

NETWORK/IP CAMERA

User Manual



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1 WELCOME

IPCAM is an integrated wireless IP Camera solution. It combines a high quality digital video Camera with network connectivity and a powerful web server to bring clear to your desktop from anywhere on your local network or over the Internet.

The basic function of IPCAM is transmitting remote video on the IP network. The high quality video image can be transmitted with 30fps speed on the LAN/WAN by using MJPEG hardware compression technology.

The IPCAM 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 become more simply by using network to achieve the remote configuration, start-up and upgrade firmware.

You can use this IPCAM to monitor some special places such as your home and your office. Also controlling the IPCAM and managing image are simple by clicking the website through the network.

NOTE: You can use the IP Camera Step by Step (details: [3.1](#)).

1.1 Features

- Powerful high-speed video protocol processor
- High-sensitivity 1/4" CMOS sensor
- 300K Pixels
- IR night vision (Range: 5~8m)
- Optimized MJPEG video compression for transmission
- Multi-level users management and passwords definition
- Embedded Web Server for users to visit by IE
- Support wireless network (Wi-Fi/802.11/b/g/n)mobile
- Supporting Dynamic IP (DDNS) and UPnP LAN and Internet (ADSL, Cable Modem)
- Giving alarm in cause of motion detection
- Supporting image snapshot
- Support multiple network protocols: HTTP/TCP/IP/UDP/STMP/DDNS/SNTP/DHCP/FTP
- Support remote system update

Advanced Features

Multi-Protocol support and Transportation

IPCAM supports Multi-Protocol such as TCP/IP, SMTP and HTTP. Sending the image to your mailbox automatically when the IPCAM is triggered.

Motion Detection

Your may use the internal Motion Detection function or external sensor to trigger images recording and transportation.

DDNS support

Using the IPCAM in the condition which including ADSL and IP change often is more convenient, because IPCAM provides dynamic DNS function.

Advanced User Management

Only allowing authorized users access to real-time images of the IP Camera.

1.2 Packing List

Untie the pack and check the items contained against the following list:

- IP Camera×1
- DC Power Supply×1
- CD×1 (Include Wireless IP Camera CMS、IP camera tool、 User Manual)
- Mounting bracket×1(option)

NOTE: Contact us immediately in the case of any damaged or short of contents.

1.3 Product views

1.3.1 Front View



Figure 1.1

- 1 **Sensitive Hole** Base on outdoor light degree to decide whether to open infrared LED.
- 2 **Infrared LED**
- 3 **Network Indicator LED**

Network indicator LED has three statuses:

- 1) Slowly blinking (about every once per second), IP CAM is finding the network.
- 2) Blinking (about one to two times per second), IP CAM use wire network.
- 3) Quickly blinking (about three to four times per second), IP CAM use wireless network.

- 4 **LENS** CMOS sensor. You can turn around the lens manually to adjust the focus range.
- 5 **Built-in Mic**

1.3.2 Interface

LAN : RJ-45/10-100 Base T

DC5V: 5V/2A Power supply

RESET BUTTON: Press and hold down the RESET BUTTON for 5 seconds. Release the power button and IP camera will be reset back to the factory default parameter.

1.4 PC System Requirements

System configuration requirements:

CPU: 2.06GHZ or above Memory: 256M or above

Network Card: 10M or above Display Card: 64M or above memory

Recommendable Operating System: Windows2000 or Windows XP

1.5 Hardware Instruction

Follow the steps below to set up your camera hardware. Make sure to follow each step carefully to ensure that the camera operates properly.

- 1) Plug the network cable into the camera and then into your Cable/DSL router.
- 2) Plug the power adapter into the camera.

CAUTION: Make sure to only use the power adapter supplied with IPCAM. Using a non-approved power adapter may damage the camera.

- 3) The camera takes approximately 30 seconds to start up before it displays an IP address on the **IP Camera Tool** (details: [2.1](#)).

1.6 Software installation

Software installation is the key to the successful use of this product.

- 1 Open the CD, find the software as instruction;
- 2 Double click **IPCamSetup.exe** and install the software as instruction.

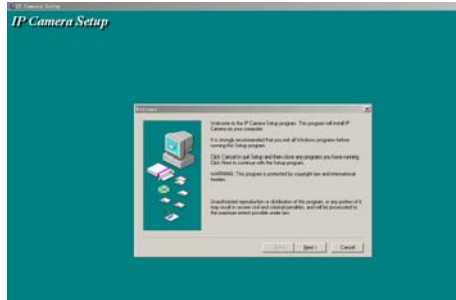


Figure 1.2

- 3 Only click **Next**, you will complete the software installation.

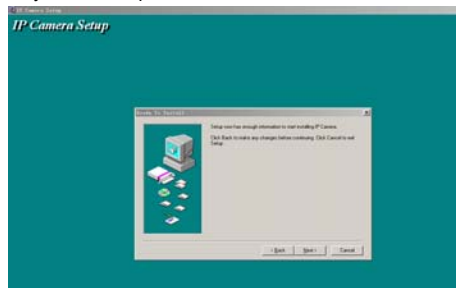


Figure 1.3

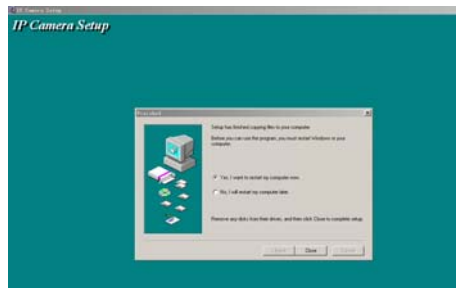


Figure 1.4



The computer restarts upon installation completion and an icon **IP Camera Tool** appears on the desktop automatically.

NOTE: Before installing and using the product, please read the following precautions carefully and make sure they are fully understood.


Use only the power adapter attached with the product. Use of unauthorized power adapter may cause damage to your IP Camera.

IP Camera terminal shall be installed in an indoor environment.

2 SOFTWARE OPERATION

2.1 IP Camera Tool

When the Device has been mounted properly, you can double click the icon “IP Camera

Tool”  and a dialog box as Figure 2.1 will pop up.

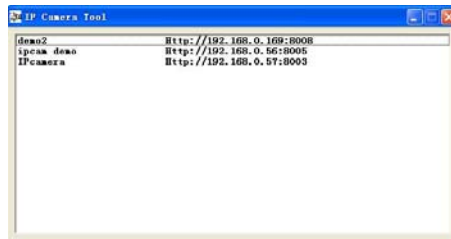


Figure 2.1

Note: The software searches IP Servers automatically over LAN.

There are 3 cases:

- 1 No IP Camera found within LAN. After about 1 minute search, the Result Field will show “not found IP Server” and the program shut automatically;
- 2 IP Cameras having been installed within LAN. All the IP Cameras will be listed and the total number is displayed in the result field as shown in Figure 2.1.
- 3 The IP Cameras installed within LAN do not share the same subnet with the monitoring PC. A prompt as shown in result field (prompt: Subnet doesn't match, double click to change!). Click the left mouse button to choose the prompt and click the right mouse, choose **Network Configuration** to set the IP address of the Camera to the same subnet as LAN.

Five Options

Choose the IP Camera list and Click right mouse button, there are five options, Basic Properties, Network Configuration, Upgrade Firmware, Refresh Camera List, Flush ARP Buffer as shown 2.2.



Figure 2.2

- **Basic Properties**

There are some device information in the Basic Properties, such as **Device ID**, **System Firmware Version**, **Web UI Version**.



Figure 2.3

- **Network Configuration**

In this page, you can configure the Network parameter.



Figure 2.4

IP address: Fill in the IP address assigned and make sure it is in the same subnet as the gateway.

Mask: The default subnet mask of the equipment is: 255.255.255.0

Gateway: Make sure it is in the same subnet with PC IP address.

DNS: IP address of DNS service provider.

Port: LAN port assigned for the equipment, usually 80

User & Password: Default administrator username/password: admin, No password

DHCP check box: To use dynamic configuration agreement, the device will obtain IP from DHCP server (usually through the Router or modem), or user should set IP address manually.

NOTE: when the net doesn't match, double click to set the IP Camera IP address once again.

- **Upgrade Firmware**

Enter the correct User and Password to upgrade system Firmware and Web UI.

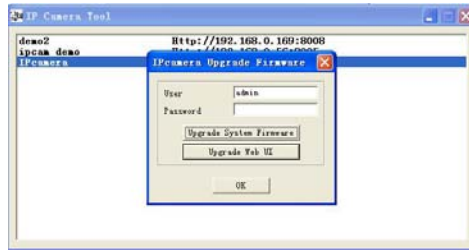


Figure 2.5

- **Refresh Camera List**

Refresh camera list manually.

- **Flush ARP Buffer**

When wire network and wireless network of the device both are fixed IP address. There is a problem you may encounter is can search the camera IP but can't open the camera web page, you may try to use flush ARP buffer.

2.2 Camera Login

You can access the camera through **IP Camera Tool** or **IE** directly.

1) Double click the IP address of the IP Camera listed (Figure 2.1).IE will be opened automatically and display the camera login page.

2) Access the camera by IE browser directly, type in the camera's IP address. For example:



3) The Camera Login page pop-up.




Figure 2.6

enter your account and password on the login page as shown in Figure 2.6. By default, administrator's username is **admin** and no password.. Click "**Sign in**" to enter the monitoring page (Figure 2.7).You can set the username and password as Administrator, Operator or Visitor.

2.3 For Visitor





Figure 2.7

For example: if  is bright, the first route is on Detection (Motion Detection).

If you want to detect 4 views, need to click this icon .

OSD: Display date and time on the video. You can disable the OSD function or choose other OSD color.

Snapshot: click this icon  to snap the picture.

REC: Click  icon into REC mode, icon changed to be , click again is stop.

Note:

the record file name is: **device Alias_ Current time.Avi**

For example: *IPCAM_20110311134442.Avi*

It means the IPCAM device record's end time is: At 13:44:42 on March 11, 2011

2.4 For operator

When login as operator or administrator, you can enter the **For Operator**.



Figure 2.8

Direction control: click the different arrow will get different direction view.



Vertical patrol



Horizontal patrol



Stop patrol

Flip: To see the flip image.

Mirror: To see the mirror image.

Resolution: VGA (640 X 480) / QVGA(320 X 240)

Work mode: 50Hz/60Hz/Outdoor

2.5 For Administrator

When you login as administrator, "**For Administrator**" is enabled.

Device Info: You can find the information about Device ID, Firmware Version and Embedded Web UI Version.

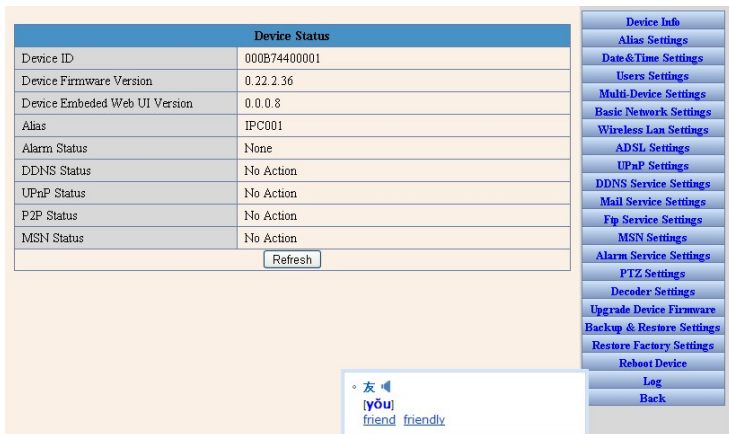


Figure 2.9

Alias Settings: You can Input the new name as you like.

Data & Time Settings: Data & Time Settings page.

Users Settings: Eight accounts are acceptable for this system. Here the eight users can configure their user names and password as Administrator, Operator or Visitor.

- **Visitor:** In this mode, you can only view.
- **Operator:** You can control the direction of IP Camera and set some parameter.
- **Administrator:** You can setup the advanced configurations of the IP Camera.

UPnP Settings: If you access IP Camera, to be make sure **UPnP Status** is Succeed.

Upgrade Device Firmware: Upgrade Device Firmware and device embedded firmware.

Restore Factory Settings: Restore factory settings of the device when unrecoverable error occurred.

Reboot Device: Reboot the device.

Back: Back to Monitoring Mode.

2.5.1 Multi-Device Settings

- Add cameras in LAN

In the Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is this device default. You can add more cameras list in LAN for monitoring. This Web software supports up to 4 IP Cameras online simultaneously. Click "**The 2ND Device**" and Double click the item in the "**Device List in Lan**", Alias、Host and Http Port will fill in automatically. Enter the correct username and password then click "**add**". Add more cameras in the same way.

Multi-Device Settings	
Device List in Lan	anonymous(192.168.0.96) anonymous(192.168.0.113) anonymous(192.168.0.87) anonymous(192.168.0.116) <input type="button" value="Refresh"/>
The 1st Device	This Device
The 2nd Device	IPC001(jesmaysz.3322.org)
Alias	IPC001
Host	jesmaysz.3322.org
Http Port	83
User	admin
Password	<input type="password"/>
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
The 3rd Device	佚名(jesmaysz.3322.org)
The 4th Device	佚名(jesmaysz.3322.org)
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.10

- Add cameras in the Internet

Firstly, make sure the camera added can access in the Internet with the IP address or DDNS domain. Like this: <http://202.96.133.134:9008> or <http://IPCAM.dyndns.org:9008>
 You can enter the **Host**: 202.96.133.134 **port**: 9008 or **Host**: IPCAM.dyndns.org **Http port**:9008. Enter the correct username and password then click "add". Add more cameras in the same way as shown in Figure 2.11.

Multi-Device Settings	
Device List in Lan	IPC002(192.168.0.113) IPC001(192.168.1.116) <input type="button" value="Refresh"/>
The 1st Device	This Device
The 2nd Device	None
Alias	IPC002
Host	192.168.0.113
Http Port	80
User	admin
Password	<input type="password"/>
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
The 3rd Device	None
The 4th Device	None
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.11

2.5.2 Network Settings

- Basic Network Settings

If the router that the IP camera connect has DHCP function, you can choose “Obtain IP from DHCP Server” else fill in the network parameters manually.

Http Port: In most cases, you can leave this value as 80, however, if your Internet Service Provider blocks this port, you may switch to another port number (from 0 to 65535, don't set as same as the gateway), such as 8080, 85, 8888 etc.

Basic Network Settings	
Obtain IP from DHCP Server	<input type="checkbox"/>
IP Addr	192.168.1.116
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Server	202.96.134.133
Http Port	80
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.13

- Wireless Lan Settings

Please enter the wireless net setting page of the wireless Router to find out SSID, Channel, Encryption, Authentication, then login in to set as a administrator, open the **Wireless Lan Settings** page to fill out each one (make sure as same as router), then tack away the device net cable, wireless net will be enable to use. As show in figure 2.14

Wireless Lan Settings	
Wireless Network List	[0005b6e4c34] infra None linksys 02[001ae5615a3] infra WPA/WPA2-PSK linksys 01[001ae561733] infra WPA/WPA2-PSK HomePlusPlus500-F02C7204[00740402c74] infra WEP
	<input type="button" value="Scan"/>
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	TP-LINK_4C0B24
Network Type	Infra
Encryption	WEP
Authentication	Share Key
Key Format	ASCII Character
Default TX Key	1
Key 1	cba12 64 bits
Key 2	64 bits
Key 3	64 bits
Key 4	64 bits
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.14

● ADSL Settings

When connected to the Internet through ADSL directly, you can enter the ADSL username and password obtained from ISP. Click “submit” icon, your device may connect the internet.

ADSL Settings	
Using ADSL Dialup	<input checked="" type="checkbox"/>
ADSL User	<input type="text"/>
ADSL Password	<input type="password"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.15

2.5.3 DDNS Service Settings

DDNS Service: The system supports protocols from some DDNS providers DynDNS.

User and Password: the user name and password used when applying for the domain name. (Details: [4.1.6](#))

DDNS Host: the Domain Name

DDNS Service Settings	
DDNS Service	DynDns.org(dyndns) ▼
DDNS User	ipcam
DDNS Password	*****
DDNS Host	IPCAM.dyndns.org
DDNS or Proxy Server	
DDNS or Proxy Port	
DDNS Status	No Action
Re-Update Ignoring All Errors	<input type="checkbox"/> never do this unless your hostname has been unblocked
proxy config is needed if the device is in China Mainland or HongKong	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.16

2.5.4 Mail and FTP Service

Configure the E-mail box to receive and send mails. The E-mail box is used for receiving the images sent after alarm or the system IP address changed.

Note: When **Alarm Service Settings**—> **Send Mail on Alarm** is checked, the Mail Service takes effect.

Sender: This device uses the sender mailbox to send mails.

Receiver: To receive the mail from the Sender. You can set up to 4 receiver mailbox.

SMTP Server: the SMTP server for the sender mailbox

Need Authentication: If the sender mailbox need authentication, you should check it then input the SMTP username & Password.

Mail test: Please set the Mail parameter and click "Submit" first. There are Mail test result and receive a test email from the receive mail box.

Report Internet IP by Mail: In this choice when port or Internet IP changed, it will send the internet IP by mail. Make sure the port is map to the router correctly by UPNP or Virtual Map function if the port settings (for example: IPCAM's URL is http://119.123.207.96:9002).

Mail Service Settings	
Sender	ipcamera@xxx.com
Receiver 1	ipcamera1@xxx.com
Receiver 2	ipcamera2@xxx.com
Receiver 3	ipcamera3@xxx.com
Receiver 4	ipcamera4@xxx.com
SMTP Server	smtp.xxx.com
SMTP Port	25
Need Authentication	<input checked="" type="checkbox"/>
SMTP User	ipcamera
SMTP Password	*****
	<input type="button" value="Test"/> Please set at first, and then test.
Report Internet IP by Mail	<input checked="" type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.17

Settings the FTP Service show in figure 2.18.

Ftp Service Settings	
FTP Server	ftp.ipcamera.com
FTP Port	21
FTP User	ipcam
FTP Password	*****
FTP Upload Folder	/
FTP Mode	PORT
	<input type="button" value="Test"/> Please set at first, and then test.
Upload Image Now	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.18

2.5.5 Motion Detection

Enter Alarm Service Settings page to configure Motion Detection function.

Motion Detect Armed

When you enable motion detect armed, the camera can be triggered to send email alerts and record images. In the camera monitoring page, the green icon turn to red and an alert sound you will hear,

Send Mail on Alarm

Sent picture and mail inform to customer's e-mail after alarmed. (Firstly you should finish the Mail Service Settings.)

Upload Image on Alarm

Enable upload image on alarm and set upload interval (Seconds).

REC automatically and save to PC

When you enable motion detect and open the camera monitoring page on the PC. If there is an alarm triggered, REC will start automatically for several seconds and save to the PC.

Alarm Service Settings	
Motion Detect Armed	<input checked="" type="checkbox"/>
Motion Detect Sensibility	5
Alarm Input Armed	<input checked="" type="checkbox"/>
Trigger Level	Low
IO Linkage on Alarm	<input type="checkbox"/>
Send Alarm Notification by Mail	<input type="checkbox"/>
Send Alarm Notification by Http	<input type="checkbox"/>
Upload Image on Alarm	<input type="checkbox"/>
Scheduler	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

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Figure 2.19

3 HOW TO USE

3.1 Step by step to use

Follow the instructions below to get started after the Camera has been mounted properly. When the IP camera powered on, it will rotate itself and stop to the center.

1) Use Network cable connect IP Camera to LAN.

2) Enter **IP Camera Tool**  to set the basic configuration. (Details: [2.1](#))

3) When IP address of the Camera listed in the Result Field of the **IP Camera Tool**, it means the basic configuration is completed.

4) Set the safety property of IE in the PC when you view it first time. (Details: [4.1.4](#))

5) Camera login (details: [2.2](#))

6) Now you can use the IP Camera as Visitor, operator or Administration in the LAN.

3.2 Setting Wi-Fi of IP Camera

1) To use the wireless functions of the IP Camera, a wireless router like linksys is required.

2) Enter the wireless router setup page (you may see the *wireless router user manual*). To Find out the **SSID**, **Channel**, **Security Way** (NONE, WEP), **Authentication Type**, **encryption**.

3) Enter **Wireless Lan Settings** to input contents got from the wireless router then click **Submit** to reboot the device.

Figure 3.1

- 4) Wait at least 30 seconds (after device started), then unplug the power supply.
- 5) Plug the power supply again (making sure that the Ethernet is not connected).
- 6) After around 30 seconds, if the LED blinks, it indicates it is working in wifi mode.
- 7) Camera login. (Details: [2.2](#))

3.3 Connected to the Internet through ADSL directly

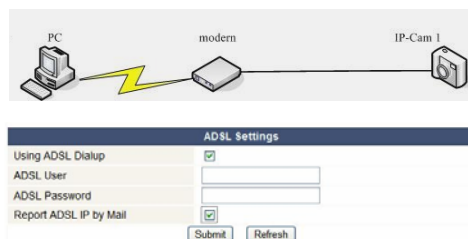


Figure 3.2

- 1) Use Network cable connect IP Camera to PC
- 2) Enter **IP Camera Tool** to set the basic configuration. (Details: [2.1](#))
- 3) Login the Camera homepage as Administration and enter **ADSL Settings** page to input ADSL User name and password.
- 4) Enable DDNS service at the same time and Click **<Submit>** and to reboot the Device. (Details: [2.5.3](#))
- 5) Connect IP Camera to the ADSL directly, you can access the Camera from Internet by domain name.

3.4 Using a router to access the Internet

Using a router to access the Internet by shared ADSL If a router is set for dial-up Internet access, it is not required to set ADSL dial-up account and password on the IP Camera.

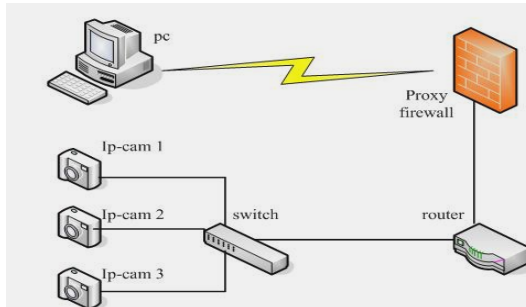


Figure 3.3

- 1) Use Network cable connect IP Camera to the LAN.
- 2) Enter **IP Camera Tool** to set the basic configuration. (Details: [2.1](#))
- 3) Login the Camera homepage as Administration.
- 4) Enter **DDNS Settings Page** and enable DDNS service .Click **<Submit>** and the device will reboot. (Details: [2.5.3](#))
- 5) You can access the Camera from Internet by domain name.

3.5 Static IP user

Static IP user is not need to use DDNS for remote access. When finished the setting of the IP Camera in LAN, you can access the Camera directly from Internet by the WAN IP. You can obtain the WAN IP by three ways.

Send Internet IP function by mail

Set the mail box, IP will send to your receive mail box when internet IP or port changed (detail: [2.5.4](#) E-mail and FTP service).

Obtain the WAN IP from some Website

You can discover this easily by opening on a computer using the same connection as the IP camera and entering this address: <http://www.whatismyip.com>.The page at this address will show you the current WAN IP.

WhatIsMyIP.com

The fastest and easiest way to determine your IP address.

[IP Address](#)
[IP Command Lines](#)
[IP Addresses Explained](#)
[Speed Test](#)
[Automation](#)
[What's New](#)

Your IP Address Is 116.25.51.115

Click to add our gadget to your iGoogle Homepage.

IP Address (Internet Protocol Address): This number is an exclusive number all information technology devices (printers, routers, modems, et al) use which identifies and allows them the ability to communicate with each other on a computer network. There is a standard of

Figure 3.4

Obtain the WAN IP address from the router

Take the WRT54G router of LINKSYS for example,

- 1) Obtain the IP address of the router (LAN gateway address), user name and password for login to the router from the network administrator,
- 2) Enter the LAN IP address of the router (LINKSYS WRT54G default: 192.168.1.1) in the address bar of the IE to log on to the router; Open the **Status** page to find out the WAN address of the router. In this example, the address is 119.123.203.237.

The screenshot shows the Linksys WRT54G router's web interface. The 'Status' tab is selected, and the 'Router Information' section is expanded. The 'IP Address' field is circled in red, showing the value 116.25.51.115. Other information visible includes the router name 'WRT54GL', MAC address '00:0C:81:00:01:71', and the login type 'Automatic Configuration - DHCP'.

Figure 3.4

Access the IP Camera from the Internet

User can access the IP Camera from the Internet, Enter WAN IP address + port number in the IE to access IP Camera. For example, [Http:// 119.123.203.237:9000](http://119.123.203.237:9000)

Note: Make sure the Port mapping is successful. You can do port mapping by two ways:

- Enter setting page of the router which IPCAM connect with to enable UPNP function. Enter IPCAM **"Upnp Settings"** to enable UPNP and make sure the state is "Upnp success".
- If your router has the Virtual Map function. Enter router setting page, add IPCAM IP and port to the Virtual map list.

3.6 How to use DDNS

When use ADSL, the IP Camera will connect to the Internet through ADSL automatically. For each ADSL reconnection, ISP will re-assign a new IP address for the IP Camera to facilitate the access. DDNS (Dynamic Domain Name Server) can map the dynamic IP address of an IP Camera to a fixed domain name. Therefore, we can access the IP Camera by the fixed domain name whether the IP address changes or not. The IP address is not necessary when you using the DDNS via the domain name to find your network.

- 1) Go to the website which Provides free domain name, register and apply a free domain name. Such as <http://www.3322.org/> (details: [4.1.6](#)).
- 2) Login the Camera homepage as Administration and enter "**DDNS Service Settings**" page input the name, password and Host (details: [2.5.3](#)). Then click **<SUBMIT>** and reboot Device.
- 3) Re-login the Camera homepage and enter "**DDNS Service Settings**" page to check the **DDNS Status** is **DynDns Succeed** or not.
- 4) Enter "**UPnP Settings**" page, the **UPnP Status** should be **UPnP Succeed**. If the status is not **Succeed**, you may enter "**Basic Network Settings**" page to change Http Port (details: [2.5.5](#)). Then click **<SUBMIT>** and reboot Device.
- 5) Re-login the Camera homepage to check and make sure the **DDNS Status** and **UPnP Status** is **Succeed**.
- 6) You only need to enter the domain name (such as <http://foscam.3322.org:9000/>) in the IE address bar, the browser will visit the IP Camera.

Wait for several minutes and the IP Camera will dial up to access the Internet automatically, and the communication with the DDNS server is established successfully. In the way, the user can access the IP Camera from a WAN by using the DDNS domain name.

If the gateway settings and DDNS settings have been completed, enter the DDNS dynamic domain name (for example, <http://foscam.3322.org/>) in the address bar of the IE to access the IP Camera. If multiple IP Cameras are connected to the same router, enter DDNS dynamic domain + port number (for example, <http://foscam.3322.org:9000/>) in the address bar of the IE to access different IP Cameras.

UPnP Settings

Using UPnP to Map Port ☒

Submit Refresh

Device Info

Alias Settings

Date & Time Settings

Users Settings

Multi-Device Settings

Basic Network Settings

Wireless Lan Settings

ADSL Settings

UPnP Settings

DDNS Service Settings

Mail Service Settings

Ftp Service Settings

MSN Settings

Alarm Service Settings

PTZ Settings

Decoder Settings

Upgrade Device Firmware

Backup & Restore Settings

Restore Factory Settings

Reboot Device

Log

Back

DDNS Service Settings

DDNS Service 3322.org(dyndns) ▼

DDNS User maverick2004

DDNS Password

DDNS Host ipcamera-demo.3322.org

DDNS Status 3322 Succeed http://ipcamera-demo.3322.org:81

Submit Refresh

Device Info

Alias Settings

Date & Time Settings

Users Settings

Multi-Device Settings

Basic Network Settings

Wireless Lan Settings

ADSL Settings

UPnP Settings

DDNS Service Settings

Mail Service Settings

Ftp Service Settings

Alarm Service Settings

Upgrade Device Firmware

Restore Factory Settings

Reboot Device

Back

Figure 3.5

3.7 How to use iPhone to access the camera

Step1、install reecam on iPhone

- 1、Click App Store icon into Apple's App store, click Search, input 'reecam' and then search.

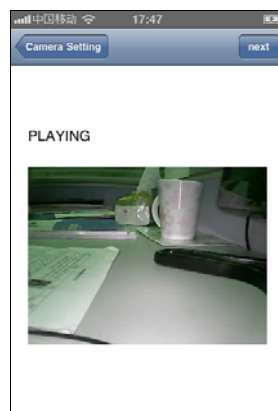
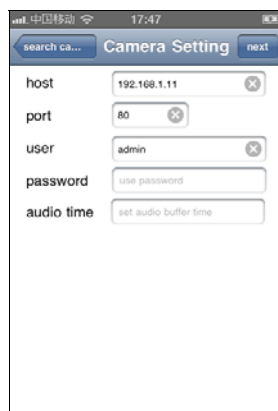


- 2、Double click "reecam_cn" to install the program, final there will be an icon name reecam on the desktop.

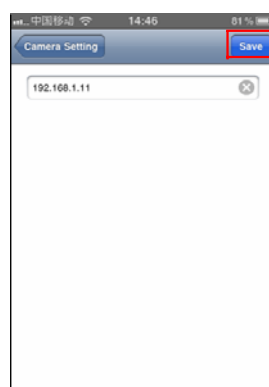
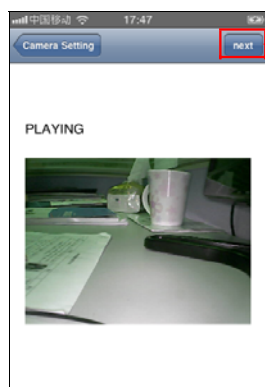


Step2、search and setting the camera

1. Click "Camera setting" to set the camera
2. Click "next" and you will see the video.



3. Click "next"--"save" to save the camera's IP.



4. Click play button  and you will see:



5. Click the small window to open it.



4 APPENDIX

4.1 Frequently Asked Questions

Note: Any questions you would meet, please check Network connections firstly.

Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

4.1.1 I have forgotten the administrator username and/or password.

To reset the administrator username and password, Press and hold down the RESET BUTTON for 5 seconds. Release the power button and the username and password will be reset back to the factory default administrator username and password.

Default administrator username: **admin**

Default administrator password: No password

4.1.2 IP Address configuration

Check whether IP address of the IP Camera server shares the same subnet as your work station: Click My Computer > Control Panel>Network & Dial-up Connections > LAN > Attributes >Internet Protocols (TCP/IP), and check IP Address and Subnet Mask. Make sure they are in the same subnet when configuring IP Camera IP address manually.

Unable to access IP Camera via web browser

4.1.3 Network Configuration

Double Check to ensure that your HTTP server software is configured and running properly. If you're running any firewall software, make sure it's allowing inbound connections to port 80, also, if you happen to be using a cable/DSL router, make sure you've set up port forwarding properly. (consult your router's documentation for more information) .If none of these seem to be the problem, it's also possible that your ISP is blocking inbound connections to port 80 –many ISPs have done this because of internet worms such as Code Red, If this is the case, you'll have to setup your HTTP server on an alternate port (such as 8080).

4.1.4 No pictures Problems with ActiveX Controller

The video streaming is transmitted by the ActiveX controller. If ActiveX controller isn't installed correctly you will see no video image. There are two ways to resolve this problem:

- 1) Install "IP Camera Tool", ActiveX controller is installed simultaneity (recommendable) .
- 2) 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 plu-ins

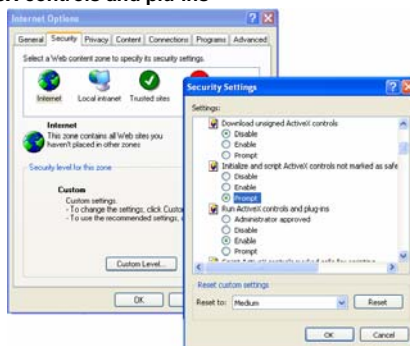


Figure 4.1

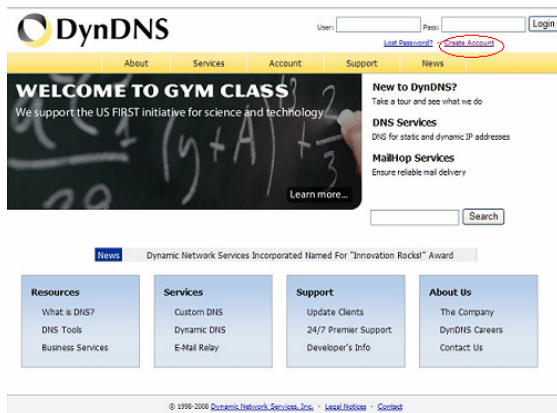
4.1.5 Problems with network bandwidth

The image frame rate is subjected to the following factors: 1.network bandwidth; 2. PC performance, network environment and display preference setting (brightness, theme,

etc.); 3. The number of visitors (Too many visitors will slow down the image frame rate.); 4. Choose switch or hub (Use a switch for multiple IP Camera Servers rather than a HUB.).

4.1.6 For example: Register procedure from a DDNS web

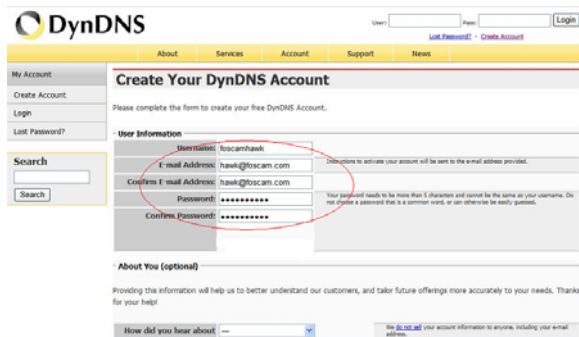
Step1: enter <http://www.3322.org> and **Create Account**



The screenshot shows the DynDNS homepage. At the top, there is a navigation bar with links: About, Services, Account, Support, and News. The 'Create Account' link is circled in red. Below the navigation bar, there is a large banner with the text 'WELCOME TO GYM CLASS' and 'We support the US FIRST initiative for science and technology'. To the right of the banner, there is a 'New to DynDNS?' section with links for 'DNS Services' and 'MailHop Services'. At the bottom, there is a 'Resources' section with links for 'What is DNS?', 'DNS Tools', and 'Business Services'. The footer contains copyright information: '© 1998-2008 Dynamic Network Services, Inc. - Legal Notices - Contact'.

Figure 4.2

Step2: enter your information



The screenshot shows the 'Create Your DynDNS Account' form. The 'User Information' section is highlighted with a red oval. It contains fields for 'Username', 'E-mail Address', 'Confirm E-mail Address', 'Password', and 'Confirm Password'. The 'About You (optional)' section is also visible below the 'User Information' section. The form includes a 'Search' bar on the left and a 'Login' button at the top right.

Figure 4.3

Step3: Logon with the give username and password, change the password after logon, then click "DynDNS Support" to access DDNS administration page.



Figure 4.4

Add New Hostname

Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. [Learn More...](#)

Hostname: . 1

Wildcard: ☐ Yes, alias "*.hostname.domain" to same settings.

Service Type: ☒ Host with IP address 2
☐ WebHop Redirect
☐ Offline Hostname

IP Address: 3
Long auto detected IP address 116.30.19.113
TTL value is 60 seconds. [Edit TTL](#)

Mail Routing: ☐ Yes, let me configure Email routing.

[Create Host](#)

Figure 4.5

Step4: When the Account Confirmed, login and start using your account. Choose **Add Host Services** (Figure 4.4) and enter **Add New Hostname** (Figure 4.5) page.

Step5: Fill the domain in **IP CAM "DDNS Submit"**, will indicate at the DDNS status after settings succeed as following.


Host Services			
Hostname foscamhawk.dyndns.org created.			
Hostname	Service	Details	Last Updated
foscamhawk.dyndns.org	Host	116.30.19.113	Apr. 02, 2008 2:43 AM

Figure 4.6

4.1.7 Why pop-up the prompt “Fail to connect to the device...”?

This prompt only appeared in the case of using multiple cameras.

Enter the **Multi-Device Settings** page (login as administrator) to check the Device setting is correct or not.

When one of the multiple cameras disconnected,  the color changed to yellow and pop-up the prompt “Fail to connect to the device...”

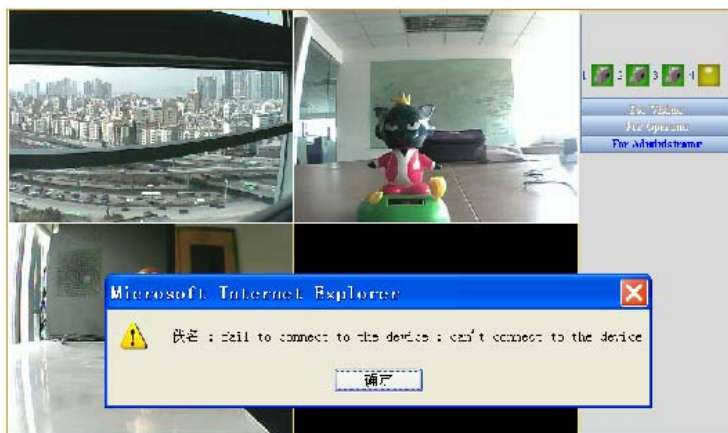


Figure 4.7

4.1.8 Can't access the IPCAM in the internet?

There are some reasons:

- 1 ActiveX controller is not installed correctly (see more details: 4.1.4).
- 2 The port IPCAM used is blocked by Firewall or Anti-virus software. Please change a port number and try again.
- 3 Port mapping is not success. You can do port mapping by two ways:
 - Enter setting page of the router which IPCAM connect with to enable UPNP function. Enter IPCAM “**Upnp Settings**” to enable UPNP and make sure the state is “Upnp success”.
 - If your router has the Virtual Map function. Enter router setting page, add IPCAM's IP and port to the Virtual map list.
- 4 When use ADSL, the IP is dynamic. You should set DDNS (see more details 3.6 & 4.1.6) and also make sure port mapping success.

4.1.9 Problems of using the firefox browser

I use the firefox explorer to login my device, but the monitoring pages didn't display normally?

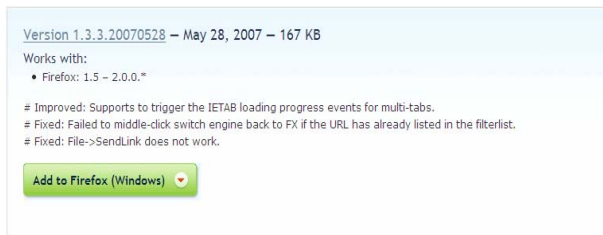
Taking into account security issues, the firefox explorer doesn't support ActiveX controls, but its office provides a plug-in named IE-Tab for us and which can enable firefox to support ActiveX controls, you can access the website as follows with the firefox explorer:

<https://addons.mozilla.org/en-US/firefox/addon/1419>

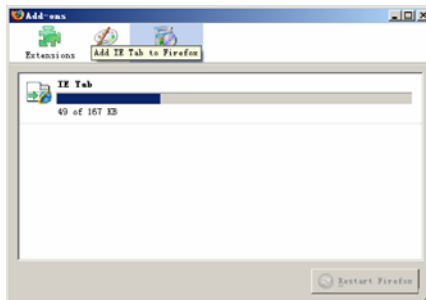
On the download page, select the right version for your browser, download it, then start the installation.

Now, we take the firefox browser whose version is 2.0.0.18 as the example to describe the whole procedure.

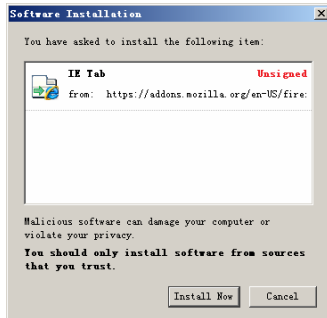
Select the version shown in the chart below



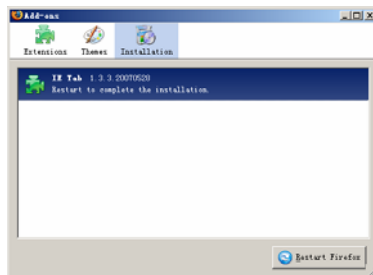
Click "Add to Firefox (Windows)" to start download



Then wait the download to complete, a dialog box shown in the chart below will popup



Click “Install Now”button to start installation



In the end click “Restart Firefox” button to restart the browser.

Login your device and locate the monitoring page, click your mouse’s right button, click the new menu item named View page in IE-Tab to login device again.

4.2 Default Parameters

Default network Parameters

IP address: dynamic obtain
 Subnet mask: 255.255.255.0
 Gateway: dynamic obtain
 DDNS: Disabled

Username and password

Default administrator username: **admin**
 Default administrator password: No password

Packing Method:

Combo A: IP CAM x2 + wireless router x 1 for one gift box
 Combo A: IP CAM x4 + wireless router x 1 for one gift box



We will set the wireless setting for customer before shipped, so the user can use the wireless function after put on the power of router and IPC.

4.3 Specification

ITEMS		IPCAM
Image Sensor	Image Sensor	1/4" Color CMOS Sensor
	Display Resolution	640 x 480 Pixels(300k Pixels)
	Lens	f: 3.6mm, F:2.0 (IR Lens)
	Mini. Illumination	0.5Lux
Lens	Lens Type	Glass Lens
	Viewing Angle	67 degree
Video	Image Compression	MJPEG
	Image Frame Rate	15fps(VGA),30fps(QVGA)
	Resolution	640 x 480(VGA), 320 x 240(QVGA)
	Flip Mirror Images	Vertical / Horizontal
	Light Frequency	50Hz, 60Hz or Outdoor
	Video Parameters	Brightness, Contrast
Communication	Ethernet	One 10/100Mbps RJ-45
	Supported Protocol	HTTP,FTP,TCP/IP,UDP,SMTP,DHCP,PPPoE,DDNS, UPnP,
	Wireless Standard	IEEE 802.11b/g/n
	Data Rate	802.11b: 11Mbps (Max.) 802.11g: 54Mbps (Max.) 802.11n: 150Mbps (Max.)
	Wireless Security	64/128-bit WEP Encryption
Physical		
	Infrared Light	12 IR LEDs,Night visibility up to 8 meters
	Dimension	85(L) x85(W) x32mm(H)
	Gross Weight	705g (Color Box Size:204x189x124mm)
	Net Weight	130.5g
Power	Power Supply	DC 5V/2.0A

	Power Consumption	5 Watts (Max.)
Environment	Operate Temper.	0° ~ 55°C (14°F ~ 122°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temper.	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
PC Requirements	CPU	2.0GHZ or above (suggested 3.0GHz)
	Memory Size	256MB or above (suggested 1.0GHz)
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP/Vista
	Browser	IE 5.0,IE 6.0, IE7.0, IE8.0, firefox2.0, firefox3.0
Certification	CE,FCC	
Warranty	Limited 1-year warranty	

5 OBTAINING TECHNICAL SUPPORT

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may experience some issues or have some questions that this User's Guide has not answered.

To obtain the latest information and support for your Observer network camera, please visit our webpage for additional FAQ's and troubleshooting tips.