

User Manual

Outdoor HD IP Camera



Model: FI9803P V2

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1 Overviews

FOSCAM Outdoor HD IP Camera 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 from anywhere on your local network or over the Internet.

FI9803P V2 support the industry-standard H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth.

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

The camera is designed for outdoor surveillance applications such as courtyards, supermarket, and school. Controlling the IPCAM and managing images are simplified by using the provided web interface across the network utilizing wireless connectivity.

FOSCAM provides Phone APPs for Android and iPhone users, please search **Foscam Viewer** and install it through Google Play or APP Store, then you can view your camera directly as a computer.

1.1 Key Features

- Standard H.264 video compression algorithm to satisfy the transmission of high definition video in narrow bandwidth network
- 1.0 Mega-Pixel
- Supports IE/Firefox/Google/Safari browser or any other standard browsers
- Supports WEP, WPA and WPA2 Encryption
- Wi-Fi compliant with wireless standards IEEE 802.11b/g/n
- IR night vision , Range:20m
- Supports image snapshot
- Supports dual-stream
- Supports IR-Cut and the filter change automatically
- Embedded FOSCAM DDNS(dynamic domain name service) Service
- Supports remote viewing & record from anywhere anytime
- Multi-level users management with password protection
- Motion detection alert via email or upload image to FTP
- Supporting Third Party Domain name
- Providing Phone APPs for Android and iPhone users
- Supports multiple network protocols: HTTP /HTTPS/ RTSP/ TCP /IP /UDP /FTP /DHCP /DDNS / UPNP/ONVIF
- Providing Central Management Software to manage or monitor multi-cameras

1.2 Read Before Use

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

1.3 Packing Contents

• IPCAM×1	• CD×1
Wi-Fi Antenna×1	Quick Installation Guide ×1
DC Power Supply×1	Warranty Card×1
Mounting bracket×1	Network Cable×1

1.4 Physical Description

1.4.1 Front Panel





1 WIFI Antenna: Wireless Antenna

- 2 Infrared Lamp Array
- 3 LENS: CMOS sensor with fixed focus lens
- **4 Induction IC**

1.4.2 Interface



Figure 1.2

1 LAN

10/100M adaptive Ethernet interface. Through this interface, IPCAM can be connected with various network devices, such as hub, router, etc.

2 Reset button

Press and hold on the reset button for 5 seconds. Releasing the reset button, the password will back to the factory default administrator password. The default administrator user is admin with no password.

3 Power Interface

Connect the external power adapter, request for 12V/2A or 12V/1A power.

4 Audio output interface:

The jack is used to plug external output device such as loud speaker directly. Here microphone cannot directly insert to the interface, it must connect to adapter first.

5 Audio input interface:

The jack is used to plug external input device such as sound pick up device directly. Here microphone cannot directly insert to the interface, it must connect to adapter first.

1.4.3 Bottom View

There are up to two labels located at the bottom of the camera, this is an important feature of original Foscam cameras. If your camera does not have labels, it may be a clone. Cloned Foscam cameras can not use original firmware and are not eligible for warranty or technical services.

1.5 The different features between the models involved

		Differences			
Model	Wireless	PoE (Power over Ethernet)	Alarm in / out	RS 485	P2P
FI9803P V2	\checkmark	×	×	×	\checkmark

2 Accessing the Network Camera

This chapter explains how to access the network camera through web browsers and RTSP players.

2.1 Access the Camera in LAN

This camera support HTTP and HTTPS protocols, so here will allow you to use HTTP and HTTPS port No. (1) Http:// LAN IP + Http Port No.

Double click the IP Camera Tool icon and it should find the camera's IP address automatically after you plug in the network cable.

IP Camera To			
Camera name	IP Address	Device ID	Device type
nonynous	Http://192.168.1.110:88	00841F19804	I H

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: <u>https:// LAN IP + HTTPS port</u>. Go to **Settings - Network - Port** panel , you can see and change the https port no.

		Save Refresh
HTTP Port	88	
HTTPS Port	443	
ONVIF Port	65533	



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.



Figure 2.3

Access your IP Camera from the Internet

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

NOTE :

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) 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.

NOTE: 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.

Step 1: Enter the username and password of the Administrator , and click "OK" to apply changes.

Step 2: Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.8.102:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.8.102:2000. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!

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.?

1) 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 http://192.168.8.102:88, 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.

2) 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 as shown in Figure 2.4 and 2.5.

Camera name	IP Address	Device ID Device type
nonymous Htt	P Basic Properties Network Configuration	00841FI9804 ¥ Н
	Upgrade Firmware Refresh Camera List Flush Arp Buffer About IP Camera Tool	Select which camera
		you'd like to change the port for, and right click

Figure 2.4

🏧 IP Camera Tool	anonymous N	letwork 🔀			
Camera name	🖵 Obtain IP from	DHCP server	ice ID	Device type	
anonynous	IP Address Subnet Mask Gateway DNS Server	192.168.1 .110 255.255.255.0 .0 192.168.1 .1 192.168.1 .1 192.368.3 .1 192.368.3 .1	41F19804	dify the Http P	
	Http Port Vser Password OK Note: After changin	admin ***** Cancel	Ent	er the Usernai sword, click C	me and



Step 2: Modify the Http Port and enter the username and password of the Administrator , and click "OK" to apply changes.

Step 3: Wait around 10 seconds, you' II see that the camera' s LAN IP address has changed. Also, the LAN IP address is now fixed at a static IP address of http://192.168.1.110:88. 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 Tool				
Camera name	IP Address	Dewice ID	Device	type
anonynous	Http://192.168.1.110:88	00841FI9804¥	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 ?

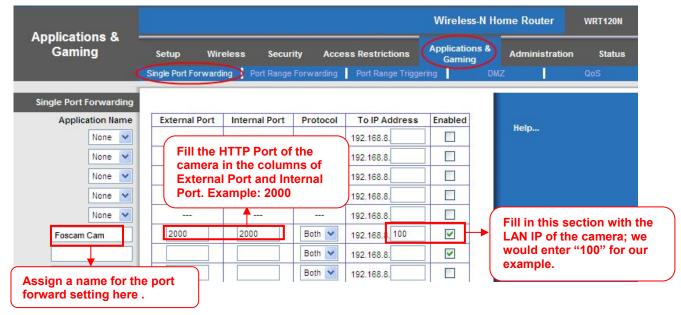
For this section, we will be using an example: Let's say the camera's LAN IP address is <u>http://192.168.8.100:2000</u>

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:





First method :

Use the embedded DDNS to access the camera via the Internet

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

For example, we can use **cp4911.myfoscam.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.

DDNS		
		Save Refresh
Enable DDNS 🔽		
Manufacturer's DDNS		
Manufacturer's DDNS	cp4911.myfoscam.org	Restore DDNS to factory
Third Party DDNS		
DDNS Server	None	✓
Domain		

Figure 2.8

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

Take hostname <u>cp4911.myfoscam.org</u> and HTTP Port of 2000 for example, the URL link to access the camera via the Internet would be <u>http:// test09.myfoscam.org:2000</u>.

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 www.no-ip.com) 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 **www.no-ip.com**

Take hostname ycxgwp.no-ip.info, user name foscam, password foscam2012 for example.

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

Secondly, select No-Ip as a server.

Thirdly, fill foscam as DDNS user, fill password **foscam2012** as DDNS password, fill ycxgwp.no-ip.info as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

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

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

NOTE :

If you have set Third Party DDNS successfully ,the Foscam Domain Name will be invalid. The Third Party DDNS and the Foscam 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 <u>rtsp:// [user name][:password]@IP:HTTP port number/videosream</u>

The part in the square brackets may be omitted.

user name & password:

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

IP: WAN or LAN IP address.

Videostream: Here support three modes: 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.

Oper Adva Oper Oper Oper Oper Rece	Playback n File n Eolder n Disc n Network S n Captolise D n Location f ent Media	Stream Device		Tools Ctrl+O Ctrl+Sh Ctrl+F Ctrl+P Ctrl+N Ctrl+N	View ift+0	<u>H</u> elp		
Adva Oper Oper Oper Oper Rece	anced Open n <u>F</u> older n <u>D</u> isc n <u>N</u> etwork S n <u>C</u> aptolise D	Stream Device		Ctrl+Sh Ctrl+F Ctrl+D Ctrl+N	ift+0			
Oper Oper Oper Oper Rece	n Eolder n <u>D</u> isc n <u>N</u> etwork S n <u>C</u> aptaixe D n <u>L</u> ocation f	Stream Device		Ctrl+F Ctrl+D Ctrl+N	ift+0			
Oper Oper Oper Oper <u>R</u> ece	n <u>D</u> isc n <u>N</u> etwork S n <u>C</u> aptolise D n <u>L</u> ocation f	evice		Ctrl+D Ctrl+N				
Oper Oper Oper <u>R</u> ece	n <u>N</u> etwork S n <u>C</u> aptrixe D n <u>L</u> ocation f	evice		Ctrl+N				
Dper Oper Rece	n <u>C</u> aptrixe D n <u>L</u> ocation f	evice						
Oper <u>R</u> ece	n <u>L</u> ocation f		8	Ctrl+C				
Rece		rom cliph		- and				
Caulo	a fell session fe	rom cipo	oard	Ctrl+V				
Save	Playlist to	<u>File</u>		Ctrl+Y				
Conv	/e <u>r</u> t / Save.			Ctrl+R				
•)) <u>S</u> trea	aming			Ctrl+S				
🔇 Quit				Ctrl+Q				
				111			()) 100%	_

Figure 2.9

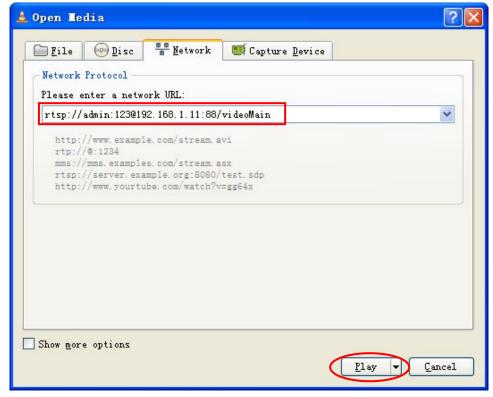


Figure 2.10

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



Figure 2.11

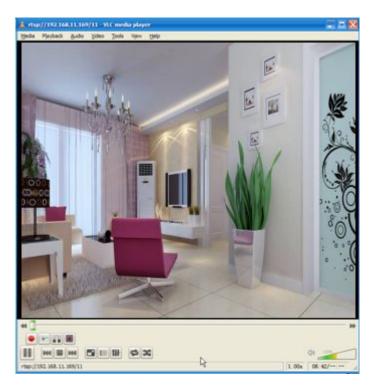


Figure 2.12

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

NOTE:

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

2.4 IP camera connection to the server

Device supports ONVIF 2.2.1 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	_
Password		
Stream	Main stream	2
Language	English	3

Figure 3.1

Section1 Enter the Username and password

The default administrator username is admin with no password, please change 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 bad you'd better select Sub Stream and the video will be more fluent.

Section3 Select the language

You can select the language you need by clicking on the language dropdown list.

Section4 login the camera

Click "Login" button.

NOTE:

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

modification. You will now use the new username	e and password to login the camera in the future.
---	---

Username	admin
New username	
New password	
Security Level	
Confirm the password	
	Modify

Figure 3.2

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

Setup Wizard	Setup Wizard
Status	Setup Wizard - Start
Basic Settings	
Network	Follow the guide to set your camera, click "Next" to start.
Video	Please click the menu on the left for more settings.
Alarm	Next

Figure 3.3

Device Name: You could give name for your camera.

	Setup Wizard
Step 1 of 4 - Camera I	Name
	anonymous
Camera Name	The maximum Device Name length is 20, support English, numbers, letters and symbols
	Previous Next



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

e Zone	(GMT) Greenwich mean time; London, Lisbon, 💌
with NTP server 🔽	
Server	time.nist.gov
	2014-1-1 12 - 17 - 29 - PW -
	Synt with PC
Format	YYYY-MM-DD
Format	12-hour
ST 🗖	

Figure 3.5

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

	5	Setup Wiz	ard		
Step 3 of 4 - Wireles	s Settings				
Wireless Network	List	1 Scan		SSID	FOSCAM-docdev
SSID(Network Name)	Encryption	Quality		Encryption	WPA/WPA2
Tenda_373678	WPA/WPA2	.eff.	3	Password	•••••
dlink-chenchen2.4G	WPA/WPA2	cill		The maximum pa	assword length is 63, including
TP_LINK_TEST	WPA2	cil		number	s, letters and symbols
FOSCAM-docdev	WPA/WPA2	ail	2		
		E: 2 /	C		



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

btain IP From DHCP 👿	

NOTE:

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

3.2 Surveillance Window





Section1 FOSCAM Logo/ LiveVideo / Settings buttons

FOSCAM : FOSCAM LOGO

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

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

do advanced settings.

LiveVideo

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-camera panel.

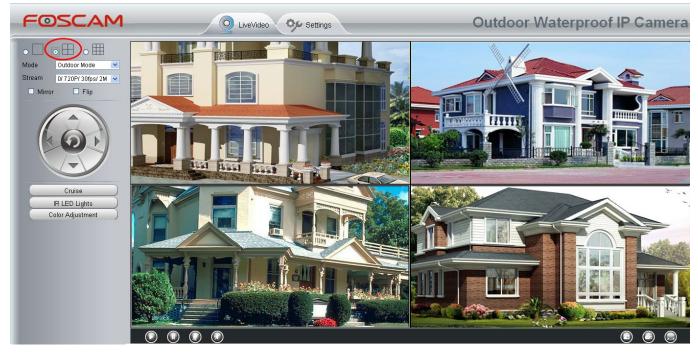


Figure 3.9

Section3 Mode/ Stream / Mirror/ Flip buttons

Mode

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

Stream

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

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

2) Resolution

The lowest resolution is QVGA. 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 cannot play well.

Status	/ideo Settings		
Basic Settings	nuco octings		
Network			Save Refresh
Video	Main stream video settings		
(_∨ideo Settings	Stream Type	0	¥
On Screen Display	Resolution	720P	~
Privacy Zone	Bit Rate	21	
Snapshot Settings		Zm	×
IR LED Schedule	Frame Rate	30	×
Alarm	Key Frame Interval	30	×
Record	Sub stream video settings		
PTZ			
Firewall	Stream Type	0	×
System	Resolution	VGA(640*480)	*
	Bit Rate	512K	*
	Frame Rate	15	*
	Key Frame Interval	45	~

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

Figure 3.10

Section4 Pan/Tilt Control(FI9803P V2 haven't this section)

When via RS485 interface to connect an external PTZ device, you can use this feature.



```
1-----Up control button,
```

2-----Down control button,



4-----Right control button,



Click this button and go to center

Section5 Cruise settings (FI9803P V2 haven't this section)

If via RS485 interface to connect an external PT device, you can use this feature.

-	Cruise
Track	Vertical 💌
_	Preset

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

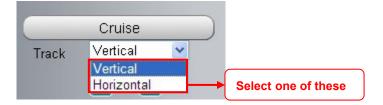
Vertical: The camera will rotate from up to down. Horizontal: The camera will rotate from left to right.

Le: Start cruise. Istop 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.

Section6 IR LED Lights



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

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

Schedule: Select it and the IR led light will be off at the schedule period. If you want to define or change the IR

led lights schedule time, please go to Settings→Video→IR LED Schedule page.

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.

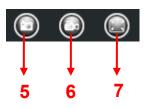
Go to **Settings ---Basic settings---Camera name** panel, and you can change another device name. The default device name is anonymous.

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





3----- Talk: Click the button and the icon will become to **(a)**, then talk to the microphone that connected with PC, people around the camera can hear your voice if the camera has connected with audio output device. Click the icon again and stop talking.

4----- Audio Click the button and the icon will become to (, you can hear the sound around the camera if the camera has connected with other audio input device through the Audio Input port of the camera, Click the icon again and stop audio.

5----- Snap: 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 3.11

Keep ration: Select it and the camera will adjust the size of live window based on the computer monitor automatically.

Sometimes there is a black border around the video, please select Keep ration to get a better visual quality.



Figure 3.12

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

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



NOTES:



- 1 This camera don't support Pan/Tilt function, so here cann't allow to use Screen PTZ.
- 2 For Mac OS, the plugin cannot support Onscreen Mouse function, so you cannot allow to use it.

4 Advanced Camera Settings

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

4.1 Setup Wizard

The way to set it, you could refer to section 3.1.

Setup Wizard Setup Wizard		Setup Wizard
Status		Setup Wizard - Start
Basic Settings		
Network	$\overline{}$	Follow the guide to set your camera, click "Next" to start.
Video		Please click the menu on the left for more settings.
Alarm		Next
		F 41



4.2 Device Status

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

4.2.1 Device Information

Device Information		
	Refresh	
Camera Model	FI9803P V2	
Camera Name	anonymous	
Camera ID	00000000AA	
Camera Time	2014/08/08 15:04:50	
System Firmware Version	1.4.1.10	
Application Firmware Version	2.14.1.116	
Plug-In Version	3.1.0.5	

Figure 4.2

Camera Model: The model of the device.

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 Device Name panel where you can change your camera name. The default device name is anonymous.

Camera ID: Display the MAC address of your camera. For example Device ID is 008414350787, 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

4.2.2 Device Status

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

	Refresh
Alarm Status	Disabled
NTP Status	Disable
DDNS Status	Disable
UPnP Status	Success
WiFi Status	Not connected
IR LED Status	Off

Figure 4.3

4.2.3 Session status

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

		Refresh
		Kerresi
User name	IP address	
admin	192.168.1.102	
admin	218.17.160.187	

Figure 4.4

4.2.4 Log

Status Log Device Information Refresh Device Status Session Status Pages:50 <<<mark>1</mark> 2 3>> Go Time User IP Log NO. **Basic Settings** 2014-01-09 14:12:35 root 127.0.0.1 1 Detected motion alarm Network ed motion alarm Click the page number and go to the Video ed motion alarm Alarm corresponding page to see more logs . Record off line /014-01-09-14-11 PTZ 5 2014-01-09 14:11:1 Fill in one page number, click Go button Firewall 6 2014-01-09 14:11:1 and go to the corresponding page. System 7 2014-01-09 14:10:49 8 2014-01-09 14:10:28 127.0.0.1 Detected motion alarm root 9 2014-01-09 14:09:41 127.0.0.1 Detected motion alarm root 10 2014-01-09 14:08:31 root 127.0.0.1 Detected motion alarm

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



Reboot the camera and clear the log records.

4.3 Basic Settings

This section allows you to configure your Camera Name, Camera Time, Mail, User Accounts and Multi-Device.

4.3.1 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.

		Save	Refresh
Camera Name	anonymous		



4.3.2 Camera Time

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

Status	-Camera Time-	
Basic Settings	Califera Tille	
Camera Name		Save Save Refresh
Camera Time	, Time Zone	(GMT +08:00) Beijing, Singapore, Taipei 🗸
User Accounts		
Multi-Camera	Sync with NTP server 🗖	
Network		
Video	NTP Server	
Alarm		
Record	PC Time	2014-1-15 11 ♥ : 28 ♥ : 13 ♥ AK ♥
PTZ		Sync with PC
Firewall	Date Format	YYYY-MM-DD
System	Time Format	12-hour
	use DST 🗹	
	Ahead Of Time	0 V Minute
	T	Viewe 4.7



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. Please 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 to submit your settings.

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

4.3.3 User Accounts

Here you can create users and set privilege, **visitor**, **operator or administrator**. The default administrator user accounts are admin with a blank password.

Status Status			Use	r Accounts
Camera Name	-			(Chican)
Camera Time	NO.	Username	Privilege	Username
User Accounts	1	foscam	Administrator	Privilege Visitor
Multi-Camera	2			Change username
Network	3			Change password
Video	3			
Alarm	4			
Record	5			
Firewall	6			
System	7			
	8			



How to change the password?

Firstly, select the account which you want to change the password, then select "Change password", enter the

old password and the new password, lastly click modify to take effect.

NO.	Username	Privilege	Username	foscam
1	foscam	Administrator	Password	
2			New password	
3			Security Level	
4			Confirm the password	
5			Privilege	Administrator
6			E	Change username
7			-	Change password
8				Modify

Figure 4.9

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.

IO.	Username	Privilege	Username	test
1	foscam	Administrator	Password	•••••
2			Security Level	
3			Confirm the password	•••••
4			Privilege	Visitor
5				Change username
6				Change password
7			-	Add
8			-	Add

Figure 4.10

NO.	Username	Privilege	Username test	
1	foscam	Administrator	Privilege Visitor	
2	test	Visitor	🖾 Change username	
3			Change password	
4			Delete	
5			Delete	
6				
7				
8				

Figure 4.11

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

NOTE:

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

4.3.4 Multi-Camera

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

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

Add cameras in LAN

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

Status			Multi-C	amera	
Basic Settings Camera Name Camera Time	Cameras On LAN	FI9821P(172.1 1111(172.16.1 EOSCAM(172 anonymous(1	1.71) 16.0.27) 72.16.0.179)	E Re	efresh
User Accounts	The 1st Camera	This Camera			
Multi-Camera	The 2nd Camera	None	1 Click	it, camera model, alias,	
Network	Camera Model	H264		d HTTP Port will be	
Video	Camera Name	anonymous		the following boxes	
Record	Host	172.16.0.179	automa	tically .	
PTZ	HTTP Port	80			
Firewall	Media Port	80			
System	Username	admin			
	Password				
3 Click A	dd to take effect .	Add	Delete		. 1
	The 3rd Camera	None		2 Enter the User name an	
	The 4th Camera	None		password of the 2nd came	era .

Figure 4.12

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

Cameras On LAN	anonymous(192.168.11.193) FI9821W for ebuyer (192.168.11.241) anonymous(192.168.11.203) anonymous(192.168.11.243)	Refresh			
The 1st Camera	This Camera				
The 2nd Camera	anonymous(192.168.11.203)				
The 3rd Camera	FI9821W for ebuyer (192.168.11.241)				
The 4th Camera	anonymous(192.168.11.203)				
<u>The 5th Camera</u>	None				
<u>The 6th Camera</u>	None				
The 7th Camera	None				
The 8th Camera	None				
The 9th Camera	None				



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



Figure 4.14



Add cameras in WAN

Figure 4.15

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 4.4.4)

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

: Yier Pyrerites In: es 🌼 🖉 Suggested Sit		a - 1213月 5月11日 -		D.0	🖸 🖶 • Dage • Safety •
DSCAN		main name ai	nd port to login .	Outdoor Water	
Device status Device Info	Device status			Refresh	
Session status		Alarm status	No alarm		
Log Basic Setting					
Network	5	Record status	Nat in recording		
Video	5	NTP status	Disable		
Alarm	5	DDNS status	Success http://test09.my/oscam.org/800	9	
Record	5	UPnP status	Fail		
PTZ	5	wifi status			
Path setting	5	Infra led status	Make sure eac	ch camera you ne	ed add
Firewall	5			-	
	3		could login with	DDNS name and p	ort.

Figure 4.16

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.

		Refresh
Cameras On LAN	FI9821W for ebuyer (192.168.11.241) anonymous(192.168.11.243) anonymous(192.168.11.203)	Refresh
The 1st Camera	This Camera	
The 2nd Camera	anonymous(192.168.11.203)	
Camera Model	MJ	→ 1
Camera Name	apple	→ 2
Host	camera.no-ip.info	
HTTP Port	801	→ 3
Media Port	801	
Usemame	admin	
Password		→ 4
	Add Delete	
The 3rd Camera	None 5	
The 4th Camera	None	

Figure 4.17

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

- 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) FI9821W-01(192.168.13.106)		
The 1st Device	This Device		
The 2nd Device	apple(camera.no-ip.info)		
The 3rd Device	ipcam(test01.foscam.org)		
The 4th Device	mycamera(owlejww.no-ip.info)		
The 5th Device	None		
<u>The 6th Device</u>	None		
The 7th Device	None		
The 8th Device	None		
The 9th Device	None		

Figure 4.18

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.

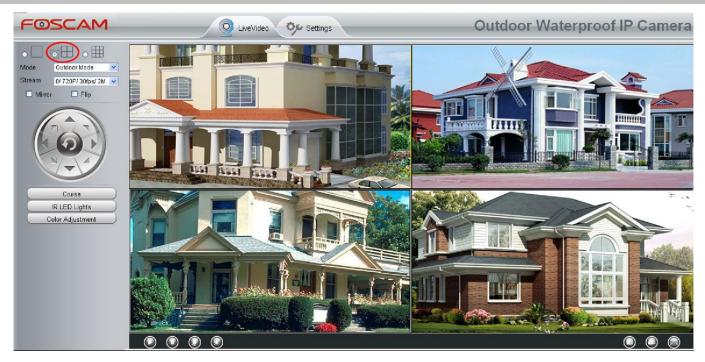


Figure 4.19

4.4 Network

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

4.4.1 IP Configuration

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

Basic Settings	IP Configuration		
Network			C Save Save Refres
IP Configuration	Obtain IP From DHCP		
PPPoE	IP Address	172.16.0.249	
DDNS UPnP	Subnet Mask	255.255.0.0	
Port	Gateway	0. 0. 0. 0	
Mail Settings	Primary DNS Server	0.0.0	
FTP Settings	Secondary DNS Server	0.0.0	



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:

Cantural	Damal	Maturaula	Commontions.		Connections	Chasse	C	Datalla
C.Ontrol	Panel-	-Network	Connections.	-l ocal Area	I CONNECTIONS		Support-	-Derails
001101	i anoi		0011100010110			0110000	oupport	Dotano.

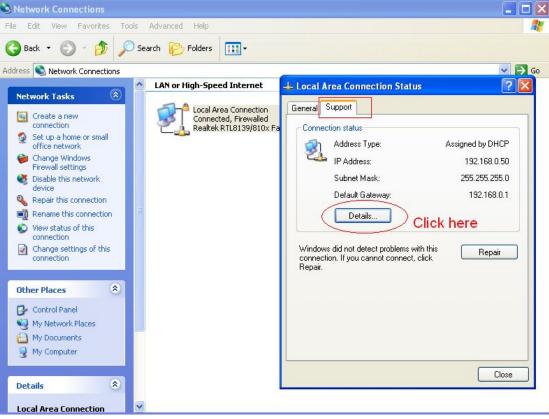


Figure 4.21

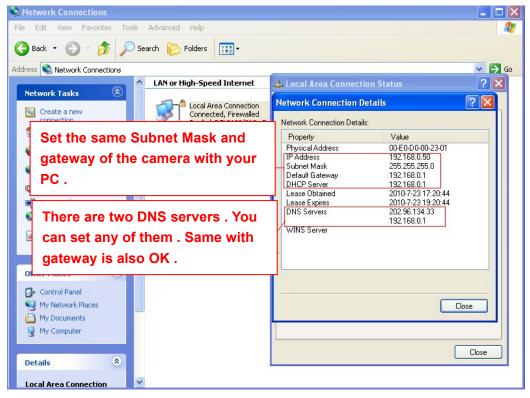


Figure 4.22

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

4.4.2 Wireless Settings

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

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

Wireless Network	List	S	can SSID Encryption None V
SSID(Network Name)	Encryption	Quality	Encryption None
Net-HkWc	WPA	ail	Click the Scan button
airNET-free	Unencrypt	.aff	to search for wireless networks.
wingate	WPA2	.atl	
V_CPA1	WPA	att	
MERCURY_MW150R	WPA2	all	
V_CPA2	WPA	aff	
foscam	WEP	all	
uniQtab	WPA2	at l	
foscam-wifi	WPA2	ail	
cisco	WPA2	all	

Figure 4.23

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

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



Figure 4.24

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

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

NOTE :

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

4.4.3 DDNS

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

FOSCAM domain name

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

Status	DDNC		
Basic Settings	DDNS		
Network			Save Save Refresh
IP Configuration	Enable DDNS 🗹		
PPPoE	Manufacturer's DDNS		
	Manufacturer's DDNS		Restore DDNS to factory
UPnP			
Port	71.10.0000		
Mail Settings	Third Party DDNS		
FTP Settings	DDNS Server	None	
Video	Domain		
Alarm			



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

Take hostname **cp4911.myfoscam.org** and HTTP Port no. 8000 for example, the accessing link of the camera via internet would be **http://cp4911.myfoscam.org:8000**

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

Third Party Domain Name Settings

User can also use third part DDNS, such as www.no-ip.com. ,www. 3322.com $% \left({{\mathcal{T}}_{{\mathcal{T}}}} \right) = {\mathcal{T}}_{{\mathcal{T}}} \left({{\mathcal{T}}_{{\mathcal{T}}}} \right) = {\mathcal{T}}_{{\mathcal{$

Here take www.no-ip.com 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

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.

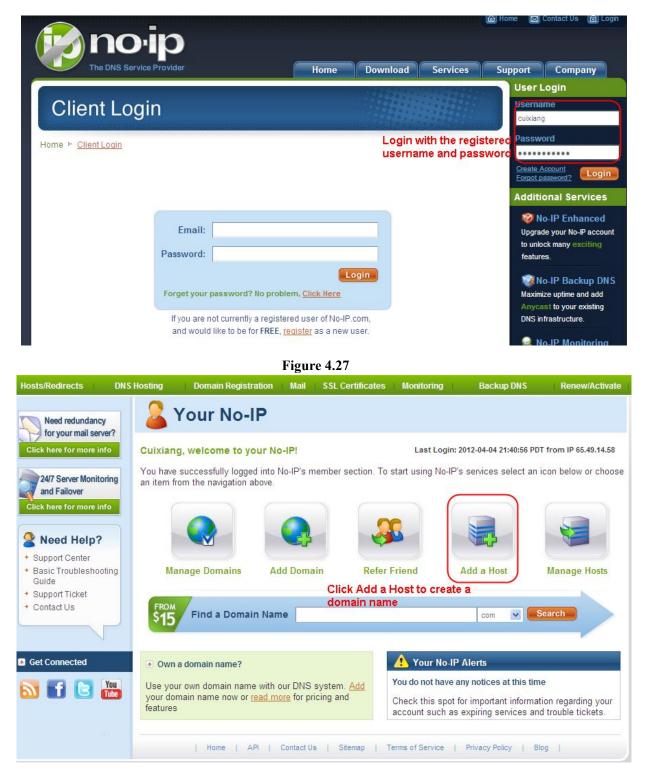


Figure 4.28

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

Step 2 DO DDNS Service Settings within the Camera

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

Take hostname ycxgwp.no-ip.info, user name **foscam**, password **foscam2012** for example.

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

Secondly, select No-lp as a server.

Thirdly, fill foscam as DDNS user, fill password foscam2012 as DDNS password, fill ycxgwp.no-ip.info as DDNS domain and server URL, Then click save to make effect. The camera will restart and to take the DDNS settings effective.

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

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

NOTE :

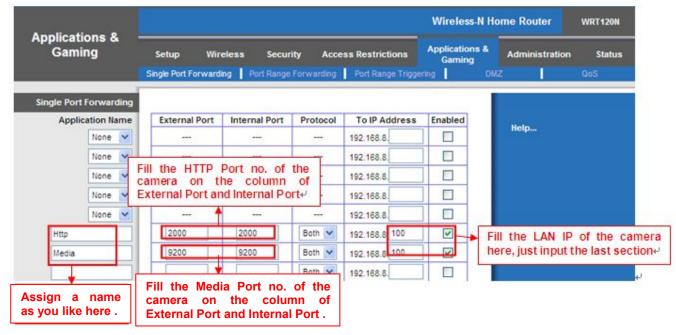
If you have set Third Party DDNS successfully ,the Foscam Domain Name will be invalid. The Third Party DDNS and the Foscam Domain Name cannot work at the same time, the last time you configured will take effect.

② Do port forwarding within the router

Example: The camera's LAN IP address is http://192.168.8.100:2000

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

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





③ Use domain name to access the camera via internet

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

4.4.4 UPnP

Status	-UPnP			
Basic Settings	UPIIP			
Network			Save	Refresh
IP Configuration	Enable UPnP	Yes	~	
PPPoE				
DDNS				
(UPnP)	<			



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

	Refresh
Alarm Status	Disabled
NTP Status	Disable
DDNS Status	Success http://aa2022.myfoscam.org/8000
UPnP Status	Success
IR LED Status	Off



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

4.4.5 Port

This camera supports HTTP Port / HTTPS Port/ ONVIF Port. HTTP Port is used to access the camera remotely.

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

Status	Port-		
Basic Settings	Pon		
Network)		Save Refresh
IP Configuration	HTTP Port	88	
PPPoE	HTTPS Port	443	
DDNS UPnP	ONVIF Port	888	
(Port Mail Settings	<		



Another way to change the HTTP port no.

Step 1: Open the IP Camera Tool, select the camera you would like to change the port of, right click on the IP address, and click on "Network Configuration", this brings up the network configuration box as shown in Figure 4.34 and 4.35.

🛛 IP Camera Too	1	
Camera name	IP Address	Device ID Device type
anonynous	Http Basic Properties <u>Network Configuration</u> Upgrade Firmware Refresh Camera List Flush Arp Buffer About IP Camera Tool	00841F19804V H Select which camera you'd like to change the port for, and right click .
	Figure 4.33	
🕨 IP Camera To	ol anonymous Network	🔀 💶 🗆
Camera name anonymous	Dotain IP from DHCP serve	ar ice ID Device type 41FI9804▼ H

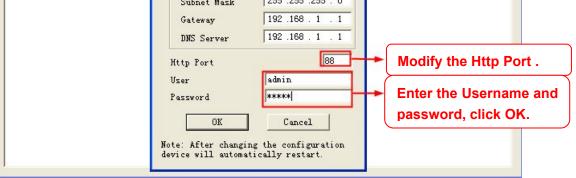


Figure 4.34

Step 2: Enter the username and password of the Administrator (default username is admin with a blank

password), and click "OK" to apply changes.

Step 3: Wait around 10 seconds, you'll see that the camera's LAN IP address has changed. In our example it was changed to 2000, so we see http://192.168.8.102:2000 in IP Camera Tool. Also, the LAN IP address is now fixed at a static IP address of http://192.168.8.102:2000. This IP address will not change even if the camera is powered off and back on, the camera will remain on this LAN IP address. This is very important that a static LAN IP address is set, or you may have problems later with remote access and seeing the camera remotely if the camera loses power and reconnects on a different LAN IP address. Make sure you set a static LAN IP address!

Camera name	IP Address	Device ID	Device	type
nonvnous	Http://192.168.1.110:88	00841FT9804	H	

Figure 4.35

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

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

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.

4.4.6 Mail Settings

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

		Save Refresh
Enable 🔽		5
SMTP Server	smtp.gmail.com	
SMTP Port	25	→ 1
Transport Layer Security	STARTTLS	at Port 587 or 25.
Need Authentication	Yes	
SMTP Username	cuiyao93@gmail.com	<u>→ 2</u>
SMTP Password	••••••	Test 6
Sender E-mail	cuiyao93@gmail.com	→ 3
First Receiver	yaoyao@163.com	
Second Receiver		<u>→ 4</u>
Third Receiver		
Fourth Receiver		

Figure 4.36

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

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

- 3----- Sender E-mail Mailbox for sender must support SMTP
- 4----- Receiver Mailbox for receiver need not support SMTP, you can set 4 receivers
- 5----- Save Click Save to take effect
- 6----- Test Click Test to see if Mail has been successfully configured.

Click Test to see if Mail has been successfully configured.

	Save Refresh
Enable 💌	
SMTP Server	smtp.gmail.com
SMTP Port	25
Transport Layer Security	STARTTLS G-Mail only supports TLS at Port 465 and STARTTLS at Port 587 or 25.
Need Authentication	No
SMTP Username	yaoyao@gmail.com
SMTP Password	Test result .
Sender E-mail	yaoyao@gmail.com
First Receiver	yaoyao@163.com
Second Receiver	
Third Receiver	
Fourth Receiver	

Figure 4.37

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

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

- 1) Cannot connect to the server
- 2) Network Error. Please try later
- 3) Server Error
- 4) Incorrect user or password

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

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

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

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

4.4.7 FTP Settings

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

	Save Sefresh
FTP Server	ftp://192.168.8.150 Example:ftp://192.168.1.103/dir The maximum length of the address is 127, does not support the character & =
Port	21
FTP Mode	PORT
Username	yaocuixiang The maximum length of the user name is 63, support numbers, letters and symbols _ @ \$ * - , . #!
Password	The maximum password length is 63, does not support the character & =
Test	Success

Figure 4.38

	💾 Save 🔵 Refresh
FTP Server	ftp://ftp.mgenseal.com Example:ftp://192.168.1.103/dir The maximum length of the address is 127, does not support the character & =
Port	21
FTP Mode	PORT
Username	deotestge The maximum length of the user name is 63, support numbers, letters and symbols _ @ \$ * - , . #!
Password	The maximum password length is 63, does not support the character & =
Test	Success

Figure 4.39

FTP server: If your FTP server is located on the LAN, you can set as Figure 4.40.

If you have an FTP server which you can access on the internet, you can set as Figure 4.41.

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

FTP Mode: Here supports two modes: PORT and PASV. **Username/password:** The FTP account and password. Click Save to take effect.

Click Test to see if FTP has been successfully configured.

4.4.8 P2P

Access the camera by smart phone (Android or iOS operating system)

First of all, you need to open the P2P function of the camera at "Settings-->Network-->P2P."

Status Status	P2P			
Network				Cave Refresh
IP Configuration		UID	FLGTBW7YGBUV9NPMUR41	
Wireless Settings		Enable P2P 🗹		
PPPoE		P2P Port	29164	
DDNS		FZF FUIL	20104	
UPnP				
Port				
Mail Settings				
FTP Settings				
P2P	1			

Figure 4.40

Search and install **Foscam Viewer** on Google Play and App Store for for Android and 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*.

4.5 Video

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

4.5.1 Video Settings

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

Setup Wizard	Video Cottingo		
Status	Video Settings		
Basic Settings			C Save Refresh
Network	Main stream video settings		
Video	Stream Type	0	•
Video Settings	Resolution	720P	•
On Screen Display Privacy Zone	Bit Rate	2M	•
Snapshot Settings	Frame Rate	30	▼.
IR LED Schedule	Key Frame Interval	30	•
Lens Distortion Correction	Variable bitrate	Yes	
Alarm	Sub stream video settings		
Record	Stream Type	0	
Firewall System	Resolution	VGA(640*480)	•
- Cystem	Bit Rate	512K	*
	Frame Rate	15	v
	Key Frame Interval	45	*

Figure 4.41

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

Resolution: The camera supports multiple types, For example: 960P, 720P, VGA. The higher the resolution is, the clearer video will become. But the code flux will become larger too, and it will take up more bandwidth. (Different models support different specific types.)

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.

Variable bitrate: Select the Bit rate type to constant or variable.

4.5.2 On Screen Display

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

Status	OSD		
Basic Settings			
Network			🔲 Save 🔵 Refresh
Video	Display Timestamp	Yes	~
Video Settings On Screen Display	Display Camera Name	Yes	~
Privacy Zone			
Snapshot Settings			
IR LED Schedule			

Figure 4.42

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

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

4.5.3 Snapshot Settings

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

Status	Snap	het	ot	C	ott	in	-96																		
Basic Settings	Shap	551		0	en		12													_					
Network																	C	-	Sav		(5	Refr	esh)
Video	Manua	il sna	ap Qi	uality	t		Med	lium									~								
Video Settings	Alarm Pictures Save To						FTP																		
On Screen Display		Enable timing to capture																							
Privacy Zone	Enable ti	ming	to ca	ibrare	: 💌																				
Snapshot Settings	Capture interval 2 (1-65535s)																								
IR LED Schedule		() Schedule																							
Alarm	All	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Record	MON																								
PTZ	TUE																								
Firewall	WED																								
System	THU																								
	FRI																								
	SAT																								
	SUN																								

Figure 4.43

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

Alarm Pictures Save Path: FTP. If you have done FTP and Alarm settings, when alarming, the camera will snap pictures to the FTP automatically.

Enable timing to capture

To enable capture interval, follow the steps below:

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

3 Select the capture time

• Capture anytime

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

- Specify an capture schedule Click the week day words, the corresponding column will be selected. For example, click TUE, the all column of TUE turns to red, that means during Tuesday whole day, the camera will capture.
- Press the left mouse and drag it on the time boxes, you can select the serial area,

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

4.5.4 IR LED Schedule

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

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

Figure 4.44

4.5.5 Lens Distortion Correction

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

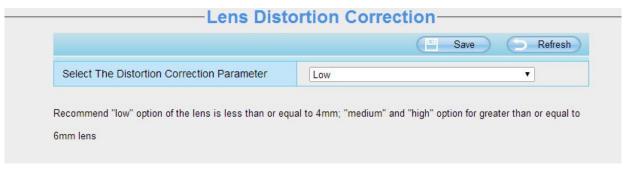


Figure 4.45

If you replace the lens, the image has found distortion, uneven and so on, you can modify the **Select The Distortion Correction Parameter** to calibration images.