# User Manual

## (For Windows & Mac OS)

## Indoor HD Wireless IP Camera





Model:FC2401P/FC2406P/FC2407PModel:FC1403PColor:Black/WhiteColor:WhiteWhite



Model:FC2402P Color: Black/White



Model:FC2403P Color: White



Model:FC2405P Color: White



Model:FC2503PZ Color: Black/White

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

With flexible 300-degree pan and 120-degree tilt(except for FC1403P), 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 IPCAM provides Smart Phone APP for Android and iPhone users, please search and install **IPCam Viewer** on Google Play for Android devices, search and install **IPCam\_Viewer** on APP Store for iOS devices, then you can view your camera anywhere, anytime on your smart mobile devices.

## 1.1 Key Features

- Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network
- P2P feature for easy access
- Megapixel HD video
- Pan 300 degree, tilt 120 degree
- 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(except for FC1403P)
- Supports IR-Cut auto switch

- Embedded free DDNS(dynamic domain name service) Service
- Supporting the Third Party Domain Name Service
- Supports two-way audio(except for FC2407P)
- Multi-level users management with password protection
- Motion detection alert via email or upload image to FTP
- Providing free Android and iPhone APP for viewing live video
- Support record schedule
- Supports Alarm I/O Interface(Only FC2407P)

## 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
• Wi-Fi Antenna × 1	<ul> <li>Mounting bracket × 1</li> </ul>
• Ethernet Cable × 1	• CD×1
Quick Installation Guide × 1	

## 1.4 Physical Description

Front Panel

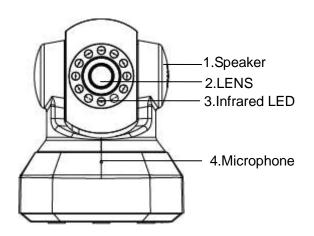


Figure 1.1

1.Speaker: Built-in speaker

2.LENS: Fixed focus lens.

3.Infrared LED: Infrared LEDs for night vision

4. Microphone: Built-in microphone

5.Wi-Fi Antenna: Wireless Antenna Rear Panel(FC2401P/FC2503PZ/FC2406P)

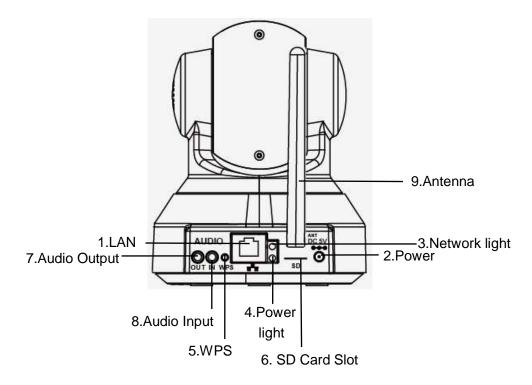
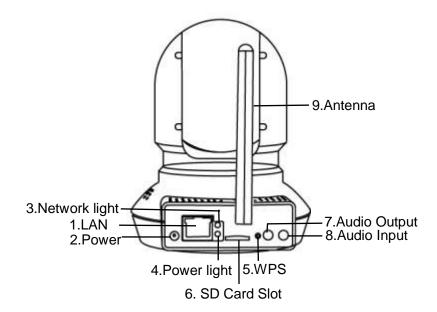


Figure 1.2

Rear Panel(FC2402P/FC2403P/FC2405P)



1.LAN: 10/100 Mbps RJ-45 port for wired connection

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

3.Network Light: The LED will blink slowly in wired connection, blink two times faster in wireless connection, blink four times faster when WPS

4.Power Light: If the power supply works fine, the light will turn on

5.WPS: Push the WPS button on the camera and wireless router in 1 minutes, the camera will connect the wireless router automatically, in WPS process, the Network Light will blink very fast

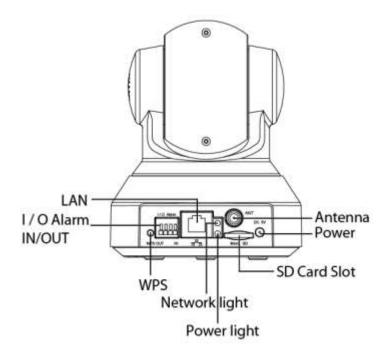
6. SD card Slot: Supports up to 32GB SD card for storing the video

7.Audio Output: This jack is used to plug an external speaker

8. Audio Input: This jack is used to plug an external microphone

9.Antenna: Used to connect external wireless antenna

Rear Panel(FC2407P)



Bottom View

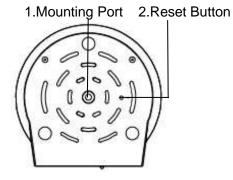


Figure 1.3

1. Mounting Port: Port for mounting bracket

2. Reset Button: Push and hold for more than 5 seconds to set the camera to factory default.

## 1.5 The different features between the models involved

Model	Maxmium Resolution	SD Card Slot	Optical Zoom	Digital Zoom	I/O Alarm
FC2401P	1280*720	$\checkmark$	×	$\checkmark$	×
FC2402P	1280*720	$\checkmark$	×	$\checkmark$	×
FC1403P	1280*720	×	×	×	×
FC2403P	1280*720	$\checkmark$	×	$\checkmark$	×
FC2405P	1280*720	$\checkmark$	×	$\checkmark$	×
FC2406P	1280*720	$\checkmark$	×	$\checkmark$	×
FC2407P	1280*720		×	$\checkmark$	$\checkmark$
FC2503PZ	1280*960		$\checkmark$	×	×

## 2 Access the IP Camera

This chapter explains how to access the camera through browser and RTSP player.

## 2.1 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 IP Camera Tool icon to run, and it should find the camera's IP address automatically after you plug in the network cable.

IP Camera Too	01			
Camera name	IP Address	Device ID	Device	type
anonymous	Http://192.168.1.100:88	00841FI98	04₩ Н	

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.

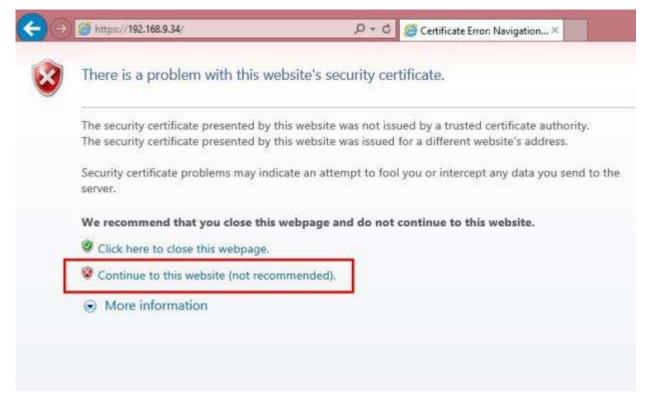
The default Https port no is 443. You can use the url to access the camera: https:// LAN IP + HTTPS port.

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

Basic Settings		Port	
Network	)		Save Refresh
IP Configuration	HTTP Port	88	
Wireless Settings	HTTPS Port	443	
PPPoE DDNS	ONVIF Port	888	
UPhP			

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.

nternet Opti	ons		? 2
Connections	Pr-	gr ans	Advanced
General	Security	Privacy	Content
0	ew or change secur	ity settings.	
Trusted	sites		
V trust not your files	contains websites to damage your co , websites in this zo	nputer or	Sites
Security level for	this zone		
-1	om stom settings. o change the settin o use the recommen		
	یو ا	tom level	Default level
	<b>_</b>	2 <b>0</b> Ria	[ 应用 (2)

Figure 2.3

For **Firefox**, you can add the trusted as the following way: Tools ---- Options ---- Advanced --- View Certificates --- Servers

Ogtions					×
General Tabs (	Content Applications	Privacy	Security	O Sync	Advanced
General Network Updat	e Encryption				
Protocols		🔽 Use TLS	1.0		
O Select one auto	ests my personal certi matically ③ Ask me Revocation Lists		n) Securit	ty Device	5
		OK	Cancel		Help

Figure 2.4

Click View Certificates, and go to Servers option.

		ify these servers:		
Certificate Name	Server	Lifetime	Expires On	J.
🖃 (Unknown)				1
(Not Stored)	192.168.8.12	5:443 Permanent		1
🖃 The USERTRUST Network				
addons.mozilla.org	*	Permanent	2014-3-15	
global trustee	*	Permanent	2014-3-15	
kuiz. de	() <b>*</b> (	Permanent	2011-4-17	
login.live.com	3 <b>8</b> .)	Permanent	2014-3-15	
login.skype.com	*	Permanent	2014-3-15	
login. yahoo. com	*	Permanent	2014-3-15	
login. yahoo. com		Permanent	2014-3-15	
login yahoo.com	*	Permanent	2014-3-15	1
+1 7		n i	0014 0 15	
	*		2014-3-15	

Figure 2.5

Go to Add Exception panel.

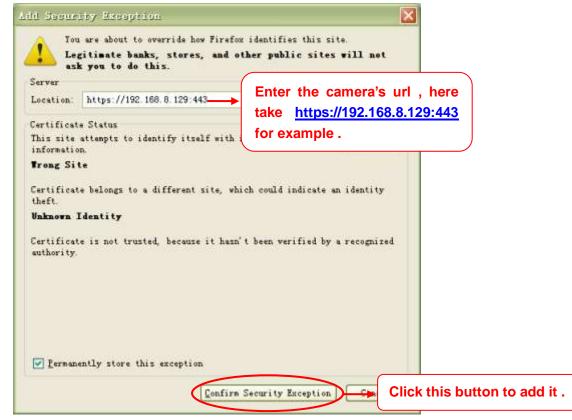


Figure 2.6

## 2.2 Access the Camera in WAN

#### 2.2.1 Static IP Addresses

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

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

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





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 <u>http:// 183.37.28.254:85</u>

#### 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.

#### 2.2.2 Dynamic IP Addresses

DDNS is a service that allows your IP Camera, especially when assigned with a dynamic IP address, to have a fixed host and domain name. This means that even though your WAN IP address is constantly changing, you will have a fixed hostname you can use to access your cameras at all times. You can access the camera directly from the Internet using the hostname and port number.

What is the HTTP Port no.?

Default HTTP Port is 88

All cameras have the default HTTP port of 88. For example, if the LAN IP link of the camera is

<u>http://192.168.1.110:88</u>, this means that the camera's HTTP port is 88. You can change port 88 to another port if you'd like such as 2000 or 8090, which will not be conflict with other existing ports like 25, 21,10000. Here you can set the port no. between 1 and 65535.

Change the default http no.88 to another one.

#### How to assign a different HTTP Port No. and fixed the LAN IP of the camera by the IP Camera Tool?

**Step 1:** Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box.

🕸 IP Camera Tool		
Camera name	IP Address	Device ID Device type
anonymous Http	Basic Properties Network Configuration Upgrade Firmware Refresh Camera List Flush Arp Buffer About IP Camera Tool	OOB41F19804 H Select which camera you'd like to change the port for, and right click

Figure 2.4

🛤 IP Camera Tool	anonymous Network 🗙	
Camera name	🥅 Obtain IP from DHCP server	ice ID Dewice type
anonymous	IP Address       192.168.1       .110         Subnet Mask       255.255.255.0       0         Gateway       192.168.1       .1         DNS Server       192.168.1       .1         Http Port       88         Vser       admin         Password       *****         OK       Cancel	41FI9804▼ H Modify the Http Port. Enter the Username and password, click OK.
	Note: After changing the configuration device will automatically restart.	

Figure 2.5

**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 <a href="http://192.168.1.110:2000">http://192.168.1.110:2000</a> in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of <a href="http://192.168.1.110:2000">http://192.168.1.110:2000</a>. 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!

IP Camera To	ol		
Camera name	IP Address	Device ID	Device type
nonymous	Http://192.168.1.110:2000	00841F19804	V H



#### What is Port forwarding?

If you have never done port forwarding before, you can open and view the following link to understand the basic concept. Port forwarding allows for outside connections to access a specific device on your network from anywhere in the world. Every router automatically blocks any incoming connections for safety purposes. Using port forwarding, you are telling your router to allow a connection through a certain port (you can think of it as a gateway) into your router. You set this port to a specific device, in our case an IP Camera, so it can be accessed from anywhere in the world.

Click this link to learn more about port forwarding: <u>http://portforward.com/help/portforwarding.htm</u> How do we configure Port Forwarding? For this section, we will be using an example:

Let's say the camera's LAN IP address is http://192.168.8.100:2000

**Step 1:** Login to the router, and go to your router's port forwarding or port triggering menu. Sometimes this is also under the name of Virtual Server or NAT.

Using the Linksys brand router as an example, we would log into the router, and go to the Applications & Gaming menu. We would then click on the "Single Port Forwarding" sub-menu.

**Step 2:** Create a new column using the LAN IP address & HTTP Port of the camera within the router as shown below, then push OK or Submit to save your settings:

Applications & - Gaming						Wireless	N Home Router	WRT120N
			eless Secur		ss Restrictions	Application Gaming	Administration	n Statu QoS
Single Port For	warding							
Applicatio	on Name	External Port	Internal Port	Protocol	To IP Address	Enabled	2004 Aug 200	
N	ione 🗹		1 1		192.168.8		Help	
N	ione 💌	Fill the HT	TP Port of t	ha	192.168.8			
N	lone 😽		the columns	-	192.168.8			
N	one 💌	External Port. Examp	ort and Interr	nal	192.168.8			
N	ione 💌				192.168.8			
my came	era	2000	2000	Both 💌	192.168.8 100			
				Both 💙	192.168.8		Fill in this section	
Assign a na port forward				Both 🛩	192.168.8		would enter "10 example.	

Figure 2.7

#### First method :

Use the embedded DDNS to access the camera via the Internet

Each camera has an embedded unique DDNS domain name, the format of this domain name is xxxxxx.myipcamera.org. On the bottom of the camera, you can see the domain name sticker with this information on it.

For example, we can use test09.myipcamera.org. In the camera, click Settings at the top, click "Network" on the left, then click "DDNS" to get to the DDNS settings page. Here you can see the unique domain name of your camera.

Status		DDNS		
Basic Settings		DDNS	-	Save Refresh
Network			Sec. 10	Save Refresh
IP Configuration	Enable DDNS 😥			
Wireless Settings	Manufacturer's DONS			
PPPoE	Manufacturer's DDNS	Sent?9 mytpcamera org		Restore DDNS to factory
DDNS	<			
UPnP	Third Party DDNS			
Port	Third Party DDNS			
Mail Settings	DDNS Server	None	2	
FTP Settings	Domain			
P2P				

Figure 2.8

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

Take hostname a33471.myipcamera.org and HTTP Port of 2000 for example, the URL link to access the camera via the Internet would be http:// a33471.myipcamera.org:2000.

#### Second method :

Use the Third party DDNS to access the camera via the Internet

**Step 1** Please go to the third party DDNS website(such as <u>www.no-ip.com</u>) to create a free hostname.

Step 2 DO DDNS Service Settings within the Camera

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

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 ip camera 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.

## 2.3 Using the VLC player

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

#### RTSP URL <a href="https://fuser.name">rtsp://fuser.name</a>][:password]@IP:HTTP port number/videosream

The part in the square brackets may be omitted.

<u>user name & password:</u> The user name and password to access the camera. This part can be omitted. <u>IP:</u> WAN or LAN IP address.

<u>Videostream:</u> 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.

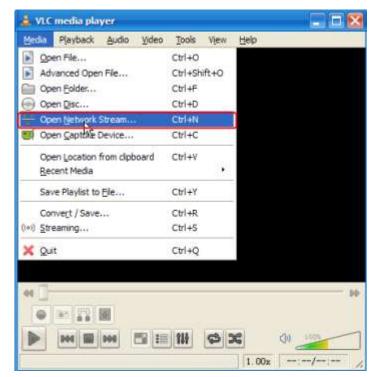


Figure 2.9

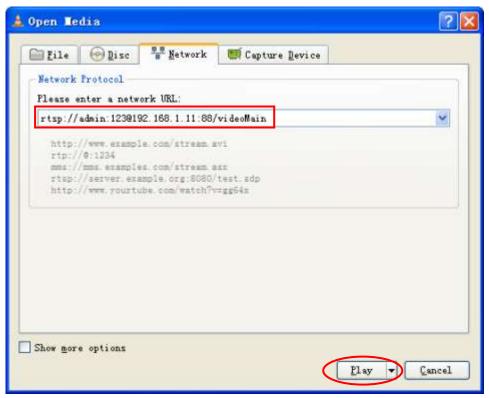
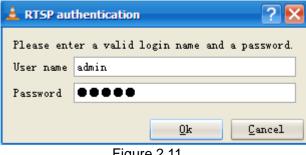


Figure 2.10

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





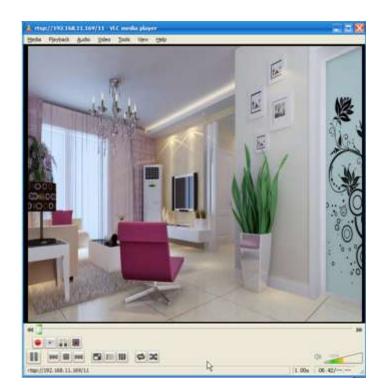


Figure 2.12

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.

## 2.4 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

-	_	-	
Username	admin		- 1
Password			
Stream	Main stream	×	- 2
Language	English	×	- 3
		Login	)—4

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	admin
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.



Figure 3.2

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

	Setup Wizard
Step 1 of 4 - Came	ra Name
	Anonymous
Camera Name	The maximum Device Name length is 20, support English, numbers, letters and symbols
	2

Figure 3.3

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

ime Zone	(GMT) Greenwich mean time; London, Lisbon, 💌	
nc with NTP server		
ITP Server	time nist gov	
ate Format	YYYY-MM-DD	
ime Format	12-hour	
se DST 👩		

Figure 3.4

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

tep 3 of 4 - Wireless	s Settings				
Wireless Network	List	1 Scan	SSID	TP-LINK_liyo	
SSID(Network Name)	Encryption	Quality	Encryption	WPAWPA2 V	
TP-LINK_liyo	WPA/WPA2	- at 2	3 Password		
TP-LINK_wyy	WPA/WPA2	at	The maximum password length is 63, inc		
333	WPA2	att	number	s, 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.

btain IP From DHCP 🗹	

Figure 3.6

#### NOTE:

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

### 3.4 Surveillance Window



Section1 LiveVideo / Settings/Playback buttons



Path to surveillance window. Click this button and back to the surveillance window



Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel and

#### do advanced settings.

Playback

: 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.



Figure 3.4

#### 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

#### <u>Stream</u>

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

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

#### 2) 720P/ VGA

There are two resolutions, the bigger one is 720P, and the smaller one (VGA) is 640x480 pixels. The bigger the resolution, the better of the image quality is. If you are accessing the camera via internet and want to get more

fluent video streaming, please select resolution VGA.

#### 3) Maximum frame rate

When the video format is 50Hz, the maximum frame rate is 25 fps. When the video format is 60Hz, the maximum frame rate is 30 fps. You should lower frame rate when the bandwidth is limited. Normally, when the frame rate above 15, you can achieve fluently video.

#### 4) Bit rate

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

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

Status		Video Sett	tings
Basic Settings			Save Retresh
Network )			
Video	Main stream video settings		
Video Settings	Stream Type	0	
On Screen Display	Resolution	720P	
Privacy Zone Snapshot Settings	Bit Rate	2M	
IR LED Schedule	Frame Rate	30	
Alarm	Key Frame Interval	30	•
Record 💿	Sub stream video settings		
PTZ	Stream Type	(n	
Firewall	AND ADDRESS OF ADDRESS	D	
System )	Resolution	VGA(640*480)	
	Bit Rate	512K	
	Frame Rate	[15]	2
	Key Frame Interval	45	(F)

Figure 3.5

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

#### Zoom Control(Only FC2503PZ)



Zoom the camera's lens.

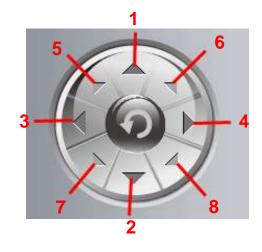
😑 Zoom out

Zoom the camera' lens.

You can adjust the speed of the lens' zoom at Settings--PTZ--Pan & Tilt Speed--Zoom speed.

Status		Pan & Tilt Sp	eed
Basic Settings			Save Refresh
Network			(in the second
Video	Pan & Tilt Speed	Normal	-
Alarm	Zoom speed	Fast	
Record			
PTZ			
Pan & Till Speed	1		
Chuise Settings			
Start-Up Options			

Section4 Pan/Tilt Control(except for FC1403P)



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



Click this button and go to center

#### Section5 Cruise / Preset settings(except for FC1403P)

#### **Cruise Settings**



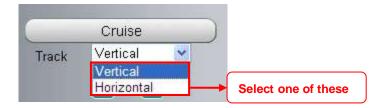
The default cruise tracks have two types: Vertical and Horizontal. Vertical: The camera will rotate from up to down. Horizontal: The camera will rotate from left to right.

### Le: Start cruise.

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

#### How to do cruise?

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



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

#### **Preset settings**



IPCAM supports 16 preset positions, which is considered enough for DIY home & small business surveillance

market

The default preset position is Topmost, Bottom most, Left most, right most, you can add other preset positions.



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



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

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

#### How to do preset position?

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

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

If you want to see one preset position you have set, only select the preset position name from the preset

drop-down list, and click go button, the camera will go to the preset position.

#### Section6 IR LED Lights

	R LED LI	ghts	
Mode	Auto	•	

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.

#### Section7 Image quality settings

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



#### Section8 OSD

If you have added time and camera name in the video, you can see it in the live window.

Go to **Settings ---Basic settings---Camera name** panel, and you can change another device name. The default device name is anonymous.

Go to Settings ---Basic settings---Camera time panel and adjust the device time.

Go to Settings ---Video---On Screen Display panel, you can add or no add OSD.

#### Section9 Play/Stop/ Talk/Audio/ Snap/ Record/ Full screen button

$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
1	2	3	4	



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 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 would be 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 3.6

**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.





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



Figure 3.8

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

	Device Information
	Refresh
Camera Model	FC2403P
Camera Name	FC2403P
Camera ID	fc2403p00000
Camera Time	1970/01/01 01:52:00
System Firmware Version	1.5.2.11
Application Firmware Version	2.21.0.130
Plug-In Version	3.0.0.2

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.

**System Firmware version:** Display the System Firmware version of your camera. **App Firmware version:** Display the application firmware version of your camera. **Plug-in version:** Display the plug-in version of your camera

### 4.1.2 Device Status

On this page you can see device status such as Alarm status/ 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.

	Pages:83			<	<1 2 3>> ү Go
NO.	Time	User	IP		Log
1	Click the page	number	an	d ao to	the
2	corresponding p			_	
3	3 F			j_	
4	2012-09-18 01:27:54	admin	218		
6	2012-09-18 01:26:21	admin	192		one page number, click Go butto
5 6	2012-09-18 01:26:21 2012-09-18 01:25:42	admin admin	19) 21(		to the corresponding page.
		Seconda)	21		
6	2012-09-18 01:25:42	admin	210	and go	to the corresponding page.
6 7	2012-09-18 01:25:42 2012-09-18 01:25:15	admin admin	211 192 192	and go	to the corresponding page.

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.

	Camera Name
	( Save Save Refresh
	Anonymous
Camera Name	The maximum Device Name length is 20, support English, numbers, letters and symbols
	21

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	
		01 - 153 · 177 - 1541 -
Date Format	YYYY-MM-DD	
Time Format	12-hour	<u>*</u>
use DST 📶		

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.

2 Change username 3 Change password Change password	NO.	Usemame	Privilege	Usemame
3 Change password	1	1	Administrator	Privilege Visitor
4	2			Change username
	3			Change password
5	4			
	5			
6	6			
7	7			
e	8			

#### 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.

admin	Username	Privilege	Username	NO.
	Password	Administrator	admin	1
1	New password	Administrator	а	2
	Security Level			3
	Confirm the password			4
Administrator	Privilege			5
Change username	Ľ			6
Change password				7
Modify				8

Figure 4.8

#### How to add account ?

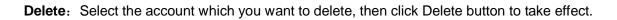
Select one blank column, then enter the new user name, password and privilege, last click Add to take effect. You can see the new added account on the Account list.

.OV	Usemame	Privilege	Username	test
1	admin	Administrator	Password	••••
2			Security Level 1	Low security level.
3			Confirm the password	••••
4			Privilege	Administrator
5		1	<b></b>	Change username
6				Change password
7			1	Add
8			The maximum usern	name length is 20 including numbers,



		1	
NO.	Username	Privilege	Username test
1	admin	Administrator	Privilege Administrator
2	test	Administrator	Change username
3			Change password
4			Delete
5			The maximum usemame length is 20 including numbers,
6			letters and symbols @ \$ *
7			The maximum password length is 12 not including the

Figure 4.10



#### 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.

Cameras On LAN	Anonymous(172.16.0 FC2401P(172.16.0.4 FC2401P(172.16.0.4 Anonymous(172.16.0 Anonymous(172.16.0 Anonymous(172.16.0 Refresh	13) 13) 123) 1 Click it, camera model, alias,
The 1st Camera	This Camera	host and HTTP Port will be
The 2nd Camera	None	filled in the following boxes automatically
Camera Model	H264	automatically
Camera Name	FC2401P	
Host	172.16.0.113	
HTTP Port	34100	
Media Port	34100	
Usemame	admin	
Password		
	Add Delet	
Click Add to take effect	Add Delet	2 Enter the User nam password of the 2nd

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.

	anonymous(192.168.11.193) anonymous (192.168.11.241)	
Cameras On LAN	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	
<u>The 7th Camera</u>	None	
The 8th Camera	None	
The 9th Camera	None	

Figure 4.12

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



Figure 4.13

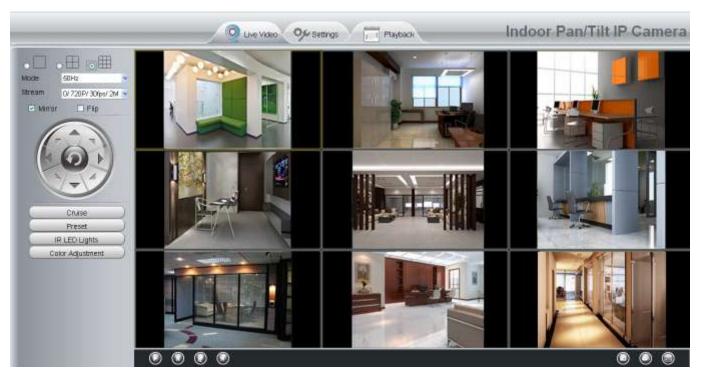


Figure 4.14

# Add cameras in WAN

If you want to view all cameras via the internet(remote computer), you will need to add them using DDNS domain name. Firstly, make sure all of the cameras you added can be accessed through the internet. (**Read How to configure DDNS settings in chapter 4.3.3**)

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

http://a33471 myipcamera.org.8000		
Use DDNS domain name and port to login.		ndeo 🤗 Settings Indoor Pan/Tilt IP Camera
Device Information	Status	
ievre filalus 💦 🔧 🖌	-	( Refresh )
Session Status	Alarm Status	Disabled
gou	IO Alarm Status	No alam
lasic Settings	NTP Status	Failed
letwork	DDNS Status	Success http://a33471.mvipcamera.org.8000
Ideo	1000000000000	
larm	UPnP Status	Success
Record	IR LED Status	On .
TZ		Make sure each camera you need
irewall		add could login with DDNS name
I C Wall		

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)

		Refresh
Cameras On LAN	anonymous(192.168.11.20) anonymous(192.168.11.243) anonymous(192.168.11.203)	Refresh
The 1st Camera	This Camera	S
The 2nd Camera	anonymous(192.168.11.203)	
Camera Model	MJ	<mark>►1</mark>
Camera Name	apple	<b>→</b> 2
Host	camera.no-ip.info	
HTTP Port	801	
Media Port	801	
Usemame	admin	
Password		
	Add Delete	
The 3rd Camera 5	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.

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(owlejww.no-ip.info)	
The 5th Device	None	
The 6th Device	None	
The 7th Device	None	
The 8th Device	None	
The 9th Device	None	

Figure 4.17

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

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



Figure 4.18

# 4.3 Network

This section will allow you to configure your camera's IP, PPPoE, 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.

	IP Configu	ration
		Save Refresh
Obtain IP From DHCP 🔽		

Figure 4.19

Changing settings here is the same as using the IP Camera Tool.

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

Control Panel  $\rightarrow$  Network Connections  $\rightarrow$ Local Area Connections  $\rightarrow$ Choose Support  $\rightarrow$  Details.

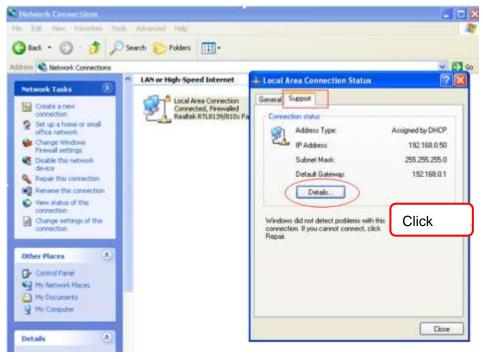


Figure 4.20

Me Edit View Periorites Tools Advanced Help 🕜 Back • 🕥 - 🎓 🔎 Search 📴 Folders 🛄 •		
Network Cornections         Network Tacks         Create a new cornection         Create a new cornection         Set the same Subnet Mask and gateway of the camera with your PC.         Recent         Network Tacks         Create a new cornection         Set the same Subnet Mask and gateway of the camera with your PC.         Recent         Network Tacks         Create a new cornection         Create a new cornection         Create a new cornection         Set the same Subnet Mask and gateway of the camera with your PC.         Recent         Correct         Charges         Charges         Same with gateway is also	Local Area Connection Status Network Connection Details Network Connection Details Property Value Property Value Property 192168.0.50 Subnet Mask 255.255.0 Default Gateway 192168.0.1 DHCP Server 192168.0.1 Lease Obtained 2010.7.2317.20.44 Lease Expres 2010.7.2319.20.44 DNS Server 202.96.134.33 192.168.0.1 WINS Server	
Control Panel W Intwork Places Wy Computer Wy Computer Details		Close

Figure 4.21

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

## 4.3.2 Wireless Settings

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

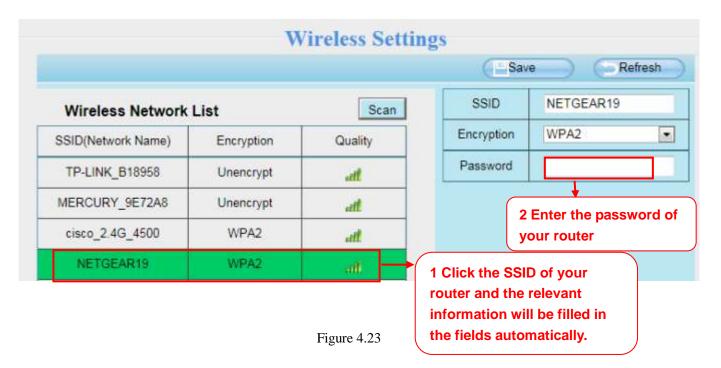
Click the **Scan** button and the camera will detect all wireless networks around the area. It should also display your router in the list.

			Save Refresh		
Wireless Network	List	Scan	SSID		
SSID(Network Name)	Encryption	Quality	Encryption None		
TP-LINK_B18958	Unencrypt	Click the Scan	Click the Scan button		
MERCURY_9E72A8	Unencrypt	att	to search for wireless		
cisco_2 4G_4500	WPA2	att	networks.		
NETGEAR19	WPA2	att			
EPS	WPA2	att			
WUXIAOCHUAN	WPA2	at			
TP-LINK_CB209C	Unencrypt	đ			
TP-LINK_liyo	WPA2	at			
CM512-684556	WPA2	at			
TP-LINK_wyy	WPA2	at			

Figure 4.22

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

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



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

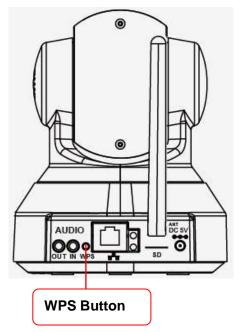
The LAN IP address will disappear on the window of IP Camera Tool when the camera is configuring a wireless connection. Wait about 1 minute, the camera should obtain a wireless connection, and the LAN IP of the camera will show again on the window of the IP Camera Tool. The IP address may have changed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



<u>Step 02</u>) 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 IP Camera Tool will search the camera's LAN IP. Make sure the PC and the camera share the same subnet.

### NOTE:

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

# 4.3.3 **PPPoE**

### NOTE:

FC2407P does not have this function.

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

	PPPoE
	Save Refresh
Use PPPoE 📝	
PPPoE account	The maximum length of the user name is 20, support numbers, letters and symbols @ . $ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
PPPoE password	The maximum password length is 12, including numbers, letters and symbols ~ I @ # \$ % ^ * ( )_ + { } : "   <> ? * - ; *  . /

Figure 4.24

## 4.3.4 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 <u>a33471.myipcamera.org</u> for example. Go to option of **DDNS** on the **Settings->Network** panel, you can see the domain name.

	DDNS	
		Save Refresh
nable DDNS 🕎		
Manufacturer's DDNS		
Manufacturer's DDNS	a33471.myipcamera.org	Restore DDNS to factory
Third Party DDNS		
DDNS Server	None	
Domain		



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

Take hostname <u>a33471.myipcamera.org</u> and HTTP Port no. 800 for example, the accessing link of the camera via internet would be <u>http:// a33471.myipcamera.org:8000</u>

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

# **Third Party Domain Name Settings**

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

Here take <u>www.no-ip.com</u> for example:

#### ① Step 1, Go to the website <u>www.no-ip.com</u> to create a free hostname

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

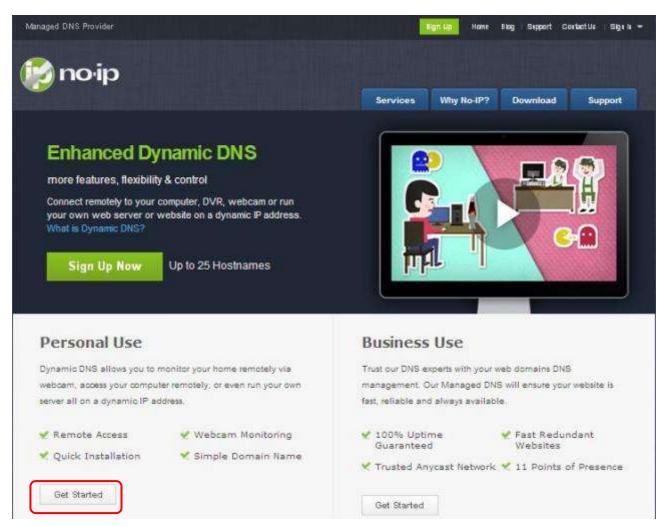


Figure 4.26

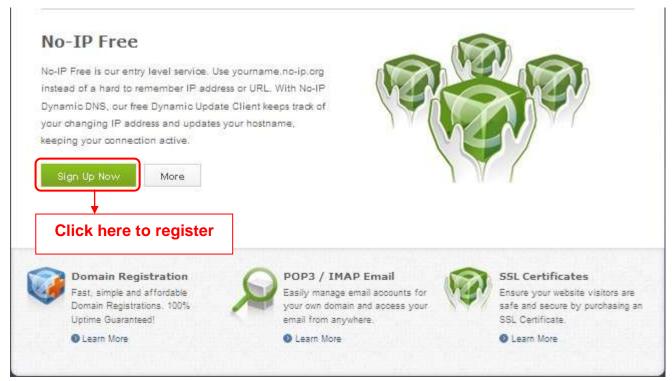


Figure 4.27

### 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 The DNS Serve		Home Download	Services	Support
Client Log	in			User Login Diernamo cuiklang
Home + <u>ClientLogin</u>			vith the register me and passwo	
	Email: Password:			No.IP Enhanced Upgrade your No-P account to unlock many enciring features.
	Forget your password? No proble If you are not currently a register and would like to be for FREE, 10	ed user of No-IP.com.		No.JP Backup DNS Maximize uptime and add Anycant to your existing DNS infrastructure.

Figure 4.28

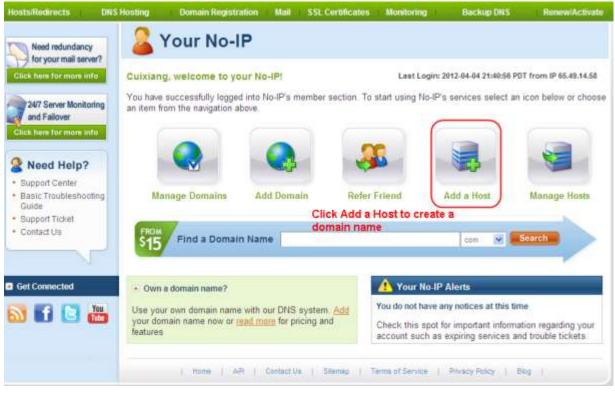


Figure 4.29

## 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 <u>www.no-ip.com</u>

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 **<u>ipcamera</u>** as DDNS user, fill password **<u>ipcamera2012</u>** as DDNS password, fill **<u>ycxgwp.no-ip.info</u>** 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 <u>Device Status</u> 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 <u>http://192.168.8.100:2000</u>, 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.

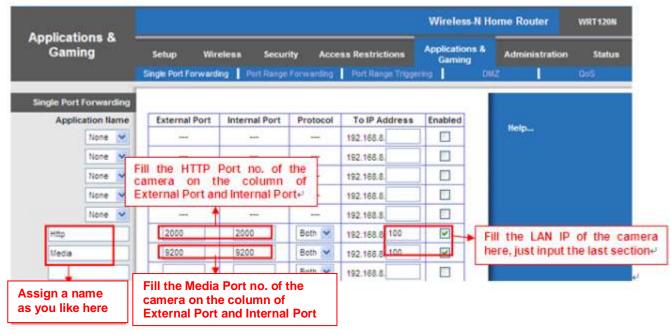


Figure 4.30

### ③ Use domain name to access the camera via internet

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

## 4.3.5 UPnP

	UPnP	
		Save Refresh
Enable UPnP	No	

Figure 4.31

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:

	Refresh
Alarm Status	Disabled
Record Status	Not Recording
NTP Status	Disable
DDNS Status	Success http://a33471.mylpcamera.org.8000
UPnP Status	Success
WIFI Status	Not connected
IR LED Status	or



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.

## 4.3.6 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	
		Save Refresh
HTTP Port	88	
HTTPS Port	443	
ONVIF Port	888	

Figure 4.33

## Another way to change the HTTP port NO.

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

🕸 IP Camera Tool		
Camera name	IP Address	Device ID Device type
anonyaous	Http Basic Properties <u>Network Configuration</u> Upgrade Firmware Refresh Camera List Flush Arp Buffer About IP Camera Tool	00841FI9804 H Select which camera you'd like to change the port for, and right click

Figure 4.34

Ҏ IP Camera Tool	anonymous Network 🗙
Camera name anonymous	Obtain IP from DHCP server         ice ID         Device type           IP Address         192.168.1         110           Subnet Mask         255.255.255.0         H
	Gateway         192.168.1.1           DNS Server         192.168.1.1           Http Port         Modify the Http Port.           User         admin
	Password Enter the Username an password, click OK.
	Note: After changing the configuration device will automatically restart.

Figure 4.35

**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 IP Camera 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!

Camera name	IP Address	Device ID	Device type
nonynous	Http://192.168.1.110:2000	00841F19804	V H

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.

## 4.3.7 Mail Settings

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

inable 🔄			
MTP Server	smtp.gmail.com		
and the set	SMTP server address supports En	pish, numbers and @	
MTP Port	25		-
	STARTTLS	*	
ransport Layer Security	G-Mail only supports TLS at Port 4	66 and STARTILS at Port 687 or 25	. Hotmail only
	supports STARTTLS at Port 587 or 2	5	
eed Authentication	Yes	*	
	test123@gmai.com		
MTP Usemame	The maximum length of the user no	ime is 63, support numbers, letters	and symbols
	Q 5"-		
	19		
and the second se	•••••		
MTP Password		12, does not support the character &	-
		12, does not support the character #	
	The maximum password length is a	and the second se	_
	The maximum password length is a	Test	
iender E-mat	The maximum password length is a least 25@gmail.com	Test	
ender 5-mat	The maximum password length is a least 25@gmail.com	] → 3	
iender E-mat	The maximum password length is a least 23@gmail.com Test@163.com The maximum length of the received	] → 3	
SMTP Password Sender E-mail First Receiver Second Receiver	The maximum password length is 3 Heat125@gmail.com [Heat@163.com The maximum length of the receive _ \$*-	] → 3	

Figure 4.37

1----- SMTP Server/ Port /Transport Layer Security Enter SMTP server for sender. SMTP port is usually set as 25. Some SMTP servers have their own port, such as 587 or 465, and Transport Layer Security usually is None. If you use Gmail, Transport Layer Security must be set to TLS or STARTTLS and SMTP Port must be set to 465 or 25 or 587, which port you choose should be decided by which Transport Layer Security you select.

2-----SMTP Username/ password ID account and password of the sender email address

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

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

5---- Save Click Save to take effect

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

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

ail Settings		Save Refesh
	Enable 🔛	
	SMTP Server	smtp.gmail.com
	Janite Jointo	SMTP server address supports English, numbers and @
	SMTP Port	25
		STARTTLS
	Transport Layer Security	G-Mail only supports TLS at Port 465 and STARTTLS at Port 567 or 25. Hotmail only supports STARTTLS at Port 687 or 25.
	Need Authentication	(Yes
		test123@gmal.com
	SMTP Usemame	The maximum length of the user name is 63, support numbers, letters and symbols $@=, \$^+$ -
	SMTP Password	*****
	Sarry Password	The maximum password length is 32, does not support the character & =
	Sender E-mail	test123@gmai.com Test resu
		test@163.com
	First Receiver	The maximum length of the receiver is 63, support numbers, letters and symbols @
	Second Receiver	tsek@hotmail.com
	Third Receiver	

Figure 4.38

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

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

1) Cannot connect to the server

2) Network Error. Please try later

3) Server Error

4) Incorrect user or password

5) The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again

6) The receiver is denied by the server. Maybe because of the anti-spam privacy of the server

7) The message is denied by the server. Maybe because of the anti-spam privacy of the server

8) The server does not support the authentication mode used by the device

# 4.3.8 FTP Settings

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

Status		FTP Settings		
Basic Settings		Save Refresh		
Network 👘				
IP Configuration		ftp://192.168.1.103/dir		
Wireless Settings	FTP Server	Example: Rp://192.168.1.103/dir		
PPPoE		The maximum length of the address is 127, does not support the character & =		
DDNS	Port	21		
UPnP	Sector Docum			
Port	FTP Mode	PORT		
Mail Settings		test		
FTP.Settings	Username	The maximum length of the user name is 63, support Simplified Chinese, numbers,		
P2P		letters and symbols _ @ \$ * - , . # !		
Video )				
Alarm )	Password	The maximum password length is 63, including numbers, letters and symbols ~ I @ # * (		
Record )		$( \cdot^*  \Leftrightarrow ?^* \cdot (\cdot^*)_{i,j})$		
PTZ )				
Firewall	Test			
System				

Figure 4.39

Status		FTP Settings	
Basic Settings		Save Refresh	
Network			
IP Configuration		ftp://ftp:mgenseal.com	
Wireless Settings	FTP Server	Example:ftp://192.168.1.103/dir	
PPPOE		The maximum length of the address is 127, does not support the character & =	
DDNS	Port	21	
UPnP	Carlos and		
Port	FTP Mode	PORT	
Mail Settings		test	
FTP Settings	Usemame	The maximum length of the user name is 63, support Simplified Chinese, numbers,	
P2P		letters and symbols _ @ \$ *- , . # I	
Video )			
Alarm	Password	The maximum password length is 63, including numbers, letters and symbols ~ I @ # " (	
Record )		<pre>{}:* &lt;&gt;?'+:'\/</pre>	
PTZ )	T and	-12 - 1	
Firewall	Test		
System			

Figure 4.40

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  $\ensuremath{\text{Test}}$  to see if FTP has been successfully configured.

## 4.3.9 P2P

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

	1.441	Save Refresh
UID	F3GTBJ6PTNUL8MPMYRE1	
Enable P2F		
P2P Port	59656	

Figure 4.41

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

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

# 4.4 Video

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

## 4.4.1 Video Settings

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

	Video Set	tings
		Save Refresh
lain stream video settings		
Stream Type	0	
Resolution	720P	
Bit Rate	2M	
Frame Rate	30	•
Key Frame Interval	30	
Variable bitrate	Yes	•
ub stream video settings		
Stream Type	0	
Resolution	VGA(640*480)	
Bit Rate	512K	(w)
Frame Rate	15	
Key Frame Interval	45	-



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

**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.

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

# 4.4.2 On Screen Display

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

	OSD	
		Save Refresh
Display Timestamp	Yes	
Display Camera Name	Yes	•



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

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

## 4.4.3 Privacy Zone

## NOTE:

FI9815P does not have this function.

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

	Privacy 2	Zone
		Save Refresh
Allow Privacy Zone	Yes	
		Set Privacy Zone

Figure 4.44

Allow On Screen Display Mask: There are two options: Yes or NO. Select Yes, then click "Set Privacy Zone" and draw a privacy area on the video, the privacy area will be black on the video.



Figure 4.45

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

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

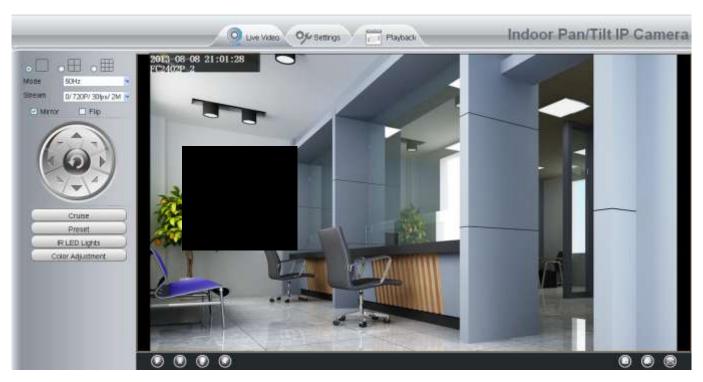


Figure 4.46

# 4.4.4 Snapshot Settings

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

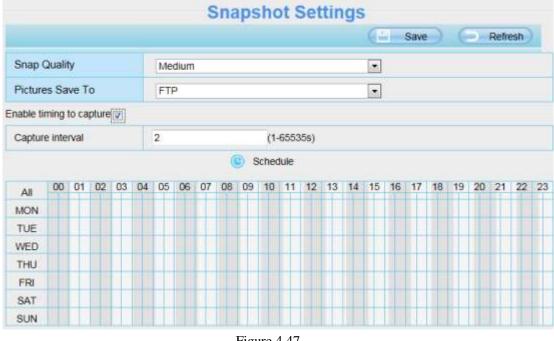


Figure 4.47

Manual snap Quality: Low, Middle and High. The higher the quality, the picture will be clearer.

Alarm 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 automatically. If select SD Card as the save path, make sure the camera

has inserted in the SD card.

### Enable timing to capture

To enable capture interval, follow the steps below:

- 1 Select Enable timing to capture
- 2 Capture interval: The interval time between two captures.

### 3 Select the capture time

• Capture anytime

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

• Specify an capture schedule

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

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

4 Click Save button to take effect.

## 4.4.5 IR LED Schedule

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

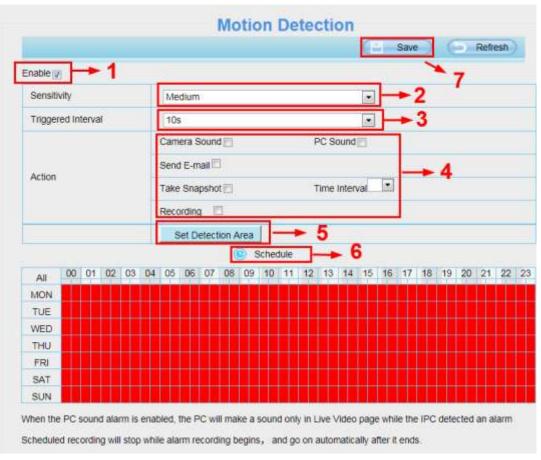
	IR LED Schedule
	Save Refresh
IR LED Schedule	
Set the close time	From 00 • 00 • To 00 • 00 •

Figure 4.48

# 4.5 Alarm

## **4.5.1 Motion Detection Alarm**

IP Camera supports **Motion Detection Alarm**, when the motion has been detected, it will send emails or upload images to FTP.





### To enable motion detection, follow the steps below:

### **Step 01: Enable Motion 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 detections. Here supports 5s/6s/7s/8s/9s/10s/11s/12s/13s/14s/15s. Select one interval time.

#### Step 04: Select the alarm indicator

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

Status		Device Status
Device Information		
Device Status	<	C Refresh
Session Status	Alarm Status	Detect alarm
Log	Recording Status	Not Recording
Basic Settings	SD Card Status	No SD card
Network	SD Card Free Space	OKB
Video		
Alarm	SD Card Total Space	OKB
Record	NTP Status	Failed
PTZ	DDNS Status	Success http://a33471.mylpcamera.org.88
Firewall	UPnP Status	Success
System	WiFi Status	Not connected
	IR LED Status	of



### There are four alarm indicators:

### A Camera Sound and PC Sound

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

### **B Send E-mail**

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

#### C Take Snapshot

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

Capture interval: The interval time between two pictures.

#### D Recording(except for FC1403P)

If you select this checkbox, when the motion has been detected, the camera will record automatically and store the record files to the SD Card. Make sure the camera has inserted SD card and you have set the SD card as the Alarm record files storage path, please go to **Record—> Storage location** page to verify this settings. The default alarm record time is 30s and pre-alarm record time is 5s, please go to **Record—> Alarm Record** page and change the alarm time settings.

#### Step 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.

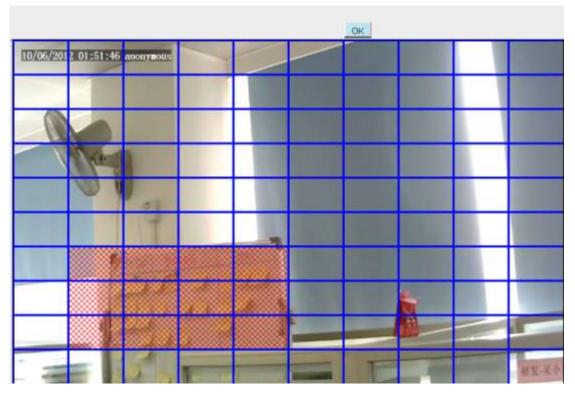


Figure 4.51

## Step 06: Alarm Schedule

 $(\underline{1})$  Alarm anytime when motion is detected

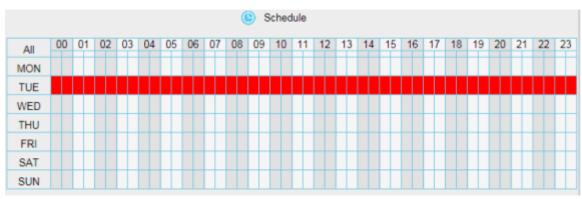
Click the black button up the MON, you will see all time range turn red. When something moving in the detection area at anytime, the camera will alarm.





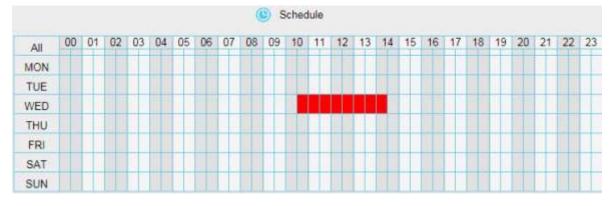
## 2 Specify an alarm schedule

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





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





### Step 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 IO Alarm(Only FC2407P)

This IP camera provides a I/O alarm terminal block which is used to connect to external input / output device. The alarm device(door sensor, infrared sensor, smoke detectors, etc) send input command to the network camera, then the network camera send output command to the alarm output device(local audible alarm, lights alarm,etc.).

Device Status	10
Basic Setting	5 10
Network 🔍	Save Refresh
Video	Enable V
larm 📃	Trigger level
Mation Detection	Triggered Interval 56
)	Ring
ecord	
TZ 🚽	Action Send E-mail
ath setting	Take Snapshot Time Interval 28
irewall 💎	IO Output Clear IO Alarm Output
ystem	Schedule
	00 01 02 03 04 05 06 07 06 09 10 11 12 13 14 15 16 17 18 19 20 21 22 2
	MON
	TUE
	WED
	тни
	FRI
	SAT
	SUN

Figure 4.55

There is an IO alarm input/output interface in the camera rear. Enable IO alarm need this interface to connect to the alarm device (door sensor, infrared sensor, smoke detector, etc.). I/O Alarm has four ports:

Port 1 and port 2 indicate IO alarm output

Port 3 and port 4 indicate IO alarm input



Figure 4.56

## Setting IO alarm

On the IO page, Enable the I/O alarm, select the "**Send E-mail**" or "**Snapshot**" before you have configured the mail or FTP.

Device Status	10												
Basic Setting	10												
Network			( Save )	Refresh									
(Video )	Enable 💌												
Alarm	Trigger level	Low	*										
Motion Detection	Triggered Interval	58	58										
		Ring											
Record													
(PTZ )	Action	Send E-mail											
Path setting		Take Snapshot 🗹	Time Interval 2s 💌										
Firewall		10 Output 🛄	Clear IO Alarm Output										
System			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		ا و و و و و ب و و و و و و و و و و و و	ي و و و و و و و									
	TUE												
Click this button and	WED												
select all time range.	THU												
see an and sariger	FRI												
	SAT												
	SUN SUN		삨븮븮슻닅븮븮슻탒큟븮븮븮븮										

Figure 4.57

If an IO alarm is triggered and IO alarm output device will always alarm (sound alarm is issued a warning sound, alarm lights in flash etc.). Click "Clear IO alarm output", the alarm output device will stop alarming. If IO alarm is triggered again after alarm interval, IO alarm output device will be restart.

IO	)																								
																	C	Sav	e	$\supset$	E	Re	fresh		)
I	Enable 🔽	]																							
	Trigger	level					Low	<i>,</i>									~								
	Triggere	ed Inte	erval				5s										۷								
							Ring																		
							Send	E-m	ail 🗹																
	Action						Take	Snap	pshot	<b>v</b>				Ti	me Ir	iterva	2s	*							
						Γ	10 0	utput	•					Clear	10 A	larm	Outp	ut							
										(	9 و	Sched	Jule												
		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		Ш			Ш			Щ								Щ			Щ.					
	THU		Ш.			Ш			Щ	Щ.			Ш				Щ			Щ.					
	FRI		Ц.			Щ.		Ц.	Щ.	Щ.	Ц.		Щ.				Щ.	Ц.		Щ.					
	SAT								Ц.								Ц.								
	SUN																								

Figure 4.58

# 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 Locat	tion
		Save Refresh
Recording Location	FTP	
Local Recording Location	c:\IPCamRecord	Browse
Recording Location is used for ala	rm recordings and schedule recording	15.
The local recording must be stored	in local storage. The default Window	s storage location is "c:\IPCamRecord". The default
Mac OS storage location is "/IPCa	mRecord". If you modify the path on ot	ther cameras, this default storage location will be
modified accordingly.		

Figure 4.59

**Recording Location**: SD card or FTP. When the camera alarmed, it will store the alarm files to the SD card or FTP. Make sure the camera has been inserted the SD card. On this page, you can see the available space of the SD card.

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

# 4.6.2 Alarm Recording

 Alarm Recording

 Save
 Refresh

 Enable Pre-Record @
 •

 Pre-recorded Time
 5s

 Alarm Recording Time
 30s

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



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.

	1.0	ca	I Alarm Recording			
	20	u	Alarmineccoraling			
			(	Sa	ve 🔿	Refresh
Enable Local	Alarm Recording					
Local Alarr	n Recording Time	3	30s		•	
		Lo	cal Alarm Recording			
				Save	Refresh	
	Enable Local Alarm Recording					
	Local Alarm Recording Time		30s	•		

Figure 4.61

# 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.

																×	1	SHAFE			112	Retre	810.7	
nable Se	chedu	led F	Reco	rding	团																			
Enable	Long	p-tim	e rec	ordi:	ng	Ţ	No						_				•							
Frame	Rate					Ĩ	30										-							
Record	i full s	trate	egy			1	Cove	r.									•							
Audio I	Recor	d				1	No										•							
Stream	1					1	Main	stre	am								•							
									Ø	9 E	dit S	ched	uled	Reco	rding	2								
All	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	2
MON																						i r		
TUE																								
WED																								
THU																								
FRI				-																				
SAT																								
SUN																								

Figure 4.62

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

nable S	chedi	uled	Reco	rding																				
Stream	1		h	1ain	strea	m								3										
			-						(	) E	dit S	ched	luled	Reco	ording	9								
All	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	13
MON																								
TUE																								
WED																								
THU																								
FRI																								
SAT																								
SUN														44										

Figure 4.63

Click Save button to take effect.

## 4.6.5 SD Card Management

### NOTE:

The FC1403P doesn't support the function.

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.

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

Status	evice Status		
Device Information	evice Status		
Device Status			-Refresh
Session Status	Alarm Status	No alarm	
Log	Record Status	Not Recording	
Basic Settings	SD Card Status	No SD card	
Nebwork		OKB	
Video 👘	SD Card Free Space	-OKB	
Alarm )	SD Card Total Space	OKB	
Record	NTP Status	Failed	
PTZ 🔍	DDNS Status	Disabled	
Firewall	UPnP Status	Disabled	
System	WIFi Status	Not connected	
	1 March 1997		
	IR LED Status	Off	

#### Figure 4.64

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.

# 4.7 PTZ

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

## NOTE:

The FC1403P doesn't support the function.

## 4.7.1 Pan/Tilt Speed

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

	Pan & Tilt S	peed	
		Save	B Refresh
Pan & Tilt Speed	Normal	~	
Zoom speed	Fast	~	

Figure 4.65

Only FC2503PZ supports Zoom speed.

## 4.7.2 Cruise Settings

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

				Refrest
Cruise Mode	Cruise time	•		
Cruise time	15 Minute			
	Save			
Cruise Tracks	Vertical		Add Dele	te Save
Preset point			Cruise track Preset point	Dwell time
TopMost BottomMost LeftMost			TopMost BottomMost	0 Sec 0 Sec
RightMost		Add		
		Delete		
		1		
		Up		

Figure 4.66

## **Setting the Cruise Mode**

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

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

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

Click **Save** to take effect.

Cruise Mode	Cruise time	•
Cruise time	15 Minute	
	Save	
Cruise Mode	Cruise Loops	
Cruise Mode Cruise Loops	Cruise Loops	s

Figure 4.67

# Manage the Cruise Track

There are two default cruise tracks: Vertical and Horizontal. Vertical: The camera will rotate from up to down Horizontal: The camera will rotate form left to right. Add: Add one cruise track, then click save button.Delete: Select one cruise track and delete it.Save: After you modify the Dwell time, you should click Save button to take effect.

## Example

## How to do add cruise tracks ?

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

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

	Cruise Sett	ings			
			Refresh		
Cruise Mode	Cruise time	-			
Cruise time	15 Minute	3			
	Save				
Cruise Tracks	test The maximum length of name is 20, su		ers and symbols		
Preset point	The new added track nar	ne . Cruise track Preset point	Dwell time		
TopMost		BottomMost	1 Sec		
BottomMost		LeftMost	2 Sec		
LeftMost	Add	1			
RightMost Select one preset p	pelete	has been adde	Here you can see the preset point has been added to one track. Ar		
	2 Click Add Button		you can set the stay time.		



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

You can add other cruise track as the same method.

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



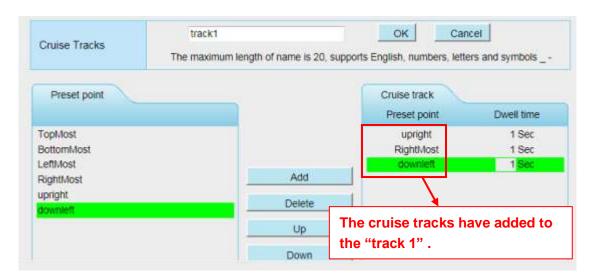


Figure 4.69

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



Figure 4.70

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

Preset point		Cruise track	
		Preset point	Dwell time
TopMost BottomMost		upright RightMost	1 Sec 1 Sec
LeftMost		downleft	1 Sec
RightMost	Add	1	
upright downieft	Delete	1	
	Up	1	
	Down	R	



Add: Select one preset points and add it to the selected cruise track.

Delete: Select one preset points you have added to one cruise track, click delete.

Move up/ down: Select one cruise track, adjust the order of preset points in one cruise track.

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

# 4.7.3 Start-Up Options

Here section will allow you to set the stop position after the camera reboots. It supports three modes: Disable Start-Up, Go To Home Position and Go To Preset Position.

Disable Start-Up: When rebooting, the camera will not pan / tilt.

**Go To Home Position:** When rebooting, the camera will pa Providing Central Management Software to manage or monitor multi-cameras n / tilt and stops at center.

**Go To Preset Position:** Select one preset position and save it. When rebooting, the camera will pan/ tilt and stops at the preset position you have set.

	Start-Up Options	
		Save Refresh
Start-Up Option	Go To Home Position	

Figure 4.72

# 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.

		Save	Refresh
Enable Firewall 🔽			
IP Filtering	Block access from these IP addresses	<b>~</b>	
	Block access from these IP addresses Only allow 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			



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 upgrading	used to save your current settings. It is recommended to backup your configuration before modifying or
	kup
Settings c	an be restored by uploading the backup file.
Path:	Browse Submit
Note: 1. All cum working co	ent settings will be lost when importing a configuration file. If an incorrect file is loaded, the camera may stop prrectly.
1970102000000	e power on during this process, or you may damage your camera. Your camera will reboot automatically once n is completed.
	Figure 4.74

# 4.9.2 System Upgrade

Your current firmware version will be displayed on your screen. You may go to the **Device Status**  $\rightarrow$  **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.

		System Upgrade	
	Browse	System Upgrade	
Result			
	Your cam	nera will reboot during the firmware upgrade.	



# Upgrade Firmware by IP Camera Tool

Double click the IP Camera Tool shot icon



, select the Camera IP that you want to upgrade the

firmware. Then select Upgrade Firmware and enter the username and password, choose the firmware file, and upgrade.

🔉 IP Camera Tool			
Camera name	IP Address	Dewice ID	Device type
IPCAT	Basic Properties Network Configuration Upgrade Firmware Refresh Camera List Flush Arp Buffer About IP Camera Tool	00626E4D8A55	H



🕦 IP Camera Tool	
Camera name	IPCAM Upgrade Fi X vice ID Device type
TPCAT	S26E4D8A55 H User admin Password Upgrade System Firmware Upgrade Web UI OK Note: After firmware upgrade the device will automatically restart.

Figure 4.77

**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.

	1	Patch Installation	
	Browse	Install Patch	
Uninstall Patch	1		
Result			
		ra 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.

Factory Reset			
	Factory Reset	Click this button to hard reset the camera to its default factory settings.	

Figure 4.78

# 4.9.5 Reboot

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

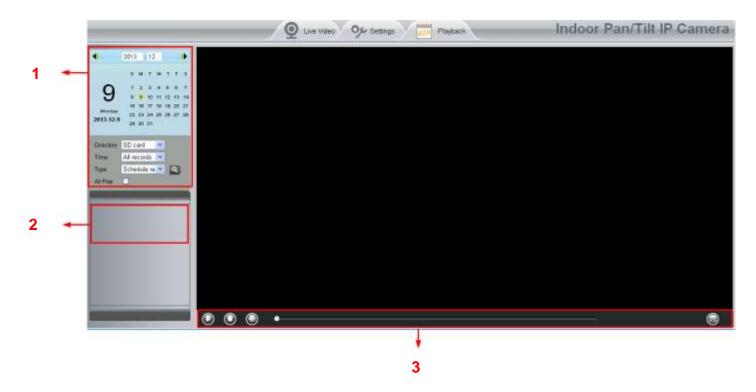
Reboot		
	Reboot	Click this button to reboot your camera.
		Figure 4.79

# 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

I : The storage path of record files

Time All records 🚬: Here supports three types: current day, current month and All records. Another way,

select the time on the time&date manually.

Directory SD card

-	2013		8				•
	s	м	т	w	т	F	s
8					1	2	3
U	4	5	0	7	8	8	10
******	11	12	13	14	15	16	17
Thursday	18	19	20	21	22	23	24
2013-8-8	25	26	27	28	29	30	31

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

All records.

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

#### Section 2 Search record files

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

#### Play/Stop/Audio/Full screen buttons Section 3

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.

#### **Appendix** 6

#### **Frequently Asked Questions** 6.1

#### 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.

The second second	- Windows Internet Explore				<b>₹</b> * 47
100000	New Taxanter Tools Nep BrCam Client				
		Generation	slorer - Security Warning		-
			want to install this software? Name: IPC//ebComponents.exe Publisher: SheniZhen Fascam Into		
		× Mare	sotions While files from the Internet can be use your computer. Only install coffware fir	ful, this file type can potentially have	-
		Ľ	And Authority And Links sources u	ALTERNAL PARTY AND	





Figure 6.2

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

Figure 6.3

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

Figure 6.4

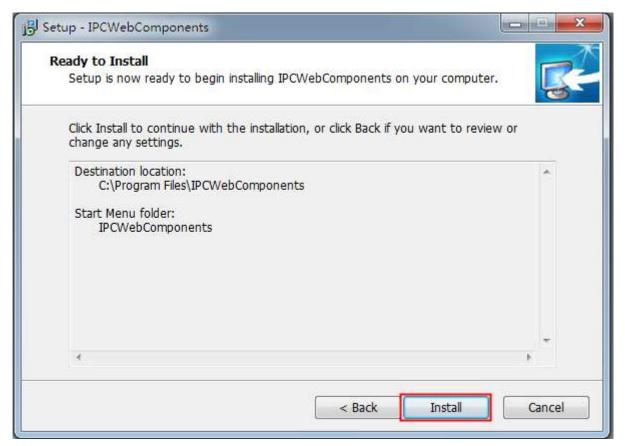


Figure 6.5



Figure 6.6

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

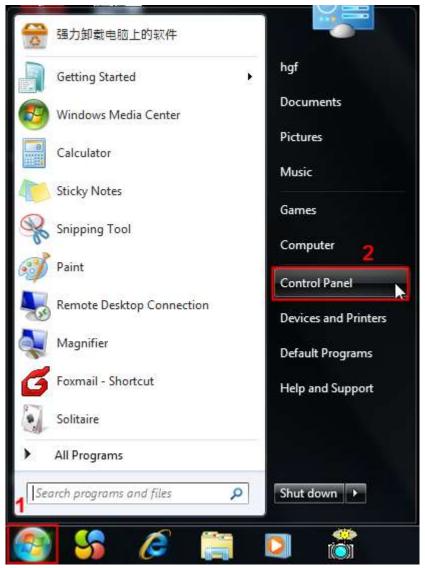


Figure 6.7



Figure 6.8

General Panel	Programs      Programs and Features	• +• Search P	ngram and Feat	WITES .
Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list a	nd then click Uninstall, Change, or Repair.		
off	Organize 👻 Uninstall			H . (
	Name	Publisher	Installed On	Size
	- 360安全卫士	360安全中心	5/21/2014	191 MB
	Adobe Reader XI - Chinese Simplified	Adobe Systems Incorporated	5/21/2014	155 MB
	PCWebComponents 3.0.0.2		6/10/2014	3.67 MB
	Tencent RTX Client Uninstal	encent	5/21/2014	



# 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

nternet Options General Socurty Privacy Content Connections P	rograms Advanced
Select a zone to view or charge security settings.	Security Settings - Internet Zone
Internet     This zone is for internet websites,     accept those listed in trusted and     mitrated zones.     Security level for this zone     Alowed levels for this zone: Medium to High     Medium-high     Appropriate for most websites     Proprior boffre downloading potential     contarit     -Unsigned ActiveX controls will not be	Ousable     Onable     Onable     Ousable     Ous
Custom level	Run ActiveZ controls and plug ins     Advectmentation assessed     Takes effect after you restart internet Explorer      Heast custom settings      Reset to: Medum-high (default)     Robot
	OK Cancel

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.

	Por	rt
		Save Refresh
HTTP Port	88	
HTTPS Port	443	
ONVIF Port	888	



#### 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

l	ITEMS	FC1403P
	Sensor	High Definition Color CMOS Sensor
Image Sensor	Display Resolution	1280 x 720 (1Megapixel)
	Min. Illumination	0 Lux (With IR Illuminator)
	Lens Type	Glass Lens
Lens	focal length	f:2.8mm
	Aperture	F:2.4
	Angle of View	70°
	Image Compression	H.264
	Image Frame Rate	30fps maximum, downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240), QVGA(320 x 180)
Video	Stream	dual stream
Video	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Night visibility	11pcs IR-LEDs, night vision range up to 8 meters
	Input/Output	Supports two-way audio
Audio		Built-in Mic & Speaker
Addio	Audio Compression	PCM/G.726
	Ethernet	One 10/100Mbps RJ45 port
Network	Remote Access	P2P, DDNS
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、
		UPnP、RTSP、ONVIF
	Operating System	Microsoft Windows 2000/XP, Vista, 7, 8;
		Mac OS
System		iOS、Android

Requirements	Browser	Microsoft IE7 and above version or compatible browser;
		Mozilla Firefox;
		Google Chrome;
		Apple Safari.
	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
Other Features	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Storage	local storage
	Reset	Reset button is available
	Power Supply	DC 5V/1.5A
Power	Power Consumption	5.0 Watts (Max.)
	Dimension(LxWxH)	75(L)x 69(W)x 132(H) mm
Physical	Gross Weight	390g
	Net Weight	180g
	Operate Temper.	0° ~ 40°C (32°F ~ 104°F)
	Operating Humidity	20% ~ 85% non-condensing
Environment	Storage Temper.	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

	ITEMS	FC2401P
	Sensor	High Definition Color CMOS Sensor
Image Sensor	Display Resolution	1280 x 720 (1Megapixels)
	Min. Illumination	0 Lux (With IR Illuminator)
	Lens Type	Glass Lens
Lana	focal length	f:2.8mm
Lens	Aperture	F2.4
	Angle of View	70°
	Image Compression	H.264
	Image Frame Rate	30fps maximum, downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x
	Resolution	240), QVGA(320 x 180)
Video	Stream	dual stream
Video	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:300° & Vertical: 120°
	Night visibility	11pcs IR-LEDs, night vision range up to 8 meters

		Supporte two way oudio
		Supports two-way audio
Audio	Innut/Outnut	Built-in Mic & Speaker
	Input/Output	3.5mm audio jack for external Mic & Speaker PCM/G.726
	Audio Compression	
	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
		IEEE802.11b: 11Mbps(Max.);
	Data Rate	IEEE802.11g: 54Mbps(Max.);
Network		IEEE802.11n: 150Mbps(Max.).
	Wireless Security	WEP, WPA, WPA2
	WPS	Supports WPS one button push wireless connection
		IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、
	Network Protocol	UPnP、RTSP、WPS、ONVIF
	Remote Access	P2P, DDNS
		Microsoft Windows XP, Vista, 7, 8;
	Operating System	Mac OS
System		iOS、 Android
System Boguiromonto	Browser	Microsoft IE7 and above version or compatible browser;
Requirements		Mozilla Firefox;
		Google Chrome;
		Apple Safari.
	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
Other Features	User Accounts	Three levels user role
Other realures	Firewall	Supports IP Filtering
	Storage	Micro SD card and local storage
	Reset	Reset button is available
Darran	Power Supply	DC 5V/2.0A
Power	Power Consumption	7.5 Watts (Max.)
	Dimension(LxWxH)	110(L)*103(W)*127(H) mm
Physical	Gross Weight	680g
	Net Weight	310g
	Operating Temperature	-20° ~ 55°C (-4°F ~ 131°F)
	Operating Humidity	20% ~ 85% non-condensing
Environment	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	-
	· ·	

	ITEMS	FC2402P
	Sensor	High Definition Color CMOS Sensor
Image Sensor	Display Resolution	1280 x 720 (1Megapixels)
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	Glass Lens

	focal length	f:2.8mm
	Aperture	F2.4
	Angle of View	70°
	Image Compression	H.264
	Image Frame Rate	30fps maximum, downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240), QVGA(320 x 180)
Video	Stream	dual stream
VIGEO	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:300° & Vertical: 115°
	Night visibility	9pcs IR-LEDs, night vision range up to 8 meters
		Supports two-way audio
		Built-in Mic & Speaker
Audio	Input/Output	3.5mm audio jack for external Mic & Speaker
	Audio Compression	PCM/G.726
	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.);
		IEEE802.11g: 54Mbps(Max.);
Network		IEEE802.11n: 150Mbps(Max.).
	Wireless Security WPS	WEP, WPA, WPA2
	WPS	Supports WPS one button push wireless connection
		IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、
	Network Protocol	UPnP、RTSP、WPS、ONVIF
	Remote Access	P2P, DDNS
		Microsoft Windows XP, Vista, 7, 8;
	Operating System	Mac OS
System		iOS、Android
Requirements		Microsoft IE7 and above version or compatible browser;
Requirements	Browser	Mozilla Firefox;
	DIOWSEI	Google Chrome;
		Apple Safari.
	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
Other Feetures	User Accounts	Three levels user role
Other Features	Firewall	Supports IP Filtering
	Storage	Micro SD card and local storage
	Reset	Reset button is available
_	Power Supply	DC 5V/2.0A
Power	Power Consumption	7.5 Watts (Max.)
	Dimension(LxWxH)	115.7(L) x113.5(W) x152(H) mm
Physical	Gross Weight	685g
,	Net Weight	320g

	Operating Temperature	-20° ~ 55°C (-4°F ~ 131°F)
Environment	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

	ITEMS	FC2403P
	Sensor	High Definition Color CMOS Sensor
-	Display Resolution	1280 x 720 (1Megapixels)
	Min. Illumination	0 Lux (With IR Illuminator)
	Lens Type	Glass Lens
Lana	focal length	f:2.8mm
Lens	Aperture	F2.4
	Angle of View	70°
	Image Compression	H.264
	Image Frame Rate	30fps maxmium, downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 x 240), QVGA(320 x 180)
	Stream	dual stream
Video	Image adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:300° & Vertical: 90°
	Night visibility	11pcs IR-LEDs, night vision range up to 8 metres
	Input/Output	Supports two-way audio
Audio		Built-inMic&Speaker3.5mm audio jack for external Mic & Speaker
	Audio Compression	PCM/G.726
	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.);
		IEEE802.11g: 54Mbps(Max.);
Network		IEEE802.11n: 150Mbps(Max.).
Network	Wireless Security	WEP, WPA, WPA2
	WPS	Supports WPS one button push wireless connection
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、 UPnP、RTSP、WPS、ONVIF
	Remote Access	P2P, DDNS
	Operating System	Microsoft Windows XP, Vista, 7, 8;
System Requirements		Mac OS iOS、Android

	Browser	Microsoft IE7 and above version or compatible browser;
		Mozilla Firefox;
		Google Chrome;
		Apple Safari.
	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
Other	User Accounts	Three levels user role
Features	Firewall	Supports IP Filtering
	Storage	Micro SD card and local storage
	Reset	Reset button is available
Dowor	Power Supply	DC 5V/2.0A
Power	Power Consumption	5 Watts (Max.)
	Dimension(LxWxH)	110(L)*110(W)*135(H) mm
Physical	Gross Weight	678.2g
	Net Weight	310g
Environment	Operating Temperature	0° ~ 40°C (32°F ~ 104°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

ITEMS		FC2405P
Image Sensor	Sensor	High Definition Color CMOS Sensor
	Display Resolution	1280 x 720 (1Megapixels)
	Min. Illumination	0 Lux (With IR Illuminator)
	Lens Type	Glass Lens
Lens	focal length	f:2.8mm
	Aperture	F2.4
	Angle of View	70°
	Image Compression	H.264
	Image Frame Rate	30fps maxmium, downward adjustable
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360),
		QVGA(320 x 240), QVGA(320 x 180)
Video	Stream	dual stream
	Image adjustment	The hue, brightness, contrast, saturation, sharpness are
		adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:300° & Vertical: 90°
	Night visibility	11pcs IR-LEDs, night vision range up to 8 metres
	Input/Output	Supports two-way audio
Audio		Built-in Mic & Speaker
		3.5mm audio jack for external Mic & Speaker

	Audio Compression	PCM/G.726
	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.);
Network		IEEE802.11g: 54Mbps(Max.);
Network		IEEE802.11n: 150Mbps(Max.).
	Wireless Security	WEP, WPA, WPA2
	WPS	Supports WPS one button push wireless connection
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、
		DDNS、UPnP、RTSP、WPS、ONVIF
	Remote Access	P2P, DDNS
	Operating System	Microsoft Windows XP, Vista, 7, 8;
•		Mac OS
System	_	iOS、Android
Requirements	Browser	Microsoft IE7 and above version or compatible browser;
		Mozilla Firefox;
		Google Chrome;
		Apple Safari.
	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
Other	User Accounts	Three levels user role
Features	Firewall	Supports IP Filtering
	Storage	Micro SD card and local storage
	Reset	Reset button is available
Power	Power Supply	DC 5V/2.0A
	Power Consumption	5 Watts (Max.)
	Dimension(LxWxH)	106(L)*103(W)*131(H) mm
Physical	Gross Weight	668.2g
	Net Weight	300g
	Operating	$0^{\circ} ~ \sim 40^{\circ} ~ C$ (32° F ~ 104° F)
	Temperature	
Environment	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-10° C ~ 60° (14° F ~ 140° F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

ITEMS		FC2407P
	Sensor	High Definition Color CMOS Sensor
Image Sensor	Display Resolution	1280 x 720 (1Megapixels)
	Min. Illumination	0 Lux (With IR Illuminator)
	Lens Type	Glass Lens
Lana	focal length	f:2.8mm
Lens	Aperture	F2.4
	Angle of View	70°

	Image Compression	H.264
	Image Frame Rate	30fps maxmium, downward adjustable
	Inage Frame Rate	
	Resolution	720P(1280 x 720), VGA(640 x 480), VGA(640 x 360), QVGA(320 > 240), QVGA(320 x 180)
	Stream	dual stream
Video	Stream	
video	Imaga adjustment	The hue, brightness, contrast, saturation, sharpness are adjustable
	Image adjustment	
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:300° & Vertical: 120°
	Night visibility	11pcs IR-LEDs, night vision range up to 8 metres
		Supports two-way audio
Audio	Input/Output	Built-in Mic & Speaker
	Audio Compression	PCM/G.726
	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
		IEEE802.11b: 11Mbps(Max.);
	Data Rate	IEEE802.11g: 54Mbps(Max.);
Network		IEEE802.11n: 150Mbps(Max.).
Network	Wireless Security	WEP, WPA, WPA2
	WPS	Supports WPS one button push wireless connection
		IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS
	Network Protocol	UPnP、RTSP、WPS
	Remote Access	P2P, DDNS
		Microsoft Windows XP, Vista, 7, 8;
	Operating System	Mac OS
0		iOS、Android
System		Microsoft IE7 and above version or compatible browser;
Requirements	Browser	Mozilla Firefox;
		Google Chrome;
		Apple Safari.
	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
Other Features	Storage	Micro SD card and local storage
	Alarm	Alarm I/O interface
	Reset	Reset button is available
	Power Supply	DC 5V/2.0A
Power	Power Consumption	7.5 Watts (Max.)
	Dimension(LxWxH)	110(L)*103(W)*127(H) mm
Physical	Gross Weight	680g
. nyoloai	Net Weight	310g
	Operating Temperature	-20° ~ 55° C (-4° F ~ 131° F)
Environment	Operating Humidity	20% ~ 85% non-condensing
Environment		-20° C ~ 60° (-4° F ~ 140° F)
	Storage Temperature	-20 0~00 (-4 F~140 F)

	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

	ITEMS	FC2503PZ
	Sensor	High Definition Color CMOS Sensor
Image Sensor	Display Resolution	1280 x 960
	Min. Illumination	0 Lux (With IR Illuminator)
	Lens Type	Glass Lens
Lens	focal length	f:4mm~9mm
	Aperture	F:1.8
	Angle of View	70°
	Image Compression	H.264
	Image Frame Rate	30fps maximum, downward adjustable
	Resolution	1280x960, 720P(1280 x 720), VGA(640 x 480), VGA(640 x
		360), QVGA(320 x 240), QVGA(320 x 180)
Video	Stream	dual stream
VIGEO	Image adjustment	The hue, brightness, contrast, saturation, sharpness are
		adjustable
	Flip image	flip and mirror
	Infrared mode	Automatic or manual
	Pan/Tilt Angle	Horizontal:300° & Vertical: 120°
	Night visibility	13pcs IR-LEDs, night vision range up to 8 meters
	Input/Output	Supports two-way audio
		Built-in Mic & Speaker
Audio		3.5mm audio jack for external Mic & Speaker
	Audio Compression	PCM/G.726
	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n
	Data Rate	IEEE802.11b: 11Mbps(Max.);
		IEEE802.11g: 54Mbps(Max.);
		IEEE802.11n: 150Mbps(Max.).
Network	Wireless Security	WEP, WPA, WPA2
	WPS	Supports WPS one button push wireless connection
	Remote Access	P2P, DDNS
	Network Protocol	IP、TCP、UDP、HTTP、HTTPS、SMTP、FTP、DHCP、DDNS、
		UPnP、RTSP、WPS
	Operating System	Microsoft Windows 2000/XP, Vista, 7, 8;
System		Mac OS
Requirements		iOS、Android

	Browser	Microsoft IEZ and above version or compatible browser:
	DIOWSEI	Microsoft IE7 and above version or compatible browser; Mozilla Firefox:
		Google Chrome;
		Apple Safari.
	Motion Detection	Alarm via E-Mail, upload alarm snapshot to FTP
	Privacy Zone	Set privacy zone manually
Other Features	User Accounts	Three levels user role
	Firewall	Supports IP Filtering
	Storage	Micro SD card and local storage
	Reset	Reset button is available
	Power Supply	DC 5V/2.0A
Power	Power Consumption	9.5 Watts (Max.)
	Dimension(LxWxH)	115(L)x 103(W)x 125(H)mm
Physical	Gross Weight	750g
	Net Weight	420g
	Operating	0° ~ 40°C (32°F ~ 104°F)
Environment	Temperature	
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	CE, FCC, RoHS	

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 Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: 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 in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

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

#### measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

#### **RF warning statement:**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

#### **CE Mark Warning**

# CE

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.