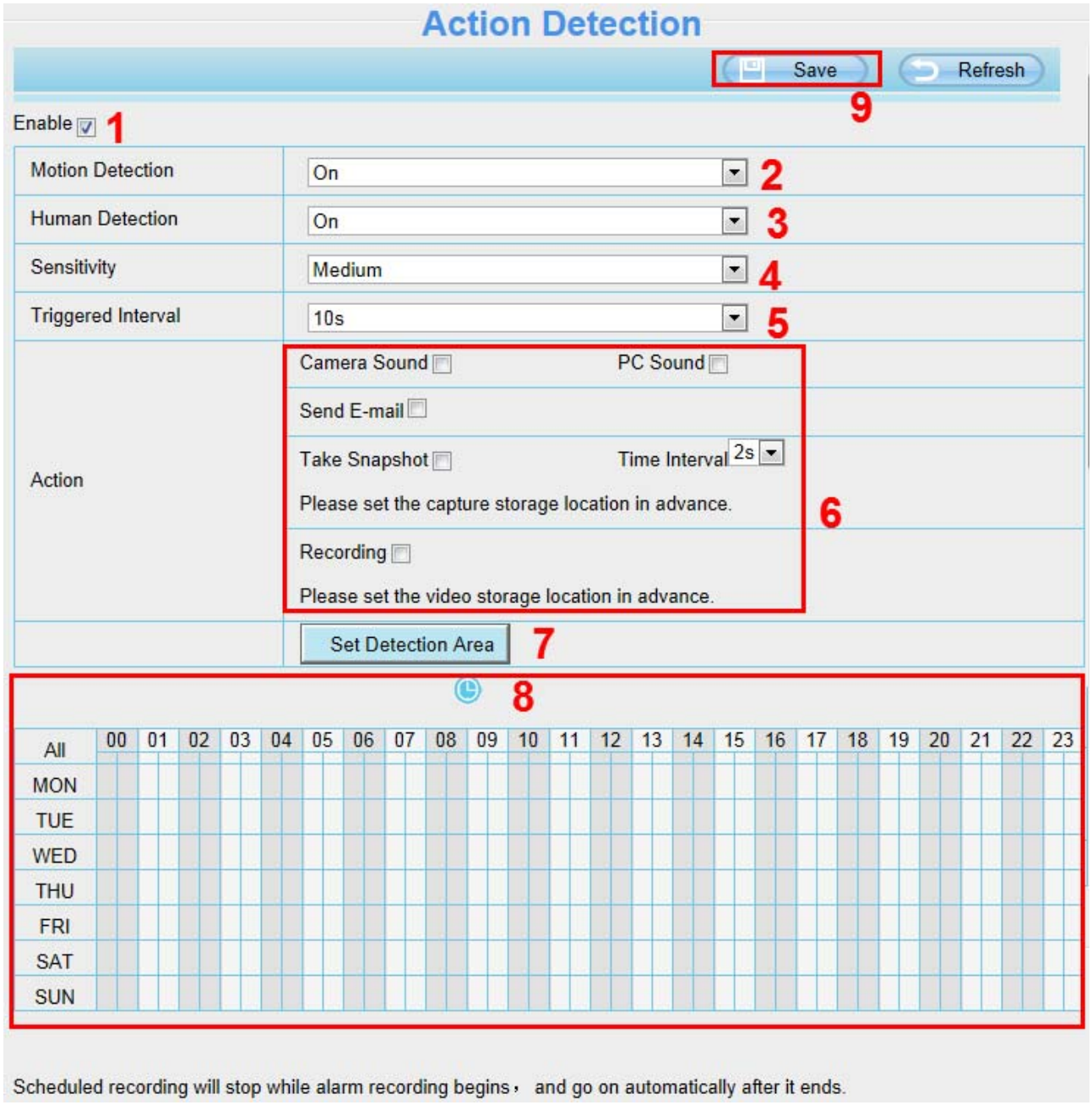
4.6.1 One Key Alert(Only R2, C2)

On this page, you can turn on or off the alarm function you need.



4.6.2 Action Detection

IP Camera supports **Action Detection Alarm**, when the people has been detected, the IP Camera will make a alarm.



Step 1: Enable Action detection function.

Step 2: Select the “on” from the dropdown box to activate the motion detection alarm.

Step 3: Select the “on” from the dropdown box to activate the human detection alarm.

Step 4: Sensitivity---- It supports five modes: Lowest, Lower, Low, Medium and High. The higher the sensitivity, the camera will be more easily alarmed. Select one motion sensitivity.

Step 5: Trigger interval--- The interval time between two motion detection.

Step 6:There are some alarm indicators:

A Camera Sound and **PC Sound**

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

B Send E-mail

If you want to receive alarm emails when motion is detected, you must select Send E-mail and set Mail Settings first.

C Take Snapshot

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

Time interval: The interval time between two pictures.

D Recording

If you select this checkbox, when the motion has been detected, the camera will record automatically and store the record files to the SD Card. Make sure the camera has inserted SD card and you have set the SD card as the Alarm record files storage path, please go to **Record—> Storage location** page to verify this settings.

The default alarm record time is 30s and pre-alarm record time is 5s, please go to **Record—> Alarm Record** page and change the alarm time settings.

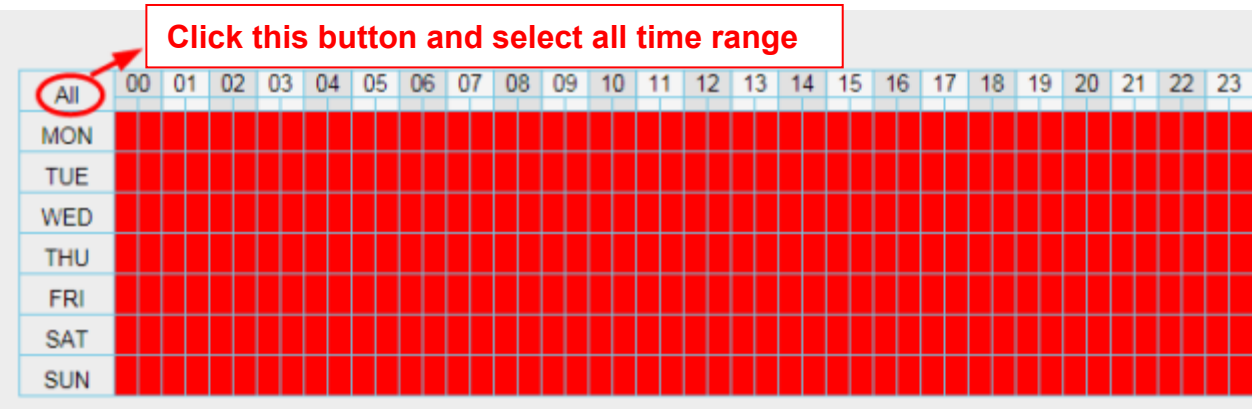
Step 7: Set detection area

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

Step 8: Alarm Schedule

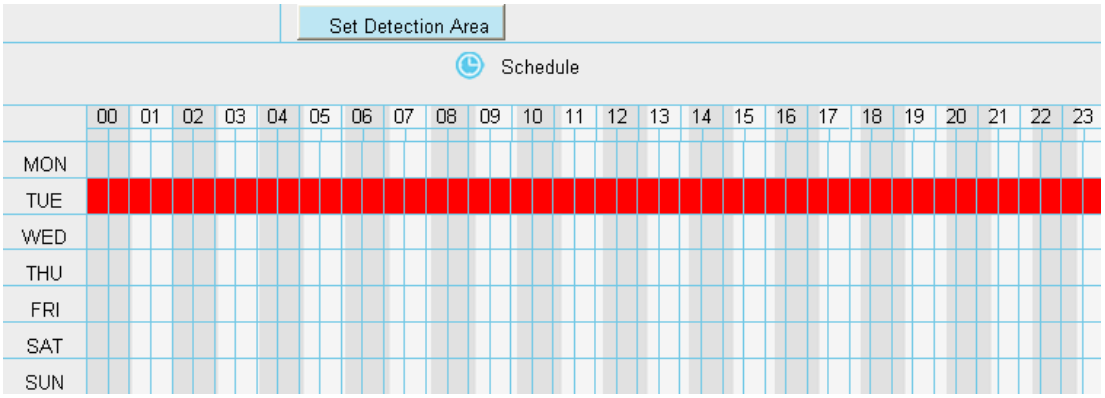
① Alarm anytime when motion is detected

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.

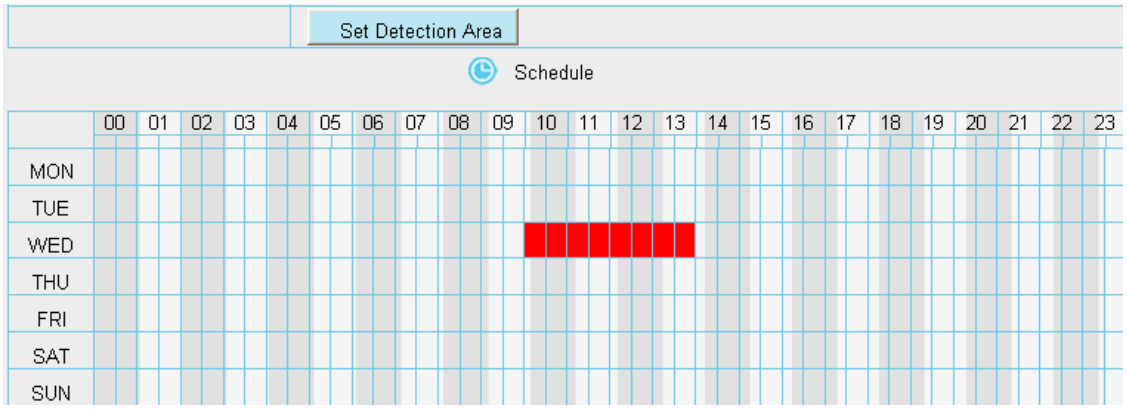


② Specify an alarm schedule

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.



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



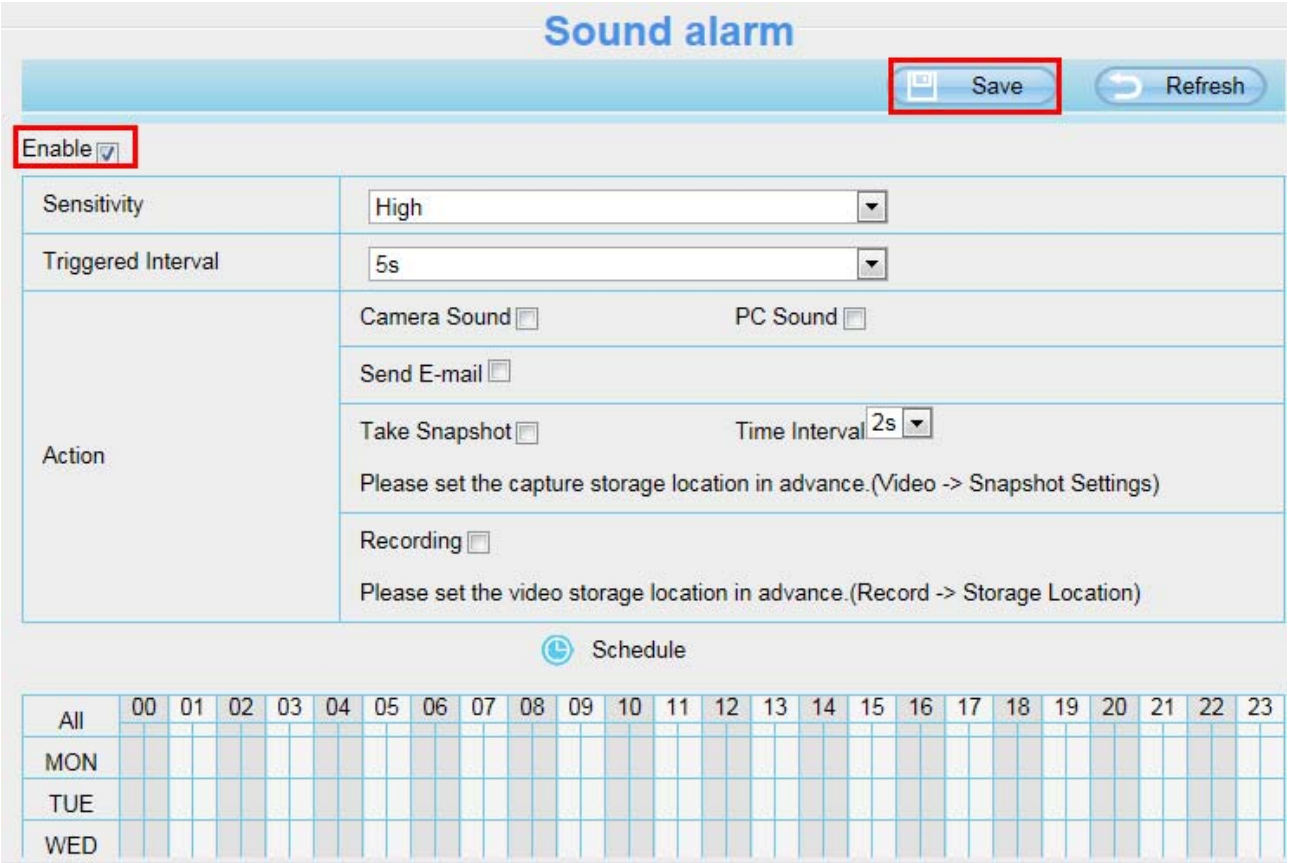
Step 9: Click Save button to take effect.

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

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

4.6.3 Sound alarm(Only R2, C2)

When the ambient sound over a certain decibel ,the sound alarm will be triggered.



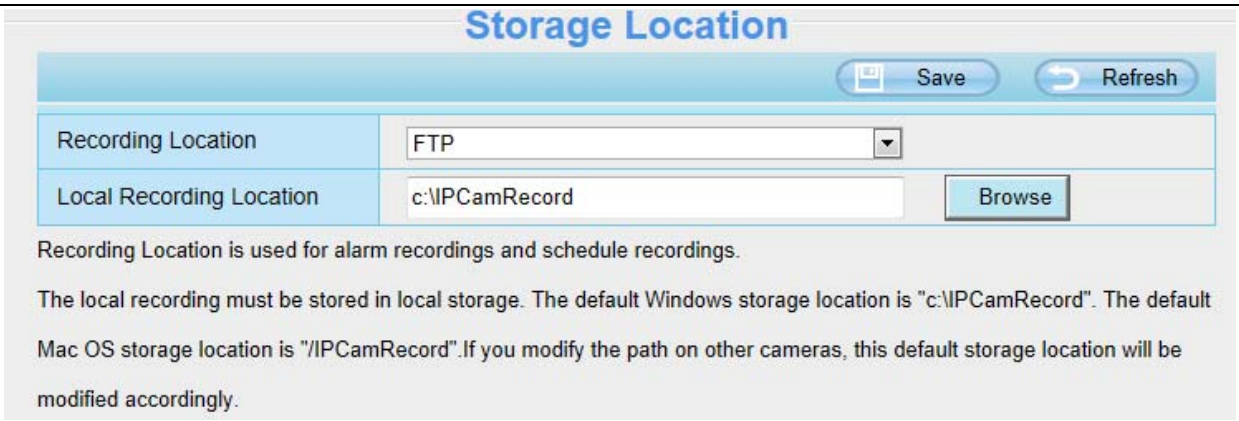
If the Sensitivity is set to “High”, the camera will detect the sound whose more than 55db.
If the Sensitivity is set to “Medium”, the camera will detect the sound whose more than 65db.
If the Sensitivity is set to “Low”, the camera will detect the sound whose more than 75db.
If the Sensitivity is set to “Lower”, the camera will detect the sound whose more than 85db.
If the Sensitivity is set to “Lowest”, the camera will detect the sound whose more than 95db.

4.7 Record

This section will allow you to change the record files storage path and the record time.

4.7.1 Storage Location

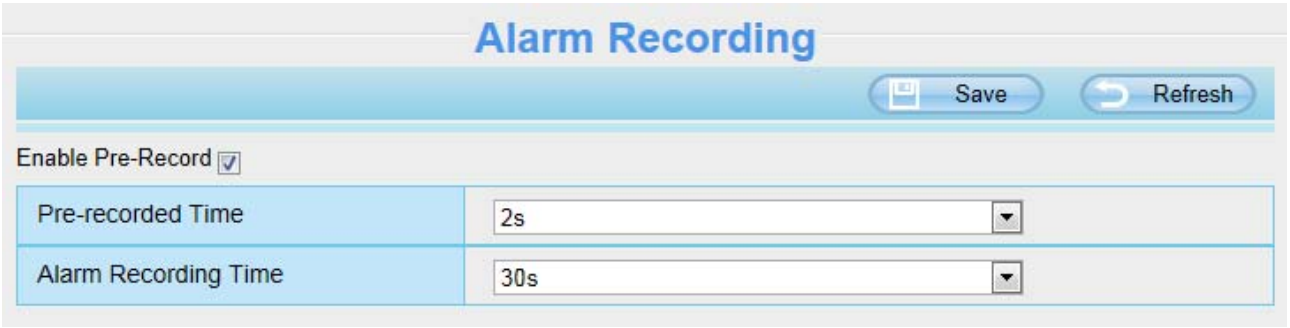
On this page you can change the alarm and manually recording storage path.



Recording Location : SD card or FTP. **Make sure the camera has been inserted the SD card**. On this page, you can see the available space of the SD card.

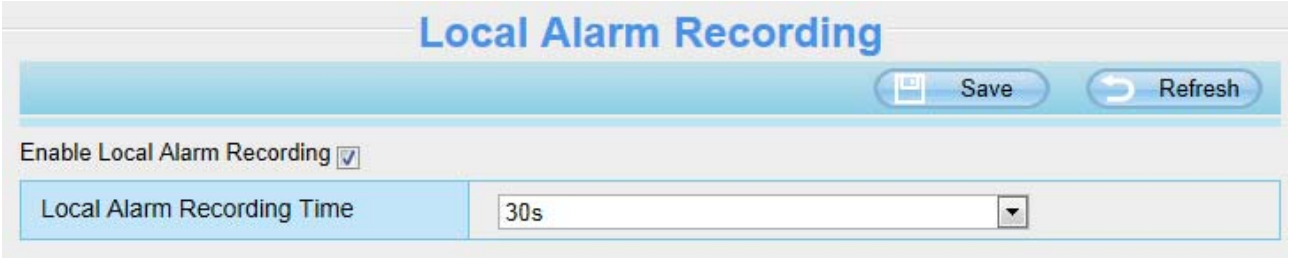
Local Recording Location: For Windows OS, the manual recording path is C:/ IPCamRecord, you can change another one. For MAC OS, the manual recording path is: / IPCamRecord.

4.7.2 Alarm Recording



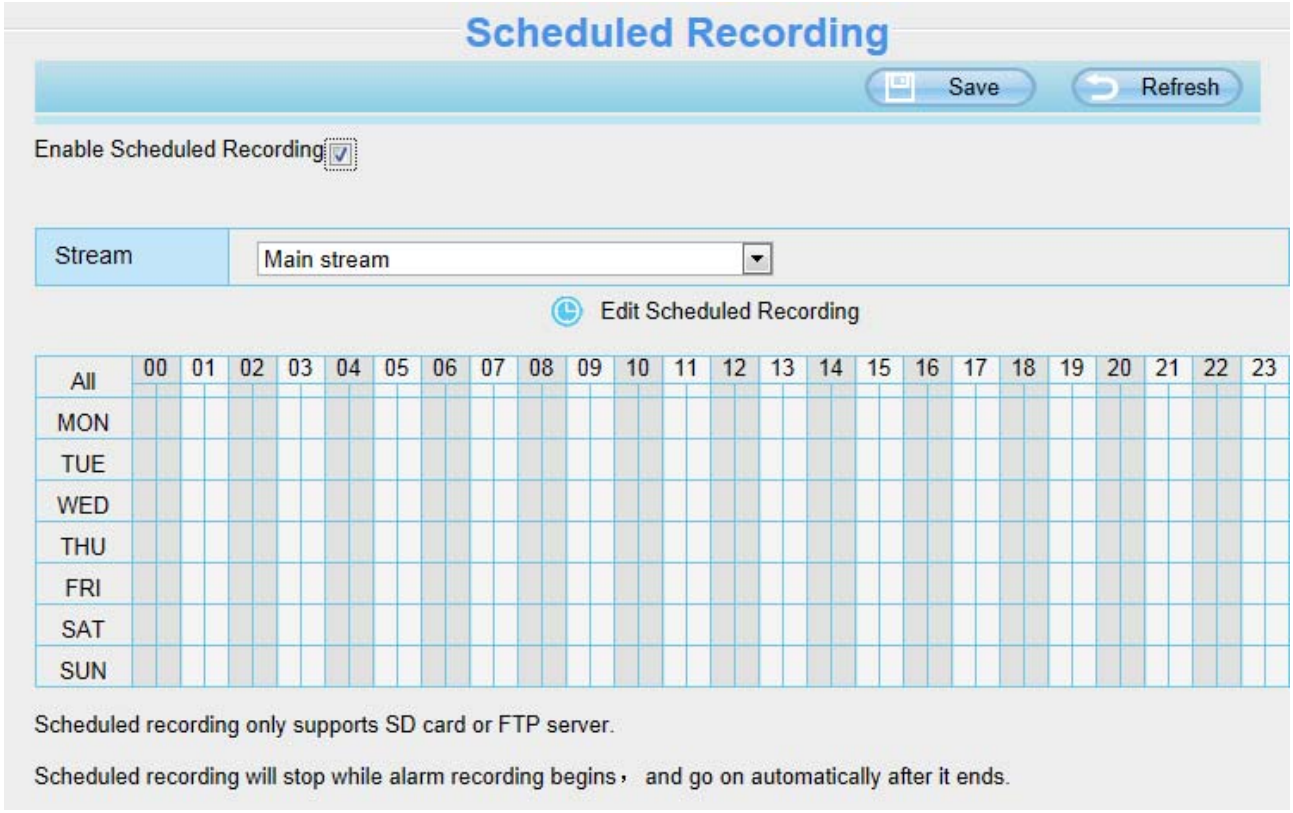
4.7.3 Local Alarm Recording

This page you can enable the local alarm record and Local Alarm record time.



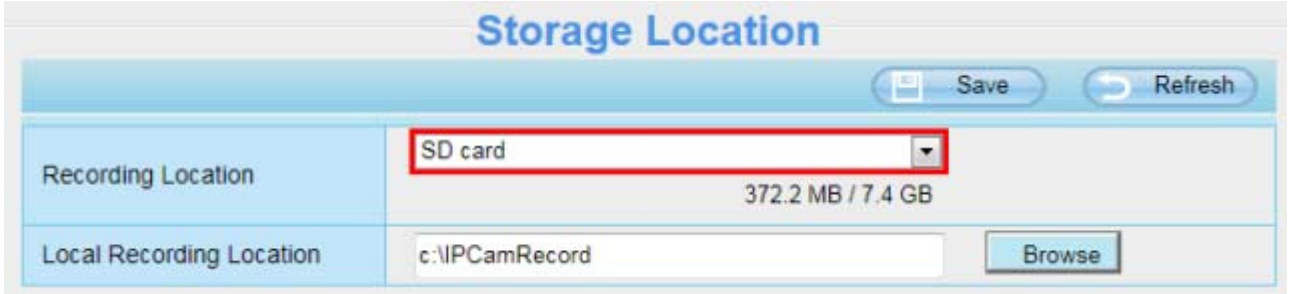
4.7.4 Schedule Recording

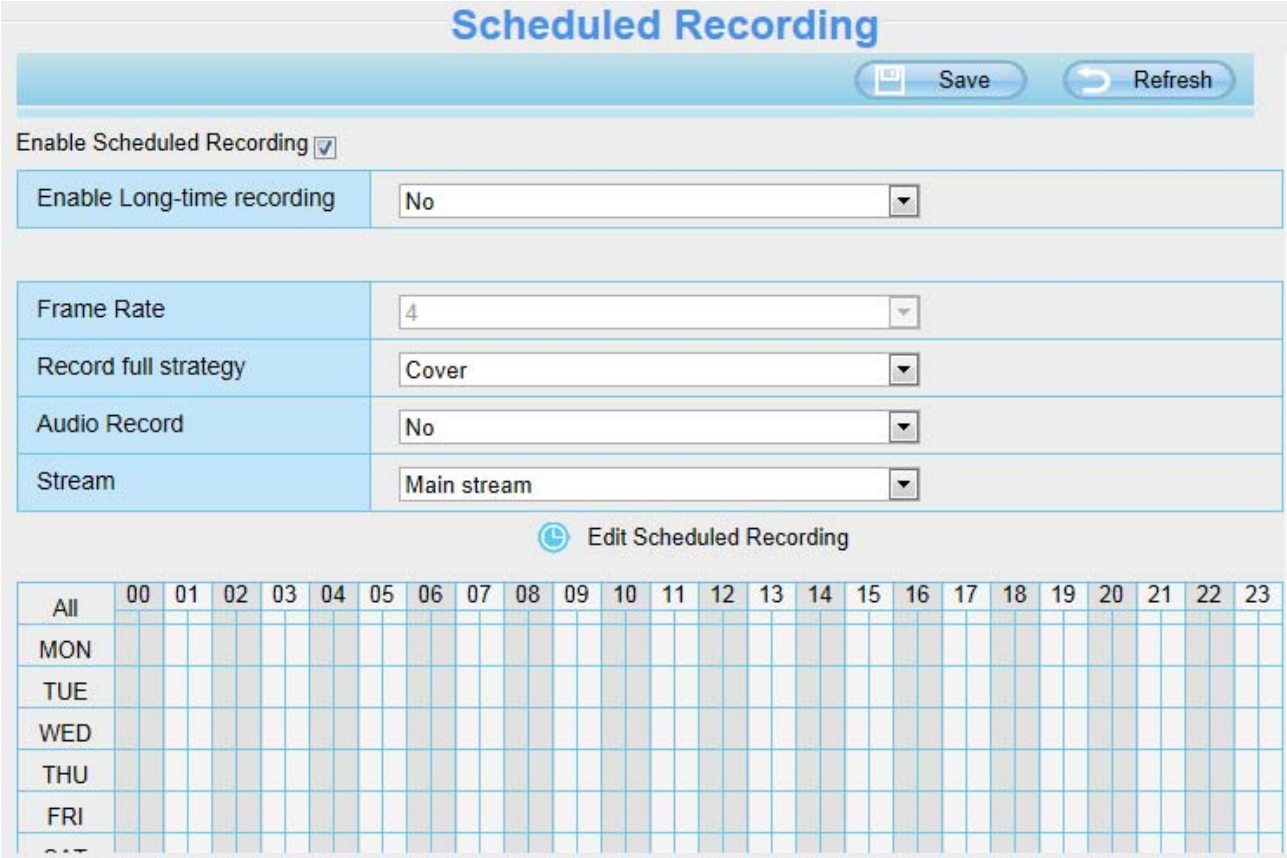
When the video is selected as FTP, the device supports scheduled recording.
When the parameter **Recording Location** is set **SD Card** on the **Storage Location** page, you can configure parameters as shown in follow figure.



When the video is selected as SD card, the device supports pumping frame recording.

When the parameter **Recording Location** is set **SD Card** on the **Storage Location** page, you can configure parameters as shown in follow figure.





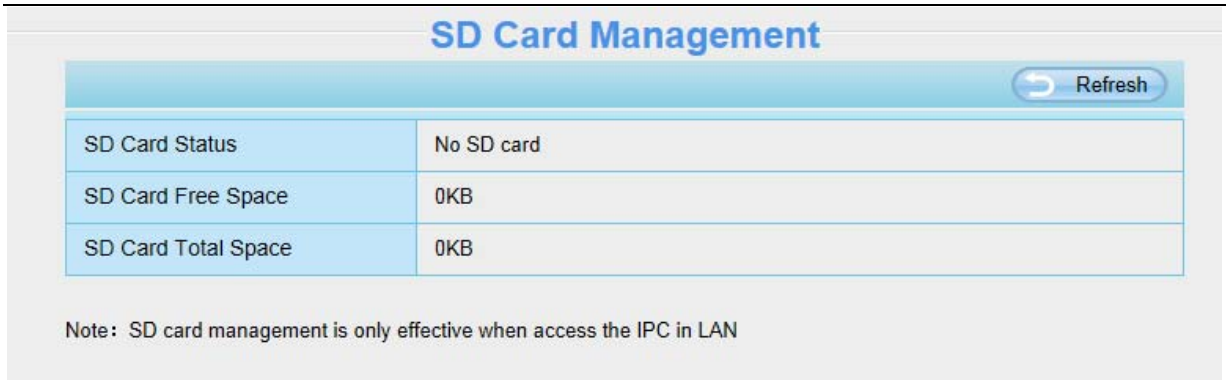
Frame Rate: There are six frame selections, such as 1/30, 4/30, 8/30, 15/30, 24/30, 30/30. Recommended default is 4/30. The greater the Frame rate is, the sharper picture quality is, and the greater of storage space is, the shorter the storage time is.
Record full strategy: When the SD card is full, you can choose to cover the previous recording, or stop recording.
Audio Record: You can choose "yes" or "no".

NOTES:

- Scheduled recording only supports video saved to the SD card or FTP server.
- The schedule recording will stop while alarm recording is beginning, and it will continue automatically after alarm recording end.
- You can refer to "alarm schedule." in "Alarm" about editing the time of recording Schedule.

4.7.5 SD Card Management

This camera supports SD Card and the max size of SD card must be under 32G.
When you plug in the SD card during the camera work process, please reboot the camera again, or else the SD Card may be cannot work well.



The default storage path of alarm record files is SD card, when the available size of SD card is less than 256M, the old record files will be deleted automatically.

4.8 PTZ(Only R2)

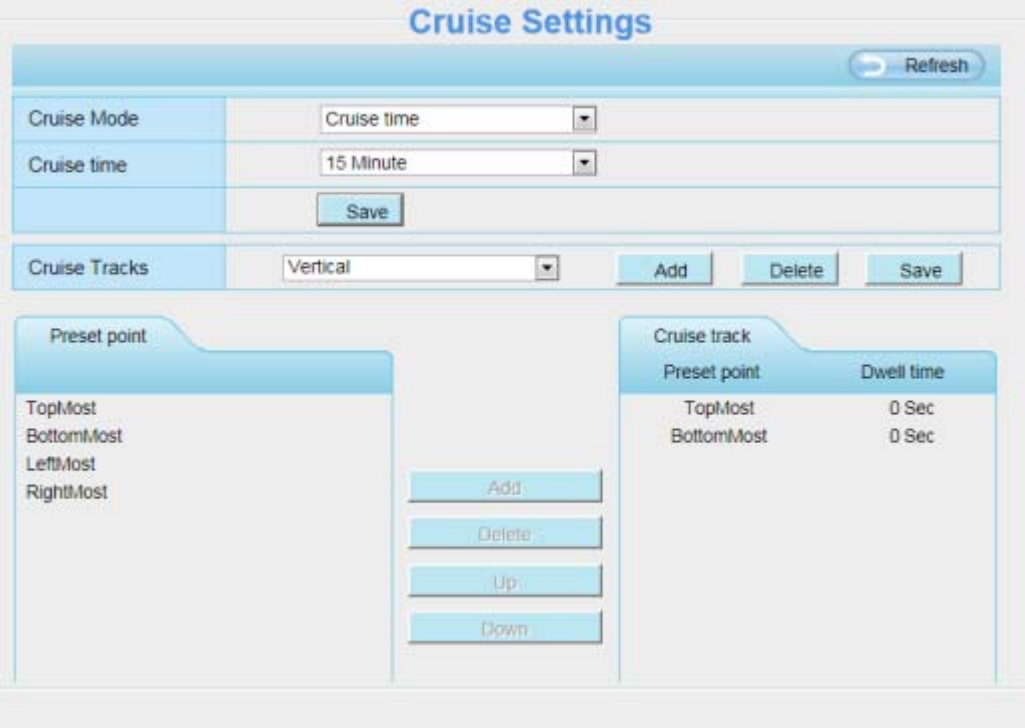
This page will allow you to change the pan/tilt speed and do cruise tracks settings.

4.8.1 Pan & Tilt Speed

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

4.8.2 Cruise Settings

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



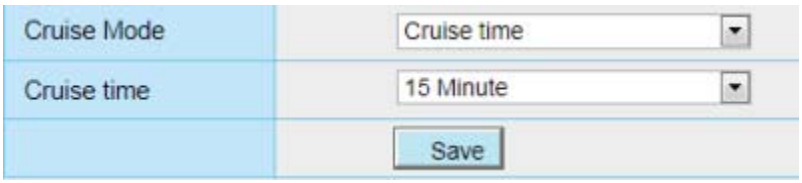
Setting the Cruise Mode

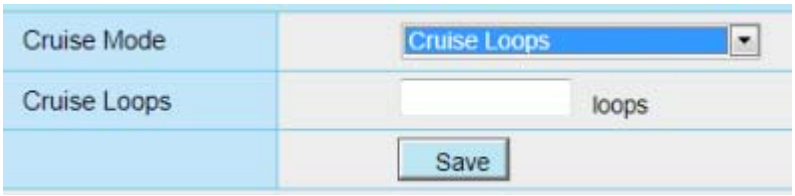
There are two cruise mode: Cruise time and Cruise Loops.

Cruise time: Select **Cruise time** from **Cruise Mode** drop-down, then you can set the **Cruise time** of the camera.

Cruise Loops:Select **Cruise Loops** from **Cruise Mode** drop-down, you can set the **Cruise Loops** of the camera.

Click **Save** to take effect.





Manage the Cruise Track

There are two default cruise tracks: Vertical and Horizontal.

Vertical: The camera will rotate from up to down

Horizontal: The camera will rotate form left to right.

Add: Add one cruise track, then click save button.

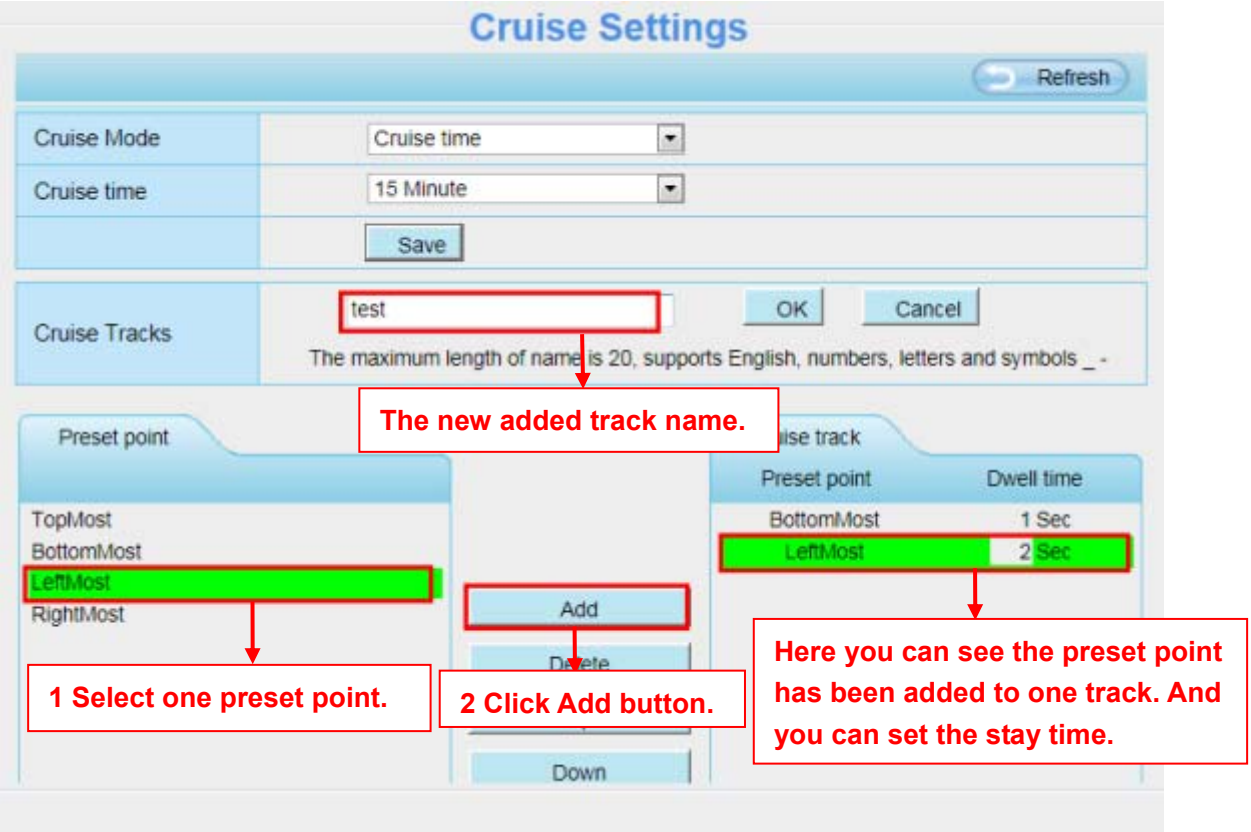
Delete: Select one cruise track and delete it.
Save: After you modify the **Dwell time**, you should click **Save** button to take effect.

Example

How to do add cruise tracks ?

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

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

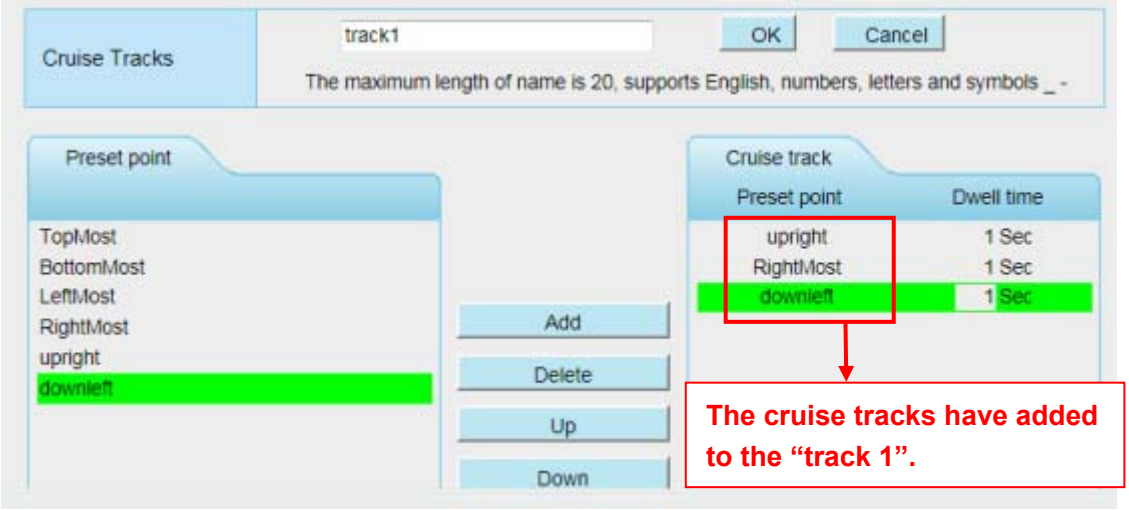


Thirdly: Click **OK** button and the cruise track will take effect.

You can add other cruise track as the same method.

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

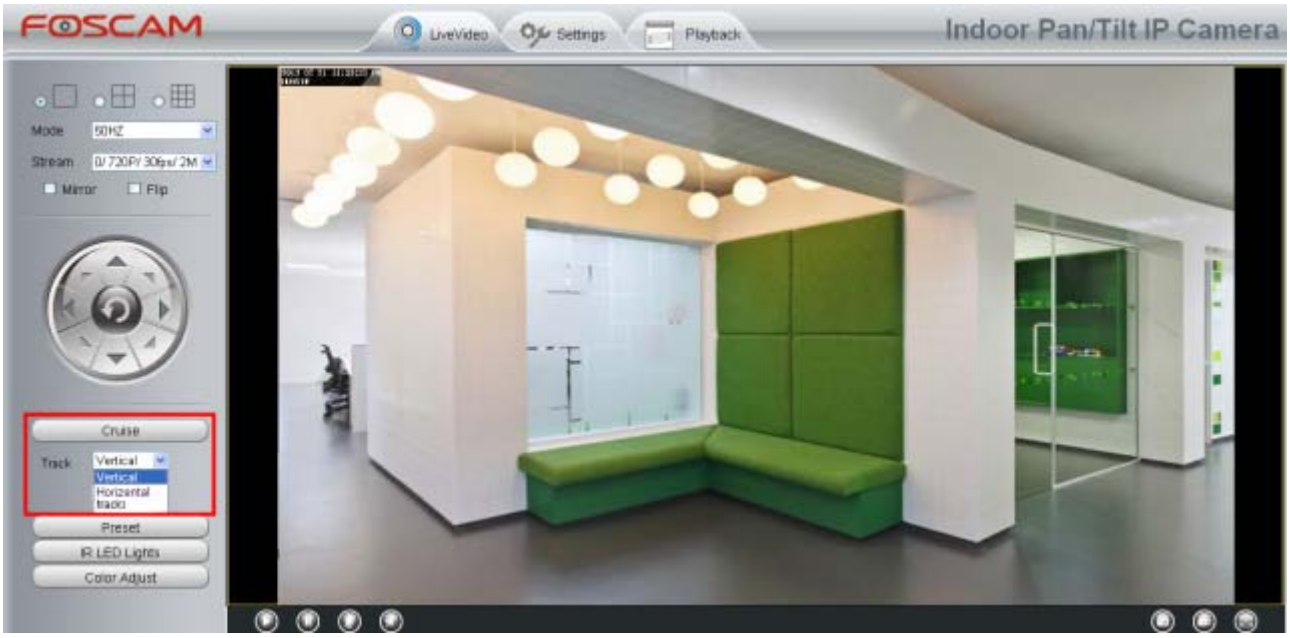
Add the preset.



The cruise tracks have added to the “track 1”.

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

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



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

Add: Select one preset points and add it to the selected cruise track.
Delete: Select one preset points you have added to one cruise track, click delete.
Move up/ down: Select one cruise track, adjust the order of preset points in one cruise track.

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

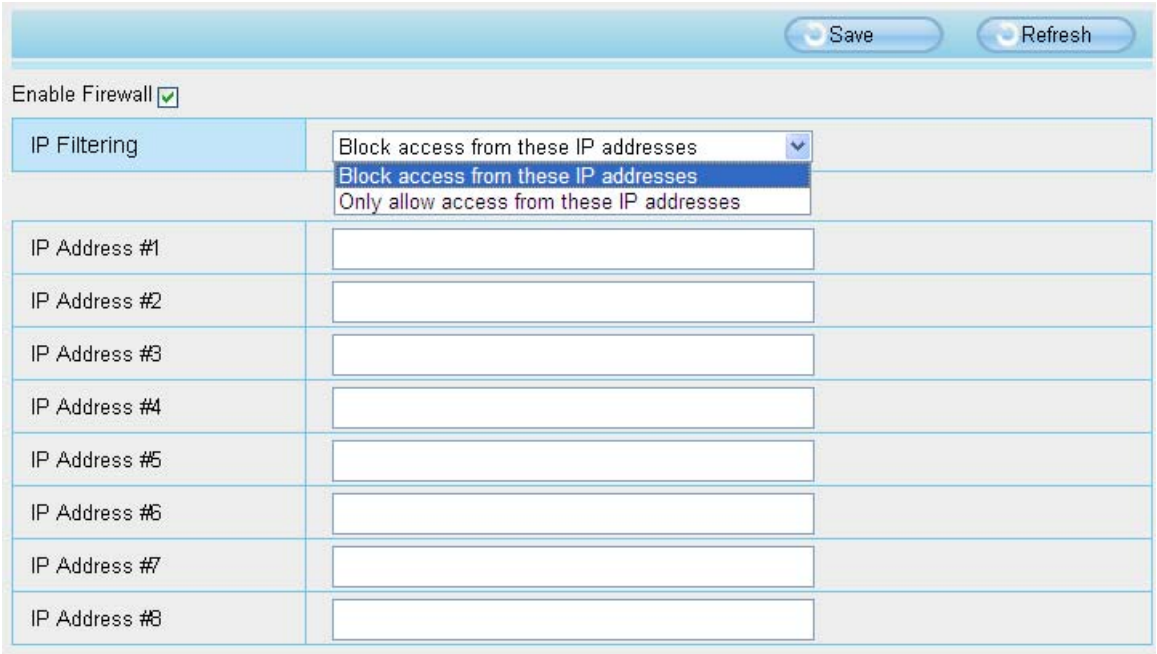
4.8.3 Start-Up Options

Here section will allow you to set the stop position after the camera reboots.
It supports three modes: No self test, Goto home position and Goto preset point.
No self test: When rebooting, the camera will not pan / tilt.
Goto home position: When rebooting, the camera will pa Providing Central Management Software to manage or monitor multi-cameras n / tilt and stops at center.
Go to Preset point: Select one preset position and save it. When rebooting, the camera will pan/ tilt and

stops at the preset position you have set.

4.9 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.**



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.

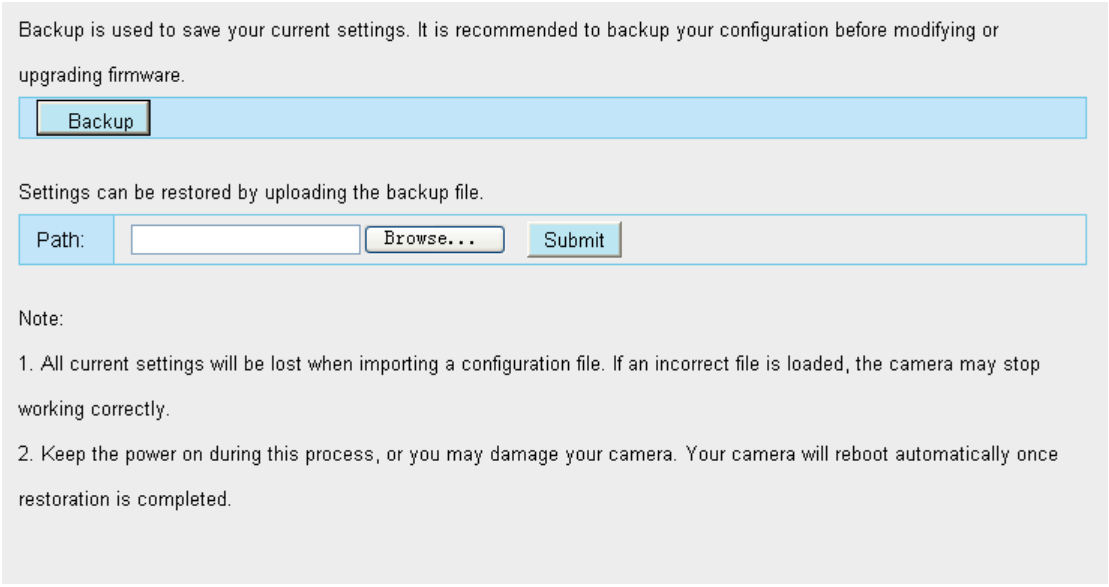
4.10 System

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

4.10.1 Back-up& Restore

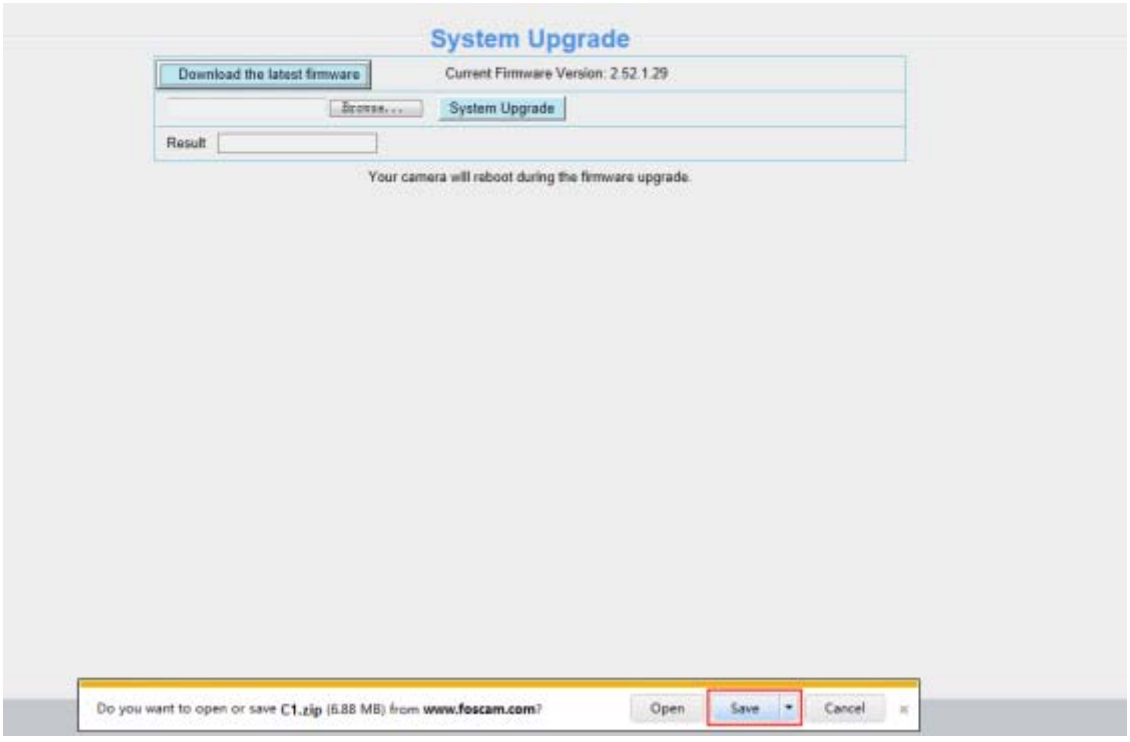
Click **Backup** to save all the parameters you have set. These parameters will be stored in a bin file for future use.

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

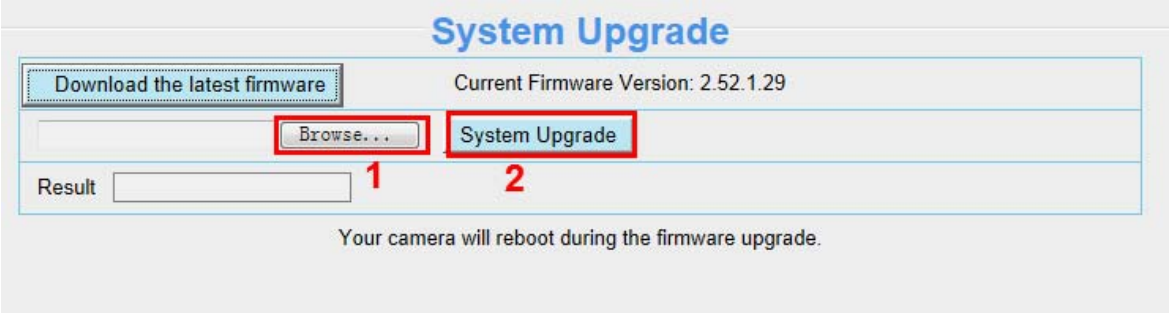


4.10.2 System Upgrade

Click “Download the latest firmware”, you will see the following screen. And click “save” to save the firmware on your computer locally.

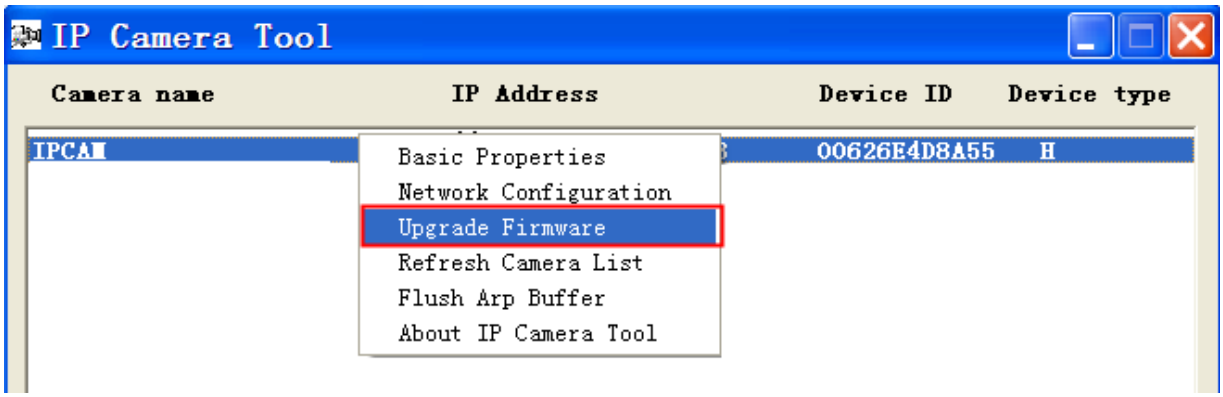


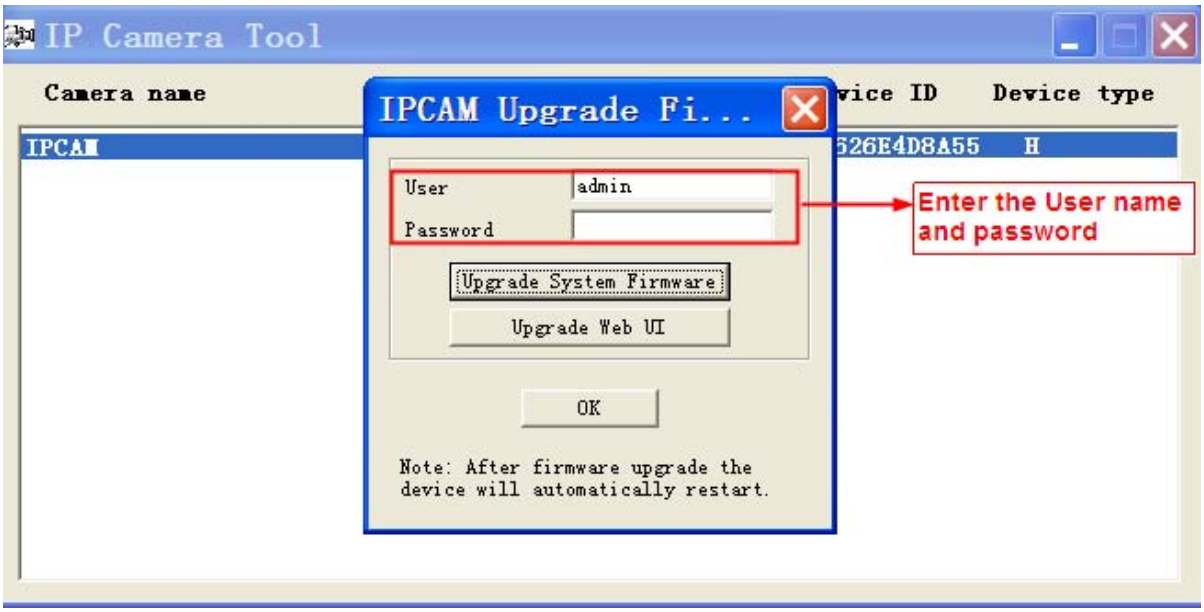
Your current firmware version will be displayed on your screen. You may go to the **Status→ Device Information** page to check for the latest firmware versions available.
Click **Browse**, choose the correct bin file and then click **System upgrade**.
Don’t shut down the power during upgrade. After upgrading, you can see the upgrade result.



Upgrade 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.





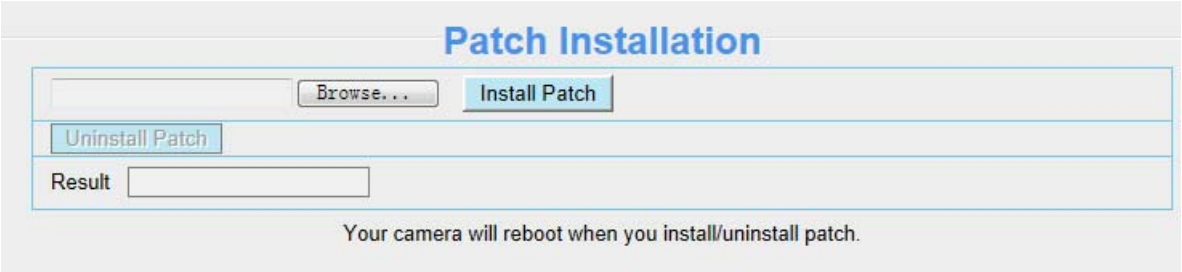
CAUTION: If your camera works well with the current firmware, we recommend not upgrading. Please don't upgrade the firmware unnecessarily. Your camera may be damaged if misconfigured during an upgrade.

NOTES:

- 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.
- 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.
- Normally, only Device WEB UI need to be upgrade, please do not try to upgrade the Device System Firmware.
- Never shut down the power of the camera during upgrade until the IP camera restart and get connected.
- After upgrade successfully, please uninstall the old plugin and re-install it, then reset the camera to the default factory settings before using the camera.

4.10.3 Patch Installation

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

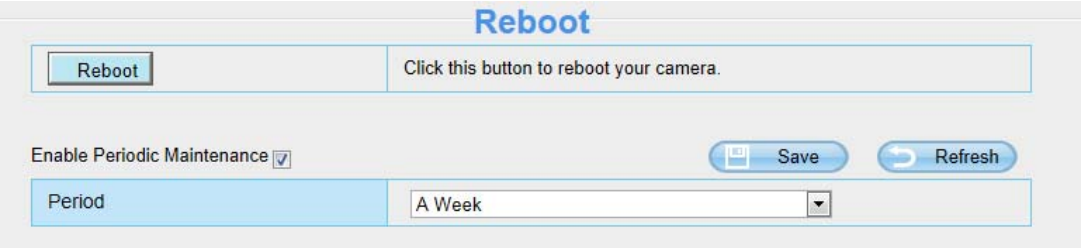


4.10.4 Factory Reset

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

4.10.5 Reboot

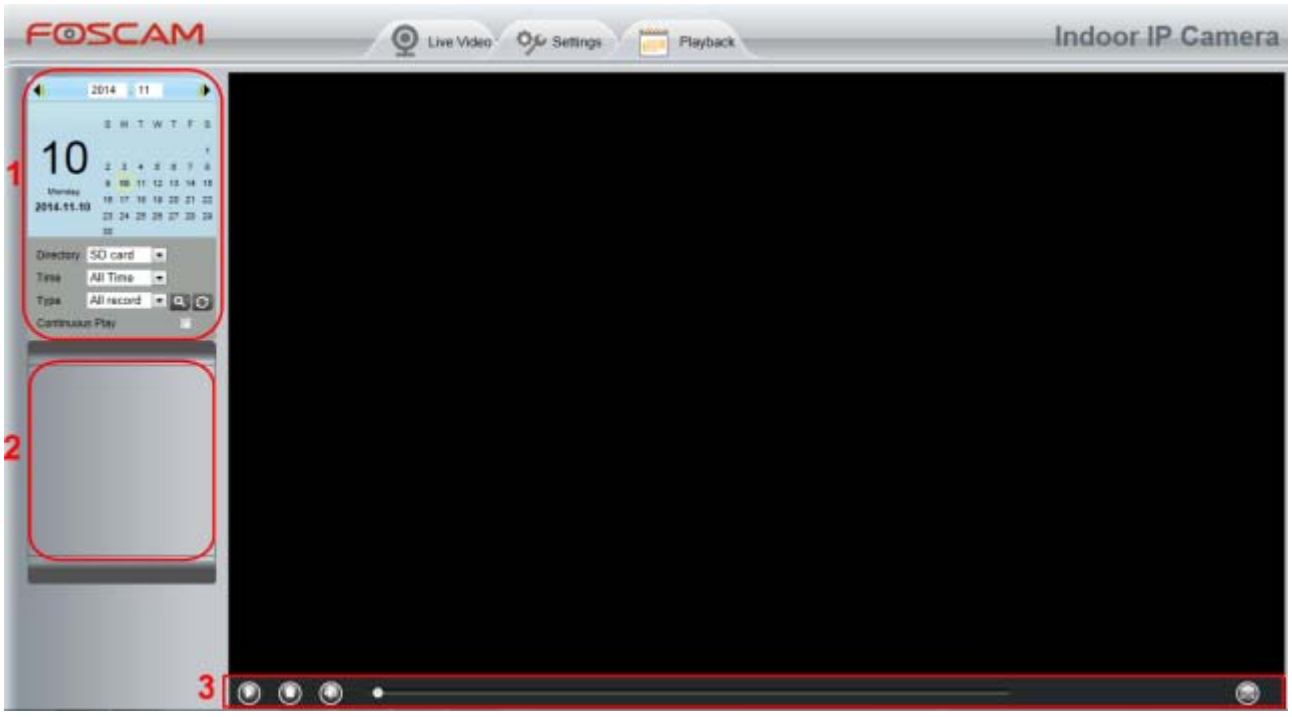
Click Reboot System to reboot the camera. This is similar to unplugging the power to the camera.



Enable Periodic Maintenance(Only R2):You can choose the reboot period of the camera.

5 Playback

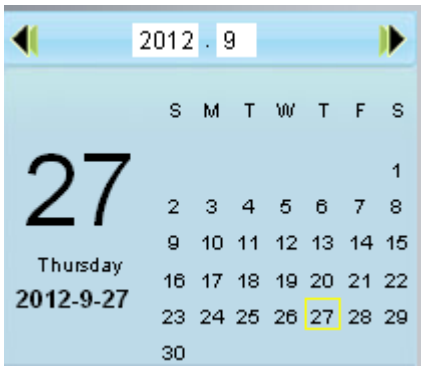
On this page you can view the record files stored in the SD card.



Section 1 Define the Record files time and Type

Directory SD card : The storage path of record files

Time All records: Here supports three types: current day, current month and All records. Another way, select the time on the time&date manually.



Type All records: The type of records files, Here supports two typs: Normal record, Alarm record and All records.

: Click this button to search all record files satisfy the conditions you selected.

Continuous Play: Select the checkbox to play continuously all the record files.

Section 2 Search record files

On this panel you can see all record files satisfy the conditions you set.

Section 3 Play/Stop/Audio/Full screen buttons

Please select one record file before use these buttons.

Click this button to play the record files

Click this button to stop the record files

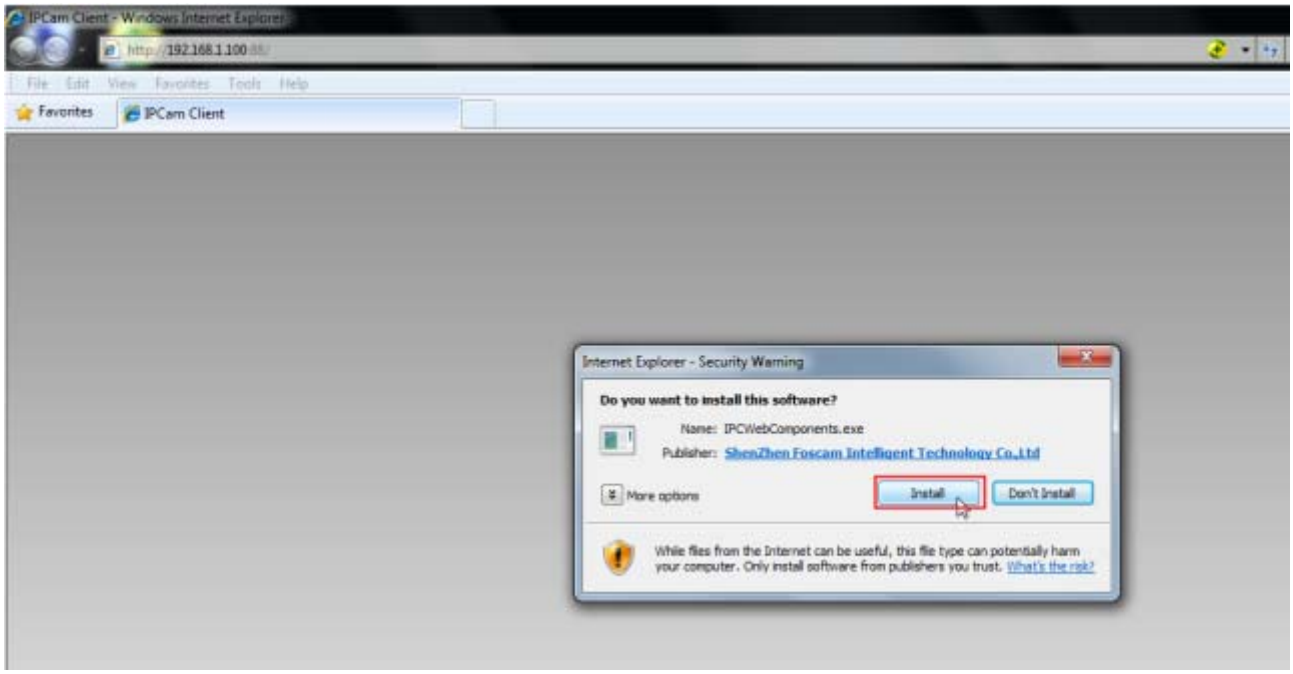
Open or stop audio

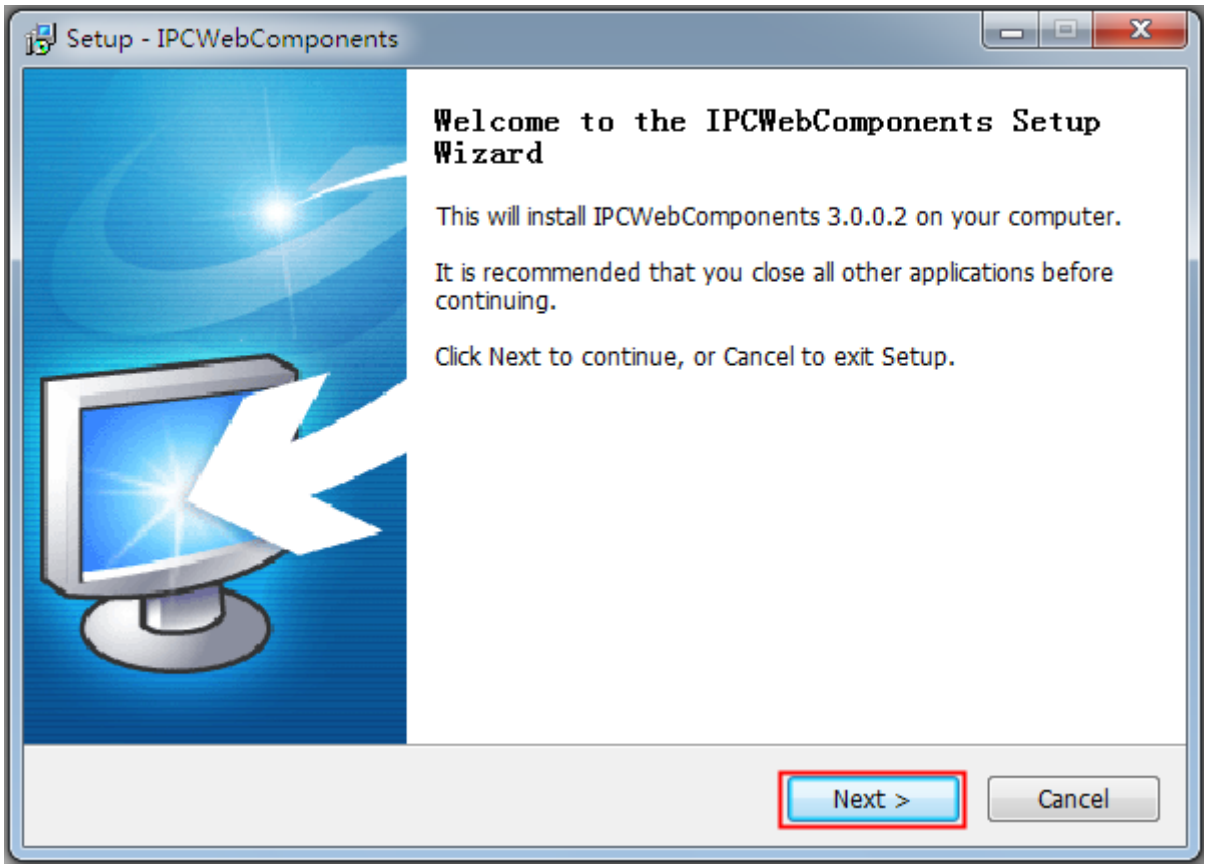
Click this button to make full screen, and double click left mouse to exit full screen.

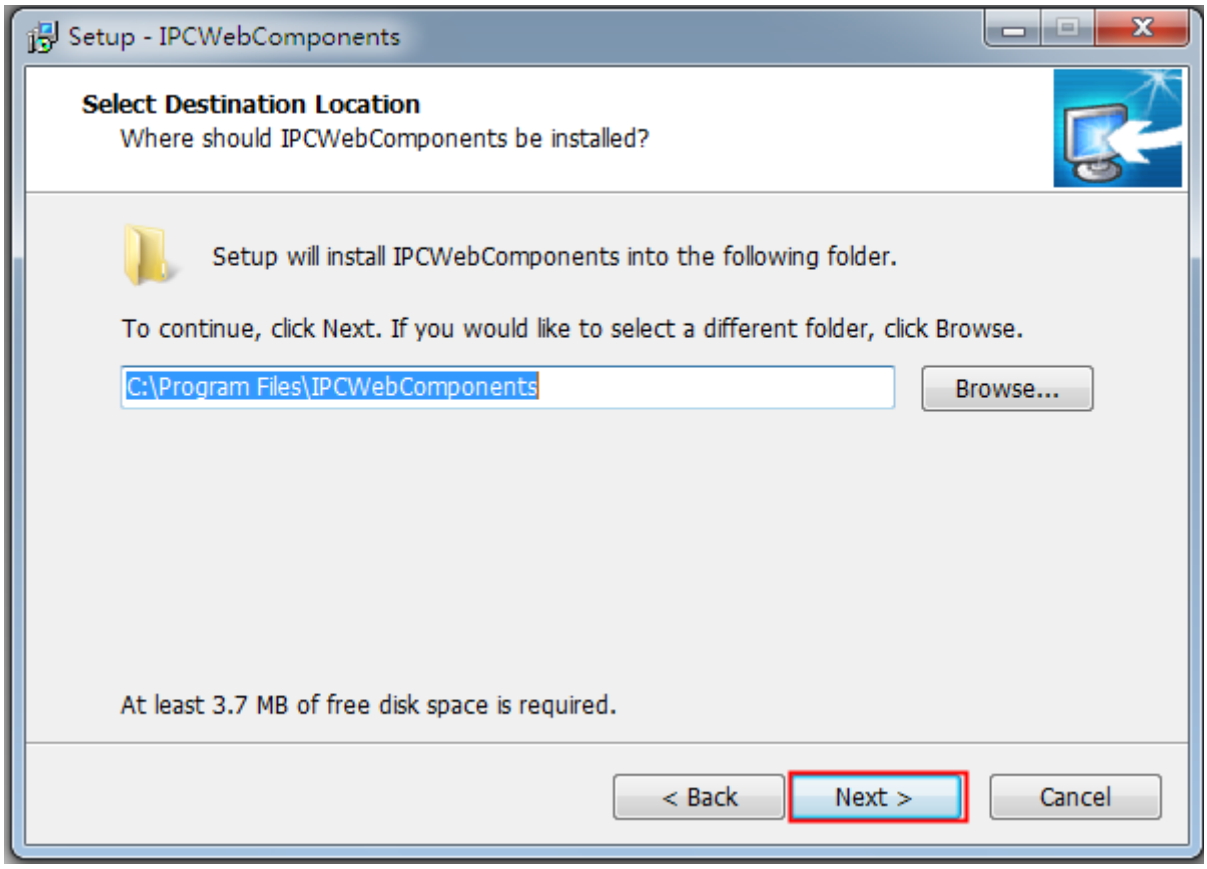
6 Appendix

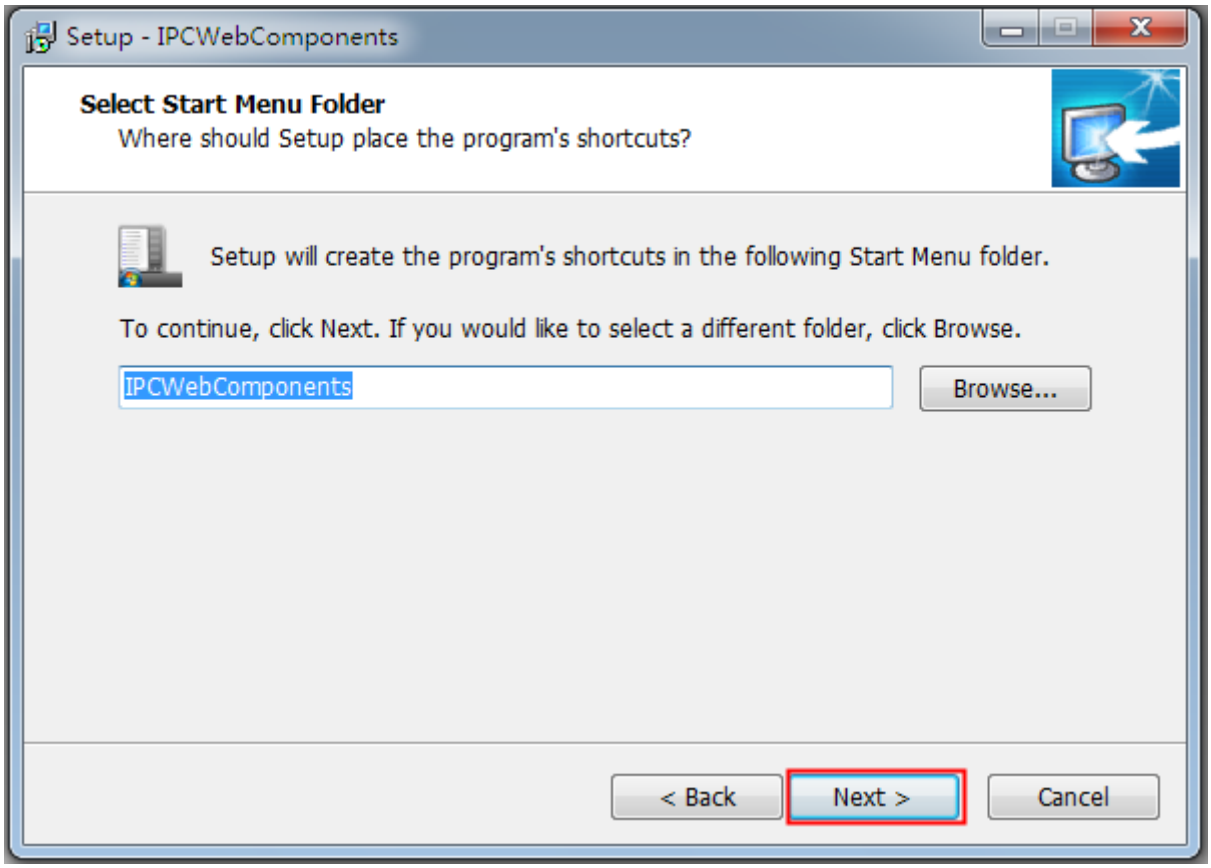
6.1 Frequently Asked Questions

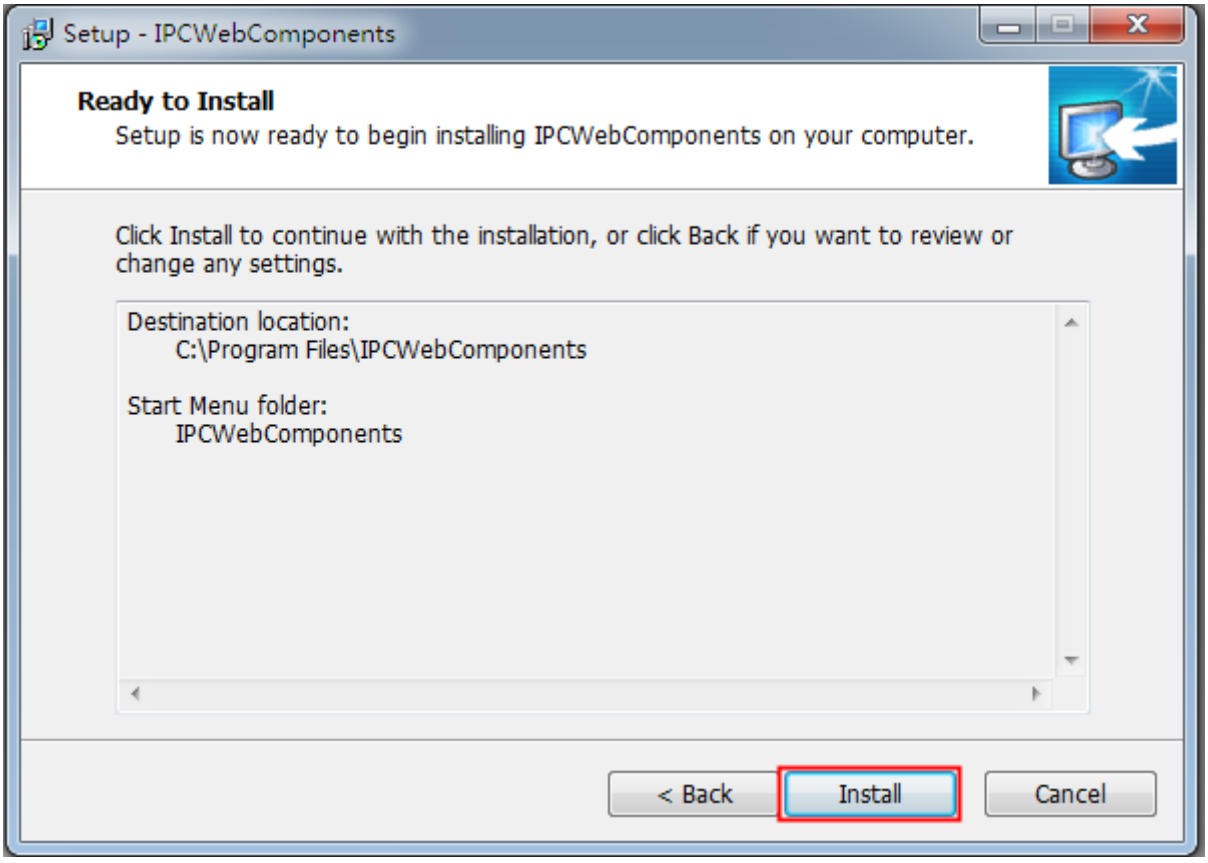
6.1.1 Install the add-on of Firefox browser, Google Chrome and IE Chrome.

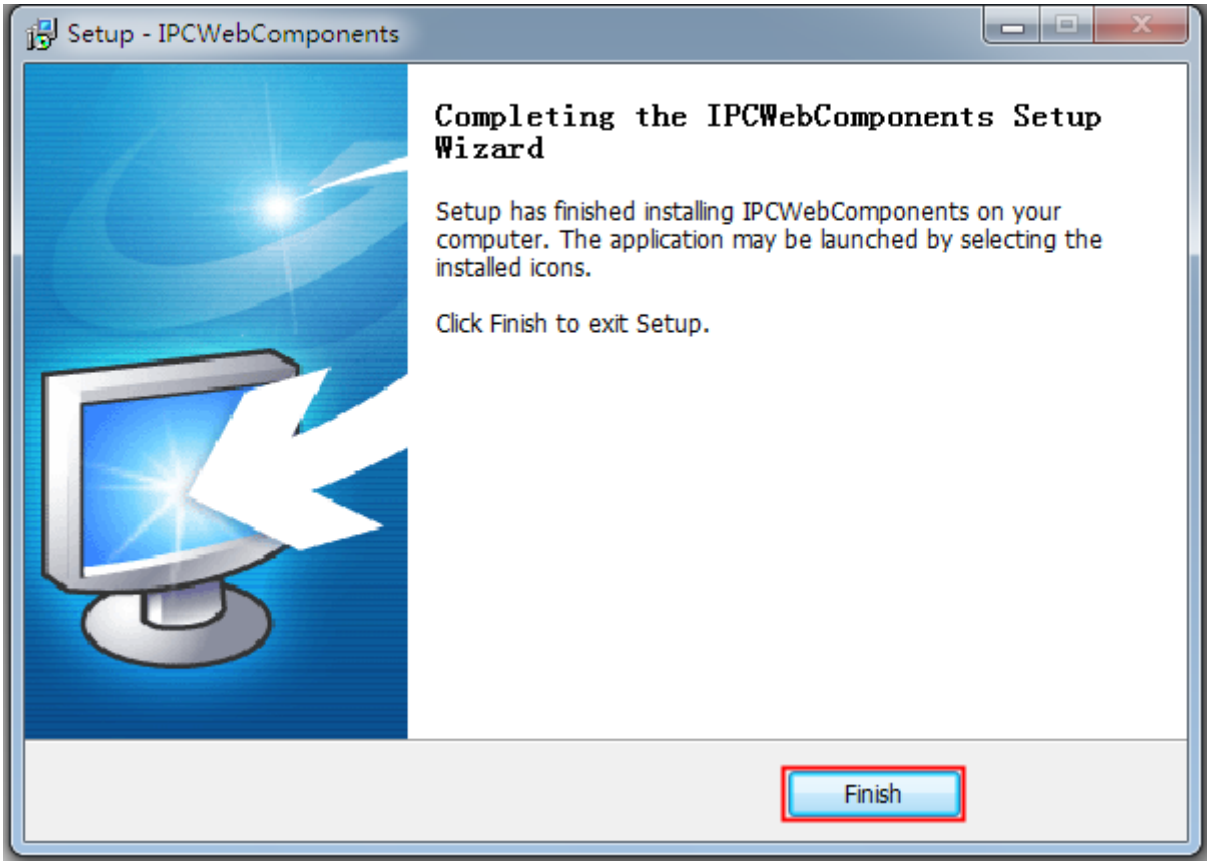



Setup - IPCWebComponents
Welcome to the IPCWebComponents Setup Wizard
This will install IPCWebComponents 3.0.0.2 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

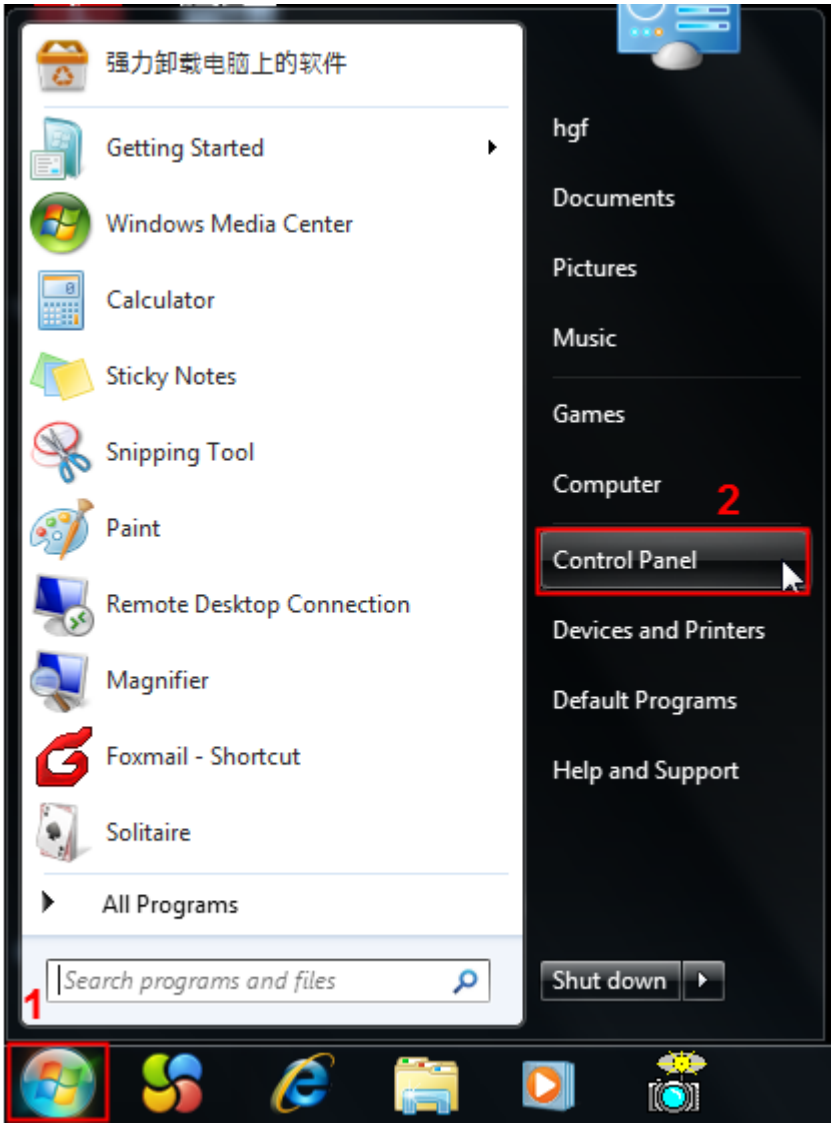

Setup - IPCWebComponents
Select Destination Location
Where should IPCWebComponents be installed?
Setup will install IPCWebComponents into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\IPCWebComponents
Browse...
At least 3.7 MB of free disk space is required.
< Back
Next >
Cancel

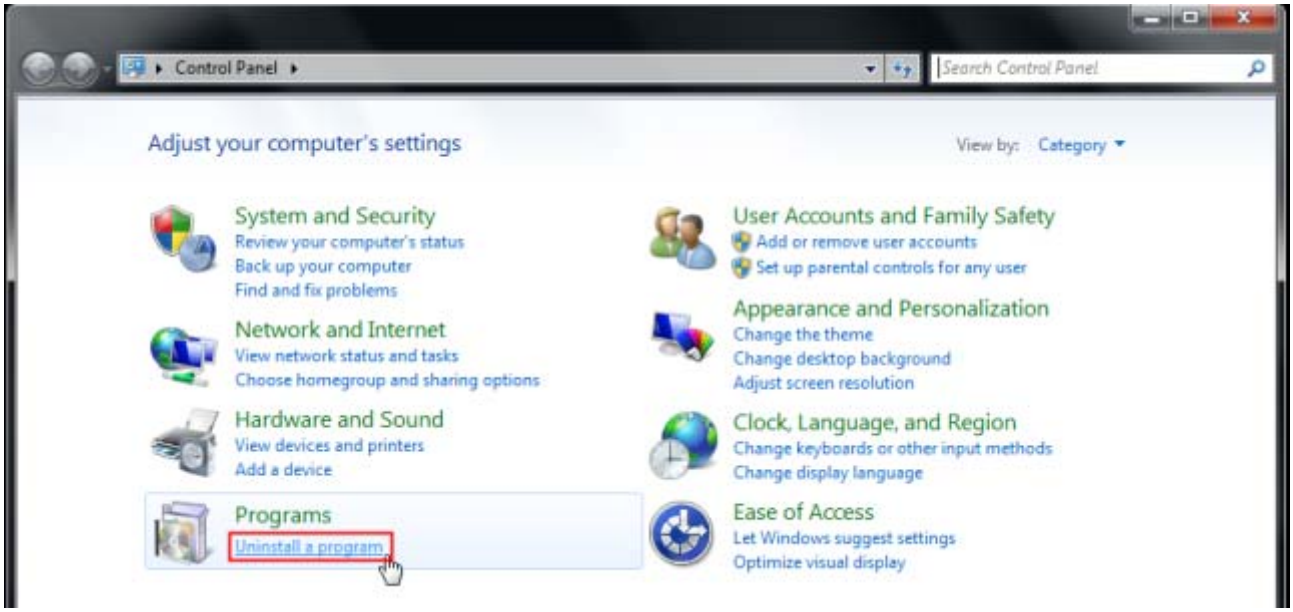

Setup - IPCWebComponents
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
IPCWebComponents
Browse...
< Back
Next >
Cancel

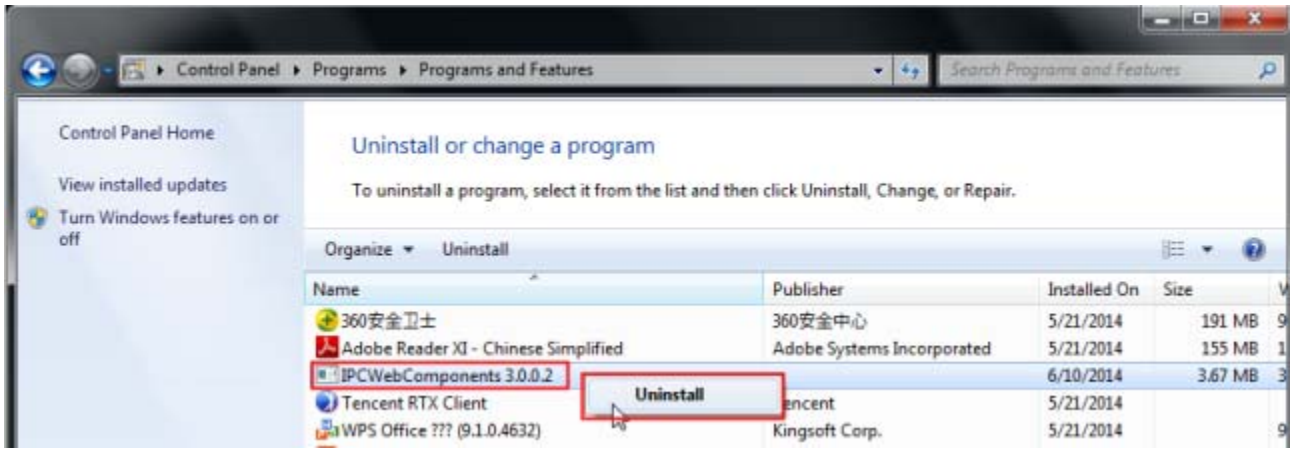

Setup - IPCWebComponents
Ready to Install
Setup is now ready to begin installing IPCWebComponents on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\IPCWebComponents
Start Menu folder:
IPCWebComponents
< Back
Install
Cancel


Setup - IPCWebComponents
Completing the IPCWebComponents Setup Wizard
Setup has finished installing IPCWebComponents on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Finish

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







6.1.3 I have forgotten the administrator password

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

Default administrator username: admin

Default administrator password: No password

6.1.4 Camera can not record

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:

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

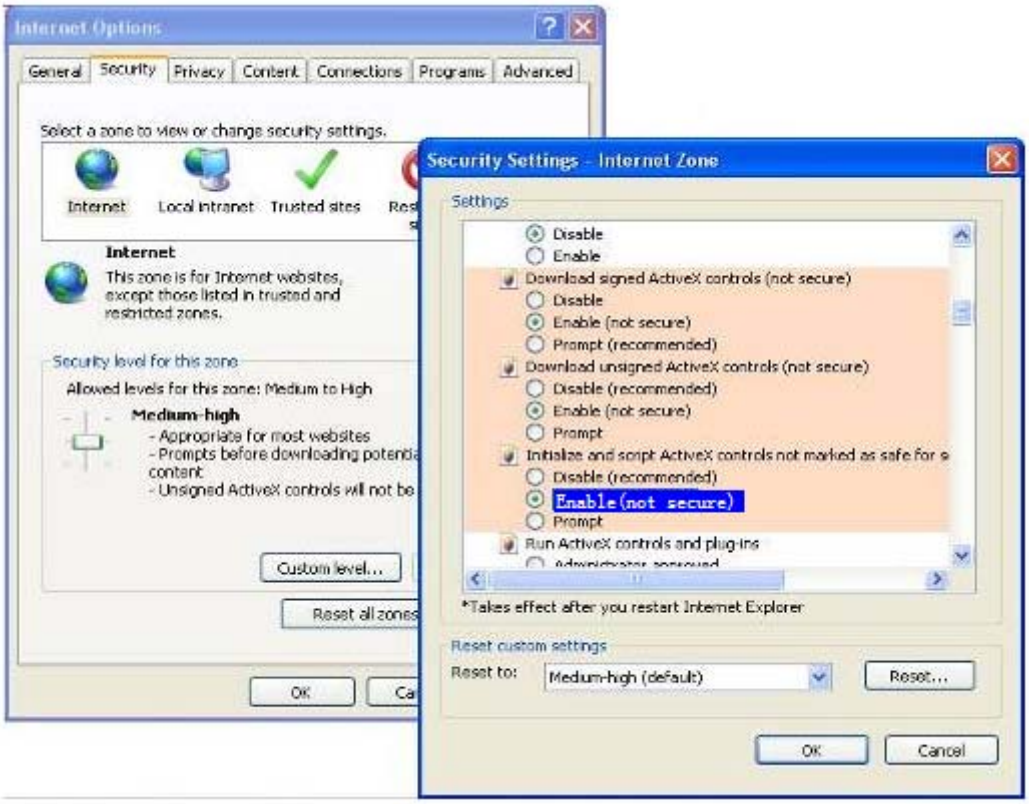
Open IE browser, then right click, select “Run as administrator”

6.1.5 Subnet doesn’t match

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

6.1.6 No Pictures Problems

The video streaming is transmitted by the ActiveX controller. If ActiveX controller isn’t installed correctly you will see no video image. You can resolve this problem by this way:
Download ActiveX controller and set the safety property of IE in the PC when you view it first time: IE browser→Tool→Internet Proper→Security→Custom Level→ActiveX control and Plug-ins. Three options of front should be set to be “Enable”, The ActiveX programs read by the computer will be stored. As follows:
Enable: Download unsigned ActiveX controls
Enable: Initialize and script ActiveX controls not marked as safe
Enable: Run ActiveX controls and plug-ins



If you allow the ActiveX running, but still could not see living video. Please change another port number to try. Don’t use port 88.

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

6.1.7 Can't access IP camera in internet

There are some reasons:
1、ActiveX controller is not installed correctly
2、The port which camera used is blocked by Firewall or Anti-virus software. Please change another port number and try again.
3、Port forwarding is not successful
Check these settings and make sure they are correct.

6.1.8 UPnP always failed

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

6.1.9 Camera can not connect wireless

If your camera could not connect wireless after you set wireless settings and plug out the cable. Please check whether your settings are correct or not.
Normally, camera can't connect wireless mainly because of wrong settings.
Make sure broadcast your SSID; use the same encryption for router and camera.

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

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

6.2 Default Parameters

Default network Parameters
IP address: obtain dynamically

Subnet mask: obtain dynamically
Gateway: obtain dynamically
DDNS: Embedded FOSCAM domain name
Username and password
Default admin username: admin with a blank password

6.3 Specifications

ITEMS		C1
Image Sensor	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1280 x 720 (1Megapixels)
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	Glass Lens
	focal length	f:2.8mm
	Aperture	F2.4
	Diagonal angle of view	115°
	Horizontal view angle	100°
Video	Image Compression	H.264
	Image Frame Rate	25fps（VGA）, 23fps（720P）, 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
	manual Pan/Tilt Angle	Horizontal:350° & Vertical: 180°
	Night visibility	11pcs IR-LEDs, night vision range up to 8 metres
Audio	Input/Output	Supports two-way audio Built-in Mic & Speaker
	Audio Compression	PCM/G.726
Network	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
	WPS	Supports EZLink wireless setup

	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、UPnP、RTSP、WPS
	Remote Access	P2P, DDNS
System Requirements	Operating System	Microsoft Windows XP, Vista, 7, 8; Mac OS iOS、Android
	Browser	Microsoft IE8 and above version or compatible browser; Mozilla Firefox; Google Chrome; Apple Safari.
Other Features	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	PIR	Infrared human body sensor
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Storage	32G Micro SD card, local and FTP storage
	Reset	Reset button is available
Power	Power Supply	DC 5V/1.0A
	Power Consumption	4.5W（Max）
Physical	Dimension(LxWxH)	70*70*120mm
	Net Weight	170g
Environment	Operating Temperature	-10°C ~ 50° (14°F ~ 122°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	
Warranty	Limited 2-year warranty	

ITEMS		**R2**
Image Sensor	Sensor Type	1/3" CMOS
	Display Resolution	1920 x 1080 (2.0 Megapixels)
	Frame Rate	30fps
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	f:2.8mm,F:2.6
	Angle of View	Horizontal:90° Diagonal :110°
	Night Vision	13pcs IR-LEDs, night vision range up to 8 metres
Video	Image Compression	H.264
	Resolution	1080P(1920x1080),720P(1280 x 720), VGA(640 x 480),

		QVGA(320 x 240)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	manual Pan/Tilt Angle	Horizontal:300° & Vertical: 100°
	Night visibility	13pcs IR-LEDs, night vision range up to 8 metres
Audio	Input/Output	Supports two-way audio Built-in Mic & Speaker
	Audio Compression	PCM/G.726
Network	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
	Wireless Setup	Supports EZLink wireless setup
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、UPnP、RTSP、WPS、ONVIF
	Remote Access	P2P, DDNS
System Requirements	Operating System	Microsoft Windows XP, 7, 8;Mac OS;iOS、Android
	Browser	IE8 and above version;Firefox;Chrome;Safari.
Other Features	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	HDR	Improve image clarity in complex scenario
	Magic Zoom	Picture zoom function
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Storage	64G Micro SD card, local and FTP storage
	Reset	Reset button is available
Power	Power Supply	DC 5V/2.0A
	Power Consumption	＜6W
Physical	Dimension(mm)	74(L)×74(W)×119(H)
	Net Weight	290g
Environment	Operating Temperature	-10°C ~ 55° (14°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	
Warranty	Limited 2-year warranty	

ITEMS		C2
Image Sensor	Sensor Type	1/3" CMOS
	Display Resolution	1920 x 1080 (2.0 Megapixels)
	Frame Rate	30fps
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	f:2.8mm,F:2.6
	Angle of View	Horizontal:110° Diagonal :120°
Video	Image Compression	H.264
	Resolution	1080P(1920x1080),720P(1280 x 720), VGA(640 x 480), QVGA(320 x 240)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Manual Pan/Tilt Angle	Horizontal:360° & Vertical: 180°
	Night visibility	High performance IR-LEDs, night vision range up to 8 metres
Audio	Input/Output	Supports two-way audio Built-in Mic & Speaker
	Audio Compression	PCM/G.726
Network	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
	Wireless Setup	Supports EZLink wireless setup
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、UPnP、RTSP、WPS、ONVIF
	Remote Access	P2P, DDNS
System Requirements	Operating System	Microsoft Windows XP, 7, 8;Mac OS;iOS、Android
	Browser	IE8 and above version;Firefox;Chrome;Safari.
Other Features	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	HDR	Improve image clarity in complex scenario
	Magic Zoom	a Magic digital zoom rivaled Optical zoom
	User Accounts	Three levels user role

	Firewall	Supports IP Filtering
	Storage	64G Micro SD card, local and FTP storage
	Reset	Reset button is available
Power	Power Supply	DC 5V/1.0A
	Power Consumption	4.8W（Max)
Physical	Dimension(mm)	70*70*120mm
	Net Weight	160g
Environment	Operating Temperature	-10°C ~ 55° (14°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	
Warranty	Limited 2-year warranty	

Attention: Power adapter should be used between 0℃-40℃, and 5%-90% relative humidity.

6.4 CE & FCC

Electromagnetic Compatibility (EMC)
FCC Statement

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

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

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

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CE Mark Warning

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

6.5 Warranty

ShenZhen FOSCAM Intelligent Technology Limited.("FOSCAM") values your business and always attempts to provide you the very best of service.
No limited hardware warranty is provided by FOSCAM unless your FOSCAM product ("product") was purchased from an authorized distributor or authorized reseller. Distributors may sell products to resellers who then sell products to end users. No warranty service is provided unless the product is returned to an authorized return center in the region where the product was first shipped by FOSCAM or to the point-of-purchase, which may have regional specific warranty implications.
If you purchase your FOSCAM product from online store, please contact the point-of-purchase and ask for return/replacement/repair service.

Hardware Warranty Information

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

Limited Hardware Warranty

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

This limited hardware warranty does not cover:

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

Return Procedures

- Please read FOSCAM warranty policy & policy of your reseller first before sending items back to point-of-purchase.

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

Replacement Services

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

Warranty Forfeiture

- Warranty is void if purchase from unauthorized distributor or reseller.
- Warranty is void if trade-mark, serial tags, product stickers have been removed, altered or tampered with.
- Warranty is void for mishandling, improper use, or defacing the product.
- **Abuse firmware upgrade without the authorized technician’s guidance.**
- Warranty is void for physical damage, altered, either internally or externally, improper or inadequate packaging when returned for RMA purposes.
- Warranty is void if damage has resulted from accident, dismantle, abuse, or service or modification by someone other than the appointed vendor, souse, fission or the spare part has been over the period of warranty.
- Warranty is void if product is damaged due to improper working environment or operation. (For example, improper temperature, humidity, unusual physical or electrical stress or interference, failure or fluctuation of electrical power, static electricity, using wrong power adapter, etc.)
- Warranty is void if damaged by the use of parts not manufactured or sold by FOSCAM.
- Damage caused by improper installation of third-party products.
- Warranty is void if damaged for irresistible cause, such as earthquake, fire, lightning, flood, etc.
- Product beyond limited warranty.

Shipping Fee

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

Repair Service Out Of Warranty

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

Limitation of Liability

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

All rights reserved. FOSCAM and the FOSCAM logo are trademarks of ShenZhen FOSCAM Intelligent Technology Limited., registered in the U.S. and other countries.

7 Obtaining Technical Support

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may experience some issues or have questions that this User's Guide has not answered.
If you have problem with FOSCAM IP camera, please first contact FOSCAM reseller for solving the problems. If our reseller cannot provide service, please contact our service department:
tech@foscam.com