



User Manual

(For Windows & Mac OS)

Indoor HD Wireless IP Camera



Model: SABIP1600

Table of Contents

Table of Contents.....	1
1 Overview.....	3
1.1 Key Features.....	3
1.2 Read Before Use.....	4
1.3 Package Contents.....	4
1.4 Physical Description.....	4
1.5 SD Card.....	5
1.6 Hardware Installation.....	5
2 Access the IP Camera.....	6
2.1 Hardware Connection.....	6
2.2 Access the Camera in LAN.....	7
2.3 Access the Camera in WAN.....	10
2.3.1 Static IP Addresses.....	10
2.3.2 Remote Access.....	11
2.4 Using the VLC player.....	14
2.5 IP Camera Connection to the Server.....	17
3 Surveillance Software GUI.....	17
3.1 Login Window.....	18
3.2 Modify the Username and Password.....	18
3.3 Setup Wizard.....	19
3.4 Surveillance Window.....	21
4 Advanced Camera Settings.....	26
4.1 Status.....	26
4.1.1 Device Information.....	27
4.1.2 Device Status.....	27
4.1.3 Session Status.....	28
4.1.4 Log.....	28
4.2 Basic Settings.....	29
4.2.1 Camera Name.....	29
4.2.2 Camera Time.....	29
4.2.3 User Accounts.....	30
4.2.4 Multi-Camera.....	33
4.2.5 Status Light.....	37
4.3 Network.....	37
4.3.1 IP Configuration.....	37
4.3.2 Wireless Settings.....	39
4.3.3 DDNS.....	41
4.3.4 UPnP.....	46
4.3.5 Port.....	46
4.3.6 Mail Settings.....	48
4.3.7 FTP Settings.....	50
4.3.8 P2P.....	52

4.3.9	Cloud Server.....	52
4.4	Video.....	53
4.4.1	Video Settings.....	53
4.4.2	On Screen Display.....	54
4.4.3	Snapshot Settings.....	54
4.4.4	IR LED Schedule.....	55
4.5	Detector.....	56
4.5.1	Motion Detection.....	56
4.5.2	Sound Detection.....	59
4.6	Record.....	60
4.6.1	Storage Location.....	60
4.6.2	Alarm Recording.....	61
4.6.3	Local Alarm Recording.....	61
4.6.4	Scheduled Recording.....	62
4.6.5	SD Card Management.....	63
4.8	Firewall.....	64
4.9	System.....	65
4.9.1	Back-up& Restore.....	65
4.9.2	System Upgrade.....	65
4.9.3	Patch Installation.....	67
4.9.4	Factory Reset.....	67
4.9.5	Reboot.....	67
5	Playback.....	68
6	Appendix.....	69
6.1	Frequently Asked Questions.....	69
6.1.1	Install the add-on of Firefox browser, Google Chrome and IE Chrome.....	70
6.1.2	Uninstall the add-on of Firefox browser, Google Chrome and IE Chrome.....	73
6.1.3	I have forgotten the administrator password.....	74
6.1.4	Camera can not record.....	74
6.1.5	Subnet doesn't match.....	75
6.1.6	No Pictures Problems.....	75
6.1.7	Can't access IP camera in internet.....	76
6.1.8	UPnP always failed.....	76
6.1.9	Camera can not connect wireless.....	76
6.1.10	Can't see other cameras listed.....	76
6.2	Default Parameters.....	77
6.3	Specifications.....	77
6.4	CE & FCC.....	78

1 Overview

Indoor HD Wireless IP Camera with P2P is an integrated wireless IP Camera with a color CMOS sensor enabling viewing in High Definition resolution. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop and mobile devices from anywhere on your local network or over the Internet.

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 of the camera to connect it on smart phone, or input the UID on CMS software to do remote access.

The IP Camera gives users more comprehensive control over a monitored site. The camera supports H.264 video compression technology, dramatically reducing file size and saving network bandwidth.

The camera is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore. Therefore the management and maintenance of your device is simplified by using the network to access the website of your camera.

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

The IP camera provides Smart Phone APP for Android and iPhone users, 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
- Megapixel HD video
- Supports IE/Firefox/Google/Safari browser
- Supports 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)
- Supports image snapshot
- Supports dual-stream
- Supports SD Card storage up to 32GB
- Supports IR-Cut auto switch
- Embedded free DDNS(dynamic domain name service) Service
- Supporting the Third Party Domain Name Service
- Supports two-way audio
- Multi-level users management with password protection
- Supports Motion detection alert via email or upload image to FTP

- Supports Sound Detection via FTP and Email
- Providing free Android and iPhone APP for viewing live video
- Support record schedule
- Supports EZlink, Link to WiFi network easily

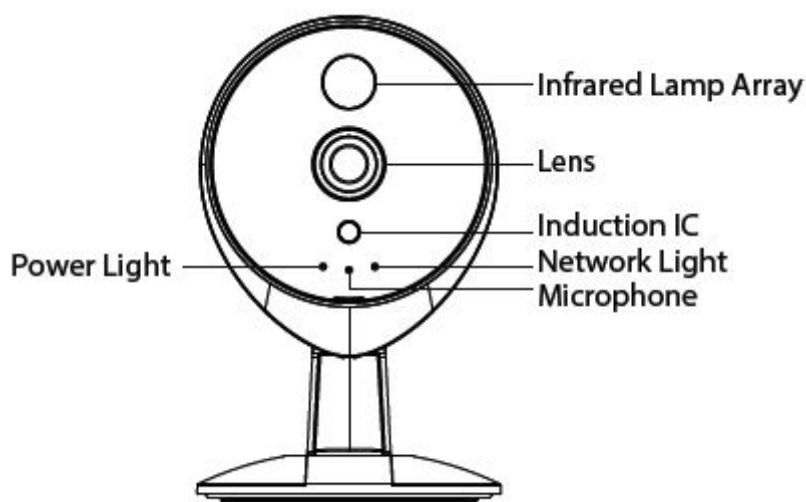
1.2 Read Before Use

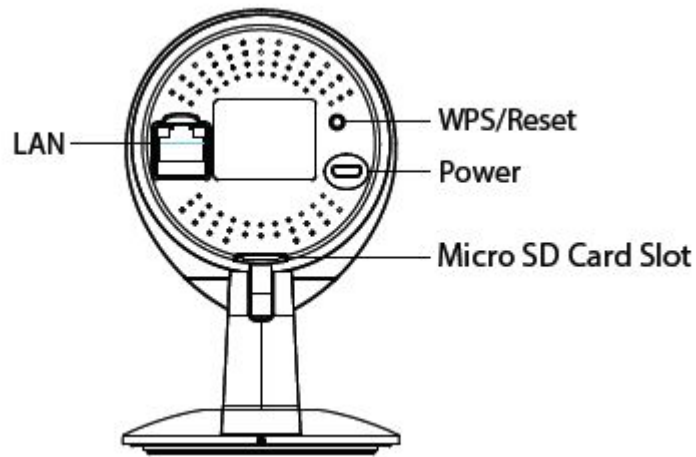
Please first verify that all contents received are complete according to the Package Contents listed below. Before the IP Camera is installed, please carefully read and follow the instructions in the Quick Installation Guide to avoid damage due to faulty assembly and installation. This also ensures the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

1.3 Package Contents

● IP Camera × 1	● DC Power Adapter × 1
● USB Power Cable × 1	● CD×1
● Quick Installation Guide × 1	

1.4 Physical Description





1.5 SD Card

NOTE:

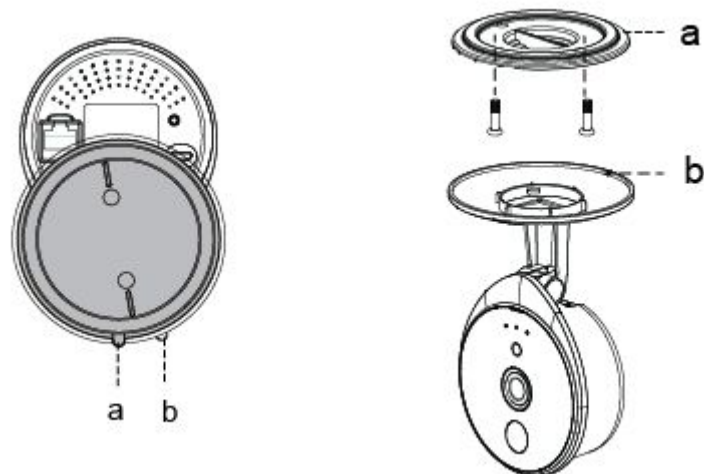
This camera supports SD Card and the max size of SD card must be under 32G.

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.

1.6 Hardware Installation

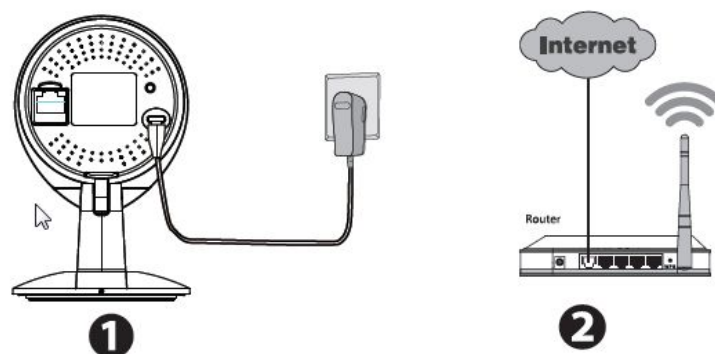
1. Rotate the base of the camera until points a and bare aligned, this allows for the mounting plate to be removed.
2. Install the mounting plate on a wall or ceiling with supplied fixing screws.
3. Align points a and b to insert the camera base to the mounting plate. Rotate so that points a and b are no longer aligned, this attaches the camera securely to the base.



2 Access the IP Camera

This chapter explains how to access the camera through browser.

2.1 Hardware 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.
4. Go to the folder "Equipment Search Tool" and find the folder "For Windows OS" or "For Mac OS". Copy and paste the Equipment Search Tool file to your computer, or drag it onto your Desktop.



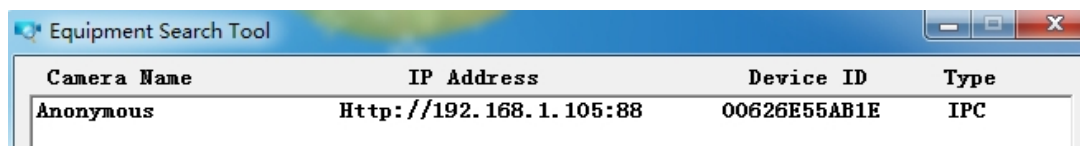
Shortcut icon for Windows / Mac OS

2.2 Access the Camera in LAN

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

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

The default HTTP port no is 88. Double click the Equipment Search Tool icon to run, and it should find the camera's IP address automatically after you plug in the network cable.



Camera Name	IP Address	Device ID	Type
Anonymous	Http://192.168.1.105:88	00626E55AB1E	IPC

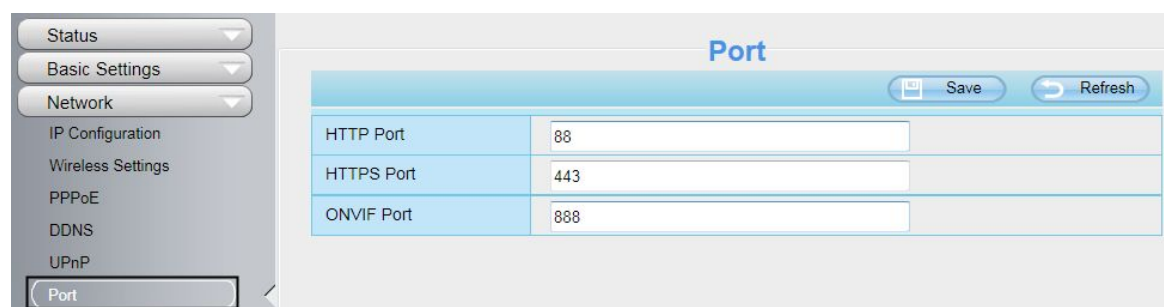
Figure 2.1

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

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

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

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



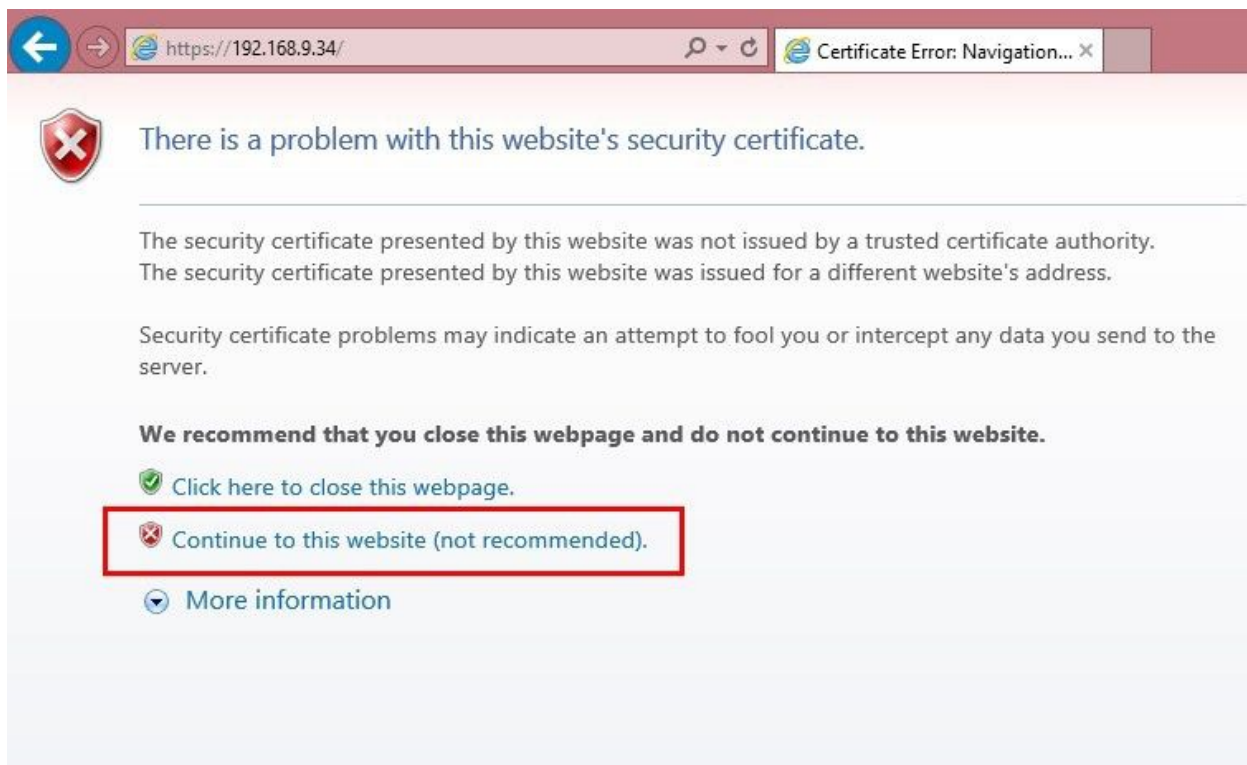
Port

HTTP Port	88
HTTPS Port	443
ONVIF Port	888

Save Refresh

Figure 2.2

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



Open **Internet Explorer** if it is not already opened. Click on **Tools**, then click Internet Options. Next, click the **Security** tab, then click the Trusted sites button.

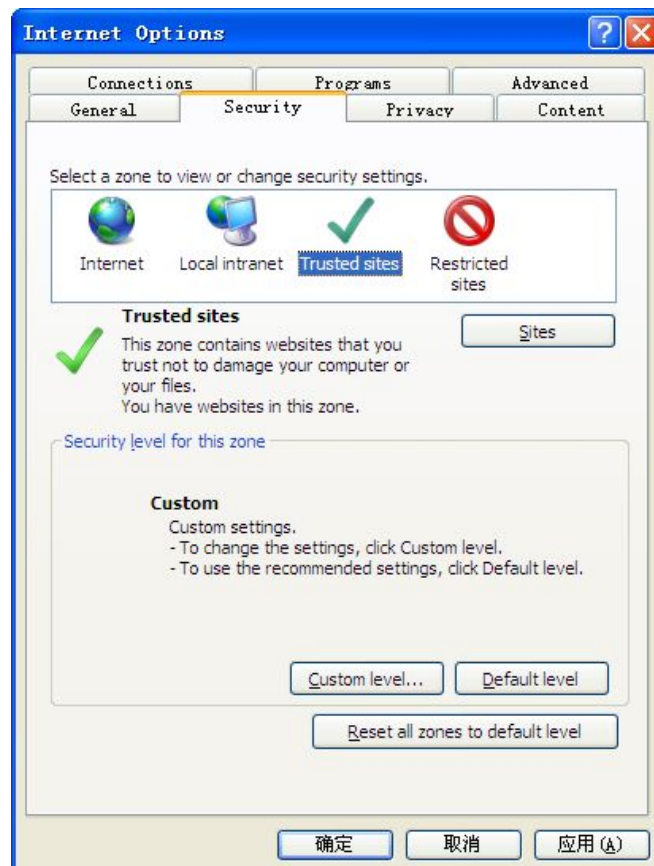


Figure 2.3

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

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

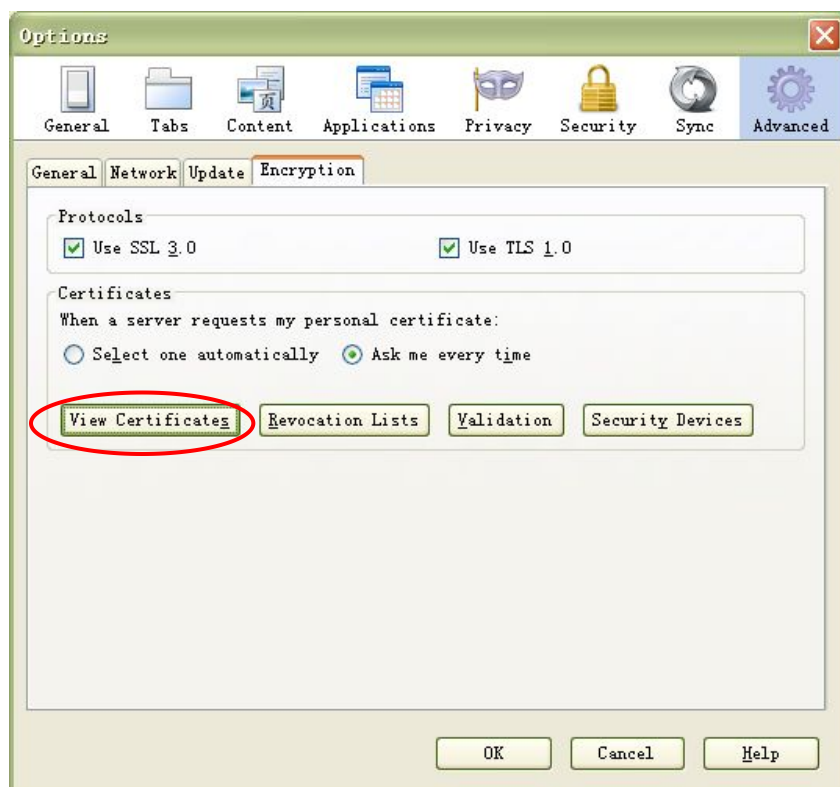


Figure 2.4

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

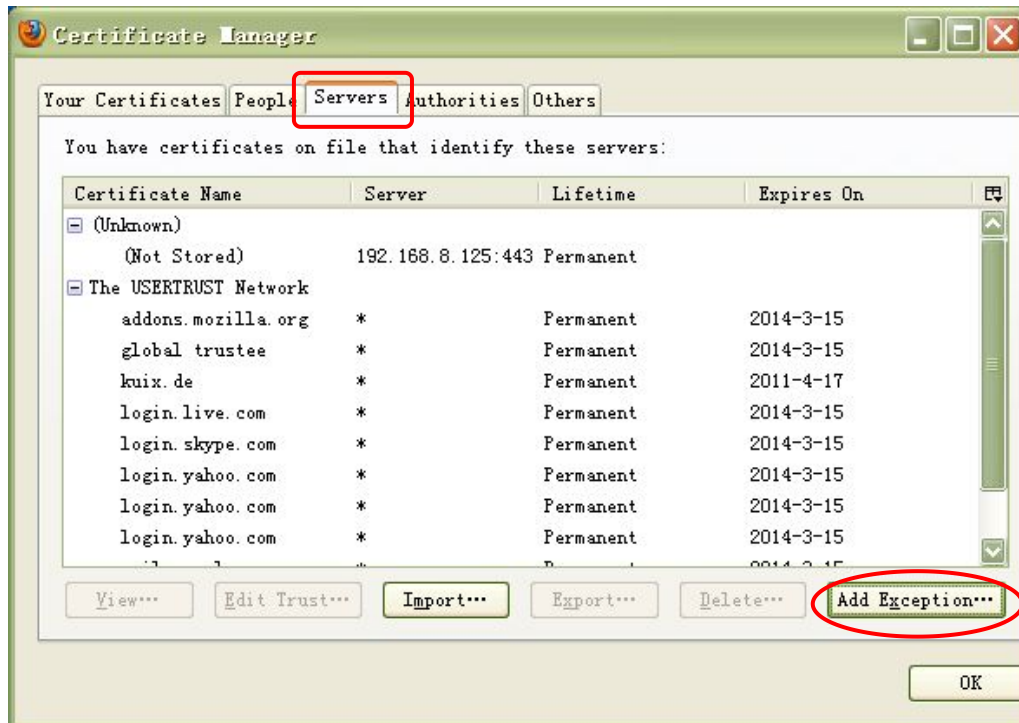


Figure 2.5

Go to **Add Exception** panel.

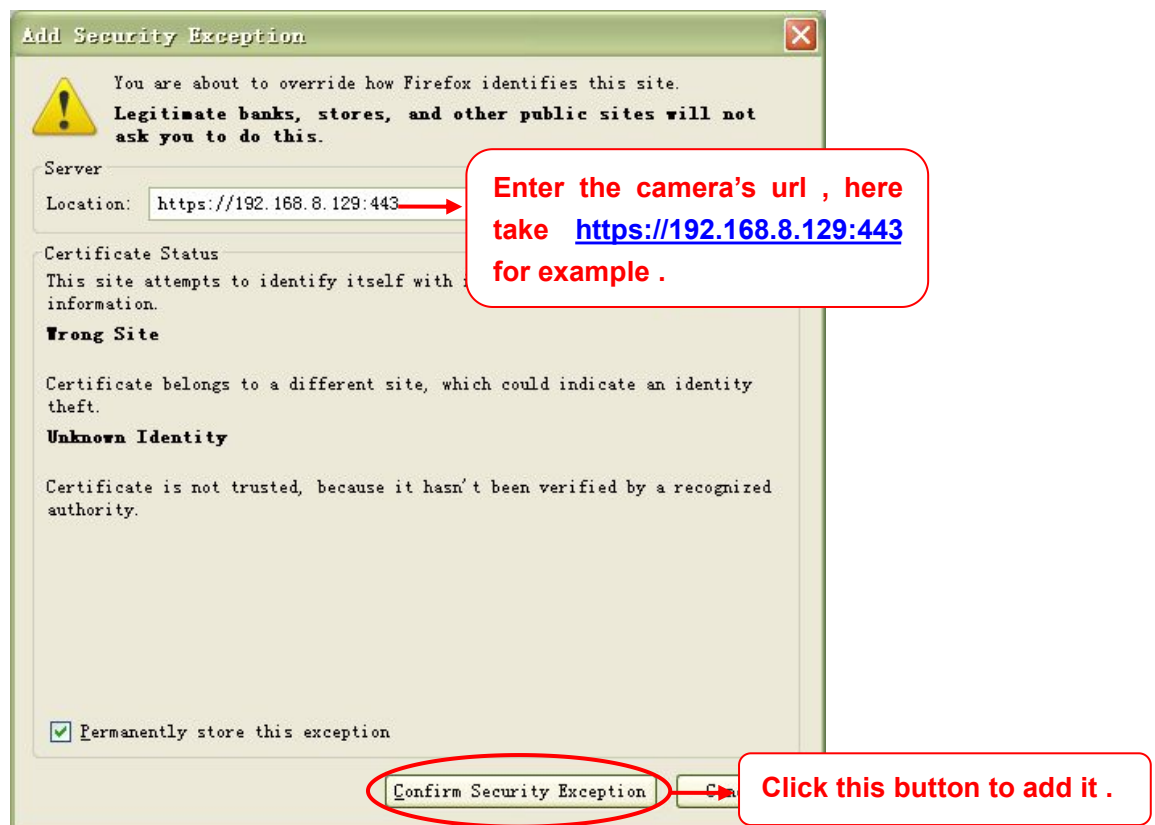


Figure 2.6

2.3 Access the Camera in WAN

2.3.1 Static IP Addresses

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

How to Obtain the WAN IP address from a public website

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



Figure 2.3

Access your IP Camera from the Internet

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

NOTES:

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

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

2) Do port (HTTP port and Media port) forwarding manually.

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

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

2.3.2 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.

IP Configuration	
Obtain IP From DHCP	☒
IP Address	192.168.1.10
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Primary DNS Server	211.162.78.2
Secondary DNS Server	211.162.78.4

IP Address: Set this in the same subnet as your computer, or keep it as default.
Subnet Mask: Keep it as default.
Gateway and DNS Server: Set it to the IP address of your router.

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

UPnP

Enable UPnP ☒ Yes

Select Yes and click Save.

DDNS

Enable DDNS ☒

Manufacturer's DDNS

Manufacturer's DDNS test09.myipcamera.org Restore DDNS to factory

Third Party DDNS

DDNS Server

Domain

Click Enable DDNS and click Save.
 The content in the Manufacture's DDNS column is the domain name of your camera.

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.

Port	
HTTP Port	88
HTTPS Port	443
ONVIF Port	888

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.

UPnP						
Current UPnP Status: Enabled Disable						
Current UPnP Settings List						
ID	App Description	External Port	Protocol	Internal Port	IP Address	Status
Refresh						

- **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.

Virtual Servers						
ID	Service Port	Internal Port	IP Address	Protocol	Status	Modify
Add New... Enable All Disable All Delete All						
Click Add New. Previous Next						

Quick Setup
WPS
Network
Wireless
DHCP
Forwarding
- Virtual Servers
- Port Triggering
- DMZ
- UPnP
Security
Parental Control
Access Control

Add or Modify a Virtual Server Entry

Service Port: (XX-XX or XX)
Internal Port: (XX, Only valid for single Service Port or leave it blank)
IP Address:
Protocol:
Status:
Common Service Port:

Input the port and IP address of your camera and click Save.

Status
Quick Setup
QSS
Network
Wireless
DHCP
Forwarding
- Virtual Servers
- Port Triggering
- DMZ
- UPnP
Security

Virtual Servers

ID	Service Port	Internal Port	IP Address	Protocol	Status	Modify
1	443	443	192.168.1.100	ALL	Enabled	Modify Delete

Here you have finished the Port Forwarding setup.

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

2.4 Using the VLC player

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

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

The part in the square brackets may be omitted.

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

IP: WAN or LAN IP address.

port number: If there is the RSTP port number on the Port page, you must only use RTSP port number. otherwise, you must only use HTTP port number.

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

For example:

IP: 192.168.1.11

HTTP Port number: 88

User name: admin

Password: 123

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

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

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

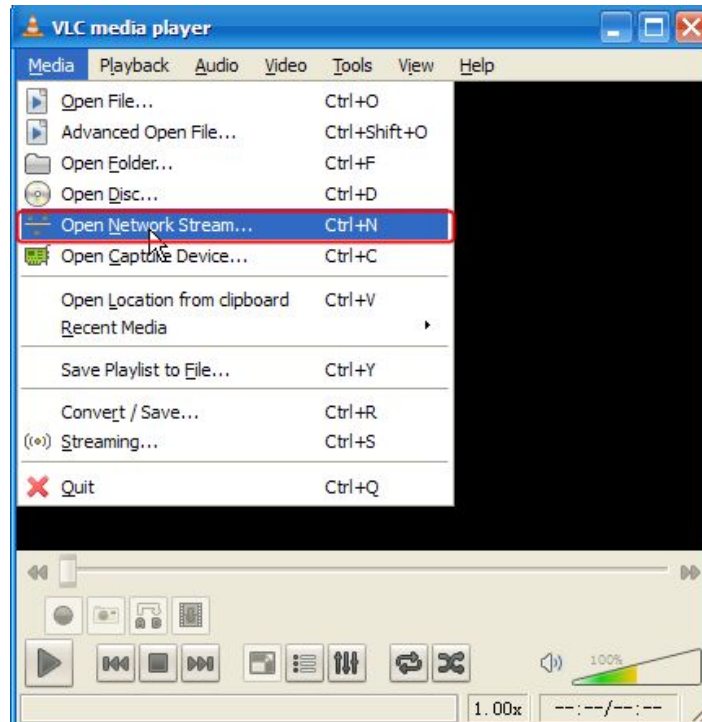


Figure 2.9

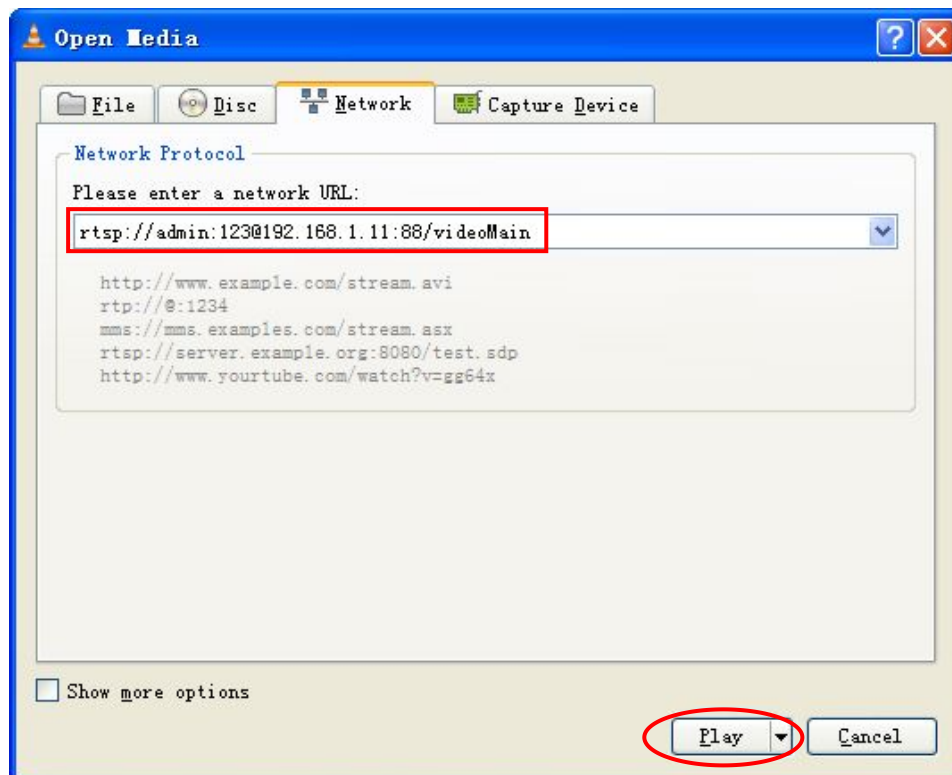


Figure 2.10

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



Figure 2.11

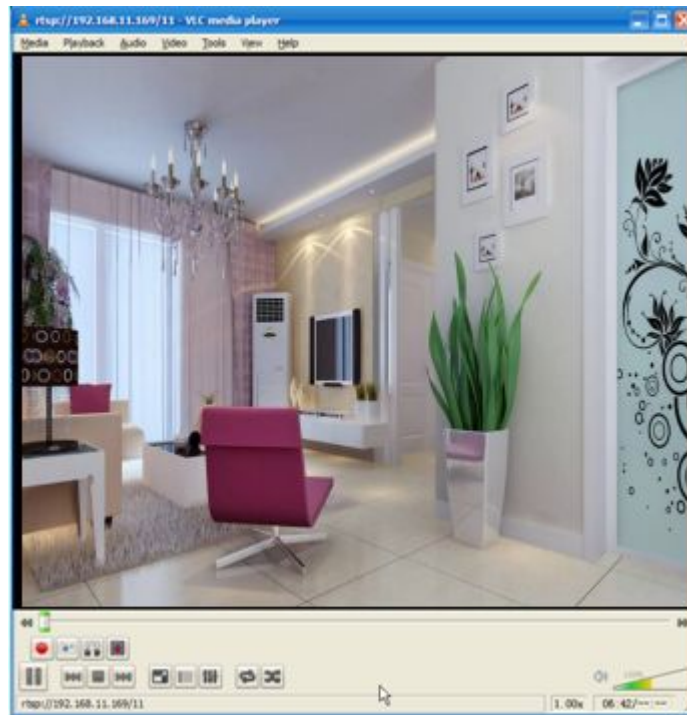


Figure 2.12

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

NOTE:

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

2.5 IP Camera Connection to the Server

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

3 Surveillance Software GUI

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

3.1 Login Window

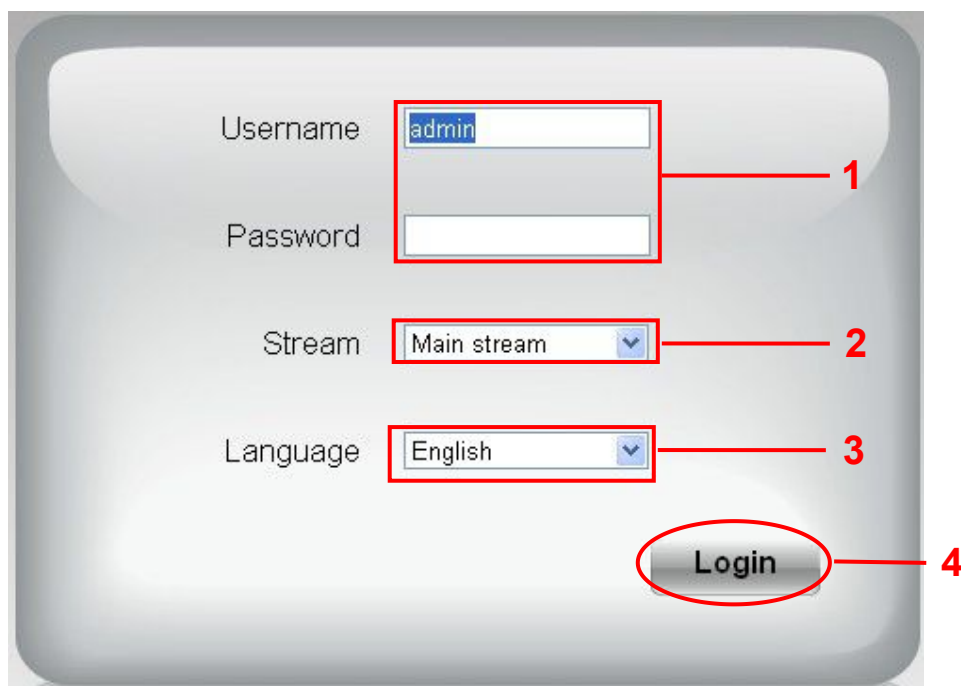
The image shows a login window with a light gray background and rounded corners. It contains four input fields and a button. The first field is labeled 'Username' and contains the text 'admin'. The second field is labeled 'Password' and is empty. The third field is labeled 'Stream' and is a dropdown menu showing 'Main stream'. The fourth field is labeled 'Language' and is a dropdown menu showing 'English'. A 'Login' button is located at the bottom right. Red lines with numbers 1 through 4 point to the Username field, Password field, Stream dropdown, and Login button respectively.

Figure 3.1

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

Section1 Enter the User name and password

The default administrator username is admin with a blank password, please reset the password at first using and prevent unauthorized users login the camera.

Section2 Stream

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

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

Section3 Select the language

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

Section4 Login the camera

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

3.2 Modify the Username and Password

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

Username

New username

New password

Password Security Level

Confirm the password

Modify

Figure 3.2

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

3.3 Setup Wizard

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

Live Video Settings Indoor IP Camera

Setup Wizard

Setup Wizard - Start

Follow the guide to set your camera, click "Next" to start.

Please click the menu on the left for more settings.

Next

Figure 3.2

Camera Name: You could give a name for your IP camera.

Setup Wizard

Step 1 of 4 - Camera Name

Camera Name

The maximum Device Name length is 20, support English, numbers, letters and symbols

Previous **Next**

Figure 3.3

System Time: Select the time zone you need to set the date, time, format, etc.

The screenshot shows the 'Setup Wizard' interface for 'Step 2 of 4 - Camera Time'. It includes fields for 'Time Zone' (set to '(GMT) Greenwich mean time; London, Lisbon, ...'), a checked 'Sync with NTP server' option, an 'NTP Server' field (set to 'time.nist.gov'), a 'PC Time' section with a date/time display (2014-7-1 03:14:40 PM) and a 'Sync with PC' button, 'Date Format' (YYYY-MM-DD), 'Time Format' (12-hour), a 'use DST' checkbox, and an 'Ahead Of Time' field (0 Minute). 'Previous' and 'Next' navigation buttons are at the bottom.

Figure 3.4

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

The screenshot shows the 'Setup Wizard' interface for 'Step 3 of 4 - Wireless Settings'. It features a 'Wireless Network List' table, a 'Scan' button, and fields for 'SSID', 'Encryption', and 'Password'. Red boxes and numbers 1, 2, and 3 highlight the 'Scan' button, the selected network row, and the password field respectively.

SSID(Network Name)	Encryption	Quality
TP-LINK_liyo	WPA/WPA2	Full
TP-LINK_wyy	WPA/WPA2	Good
333	WPA2	Good

SSID: TP-LINK_liyo
Encryption: WPA/WPA2
Password: [Empty field]
The maximum password length is 63, including numbers, letters and symbols

Figure 3.5

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

Setup Wizard

Step 4 of 4 - IP Configuration

Obtain IP From DHCP ☒

IP Address	172.16.0.65
Subnet Mask	255.255.0.0
Gateway	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0

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

Figure 3.6

NOTE:

It takes about 1 minute to connect the camera to your router.

3.4 Surveillance Window

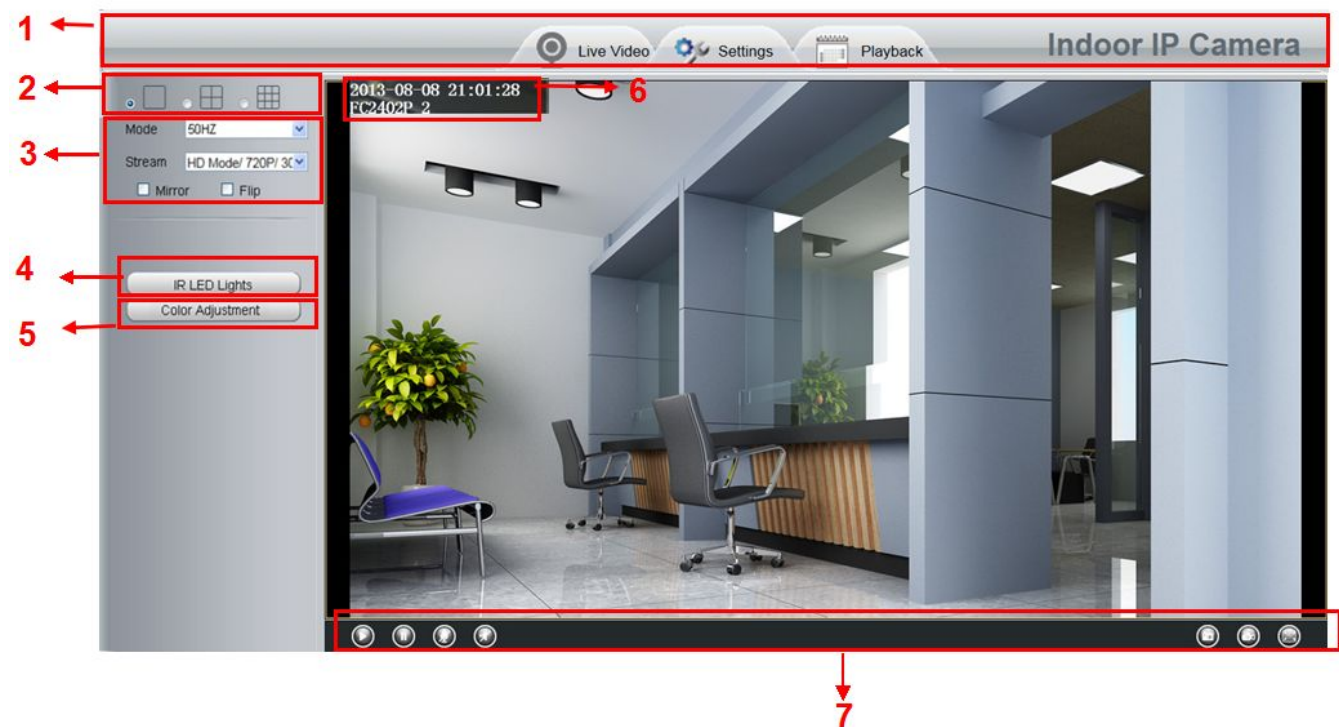


Figure 3.7

Section1 LiveVideo / Settings/Playback buttons

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

 **Settings**: Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel and

do advanced settings.



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

Section2 Multi-Device Window



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

Section3 Mode/ Stream / 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/30fps/2M meanings: Stream type / Resolution / Maximum frame rate/ Bit rate. (Different models support different specific mode.)

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

2) 720P/ VGA

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

3) Maximum frame rate

When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video. The maximum frame rate for each model is different, please see the “Specifications”.

4) Bit rate

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

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

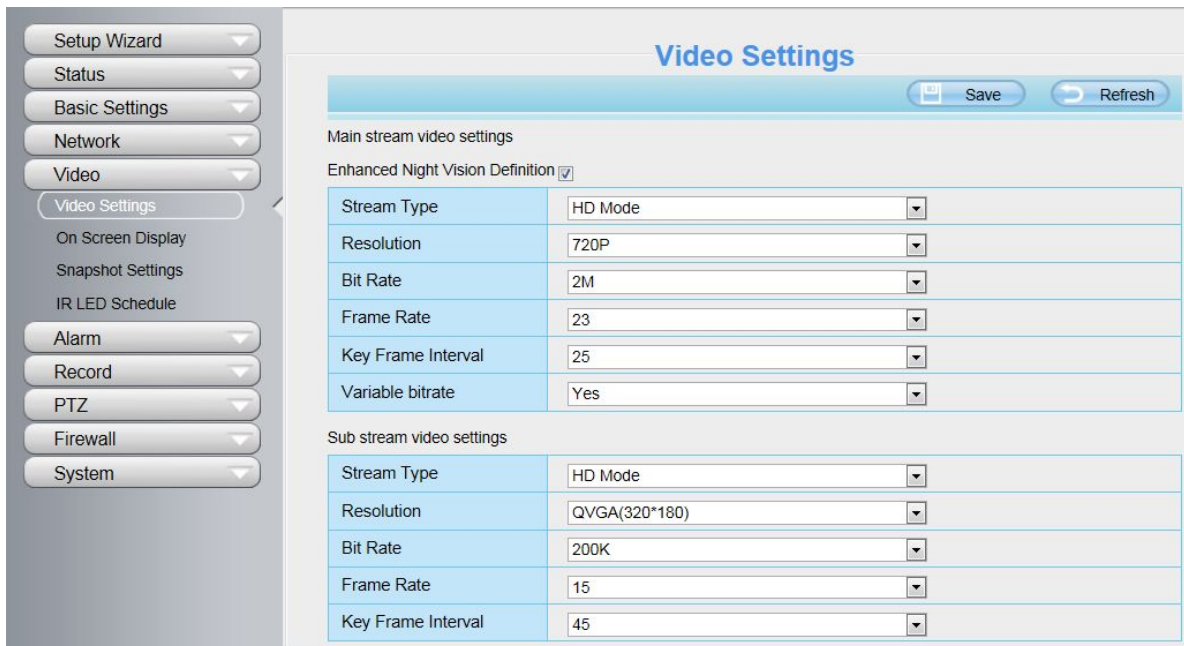
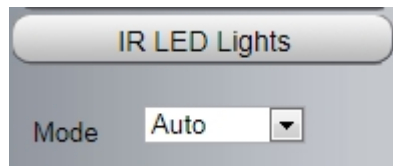


Figure 3.8

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

Section4 IR LED Lights



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

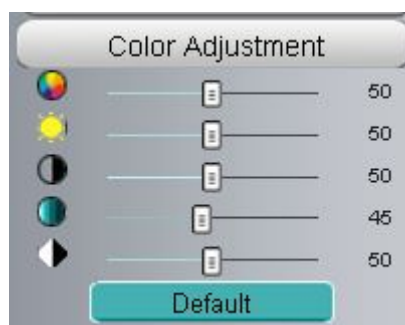
Auto: Select it and the camera will adjust the infra led (on or off) automatically.

Manual: Select it and you can turn on or turn off the infrared 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.

Section5 Image quality settings

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



Section6 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.

Section7 Play/Stop/ Talk/Audio/ Snap/ Record/ Full screen button



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

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

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

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

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

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

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

Onscreen Mouse Control

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

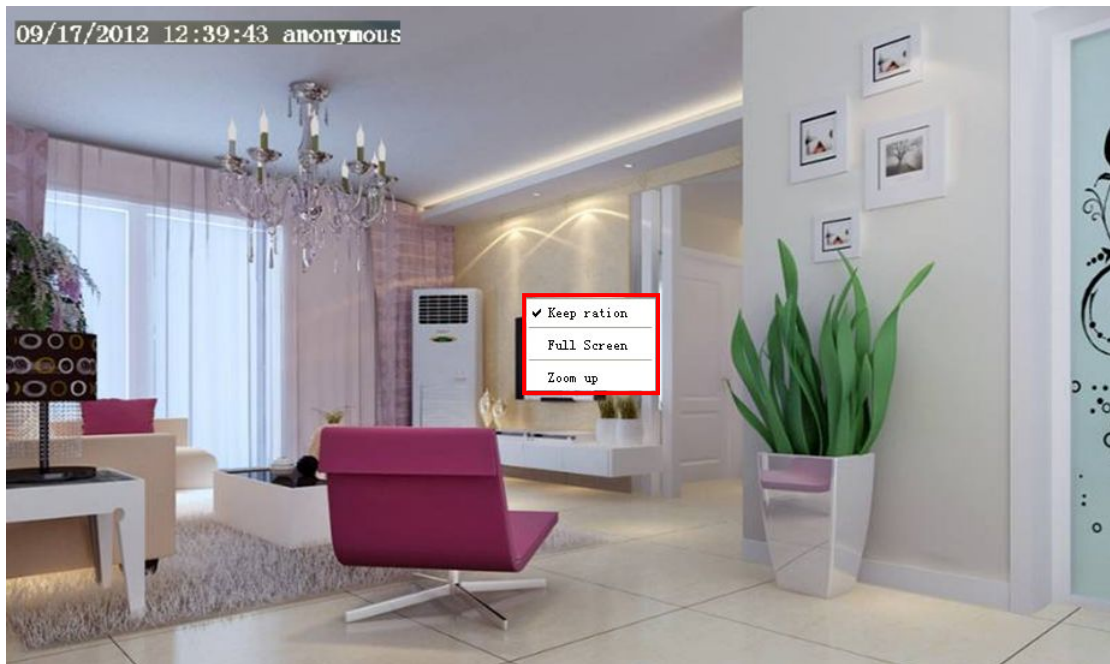


Figure 3.10

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

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

Zoom up:

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

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

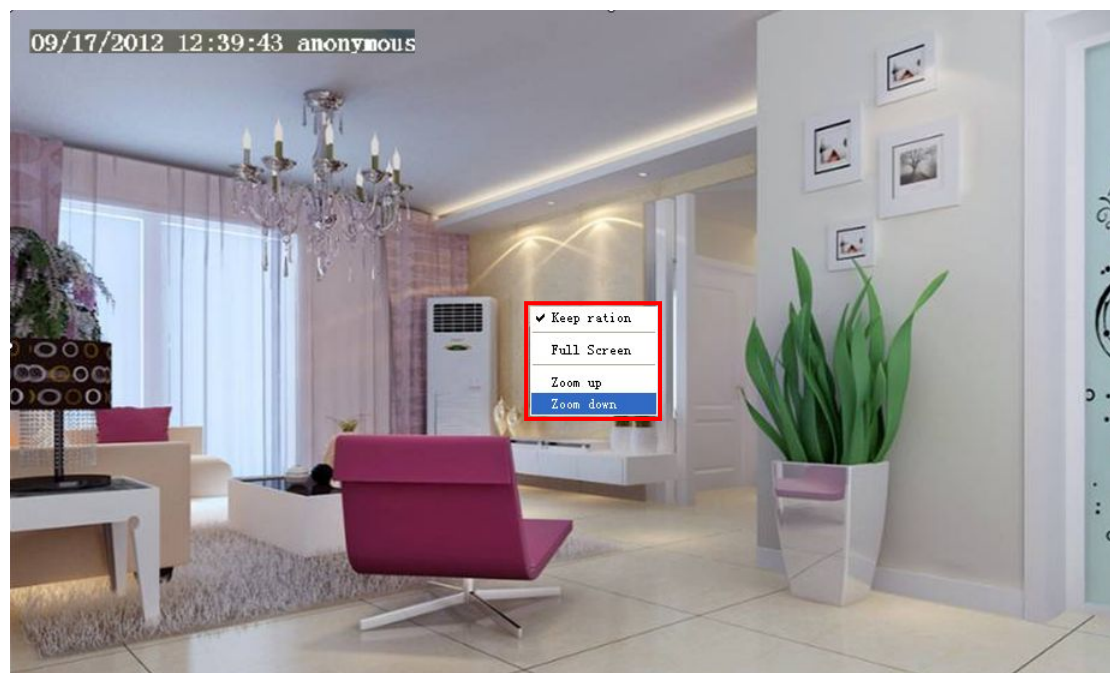


Figure 3.11

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

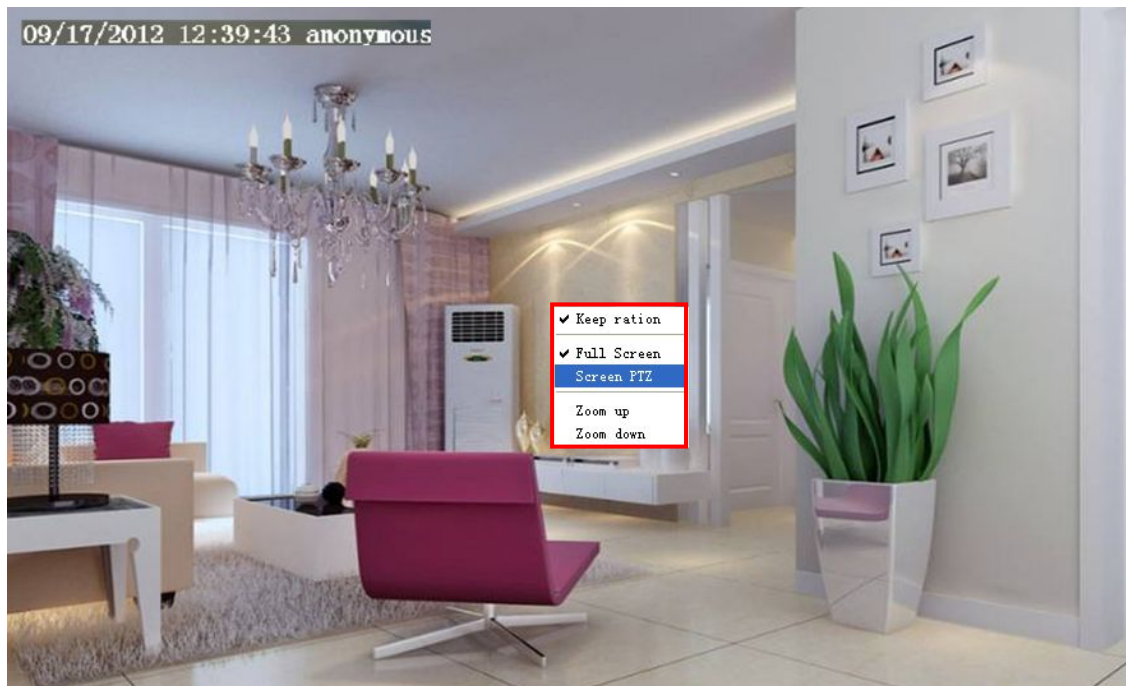


Figure 3.12

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

NOTE:

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

4 Advanced Camera Settings

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

4.1 Status

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

4.1.1 Device Information



Refresh	
Camera Model	anonymous
Camera Name	anonymous
Camera ID	00841F19804W
Camera Time	2013/10/21 16:12:07
System Firmware Version	1.4.1.7
Application Firmware Version	1.14.1.20
Plug-In Version	2.0.1.6

Figure 4.1

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.

Application Firmware Version: Display the application firmware version of your camera.

Plug-In Version: Display the plug-in version of your camera

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

4.1.2 Device Status

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

Device Status	
Refresh	
Alarm Status	Disabled
Recording Status	Not Recording
SD Card Status	No SD card
SD Card Free Space	0KB
SD Card Total Space	0KB
NTP Status	Failed
DDNS Status	Disabled
UPnP Status	Disabled
WiFi Status	Not connected
IR LED Status	Off

Figure 4.2

4.1.3 Session Status

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

Session Status	
Refresh	
Username	IP Address
1	172.16.0.33

Figure 4.3

4.1.4 Log

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

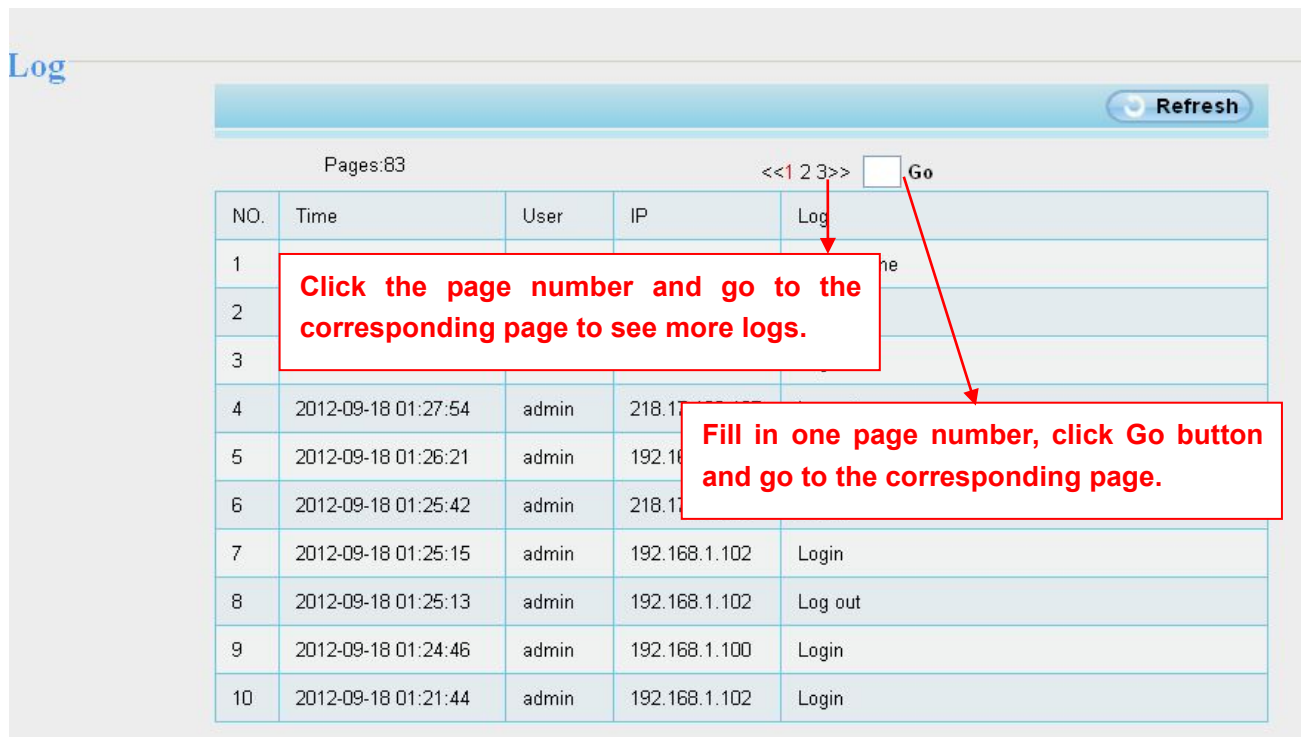


Figure 4.4

Reboot the camera and clear the log records.

4.2 Basic Settings

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

4.2.1 Camera Name

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

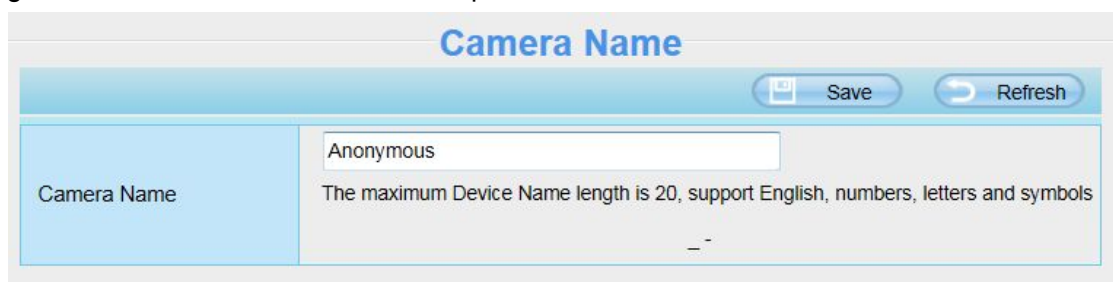


Figure 4.5

4.2.2 Camera Time

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

Camera Time

Save Refresh

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

Sync with NTP server ☒

NTP Server time.nist.gov

PC Time 1970-1-1 01 53 27 AM Sync with PC

Date Format YYYY-MM-DD

Time Format 12-hour

use DST ☐

Ahead Of Time 0 Minute

Figure 4.6

Time Zone: Select the time zone for your region from the drop-down menu.

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

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

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

use DST: Select the use DST, then select the daylight saving time from the drop-down menu.

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

4.2.3 User Accounts

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

User Accounts

Refresh

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

Username

Privilege

☐ Change username

☐ Change password

The maximum username length is 20, including numbers, letters and symbols _ - @ \$ *
 The maximum password length is 12, including numbers, letters and symbols ~ ! @ # % ^ * () _ + { } : " | < > ? ' - ; ' \ , . /

Figure 4.7

How to change the password of administrator?

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

User Accounts

Refresh

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

Username

Password

New password

Security Level

Confirm the password

Privilege

☐ Change username

☒ Change password

Modify

The maximum username length is 20, including numbers, letters and symbols _ - @ \$ *
 The maximum password length is 12, including numbers, letters and symbols ~ ! @ # % ^ * () _ + { } : " | < > ? ' - ; ' \ , . /

Figure 4.8

How to add account ?

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

User Accounts

Refresh

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

Username

Password

Security Level Low security level.

Confirm the password

Privilege

☐ Change username

☐ Change password

Add

The maximum username length is 20 including numbers,
letters and symbols _ - @\$*

The maximum password length is 12 not including the
character & = \$

Figure 4.9

User Accounts

Refresh

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

Username

Privilege

☐ Change username

☐ Change password

Delete

The maximum username length is 20 including numbers,
letters and symbols _ - @\$*

The maximum password length is 12 not including the
character & = \$

Figure 4.10

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

NOTE:

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

4.2.4 Multi-Camera

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

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

Add cameras in LAN

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

The screenshot shows the 'Multi-Camera' configuration page. At the top, there's a list of 'Cameras On LAN' with entries like 'Anonymous(172.16.0.33)', 'FC2401P(172.16.0.42)', and 'FC2401P(172.16.0.113)'. The third entry is highlighted. Below this is a 'Refresh' button. The main section is divided into 'The 1st Camera' (set to 'This Camera') and 'The 2nd Camera' (set to 'None'). Below these are input fields for 'Camera Model' (H264), 'Camera Name' (FC2401P), 'Host' (172.16.0.113), 'HTTP Port' (34100), 'Media Port' (34100), 'Username' (admin), and 'Password'. At the bottom are 'Add' and 'Delete' buttons. Three red callout boxes provide instructions: Box 1 points to the device list entry, stating 'Click it, camera model, alias, host and HTTP Port will be filled in the following boxes automatically'. Box 2 points to the 'Username' and 'Password' fields, stating 'Enter the User name and password of the 2nd camera'. Box 3 points to the 'Add' button, stating 'Click Add to take effect'.

Cameras On LAN	Refresh
Anonymous(172.16.0.33)	
FC2401P(172.16.0.42)	
FC2401P(172.16.0.113)	
Anonymous(172.16.0.13)	
Anonymous(172.16.0.23)	

The 1st Camera	The 2nd Camera
This Camera	None

Camera Model	H264
Camera Name	FC2401P
Host	172.16.0.113
HTTP Port	34100
Media Port	34100
Username	admin
Password	

Add Delete

Figure 4.11

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

Cameras On LAN		anonymous(192.168.11.193) anonymous(192.168.11.241) anonymous(192.168.11.203) anonymous(192.168.11.243)	Refresh
The 1st Camera	This Camera		
The 2nd Camera	anonymous(192.168.11.203)		
The 3rd Camera	anonymous(192.168.11.241)		
The 4th Camera	anonymous(192.168.11.203)		
The 5th Camera	None		
The 6th Camera	None		
The 7th Camera	None		
The 8th Camera	None		
The 9th Camera	None		

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

Figure 4.12

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

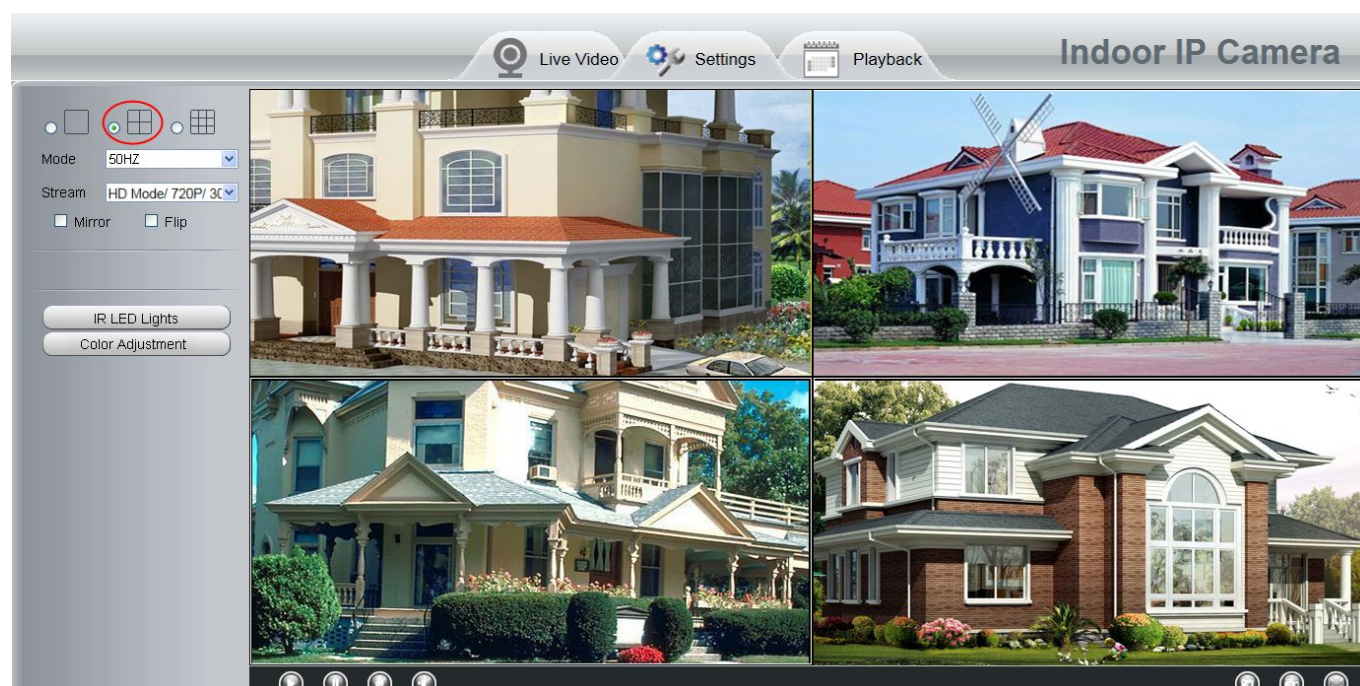


Figure 4.13

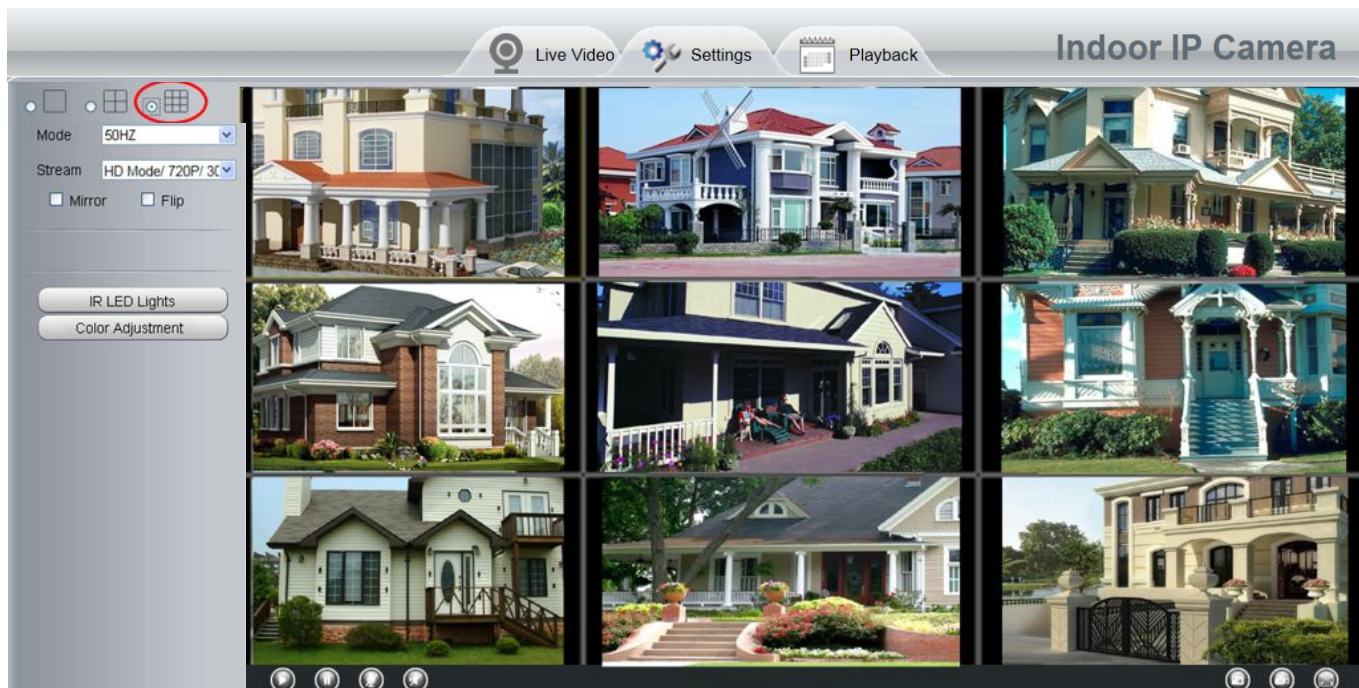


Figure 4.14

Add cameras in WAN

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

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

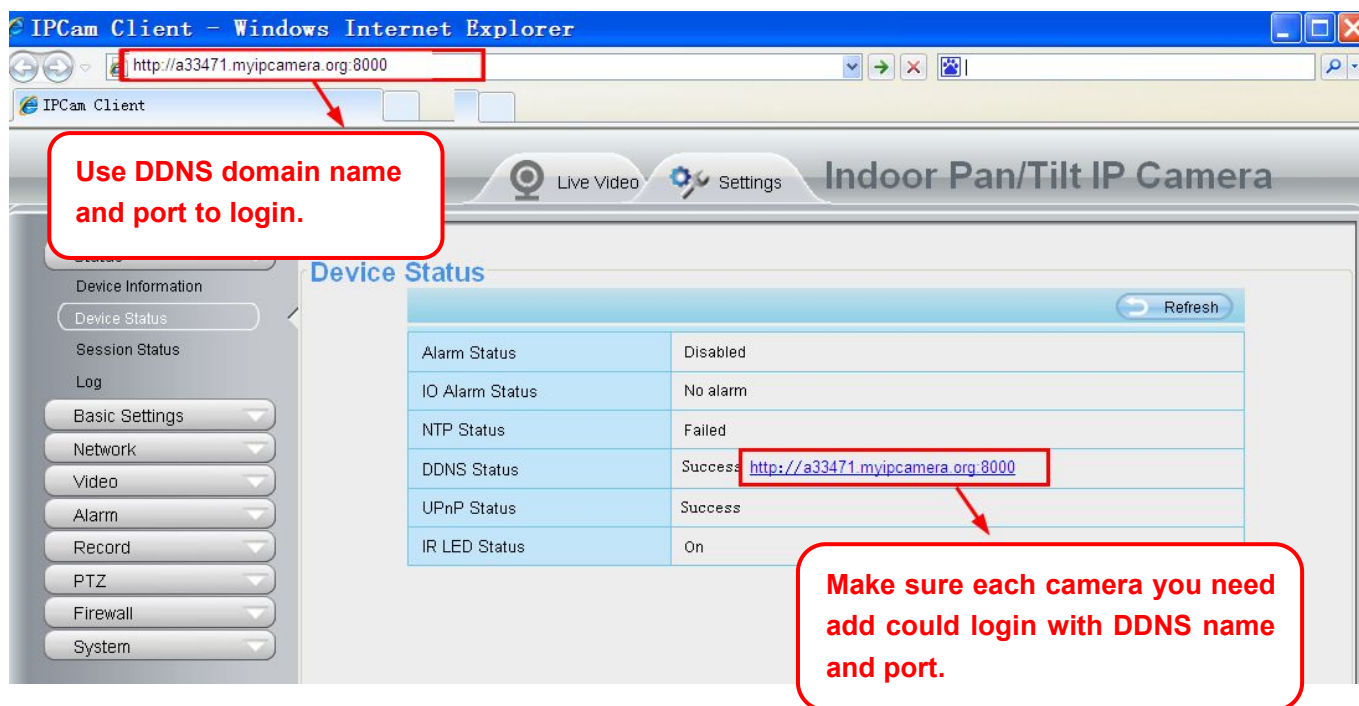


Figure 4.15

Click **Multi-Device Settings**. Choose **The 2nd Device**. Fill in the 2nd camera's name, DDNS domain name, port number. Enter user name and password and then choose Add. (Figure 4.19)

Cameras On LAN	anonymous(192.168.11.20) anonymous(192.168.11.24j) anonymous(192.168.11.203)	Refresh
The 1st Camera	This Camera	
The 2nd Camera	anonymous(192.168.11.203)	
Camera Model	MJ	1
Camera Name	apple	2
Host	camera.no-ip.info	
HTTP Port	801	3
Media Port	801	
Username	admin	4
Password		
	Add Delete	
The 3rd Camera	None	
The 4th Camera	None	

Figure 4.16

1----- The camera model: MJ or H264.

2----- The 2nd camera's name

3----- Fill in the 2nd camera's DDNS host not LAN IP

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.

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

Figure 4.17

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

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

4.2.5 Status Light

You can enable or disable status light.

Status Light	
Save Refresh	
Enable Status Light	Yes

4.3 Network

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

4.3.1 IP Configuration

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

The IP Configuration window displays the following settings:

Field	Value
IP Address	172.16.0.90
Subnet Mask	255.255.0.0
Gateway	172.16.0.1
Primary DNS Server	192.168.8.8
Secondary DNS Server	211.162.78.1

Obtain IP From DHCP ☒

Buttons: Save, Refresh

Figure 4.18

Changing settings here is the same as using the Equipment Search Tool.

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

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

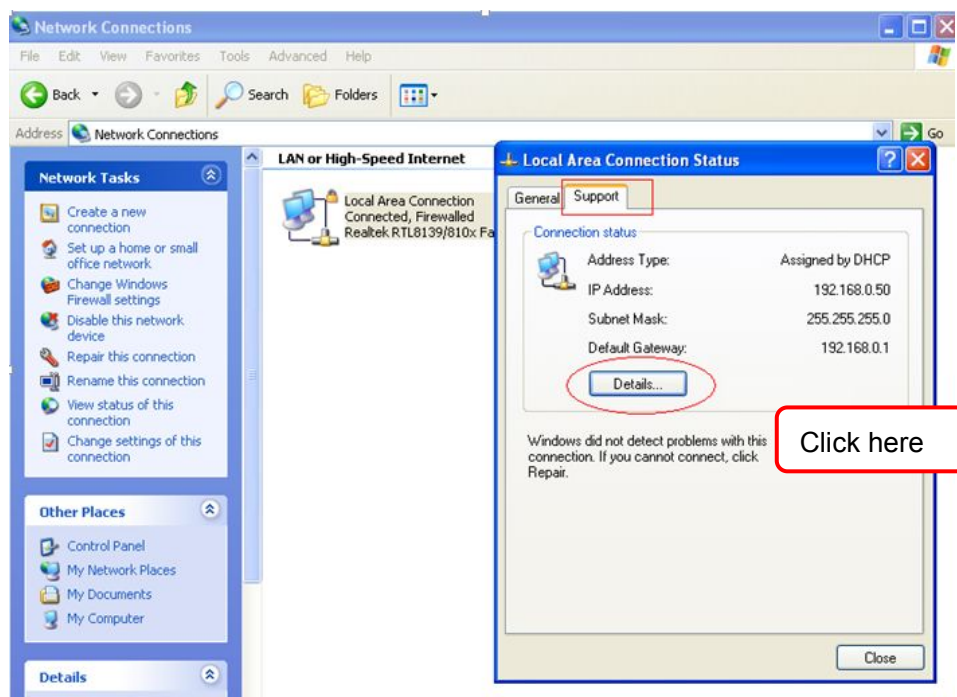


Figure 4.19

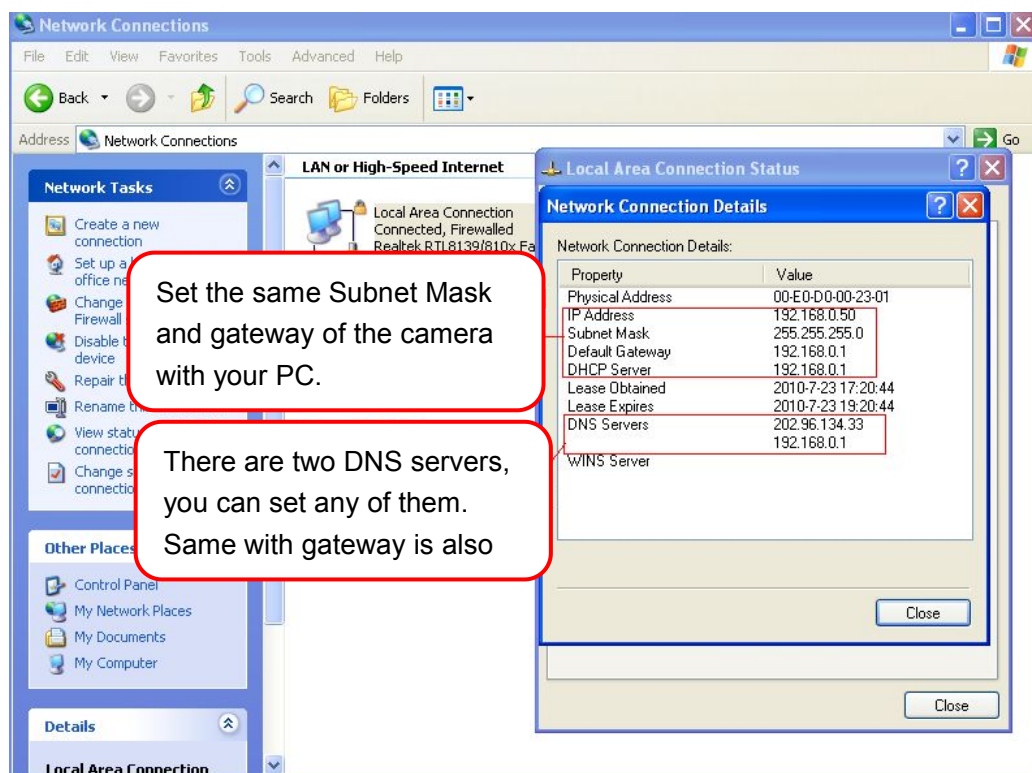


Figure 4.20

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

4.3.2 Wireless Settings

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

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

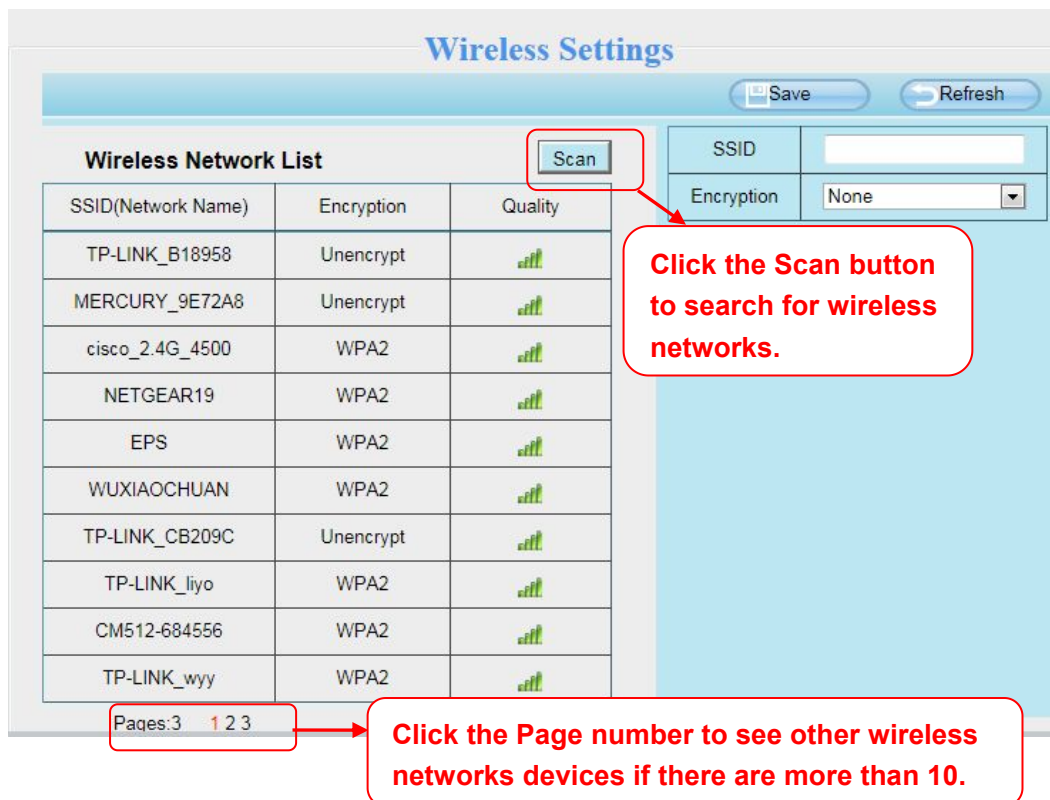


Figure 4.21

Step 2: Click the SSID (name of your router) in the list, the corresponding information related to your network, such as the name and the encryption, will be filled into the relevant fields automatically. You will only need to fill in the password of your network. Make sure that the SSID, Encryption and the password you filled in are exactly the same for your router.

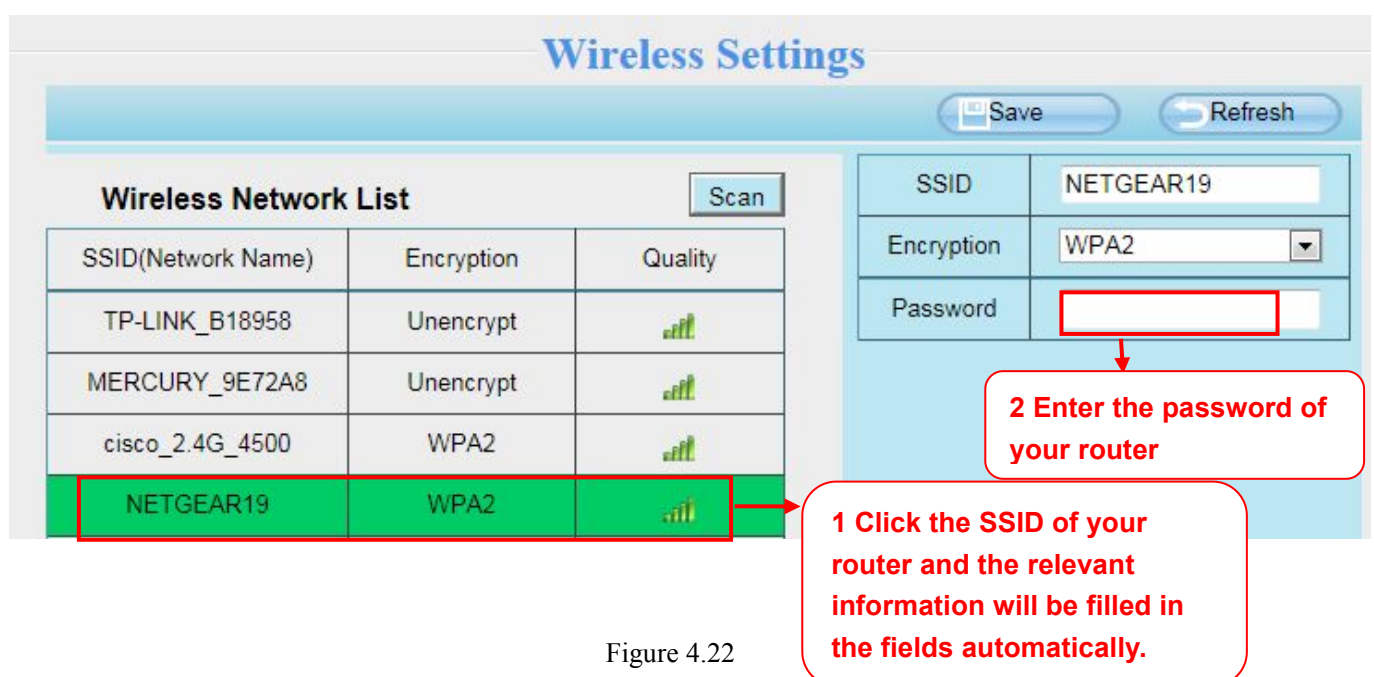


Figure 4.22

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 Equipment Search 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 Equipment Search 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 Equipment Search Tools, setting a static IP, and pushing OK (see Figure4.36).

Congratulations! You have set up the wireless connection of the camera successfully.

NOTE:

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

WPS (Wi-Fi Protected Set-up)

Step 01) Press and hold the WPS button for **two seconds**.

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

The camera will automatically create a secure wireless connection to your router. If you have plugged in the network cable, please plug it out. The Equipment Search 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.

4.3.3 DDNS

Each 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.

Ip camera domain name

Here take a33471.myipcamera.org for example. Go to option of **DDNS** on the **Settings->Network** panel, you can see the domain name.

DDNS

Save Refresh

Enable DDNS ☒

Manufacturer's DDNS

Manufacturer's DDNS	a33471.myipcamera.org	Restore DDNS to factory
---------------------	-----------------------	-------------------------

Third Party DDNS

DDNS Server	None ▼
Domain	

Figure 4.23

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

Take hostname **a33471.myipcamera.org** and HTTP Port no. 800 for example, the accessing link of the camera via internet would be [http:// a33471.myipcamera.org:8000](http://a33471.myipcamera.org:8000)

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

Third Party Domain Name Settings

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

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

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

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

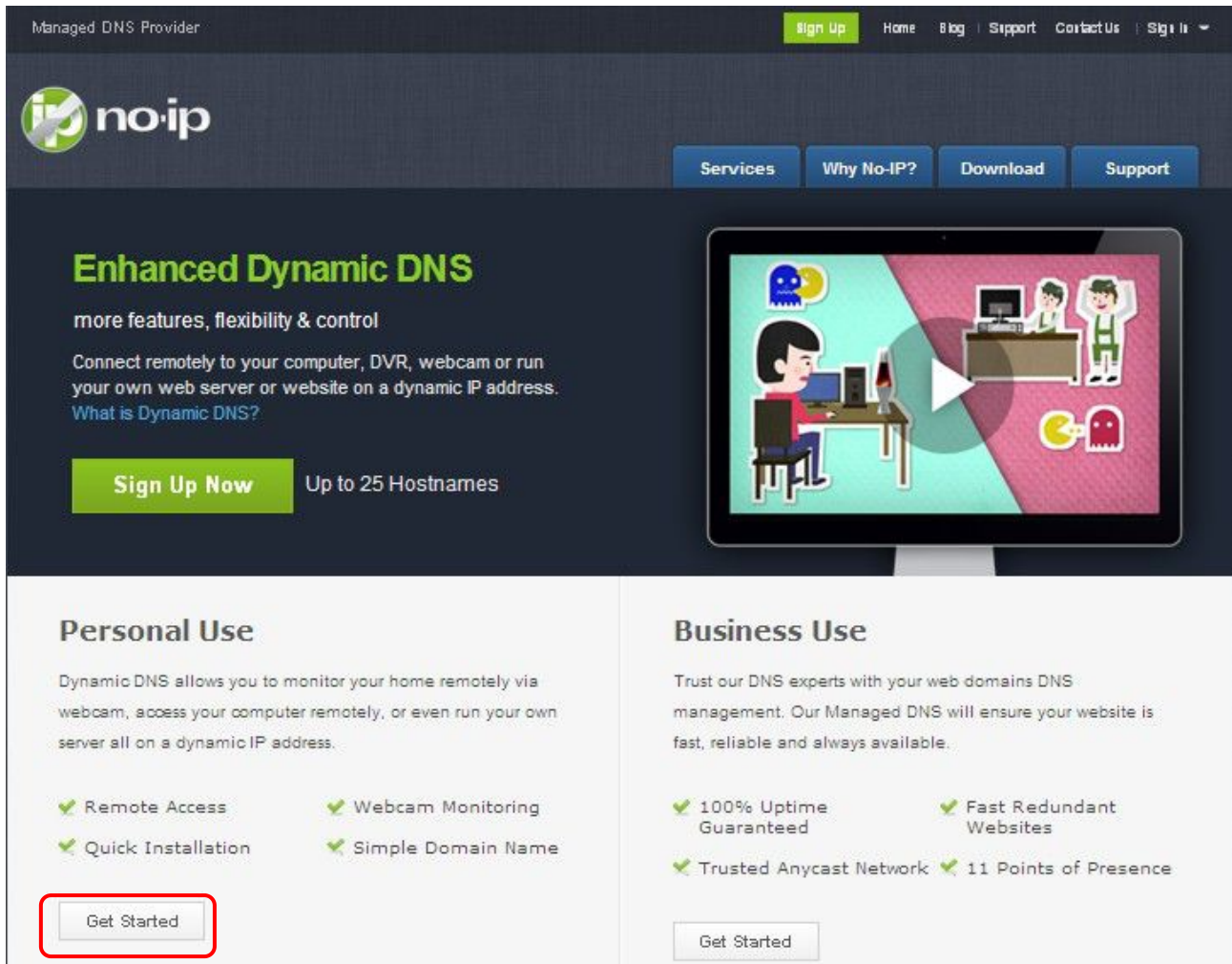


Figure 4.24

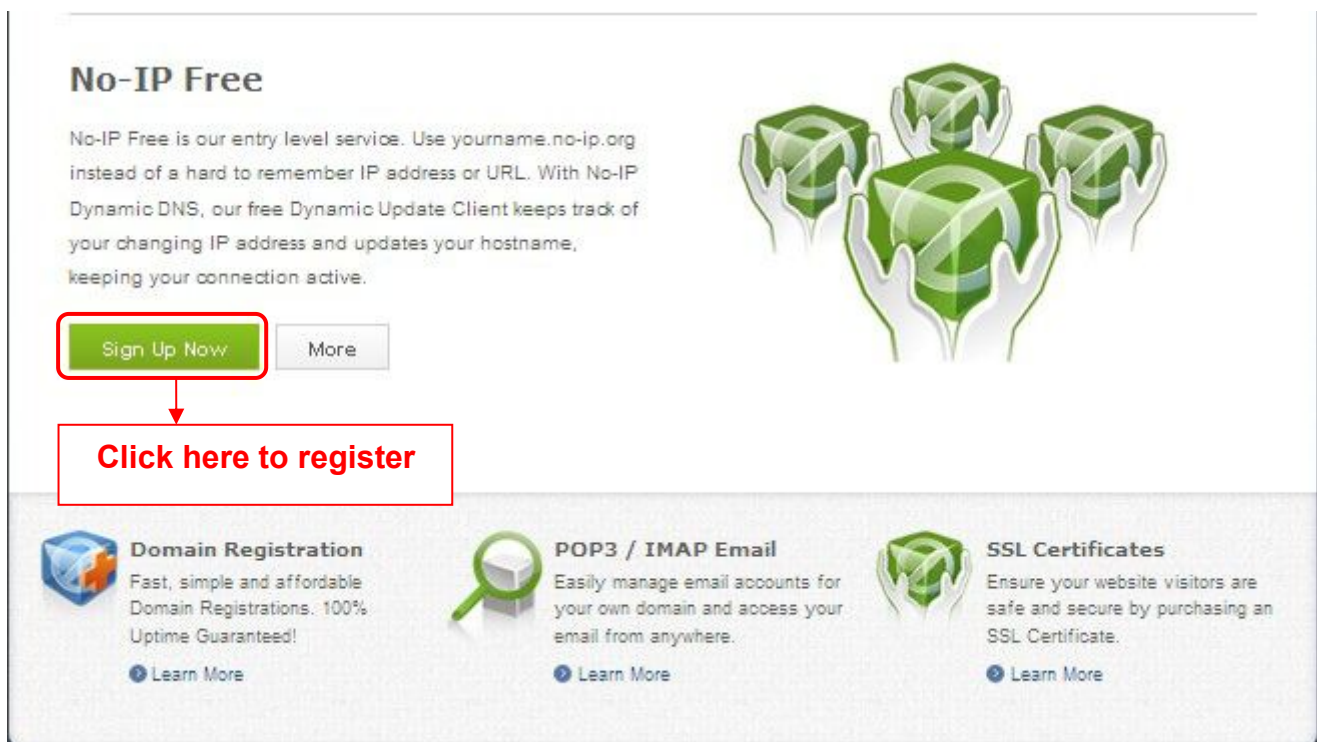


Figure 4.25

Please register an account step by step according to instructions on www.no-ip.com

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

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

no-ip
The DNS Service Provider

Home Download Services Support Company

Client Login

Home » [Client Login](#)

Email:

Password:

[Login](#)

[Forget your password? No problem, Click Here](#)

If you are not currently a registered user of No-IP.com, and would like to be for FREE, [register](#) as a new user.

User Login

Username:

Password:

[Create Account](#) [Forgot password?](#) [Login](#)

Additional Services

- No-IP Enhanced**
Upgrade your No-IP account to unlock many exciting features.
- No-IP Backup DNS**
Maximize uptime and add Anycast to your existing DNS infrastructure.
- No-IP Monitoring**

Figure 4.26

Hosts/Redirects | DNS Hosting | Domain Registration | Mail | SSL Certificates | Monitoring | Backup DNS | Renew/Activate

Your No-IP

Cuixiang, welcome to your No-IP! Last Login: 2012-04-04 21:40:56 PDT from IP 65.49.14.58

You have successfully logged into No-IP's member section. To start using No-IP's services select an icon below or choose an item from the navigation above.

Manage Domains

Add Domain

Refer Friend

Add a Host

Manage Hosts

Need Help?

- Support Center
- Basic Troubleshooting Guide
- Support Ticket
- Contact Us

Get Connected

Own a domain name?

Use your own domain name with our DNS system. [Add](#) your domain name now or [read more](#) for pricing and features

Your No-IP Alerts

You do not have any notices at this time

Check this spot for important information regarding your account such as expiring services and trouble tickets.

Please create the domain name step by step according to instructions on www.no-ip.com

Step 2, DO DDNS Service Settings within the Camera

Please set **DDNS Settings** within the camera by **hostname**, a **user name** and **password** you've got from www.no-ip.com

Take **hostname ycxgwp.no-ip.info**, user name **ipcamera**, password **ipcamera2012** for example.

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

Secondly, select No-Ip as a server..

Thirdly, fill **ipcamera** as DDNS user, fill password **ipcamera2012** as DDNS password, fill **ycxgwp.no-ip.info** as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

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

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

NOTE:

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

② Do port forwarding within the router

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

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

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

Applications & Gaming

Setup | Wireless | Security | Access Restrictions | **Applications & Gaming** | Administration | Status

Single Port Forwarding | Port Range Forwarding | Port Range Triggering | DMZ | QoS

Single Port Forwarding

Application Name

None | None | None | None | None | **Http** | Media

Application Name	External Port	Internal Port	Protocol	To IP Address	Enabled
None	---	---	---	192.168.8. []	☐
None	---	---	---	192.168.8. []	☐
None	---	---	---	192.168.8. []	☐
None	---	---	---	192.168.8. []	☐
None	---	---	---	192.168.8. []	☐
Http	2000	2000	Both	192.168.8. 100	☒
Media	9200	9200	Both	192.168.8. 100	☒
			Both	192.168.8. []	☐

Help...

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

Assign a name as you like here

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

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

Figure 4.28

③ Use domain name to access the camera via internet

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

4.3.4 UPnP

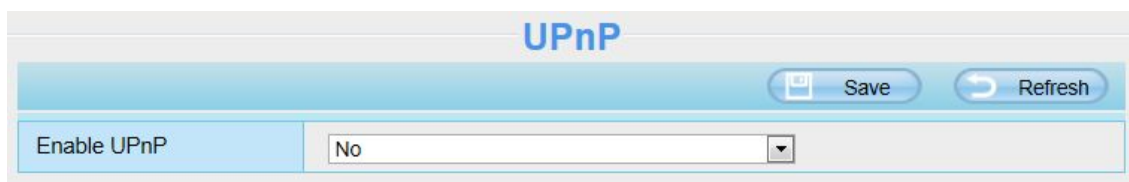


Figure 4.29

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



Figure 4.30

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

4.3.5 Port

This camera supports HTTP Port / HTTPS Port/ ONVIF Port. HTTP Port is used to access the camera remotely. If you want to access the camera and view the video.

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

Port	
HTTP Port	88
HTTPS Port	443
ONVIF Port	888
RTSP port	554

Save Refresh

Figure 4.31

Another way to change the HTTP port NO.

Step 1: Open the Equipment Search Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 4.35 and 4.36.

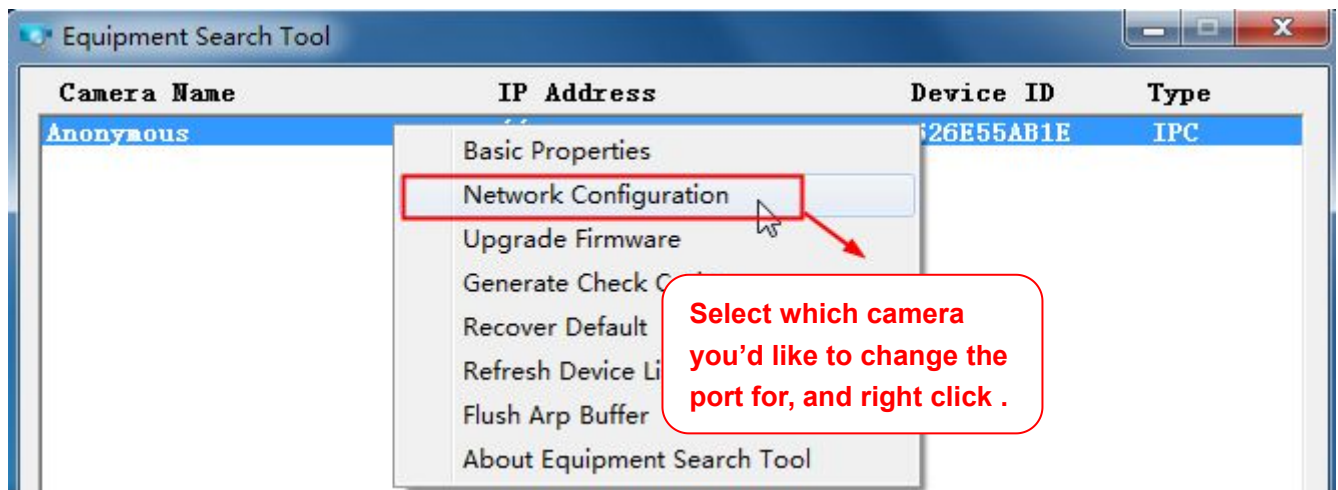


Figure 4.32

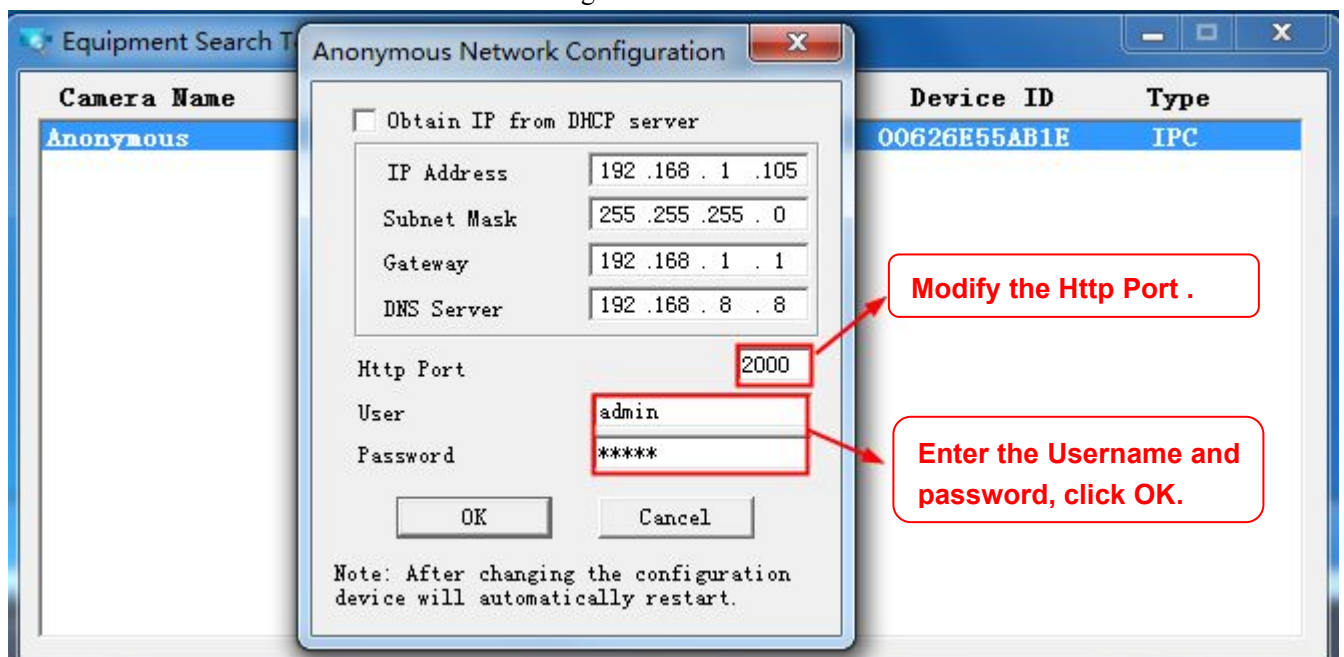


Figure 4.33

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

Step 3: Wait around 10 seconds, you’ll see that the camera’s LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.1.110:2000 in Equipment Search Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.1.110:2000 . 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!



The screenshot shows a window titled "Equipment Search Tool" with a table containing the following data:

Camera Name	IP Address	Device ID	Type
Anonymous	Http://192.168.1.105:2000	00626E55AB1E	IPC

Figure 4.34

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

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.](https://IP+HTTPS+port)

RTSP port: The default port is 554. Only some IP Cameras have RTSP port.

4.3.6 Mail Settings

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

The screenshot shows a 'Mail Settings' form with the following fields and annotations:

- Annotation 1:** Points to the SMTP Server, SMTP Port, and Transport Layer Security fields.
- Annotation 2:** Points to the SMTP Username and SMTP Password fields.
- Annotation 3:** Points to the Sender E-mail field.
- Annotation 4:** Points to the First Receiver, Second Receiver, Third Receiver, and Fourth Receiver fields.
- Annotation 5:** Points to the Save button.
- Annotation 6:** Points to the Test button.

The form includes a 'Save' button (5) and a 'Refresh' button. The 'Enable' checkbox is checked. The SMTP Server is 'smtp.gmail.com', SMTP Port is '25', and Transport Layer Security is 'STARTTLS'. The SMTP Username is 'test123@gmail.com' and the SMTP Password is masked with dots. The Sender E-mail is 'test123@gmail.com'. The First Receiver is 'test@163.com', Second Receiver is 'tset@hotmail.com', and the Third and Fourth Receivers are empty.

Figure 4.35

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.

The screenshot displays the 'Mail Settings' window. At the top, there are 'Save' and 'Refresh' buttons. Below them is an 'Enable' checkbox which is checked. The settings are organized into a table-like structure with labels on the left and input fields on the right. The 'SMTP Server' is set to 'smtp.gmail.com'. The 'SMTP Port' is '25'. The 'Transport Layer Security' is set to 'STARTTLS'. The 'Need Authentication' is set to 'Yes'. The 'SMTP Username' is 'test123@gmail.com'. The 'SMTP Password' is masked with dots. The 'Sender E-mail' is 'test123@gmail.com'. Below the 'Sender E-mail' field, there is a 'Test' button and a green box containing the word 'Success'. A red arrow points from this 'Success' box to a red-bordered box on the right that says 'Test result'. Below the 'Sender E-mail' field, there are four more rows for 'First Receiver', 'Second Receiver', 'Third Receiver', and 'Fourth Receiver', each with an input field. The 'First Receiver' field contains 'test@163.com'.

Enable	☒
SMTP Server	smtp.gmail.com
SMTP Port	25
Transport Layer Security	STARTTLS
Need Authentication	Yes
SMTP Username	test123@gmail.com
SMTP Password	
Sender E-mail	test123@gmail.com
First Receiver	test@163.com
Second Receiver	test@hotmail.com
Third Receiver	
Fourth Receiver	

Figure 4.36

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

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

- 1) Cannot connect to the server
- 2) Network Error. Please try later
- 3) Server Error
- 4) Incorrect user or password
- 5) The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again
- 6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server
- 7) The message is denied by the server. Maybe because of the anti-spam privacy of the server
- 8) The server does not support the authentication mode used by the device

4.3.7 FTP Settings

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

FTP Settings

Save Refresh

FTP Server	ftp://192.168.1.103/dir Example:ftp://192.168.1.103/dir The maximum length of the address is 127, does not support the character & =
Port	21
FTP Mode	PORT
Username	test The maximum length of the user name is 63, support Simplified Chinese, numbers, letters and symbols _ @ \$ * - , . # !
Password	 The maximum password length is 63, including numbers, letters and symbols ~ ! @ # * () _ { } : " < > ? ` - ; ' \ , . /

Test

Figure 4.37

FTP Settings

Save Refresh

FTP Server	ftp://ftp.mgenseal.com Example:ftp://192.168.1.103/dir The maximum length of the address is 127, does not support the character & =
Port	21
FTP Mode	PORT
Username	test The maximum length of the user name is 63, support Simplified Chinese, numbers, letters and symbols _ @ \$ * - , . # !
Password	 The maximum password length is 63, including numbers, letters and symbols ~ ! @ # * () _ { } : " < > ? ` - ; ' \ , . /

Test

Figure 4.38

FTP server: If your FTP server is located on the LAN.

If you have an FTP server which you can access on the internet.

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

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

Username/password: The FTP account and password.

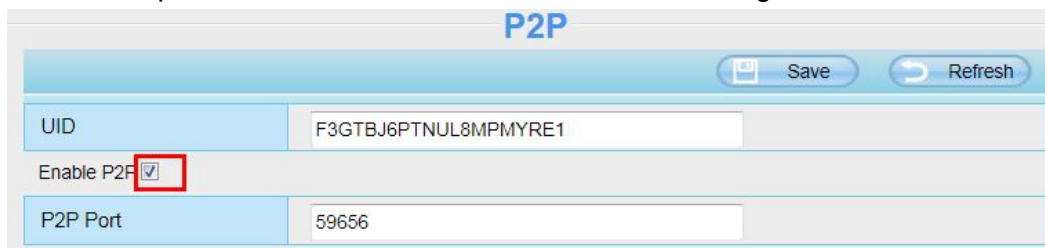
Click **Save** to take effect.

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

4.3.8 P2P

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

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



P2P	
Save Refresh	
UID	F3GTBJ6PTNUL8MPMYRE1
Enable P2P	☒
P2P Port	59656

Figure 4.39

4.3.9 Cloud Server

Cloud Server: IP camera support dropbox which is network disk to store record files and images. You can upload the record files and images to dropbox from your IP camera.

You need to configure the cloud server information to store the recording files.



Cloud Server	
Save Refresh	
Enable cloud server ☒	
Operators	Dropbox Note: In order to use cloud storage feature, you have to insert SD card first.
Total Capacity	0MB
Remaining Capacity	0MB
Status Information	status: set config ok
Authorized Address	Get Authorization Code Please enter the authorization page, access authorization code, enter authorization code in the text box below.
Authorization Code	Accept

Figure 4.40

Enable cloud server: you can check it to enable the cloud server.

Click the **Get Authorization Code** button, then you will enter the dropbox website. After signed in your dropbox's account, you will get the authorization code, copy it and paste to the **Authorization Code** textbox. Then click the **Accept** button. You will see the status at the **Status Information** textbox. When the **Status Information** display “status:set config ok”, click the **Save** button.

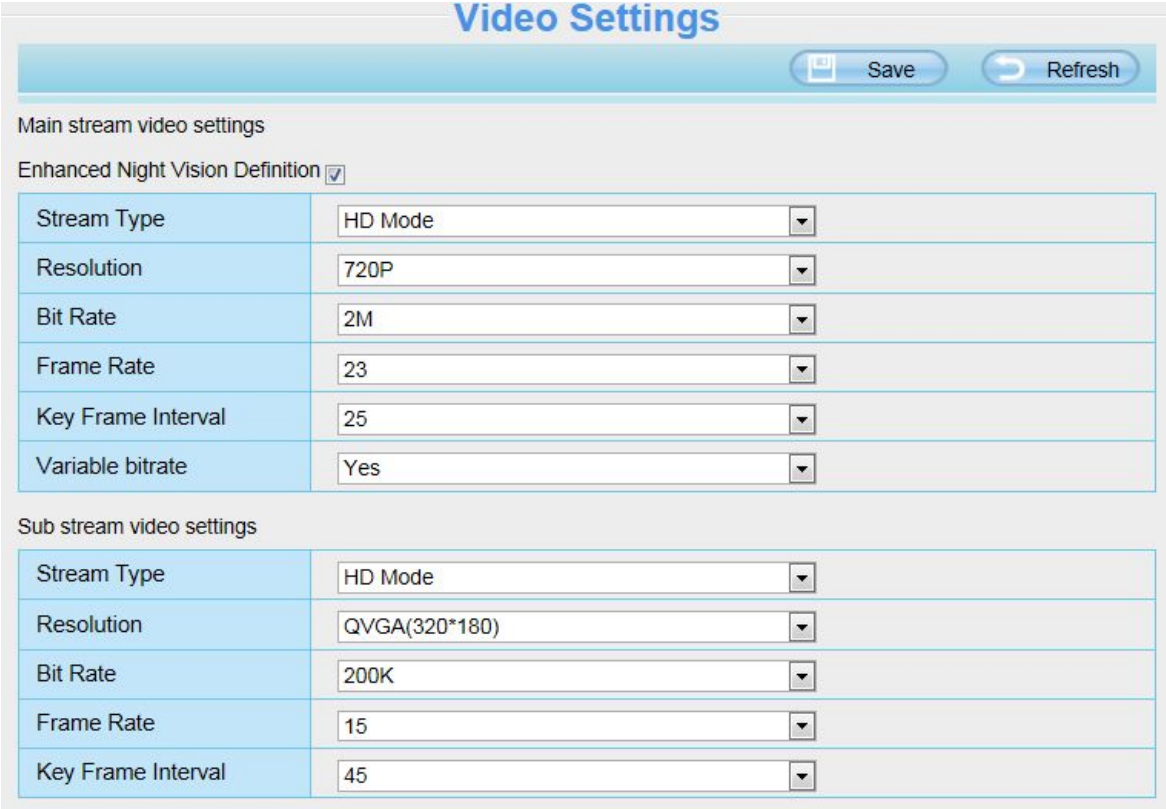
Note: You must plug the SD card into the camera before using the cloud storage feature.

4.4 Video

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

4.4.1 Video Settings

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



The screenshot shows a web interface titled "Video Settings". At the top right, there are "Save" and "Refresh" buttons. Below the title bar, there are two sections: "Main stream video settings" and "Sub stream video settings".

Main stream video settings

Enhanced Night Vision Definition ☒

Stream Type	HD Mode
Resolution	720P
Bit Rate	2M
Frame Rate	23
Key Frame Interval	25
Variable bitrate	Yes

Sub stream video settings

Stream Type	HD Mode
Resolution	QVGA(320*180)
Bit Rate	200K
Frame Rate	15
Key Frame Interval	45

Figure 4.41

Enhanced Night video Definition: 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, QVGA. The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth.

Bit Rate: Generally speaking, the larger the bit rate is, the clearer video will become. But the bit rate configuration should combine well with the network bandwidth. When the bandwidth is very narrow, and bit rate

is large, that will lead to video can not play well.

Frame Rate: Note that a larger frame size takes up more bandwidth. When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video. The maximum frame rate for each model is different, please see the "Specifications".

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: 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.

4.4.2 On Screen Display

This page is used to add time-stamp and device name on the video.



OSD	
Save Refresh	
Display Timestamp	Yes
Display Camera Name	Yes

Figure 4.42

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

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

4.4.3 Snapshot Settings

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

Snapshot Settings

Manual snap Quality	Medium
Pictures Save To	FTP

Enable timing to capture ☒

Capture interval	2 (1-65535s)
------------------	--------------

Enable set Filename ☒

Filename	
----------	--

⌚ Schedule

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

Figure 4.43

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. If you select the FTP, you can set the file name which the picture save to.

Enable timing to capture

To enable capture interval, follow the steps below:

1 Select Enable timing to capture

2 Capture interval: The interval time between two captures.

3 Select the capture time

- Capture anytime

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

- Specify an capture schedule

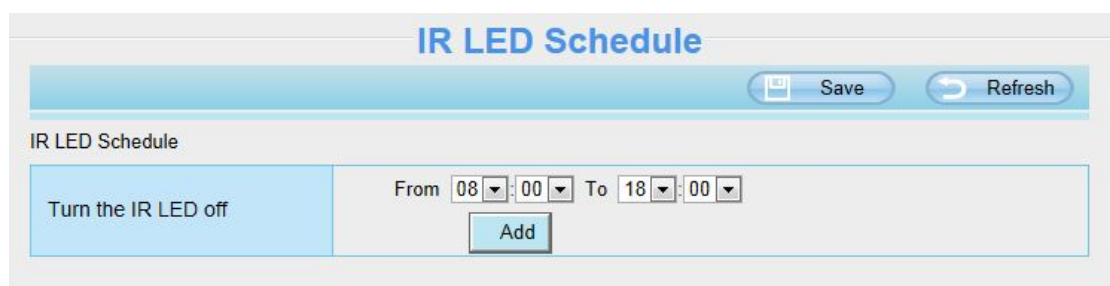
Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, the camera will capture.

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

4 Click Save button to take effect.

4.4.4 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.



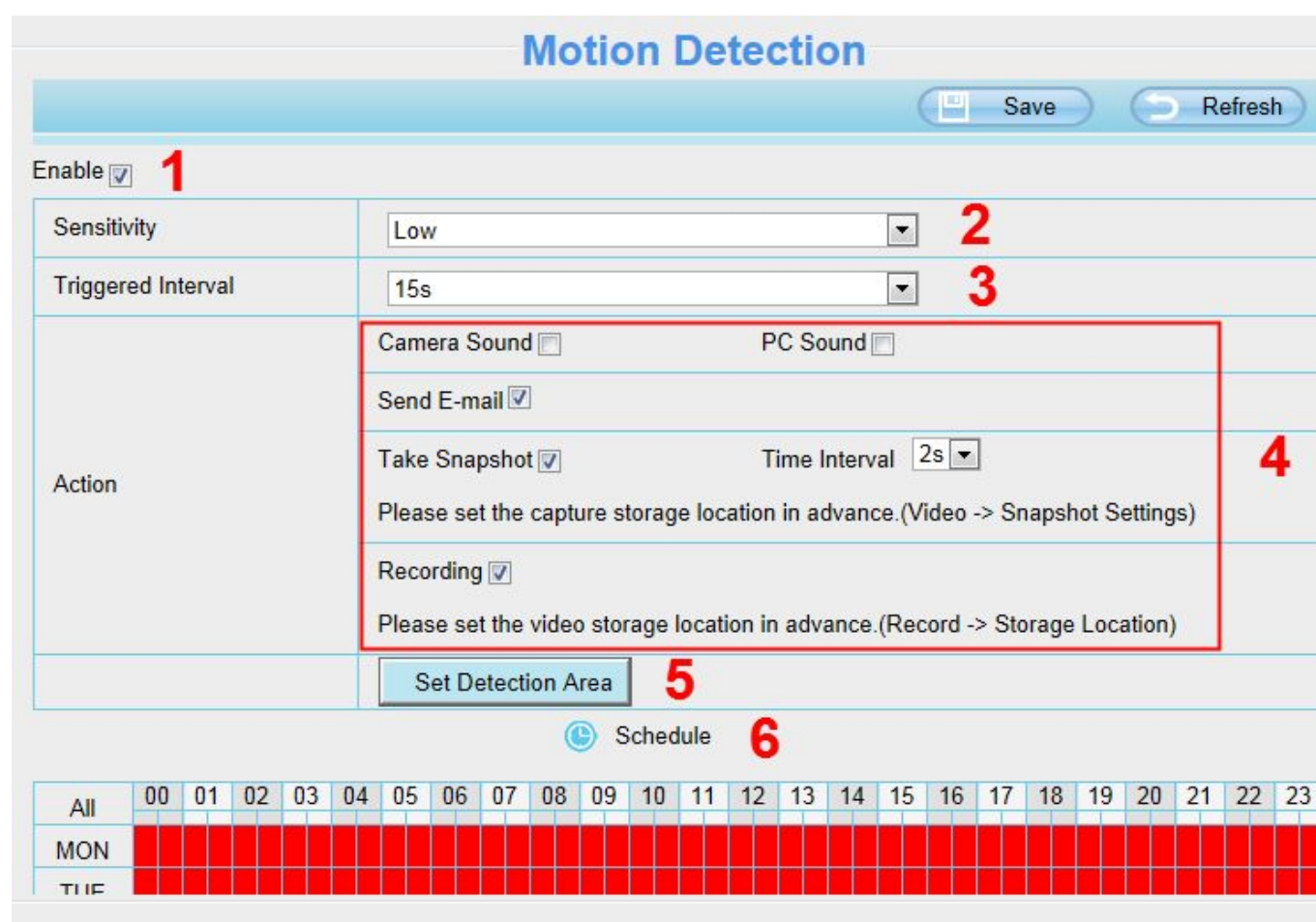
The interface is titled "IR LED Schedule". It features a "Save" button and a "Refresh" button. Below the title, there is a section labeled "IR LED Schedule". On the left, there is a button that says "Turn the IR LED off". To the right of this button, there is a time range selector with "From" and "To" labels. The "From" time is set to 08:00 and the "To" time is set to 18:00. Below the time range, there is an "Add" button.

Figure 4.44

4.5 Detector

4.5.1 Motion Detection

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



The interface is titled "Motion Detection". It features a "Save" button and a "Refresh" button. Below the title, there is a section labeled "Motion Detection".

1. **Enable**: A checkbox labeled "Enable" is checked.

2. **Sensitivity**: A dropdown menu is set to "Low".

3. **Triggered Interval**: A dropdown menu is set to "15s".

4. **Action**: A red box highlights the following options:

- Camera Sound ☐
- PC Sound ☐
- Send E-mail ☒
- Take Snapshot ☒
- Time Interval: 2s
- Please set the capture storage location in advance.(Video -> Snapshot Settings)
- Recording ☒
- Please set the video storage location in advance.(Record -> Storage Location)

5. **Set Detection Area**: A button labeled "Set Detection Area".

6. **Schedule**: A section labeled "Schedule" with a clock icon.

Calendar: A calendar grid showing days of the week (All, MON, TUE) and hours (00 to 23). The grid is currently empty.

Figure 4.45

To enable action detection, follow the steps below:

Step 01: Enable action detection

Step 02: 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 03: Trigger interval--- The interval time between two motion detection.

Step 04: Select the alarm indicator

There are some alarm indicators:

A Camera Sound and PC Sound

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.

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.

Capture interval: The interval time between two pictures.

Step 05: Set detect area

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

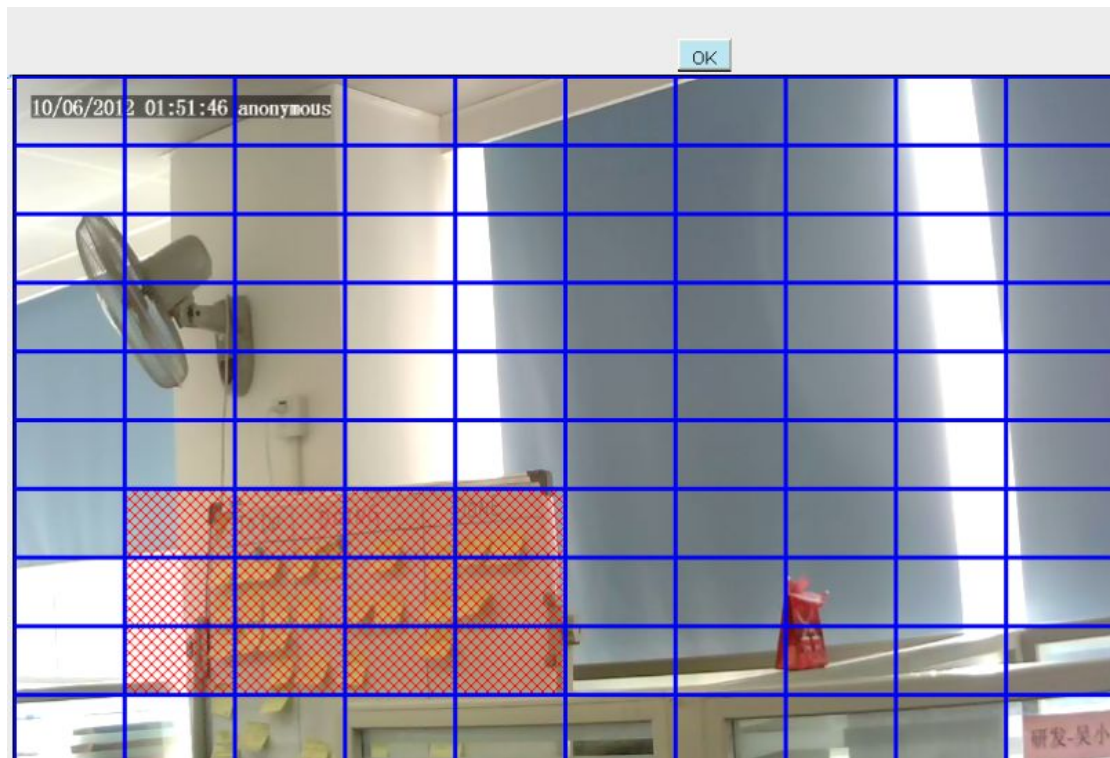


Figure 4.46

Step 06: Alarm Schedule

① Alarm anytime when motion is detected

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

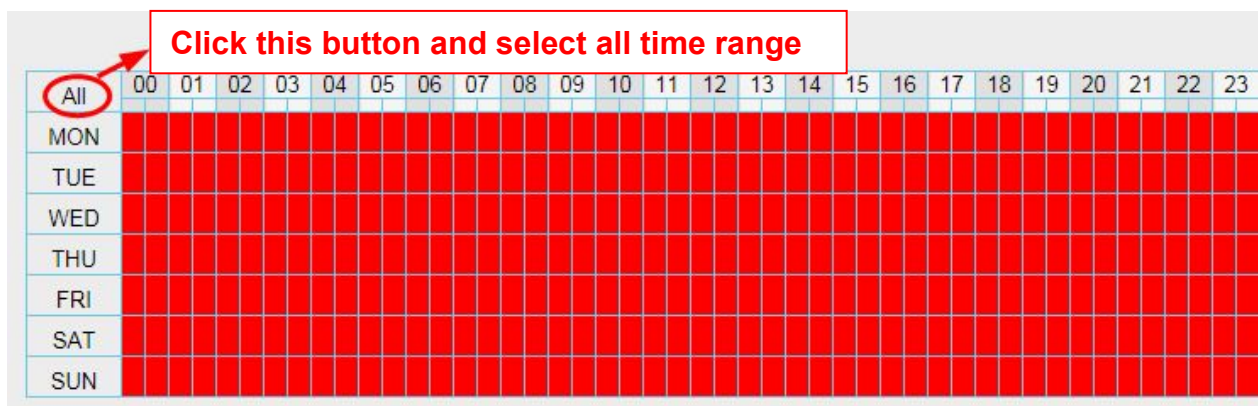


Figure 4.47

② Specify an alarm schedule

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

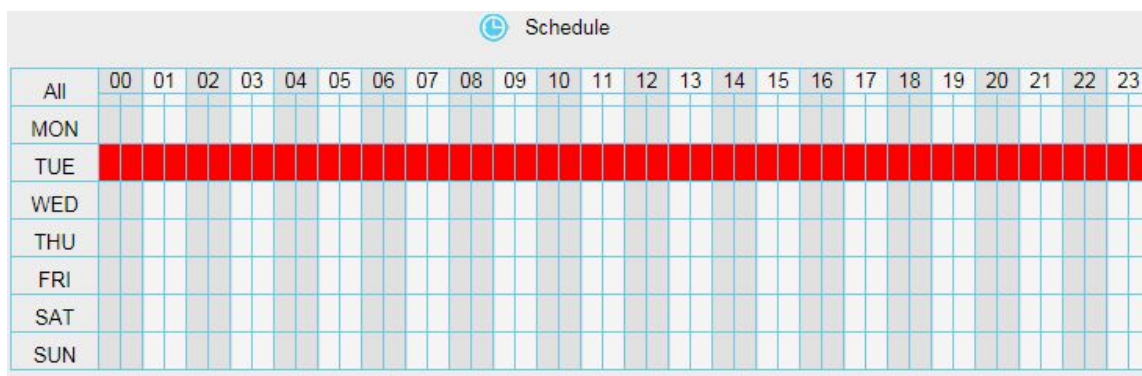


Figure 4.48

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

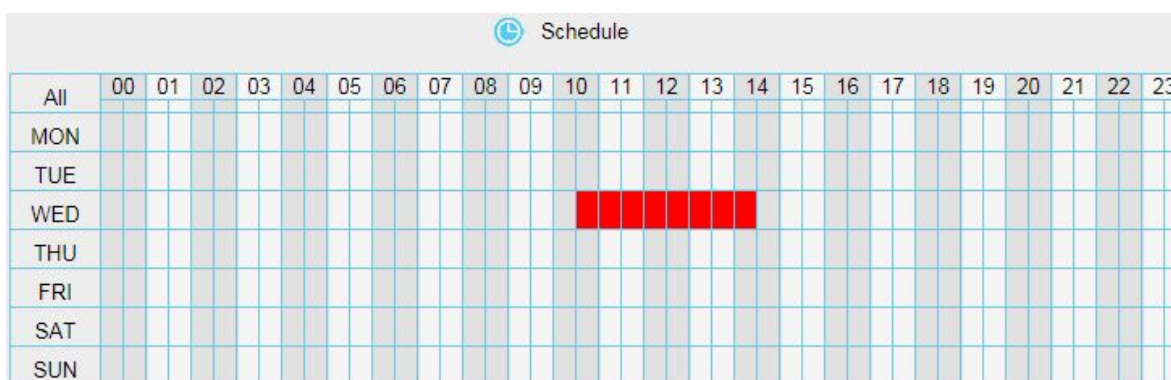


Figure 4.49

Step 07: Click Save button to take effect.

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

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

4.5.2 Sound Detection

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

Sound alarm

☒ Enable

Sensitivity	High
Triggered Interval	5s
Action	☐ Camera Sound ☐ PC Sound
	☐ Send E-mail
	☐ Take Snapshot Time Interval 2s
	Please set the capture storage location in advance.
	☐ Recording Please set the video storage location in advance.

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

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.

About the other operation of the sound detection, please refer to the “Motion detection”.

4.6 Record

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

4.6.1 Storage Location

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

Storage Location	
Recording Location	None
Local Recording Location	c:\IPCamRecord Browse Enter the local folder

Recording Location is used for alarm recordings and schedule recordings.

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

Figure 4.50

Recording Location: SD card , FTP , SD card and cloud.

When the camera alarmed, it will store the alarm files to the SD card,FTP or cloud. 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 location recording path is c:/ IPCamRecord, you can change another one. For MAC OS, the manual recording path is: / IPCamRecord.

Enter the local folder: Click here, You can enter the local storage folder.

4.6.2 Alarm Recording

This page you can change the Pre-record time and Alarm record time.

Alarm Recording	
Enable Pre-Record ☒	
Pre-recorded Time	5s
Alarm Recording Time	30s

Figure 4.51

The default Pre-recorded time is 5s and the alarm record time is 30s, you can change another time, click Save button to take effect.

4.6.3 Local Alarm Recording

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

Local Alarm Recording	
Enable Local Alarm Recording ☒	
Local Alarm Recording Time	30s

Figure 4.52

4.6.4 Scheduled Recording

On the page you can configure the schedule record.

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

Scheduled Recording

Save Refresh

Enable Scheduled Recording ☒

Enable Long-time recording No

Frame Rate 4

Record full strategy Cover

Audio Record No

Stream Main stream

Edit Scheduled Recording

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

Figure 4.53

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

Scheduled Recording

Save
 Refresh

Enable Scheduled Recording ☒

Stream

Main stream

▼

Edit Scheduled Recording

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

Scheduled recording only supports SD card or FTP server.

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

Figure 4.54

Click **Save** button to take effect.

4.6.5 SD Card Management

This camera supports SD Card and the max size of SD card must be under 32G.

SD Card Management

Refresh

SD Card Status	No SD card
SD Card Free Space	0KB
SD Card Total Space	0KB

Note: SD card management is only effective when access the IPC in LAN

Go to the **Settings→Device Status→Device Status** page, you can see the SD card status.

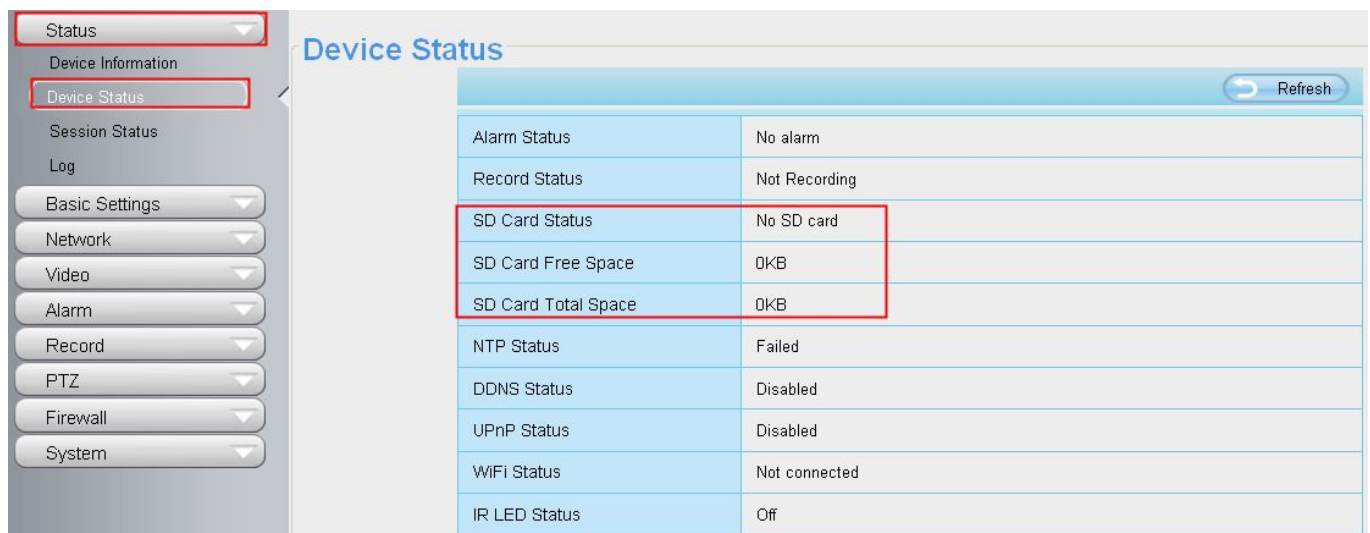


Figure 4.55

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 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 ☒

IP Filtering: Block access from these IP addresses

IP Address #1:

IP Address #2:

IP Address #3:

IP Address #4:

IP Address #5:

IP Address #6:

IP Address #7:

IP Address #8:

Figure 4.56

Enable firewall, If you select **Only allow access from these IP addresses** and fill in 8 IP addresses at most, only those clients whose IP addresses listed in the **Only allow access from these IP addresses** can access the Network Camera. If you select **Block access from these IP addresses**, only those clients whose IP

addresses are in the IP list cannot access the Network Camera.

Click **Save** to take effect.

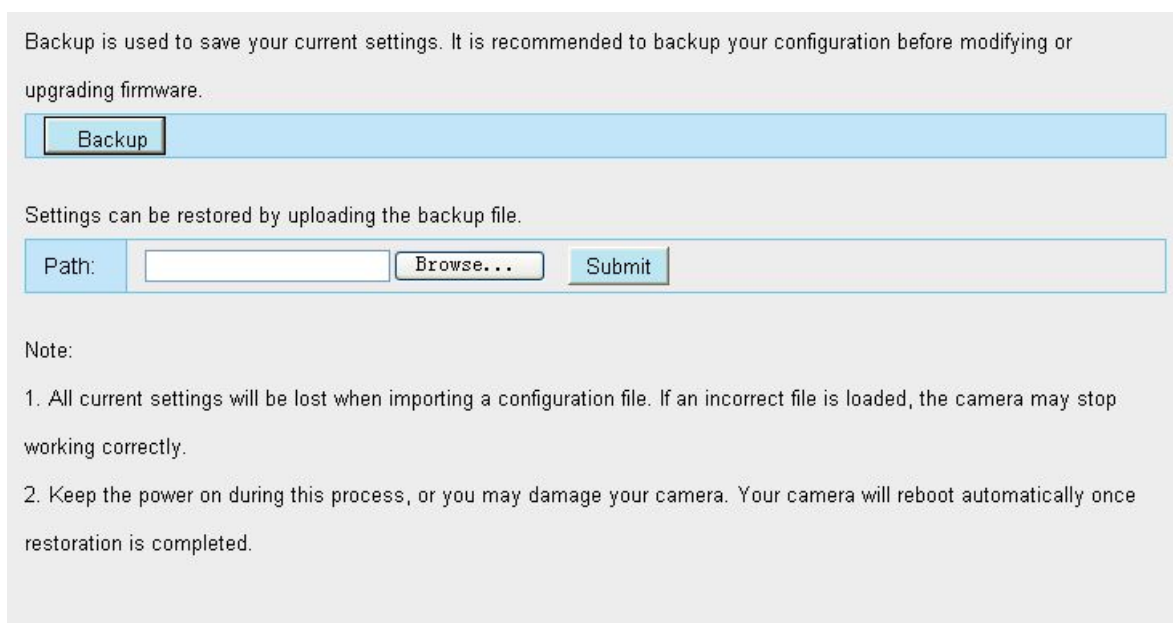
4.9 System

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

4.9.1 Back-up& Restore

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

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



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

Backup

Settings can be restored by uploading the backup file.

Path: **Browse...** **Submit**

Note:

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

Figure 4.57

4.9.2 System Upgrade

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

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

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

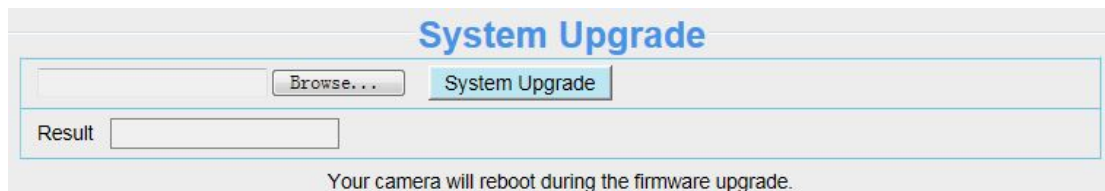


Figure 4.58

Upgrade Firmware by Equipment Search Tool

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

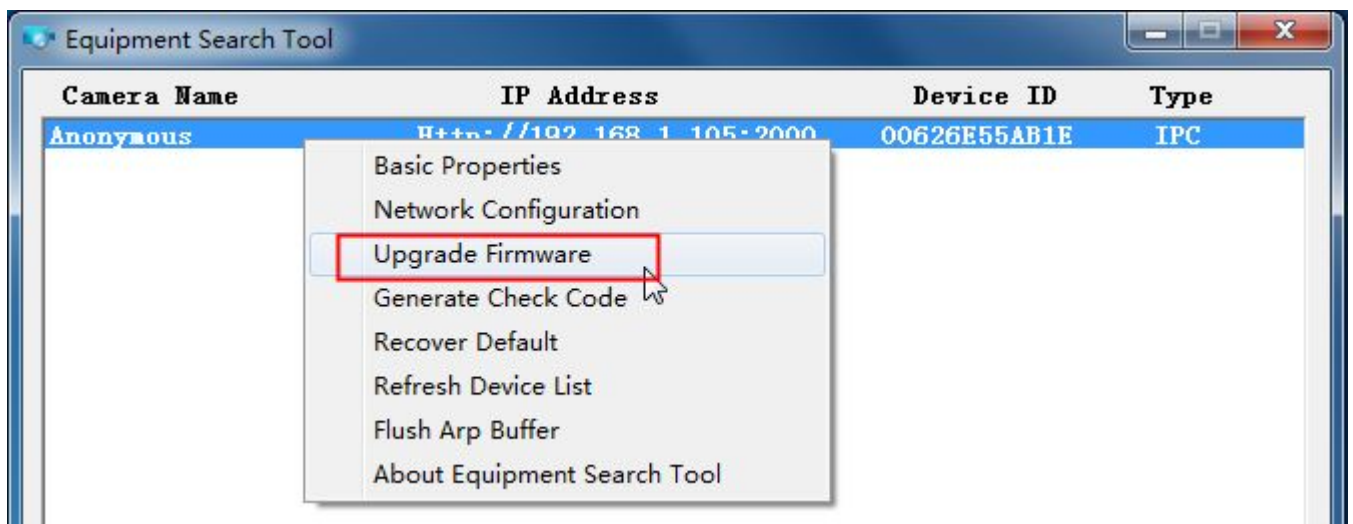


Figure 4.59

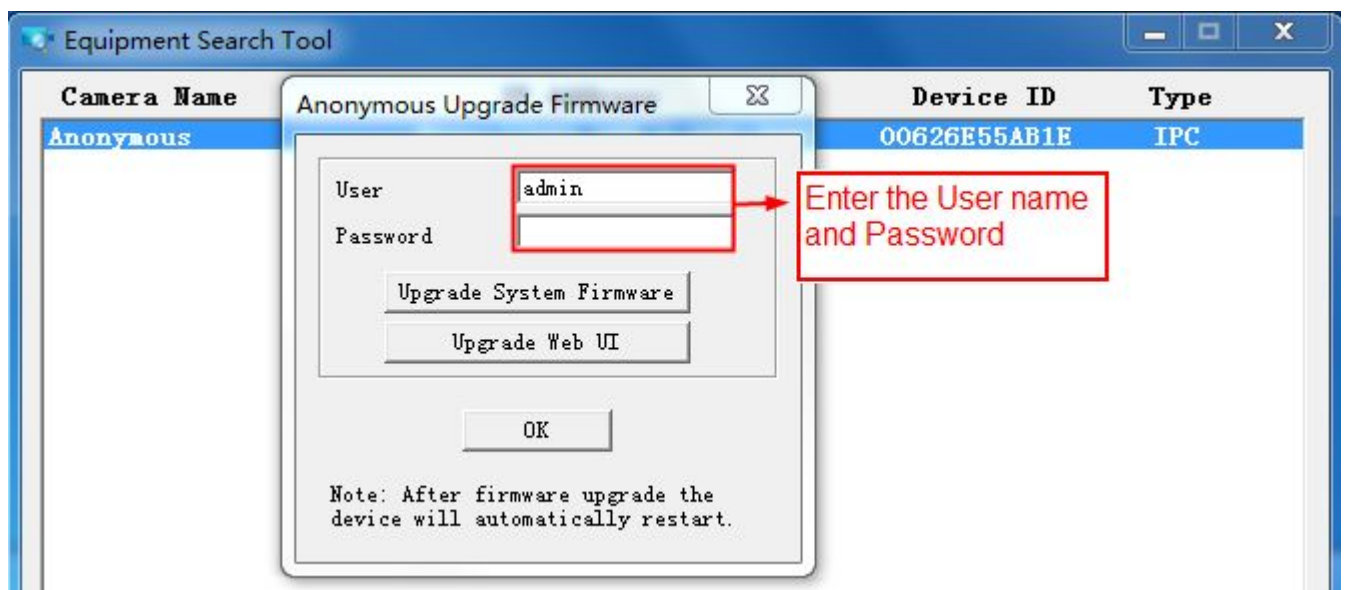


Figure 4.60

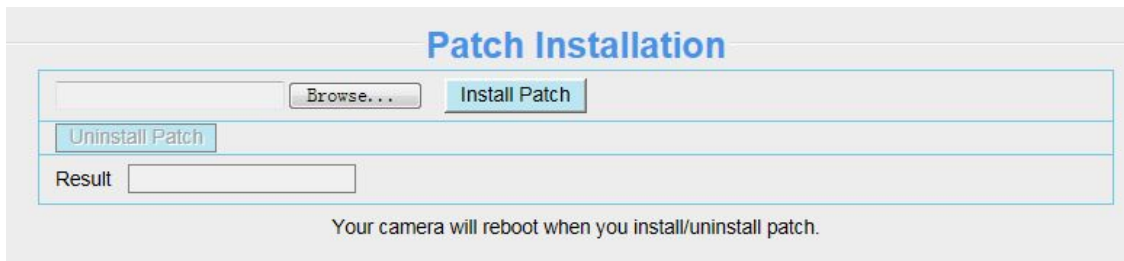
CAUTION: If your camera works well with the current firmware, we recommend not upgrading. Please don't upgrade the firmware unnecessarily. Your camera may be damaged if misconfigured during an upgrade.

NOTE:

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

4.9.3 Patch Installation

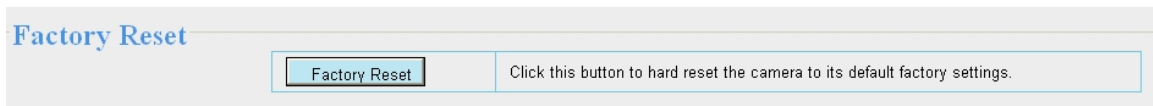
Click "Browse" to select the correct patch file, and then click "Install Patch" to install the patch. Do not turn off the power during it installing. After installing is complete, you will receive a system prompt.



The screenshot shows a web interface titled "Patch Installation". It contains a text input field with a "Browse..." button next to it, and an "Install Patch" button. Below these is an "Uninstall Patch" button. At the bottom, there is a "Result" label followed by a text input field. A note at the bottom states: "Your camera will reboot when you install/uninstall patch."

4.9.4 Factory Reset

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



The screenshot shows a web interface titled "Factory Reset". It features a "Factory Reset" button and a text box containing the instruction: "Click this button to hard reset the camera to its default factory settings."

Figure 4.61

4.9.5 Reboot

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

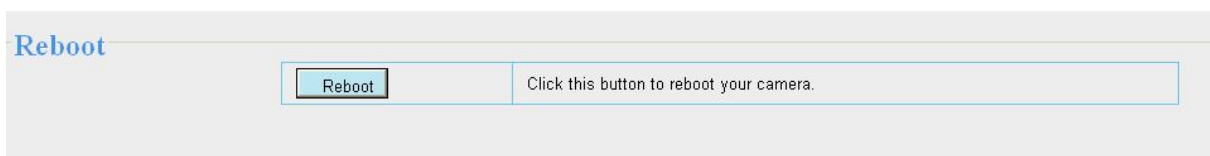


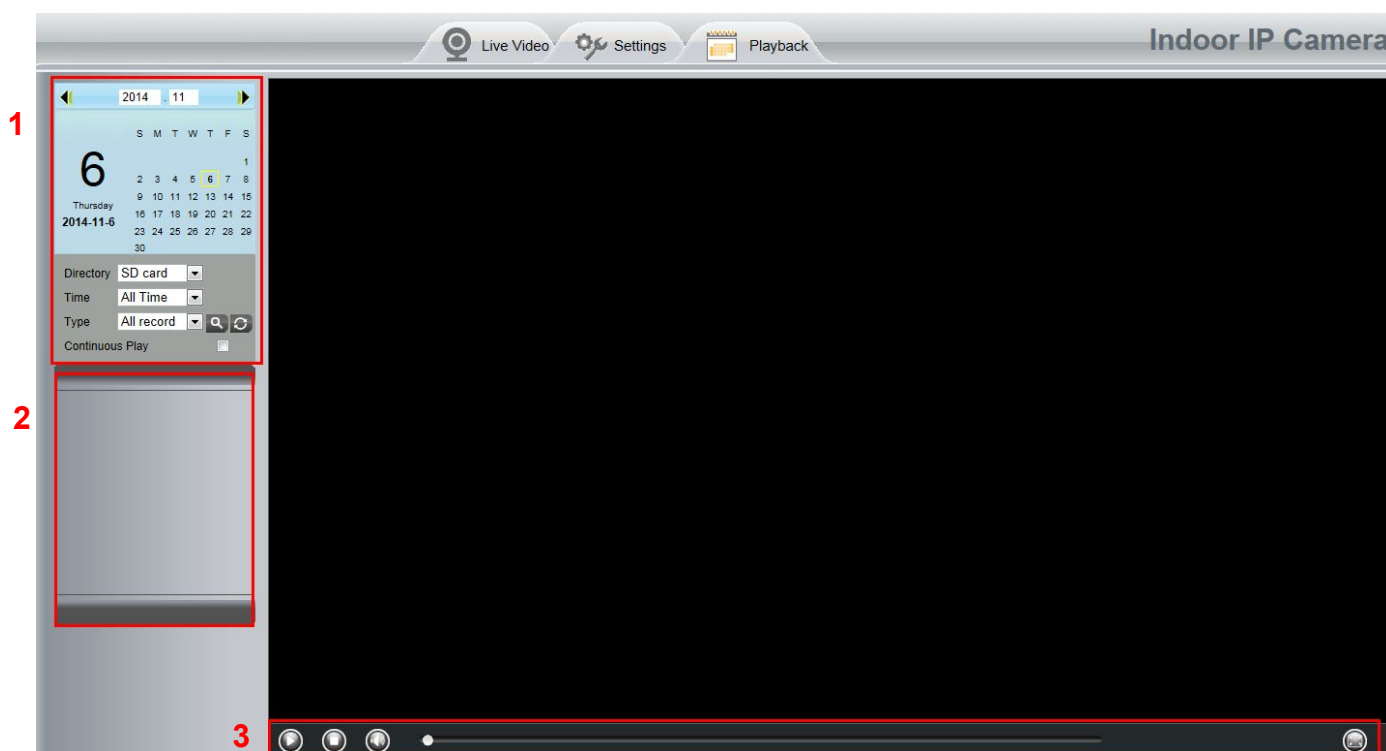
Figure 4.62

5 Playback

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

NOTE:

The FC1403P does not support the function.



Section 1 Define the Record files time and Type

Directory : The storage path of record files

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



Type : The type of records files, Here supports two types: 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

NOTE:

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

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

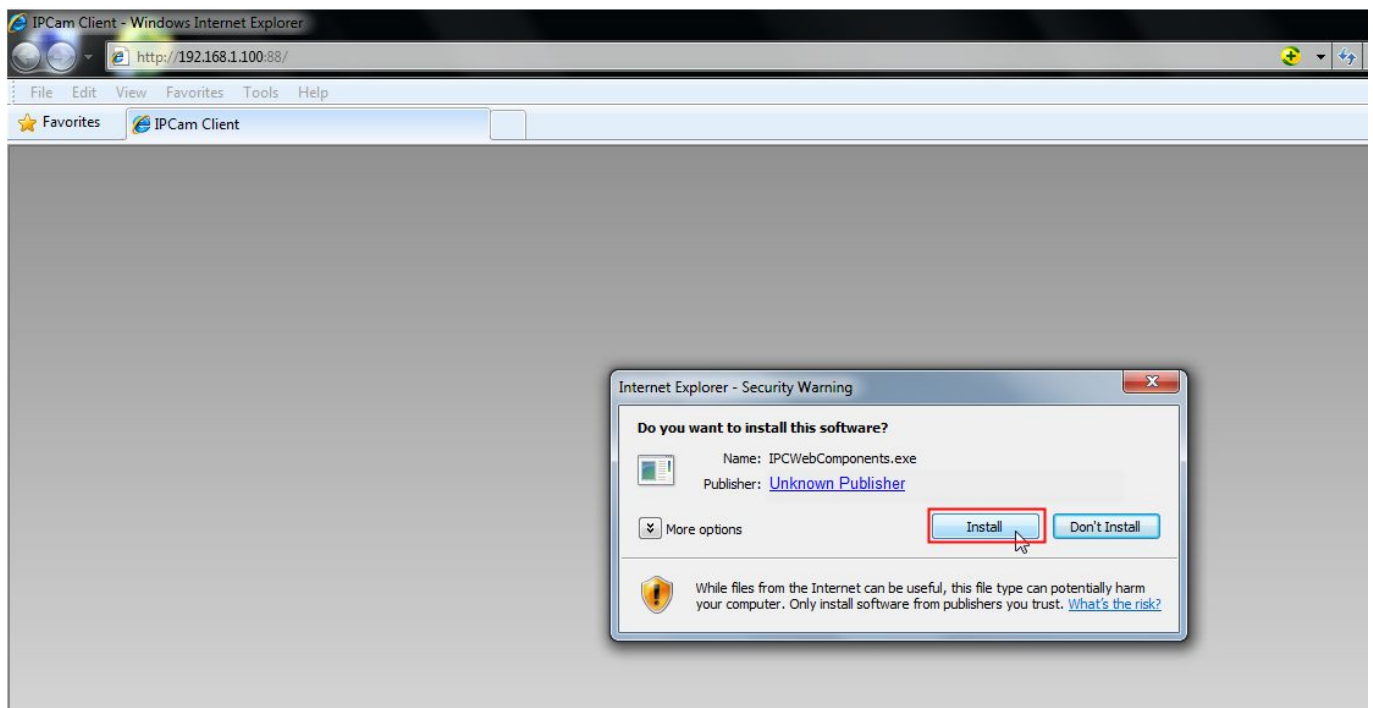


Figure 6.1

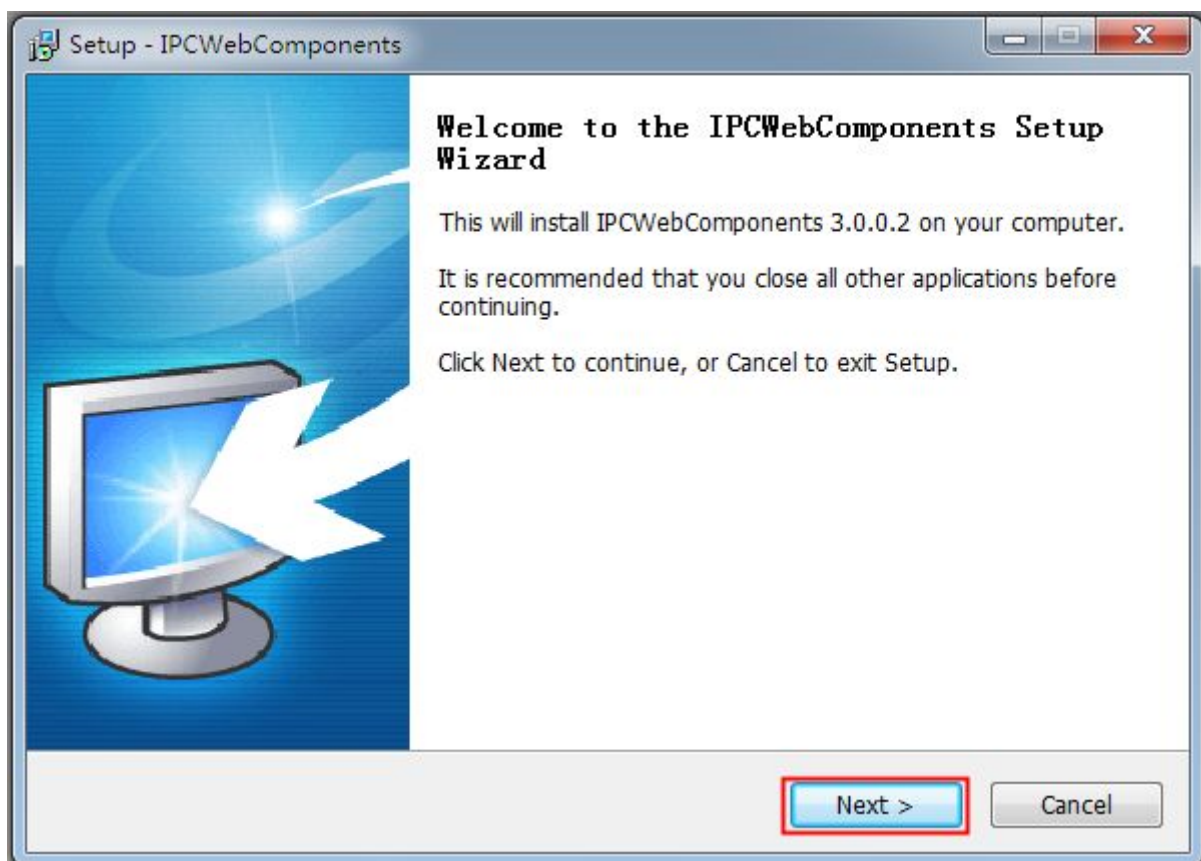


Figure 6.2

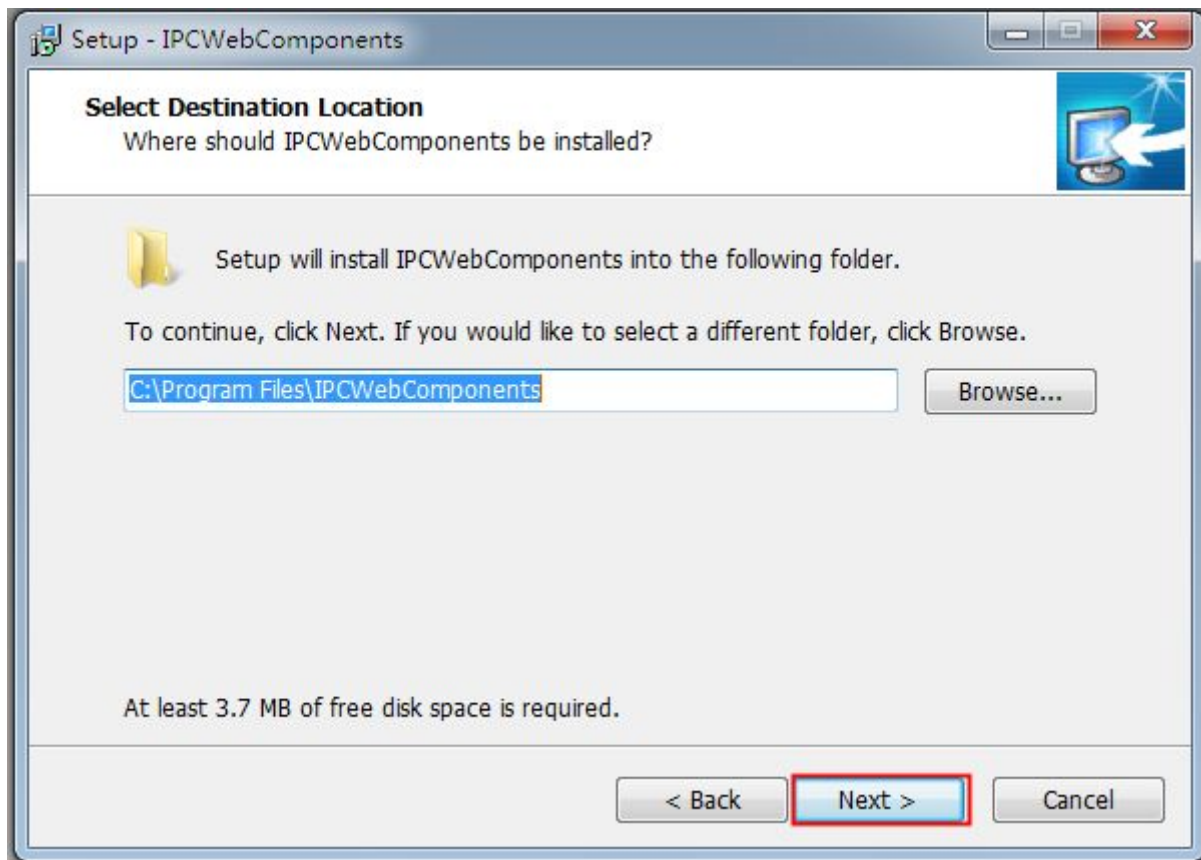


Figure 6.3

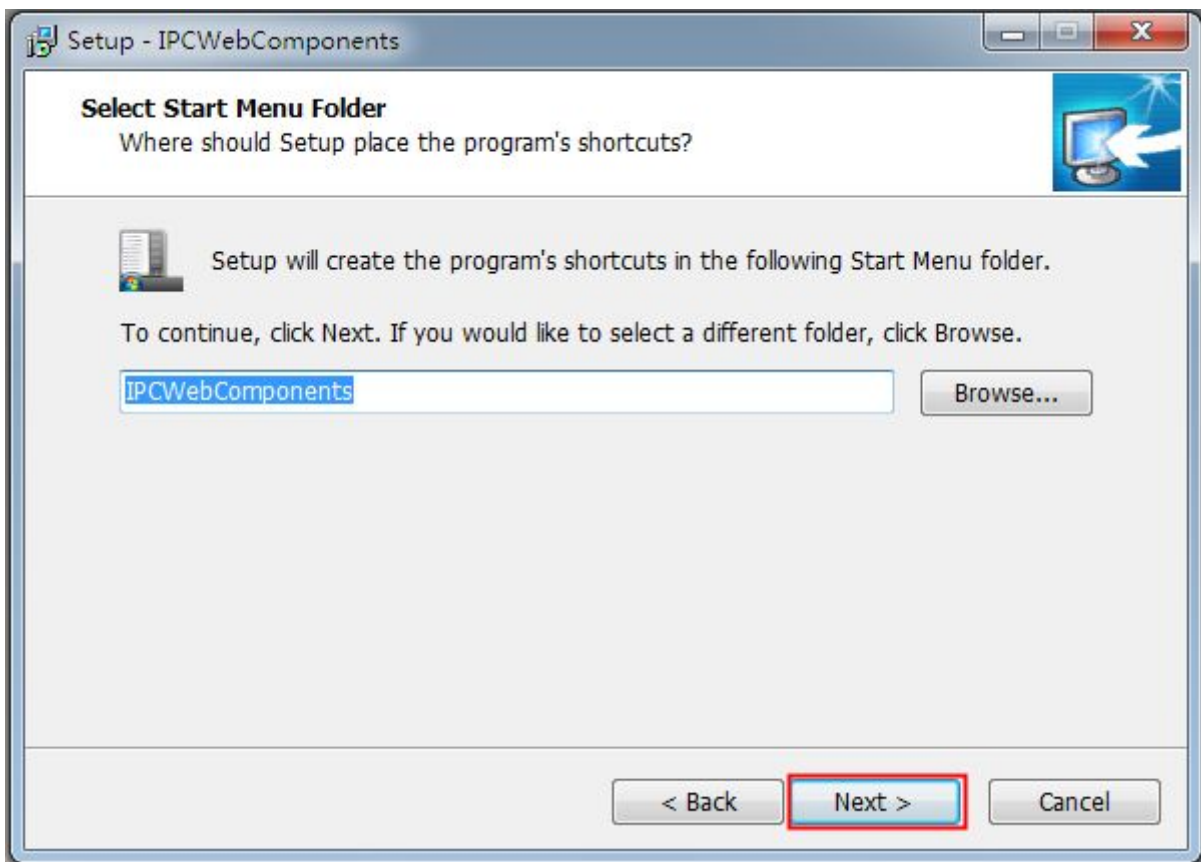


Figure 6.4

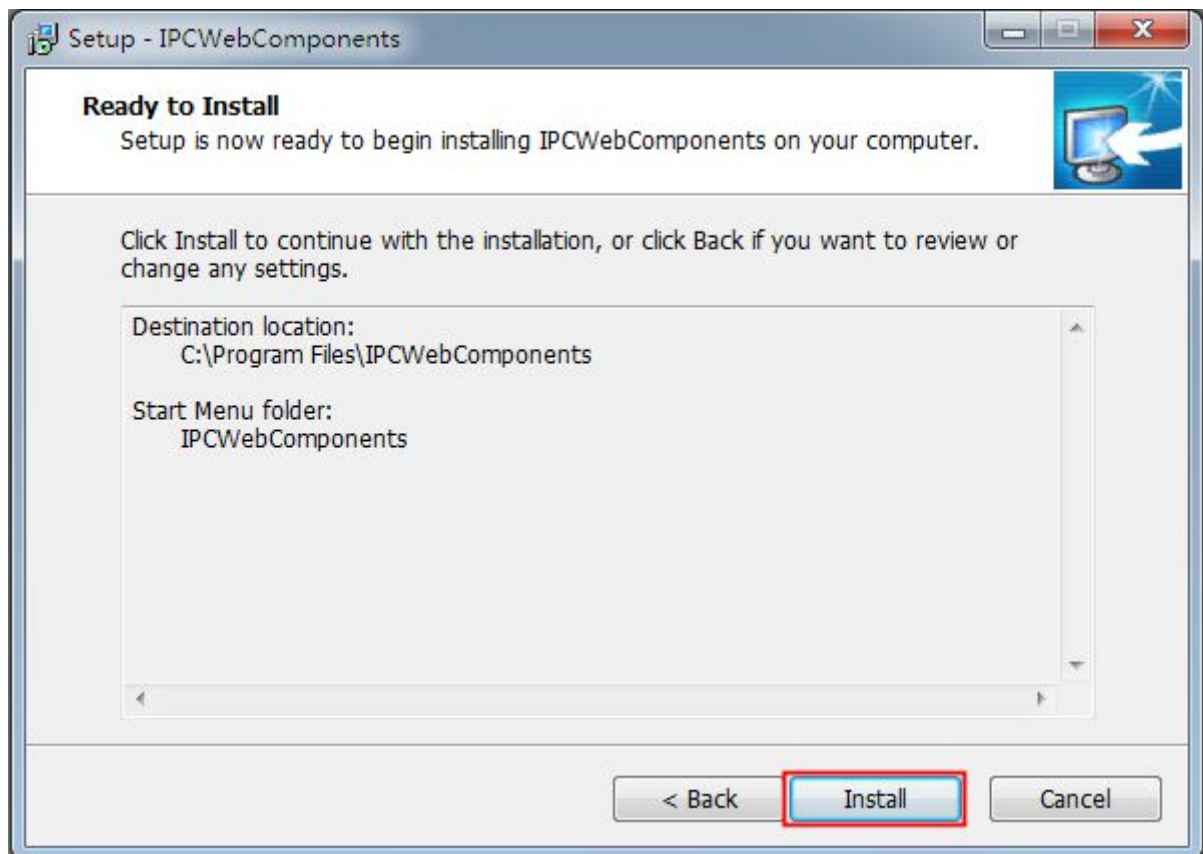


Figure 6.5

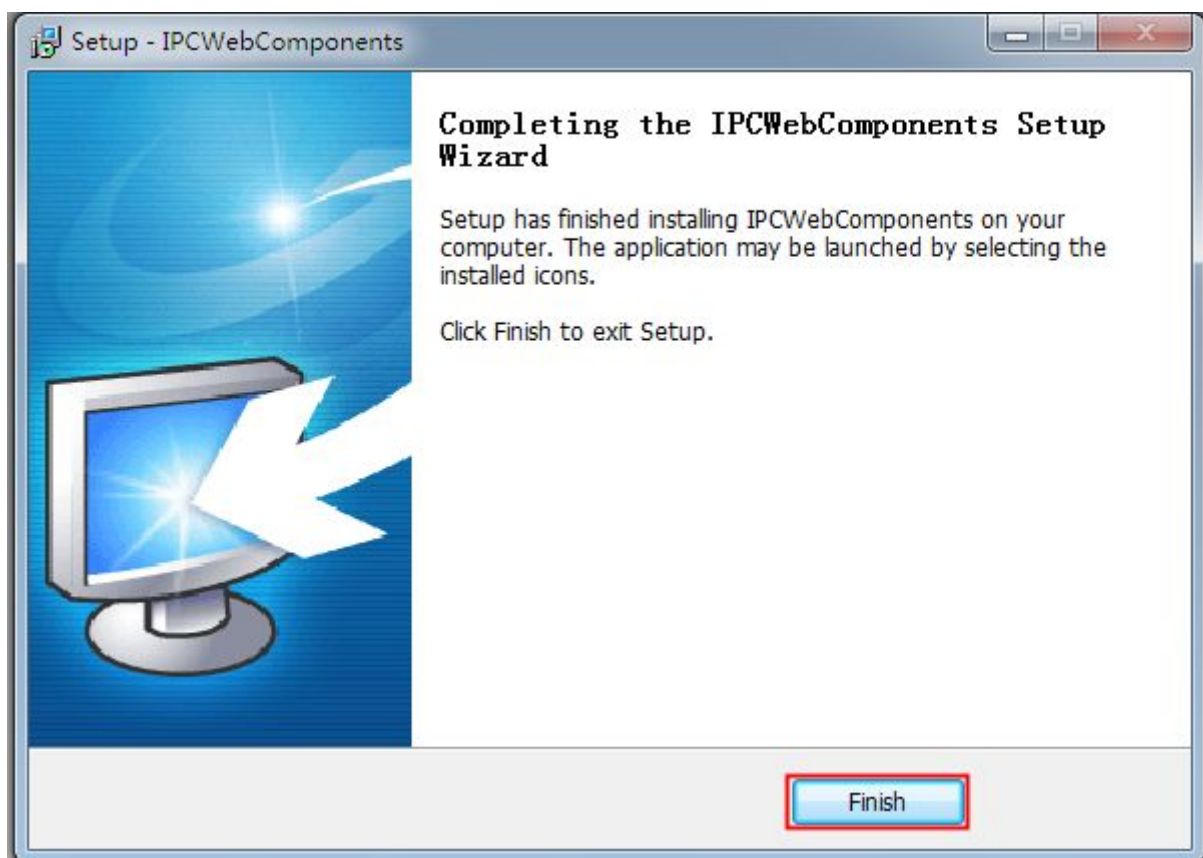


Figure 6.6

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

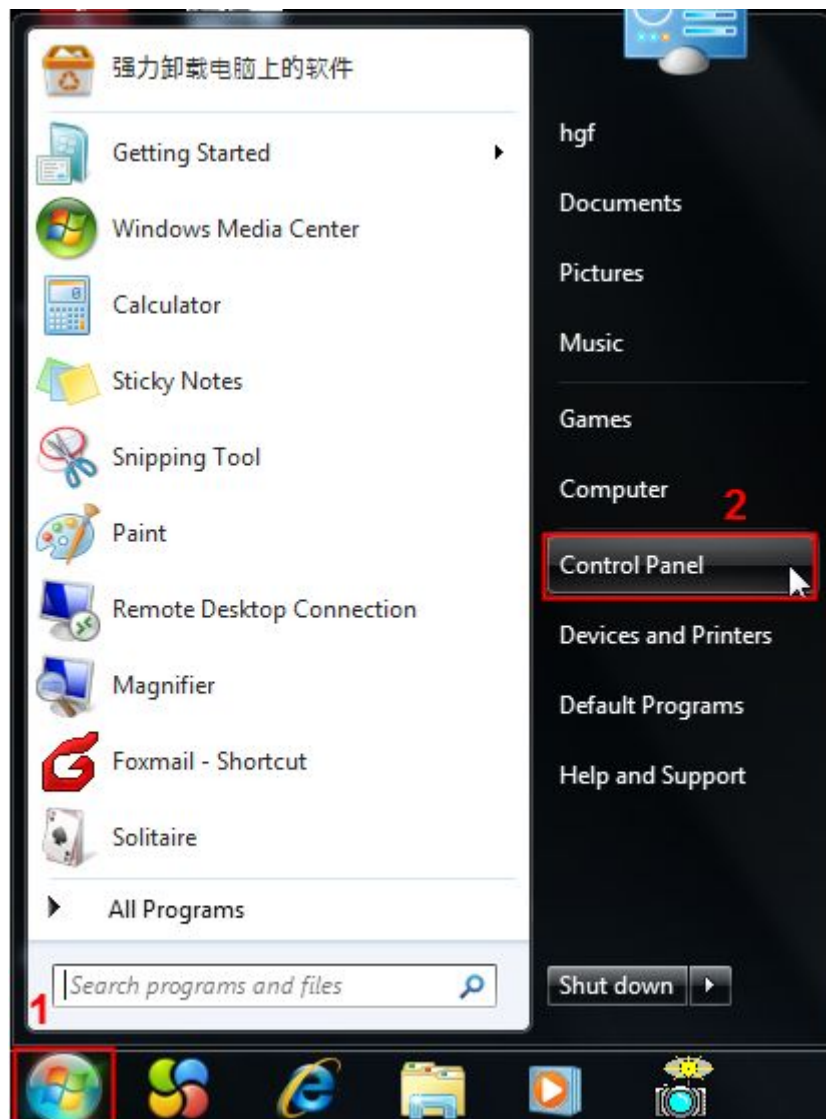


Figure 6.7

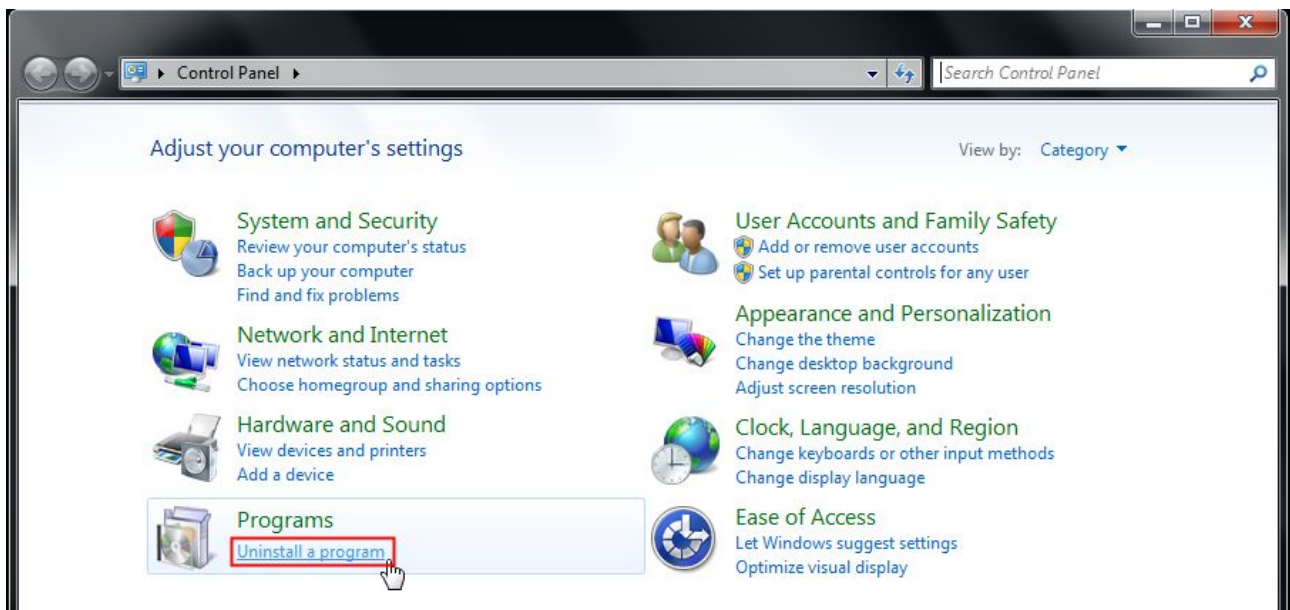


Figure 6.8

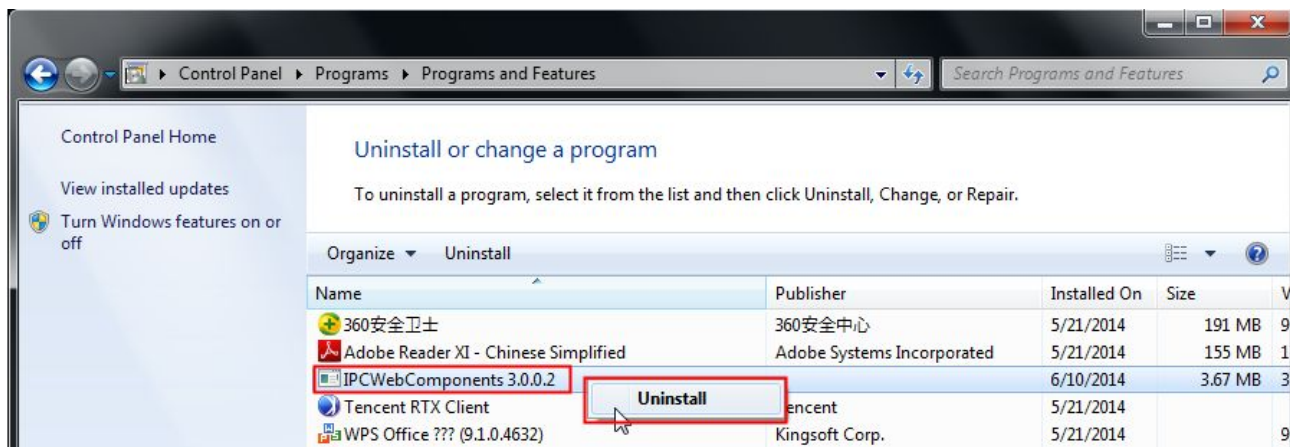


Figure 6.9

6.1.3 I have forgotten the administrator password

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

Default administrator username: **admin**

Default administrator password: No password

6.1.4 Camera can not record

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

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

There are two ways to resolve this problem:

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

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

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

6.1.5 Subnet doesn't match

Check whether your ipcamera in the same subnet of your computer. The step is **Control Panel→Network Connections→Dbclick Local Area Connections → Choose General→Properties.**(Figure 3.23/3.24) Check subnet mask, IP address and gateways. When you set IP address please make sure they are in the same subnet. Otherwise you can't access camera.

6.1.6 No Pictures Problems

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

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

Enable: Download unsigned ActiveX controls

Enable: Initialize and script ActiveX controls not marked as safe

Enable: Run ActiveX controls and plug-ins

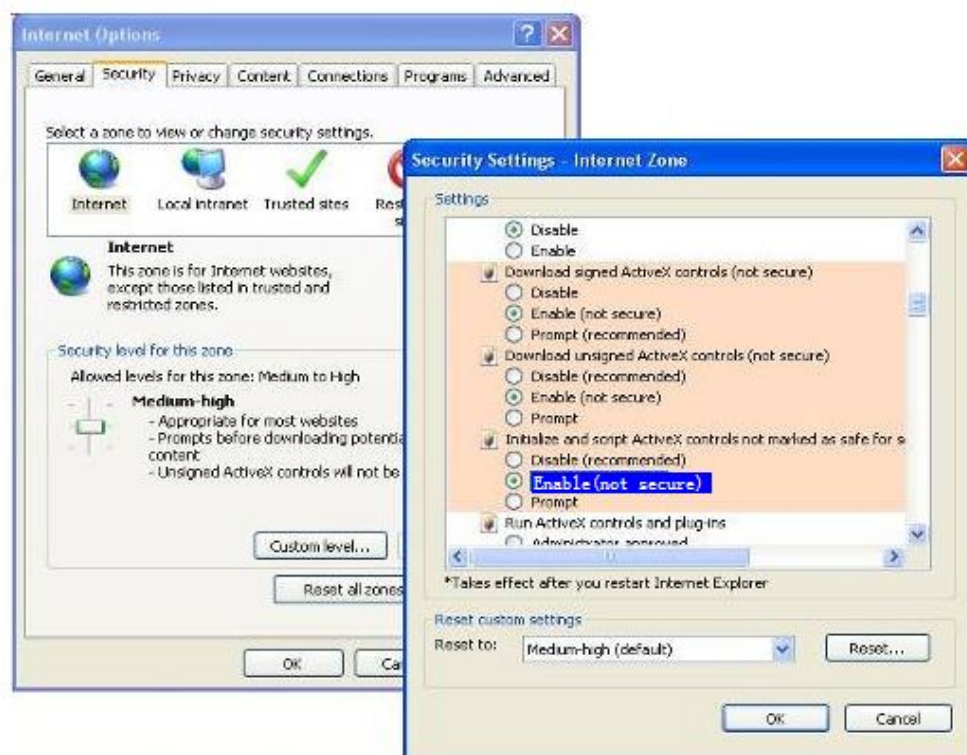


Figure 6.6

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

The screenshot shows a web interface titled "Port" with a light blue header. Below the header is a table with three rows: "HTTP Port" with value "88", "HTTPS Port" with value "443", and "ONVIF Port" with value "888". To the right of the table are two buttons: "Save" and "Refresh".

Port	
HTTP Port	88
HTTPS Port	443
ONVIF Port	888

Figure6.7

NOTE:

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

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

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 domain name

Username and password

Default username is admin with a blank password.

6.3 Specifications

Image Sensor	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1.0M Pixels(1280*720)
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	M12 interface f 2.8mm F=1.8
	focal length	f 2.8mm
	Aperture	F=1.8
	Angle of View (horizontal)	Horizontal:108° Diagonal :116°
Video	Image Compression	H.264
	Image Frame Rate	25fps (VGA) ,23fps (720P)
	Resolution	720P(1280 x 720), VGA(640 x 480) & (640 x 360), QVGA(320 x 240) & (320 x 180)
	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Night visibility	Night Vision Range up to 5m
Network	Ethernet	Yes
	Wi-Fi	IEEE 802.11 b/g/n
	Frequency	2.412-2.484
	EZlink	Link to WiFi network easily
	WPS	One button push wireless connection
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、UPnP、RTSP、WPS
System	Operating System	Windows XP、Windows 7、Windows 8.1、Mac OS

Requirements	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
	Sound Detection	
	PIR Detection	
	Two-way Audio	Supports Two-way Audio via Smartphone App or Web Client
	WiFi and System LEDs	one system LED(Red), one wifi LED(Green)
	Privacy Block	Set privacy area manually
	External Card Slot	Micro-SD up to 32G
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Reset	Reset button is available
Power	Power Supply	DC 5V/1A
Physical	Dimension(LxWxH)	76*76*121mm
Environment	Operating Temperature	-10°C~50°C (14° F~122° F)
	Operating Humidity	10% ~ 80% non-condensing
	Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, IC,	

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

6.4 CE & FCC

Electromagnetic Compatibility (EMC)

FCC Statement



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

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

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

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.