English

User's Manual

V3.26

Network Camera

Please read this manual carefully before you attempt to install this product and retain it for your future reference.

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INTRODUCTION

Thank you for your interest and support in our product and purchasing this wireless network camera. The camera can be accessed remotely, and controlled from any PC/laptop over the Intranet or Internet via web browser. The user-friendly installation procedure and intuitive web-based interface offer easy integration with your LAN environment or WiFi system. The camera also comes with a lot of useful alarm tool for notice user any situation. We feel confident that you will be pleased with the quality and features of this product.

Notice

This product may cause interferences with other wireless equipment that operates at 2.4GHz ISM band. Please turn off one of the equipments to eliminate the interference.

Product Assurance

This camera will emit electromagnetic wave, just like other wireless products, but its transmitting power is less than other wireless products such as mobile phones. The 2.4GHz wireless camera meets wireless frequency security standards and recommended indexes while working. These standards and indexes are certificated by academic organization and represent the cogitative research of the scientific workers who continuously explore and annotate the involved fields. So we believe that our products are safe for customers.

Approval Information

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna. -Increase the separation between the equipment and the receiver. -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation Changes and modification not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

CE

This product complies with standards including Low Voltage Device Directive 73/23/EEC; EMC Directive 89/336/EEC and R&TTE Directive 1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear CE mark.

Restrictions

1. DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for such purpose.

- 2. DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment.
- 3. This product should be placed at least 1 foot away from any heart pacemaker. Radio waves might
- potentially influence heart pacemaker.

 4. DO NOT use this product for any illegal activities. It is the user's responsibility to ensure that the usage of this camera is of a legal nature.

Maintenance

- 1. Ensure that the camera and its power source have sufficient ventilation;
- 2. Do not shake, strike or drop the product;
- Keep the camera dry and dustless and avoid exposing it to direct sunlight;
- 4. Do not place the product near any magnetic objects;
- 5. Avoid putting the product in places where there is constant temperature and humidity change;
- 6. Keep the product away from heat sources;
- 7. Do not use the camera near aggressive chemicals;
- 8. Do not use this camera near water;
- 9. Do not use the camera in the places which are enclosed by metal. The surrounding metal may shield the electromagnetic waves, and result in failure of signal reception;
- 10. Please obey the local government's environment protection policy;
- 11. Please turn off the power when left unused;
- 12. Do not disassemble or attempt to repair the camera; doing so might cause damage to the product.

MAIN FEATURES

Easy Installation

The camera comes with built-in Wireless (IEEE802.11b/g) capability and a Web Server, therefore there is no need to install a driver. The setup CD-ROM includes the Camera Setup software, User Manual and Quick Installation Guide.

With industry standard automatic configuration-UPnP(Universal Plug and Play), your PC will discover and connect to your camera automatically. Once connected, using a simple Web browser you can see what the camera sees from anywhere in the world!

The camera can be either wall-mounted or ceiling-mounted using the supplied stand. It can also be placed on a desktop using the supplied stand, thus providing a flexible installation solution.

802.11b/g Wireless LAN Connection Available

The camera is designed to not only work with your existing wired network but also with standard 802.11b/g wireless devices, allowing the flexibility to operate the camera wirelessly. The camera utilizes SSID filtering, powerful 64/128 bit WEP and new security standard WPA encryption to protect you from illegal intrusion.

3GPP Mobile Surveillance

The camera provides the ability to view the cameras monitored through your mobile phone as a live video stream, it supports the telecommunications standard of 3GPP streaming format. All 3G enabled mobile devices and most 2G phones that support the streaming standard of 3GPP are compatible.

Simultaneous High-Speed MPEG-4 and Motion JPEG

The camera allows live the MPEG-4 and Motion JPEG streams simultaneously. The camera features MPEG4 compression which compresses the video to make transmission faster and more efficient. The MPEG4 and MJPEG image can be transmitted at 30 frames per second.

Simultaneous HTTP and RTSP streaming

The camera support HTTP and RTSP/RTP/RTCP protocol, and provide multiple HTTP and RTSP streams simultaneously.

Audio Transmission

The camera comes with a built-in microphone for audio monitoring as well as video monitoring. Sound captured by the camera is transmitted to the client's PC.

Snapshot and Recording

You can capture a still image of the camera view on your PC and save the image as JPG or BMP format file. You also can record the video and audio captured by the camera on your PC and save as an ASF format file.

Motion Detection Function

The camera can detect changes in the image being monitored. Once a change occurs it will send an email to up to 3 email addresses with a video file or snapshot attached. The video file or snapshot can also be uploaded to an FTP server. In addition the camera can be configured to send images at regular intervals.

OSD Function

OSD (On Screen Display) function can display system name, date and time, and user-defined on screen.

Authentication

An authentication window requires you to enter the user ID and password. Password security can prevent unregistered users from accessing your camera. Users can select Basic Authentication method or Digest Access Authentication method.

Multi-Client Access

The camera allows up to 16 users to view the video simultaneously. Please note that it is possible that as the number of simultaneously connected users to camera increases, the overall motion performance will decrease.

Infrared Night Vision (IR IPCAM)

The camera utilizes 30 infrared LED to provide high light in darks environment. When the environment is dark, the LED will be opened automatically due to a photosensitive component, and the moving images will be changed to Black and White. Users can monitor clearly the things within 12 meters distance. Users also can select open or close the infrared LED manually, and select whether change the images to black and white or color automatically.

Adapter

This product conforms with the authenticated AC adapter. The adapter is marked with one or more of the following:



UL Mark

American power supply authentication



SAA Mark

Australia power supply authentication



CE Mark

European Union power supply authentication



PSE Mark

Japan power supply authentication



GS Mark

German power supply authentication



CCC Mark

China power supply authentication

Note: When using the power adapter, make sure the rating voltage on it is compatible with that of the device to avoid potential damages resulting from incorrect usage of power supply.

PC System Requirements

The PC (Personal Computer) and the network must meet the following technical specifications for camera to work properly.

1. Processor: Intel Pentium III, 1GHz or Higher (Pentium IV, 2 GHz or Higher

recommended) 256 MB or more

2. RAM:3. Color Monitor:256 MB or moreSuggest at least 800x600 and the latest driver for the Display Adapter

4. OS(Operating System): Windows 2000/XP/Vista

5. Web Browser: Internet Explorer Version 5.0 or above, DirectX 9.0c or later 6. Network Protocol: TCP/IP network protocol installed

7. Interface: 10/100 Mbps Ethernet® card/Wireless Network card for your network

connection

8. Other: CD-ROM Drive

INSTALLATION

Connecting the camera

Using a standard Ethernet network cable, connect the camera to your network (depending on your own setup, this may be to your router or switch). see figure below

Connect the included power adapter to the power port on the camera and the other end into an electrical socket. see *figure below*

Check that the power indicator is lit on the front of the camera.

Note:

Please handle the power adapter carefully to avoid the risk of accidental electric shock.



Rear view of camera

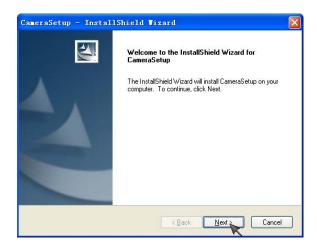
Camera Setup Installation & Usage

The camera Setup utility can easily and quickly detect cameras connected to your local network and list them on the Camera Setup window, also you can use the camera Setup utility to assign an IP address to each camera.

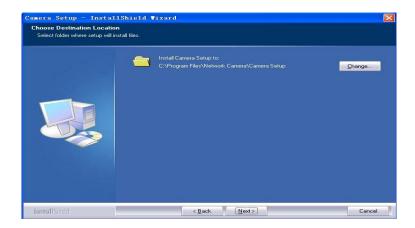
1. Insert the Installation CD into your CD-ROM drive and the installation screen should appear automatically (See image below). If it does not, click "Start" then "Run". In the text field enter "D:\autorun.exe" (if "D:" is the letter of your CD-ROM Drive)



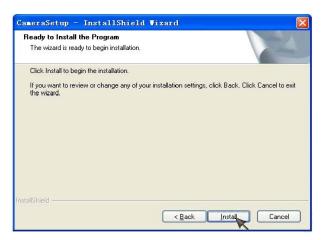
2. Click on "Install Camera Setup" and the following screen will be displayed.



3. If you want to change the default folder click "Change" to replace otherwise click "Next"



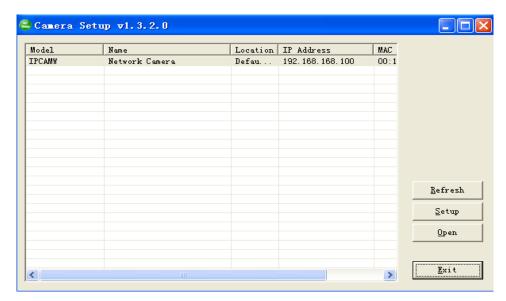
4. Click Install to install Camera Setup.



5. Click **Finish** to end the installation. You should now find a icon setup on the desktop.



6. Double-click the Camera Setup icon on the Desktop to launch the program. The Camera Setup utility should automatically find your camera if is correctly connected (See image below).



[Refresh] Click Refresh to search for cameras on the local network.

[Setup] Select the required camera and click Setup to configure the network settings for the camera.

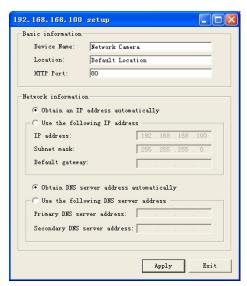
[Open] Select the required camera and click Open to access the camera via a web browser.

[Exit] Click Exit to exit the Camera Setup window.

Note: Select and double click one of the cameras from the Device list, to open the camera view via the web browser.

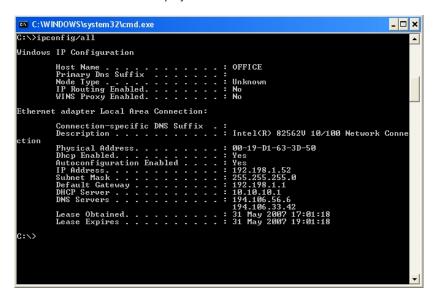
Assigning an IP address to the Camera with Camera Setup

- 1. Launch Camera Setup program to detect cameras on the local network.
- 2. Click on "Setup" button and the following setup interface will pop up.



3. Enter a unique name for the camera, the location (optional) and leave the default port number as 80. "Obtain an IP address automatically" and "Obtain DNS server address automatically" are selected by default, if you are confident enough to enter your own settings, you can do so by selecting "Use the following IP address" and follow the guidelines on the next page. If however you wish to leave the default settings please skip to **NETWORK CAMERA SCREEN AND SETUP WINDOW.**

4. To obtain the IP addresses specific to your network, click "Start" then "Run" and type "cmd" in the text box and click "Ok". The will bring up the MS-DOS prompt and in this window type "ipconfig/all" and press enter. A screen similar to the one below will be displayed.



- 5. Take note of the following:
- i) IP Address
- ii) Subnet Mask
- iii) Default Gateway
- iv) DNS Servers (Both numbers with the first being the primary DNS server and the second being the secondary DNS server)
- 6. Enter the details noted in step 5 into the relevant fields.

Note: The default IP address of the camera is 192.168.168.100This can be changed to any IP address on your IP range. For example if the IP address of your PC is 192.198.1.52 then the IP address of your camera should be unique and on the same subnet, i.e. 192.198.1.X where X is any number between 1 and 255 except 52. Ensure the IP address you chose is not the same as other network devices on your network as this will result in conflict and may cause the device to not to work properly.

7. Once you've entered all the details click "Apply" then "Exit".

NETWORK CAMERA SCREEN AND SETUP WINDOW

Review Images from the Network Camera

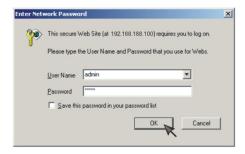
You can select one of the three ways to review pictures from the camera.

1. Input the assigned IP address (or URL) of the camera on the Web Browser. Take 192.168. 168.100 as example. You will see the home page.

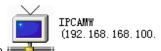


Notes:

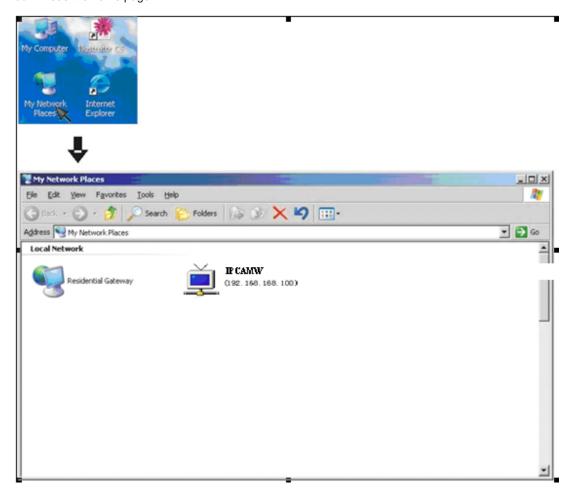
Through this welcome page, you could choose to click on the item **Enter** to access the picture viewing interface or the item **Setting** to access the system setting interface. The below dialog will appear. Input the correct username (the default is **admin**, in lowercase) and password (the default is **admin**, in lowercase). You are allowed to enter the picture viewing interface or the system setting interface.



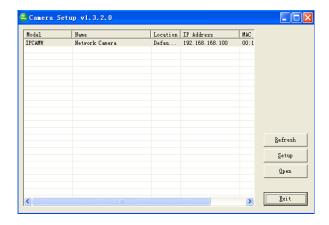
The general users assigned by the administrator are not allowed to enter the system setting interface. They can only be permitted to enter the picture viewing interface.



2. If your OS is Windows XP, click [My Network Places], double click the icon You will see the home page.

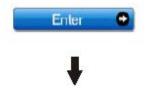


3. Run the Camera Setup and double-click the relevant camera item.

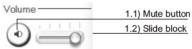


Operating Bar

Click Enter, you will see the screen.









(3) Zoom in/out button

(4) Recording button

(5) Recording option

(1) Mute

- 1.1) Click Mute button to mute the audio.
- 1.2) Slide the slide block horizontally to adjust volume.

(2) Snapshot

Press the **Snapshot** button to capture a still image of the camera view.

Click **Save** to store the snapshot on your computer, the file is automatically assigned the data & time of the snapshot. Press **Cancel** to exit.

(3) Zoom

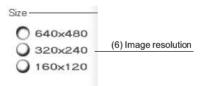
Click on +button and the cursor turns to a magnifier. Move the magnifier to the desired location and click on an image area. Press -button to return to the normal view.

(4) Recording:

Press the **Record** button to record video and audio (if enabled). This will save the file in ASF format on your PC.

(5) Recording option:

Click this button to set the recoding parameters. You can set record path, video file size and select whether to start recording automatically when motion is detected and the length of the recording in seconds.



(6) Image size:

There are three Image Size options: [640x480],[320x240] and [160x120]. Please note that this only changes the image size being viewed not the image size the camera is transmitting and/or recording. To change the transmitting/recording image size please refer to Camera Setup(page 20).

Viewing the camera from your mobile phone

The camera provides the ability to view the cameras monitored through your mobile phone as a live video stream, it supports the telecommunications standard of 3GPP streaming format. All 3G enabled mobile devices and most 2G phones that support the streaming standard of 3GPP are compatible. Otherwise, you also can view the pictures even if your phone is not 3GPP compatible.

For example, if camera's external IP address is 202.96.135.206 and external port is 8151, then type http://202.96.135.206:8151/mobile in your Internet browser address bar of mobile phone, the login screen

will appear:



To click the "Picture live" button if your mobile phone is not 3GPP standard, then you can view the pictures which will refresh every 3 seconds.

To click the "3GPP stream live" if your mobile phone support 3GPP standard, and the following screen will appear:

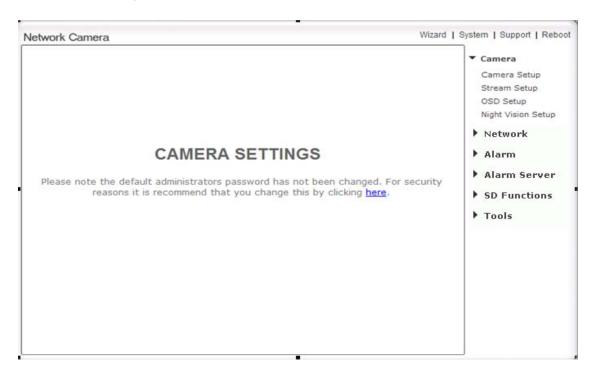


Note: You have to click "Setting" button, make sure that the Mobile stream is enabled and the RTSP authentication is disabled before you view the 3GPP stream live.

Network Camera Setting Interface

1. Click on **settings** from the home page. When connecting the camera for the first time or after resetting it to its default settings, the setup interface start page below will load. It is recommend that you change the **admin** password in order to avoid unauthorized access to the camera. To do this follow the instructions by clicking on the underlined link "here" to access administrator password editing page.



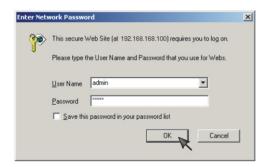


2. Type the password in both fields then click **Save**. Please take note of the password. If you forget the password, the camera will have to be reset to its default settings in order to gain access to the settings page and this will also reset all other settings you may have changed.

Edit user



3. You are required to re-login with the changed password.



After successful login, the following page will appear.

* User modified successfully!

Camera user list

No. User name		User name	Group
	1	<u>admin</u>	Administrators



Camera

▼ Camera

Camera Setup Stream Setup OSD Setup Night Vision Setup

Camera Setup

Camera setup

From the home page click **settings** and enter the administrator user name and password. Click on **Camera Setup** under the title **Camera** to change the image and audio parameters of the camera.

Camera: 60Hz ❤ Light frequency: Image rotation: On O Off Moonlight mode: On Off Power LED light: On ○ Off Show FPS in ActiveX: On Off Microphone: Enable O Disable 10 🕶 Volume: Bit rate: G.726(16kbps) >

[Moonlight mode] Adjust the brightness setting according to the light intensity of the area being monitored manually.

[Image rotation] Display images upside down.

[Light frequency] Two options: 50Hz & 60Hz. Set according to the mains frequency in the country of use. For UK this would be 50Hz.

[Power LED light] Turn on/off the power & network LED indicator of camera.

[Show FPS in ActiveX]Show FPS On/Off in ActiveX control.

[Microphone] Turn on/off the built-in microphone.

[Mic volume] Adjusts the volume of the microphone from 0~14 where 0 is the lowest.

[Audio bit rate] Four options: 16, 24, 32, 40(kbps). Determines the quality of the audio being transmitted.

Click **Apply** to confirm your settings.

Stream Setup

The camera supports three streams: primary stream, secondary stream and mobile stream.

Stream setup Primary stream: Image size: 640x480 Frame rate: MPEG4 bit rate: 2048 kbps MJPEG quality: 50 (20-100)Snapshot quality: 90 (20-100)Audio: Enable O Disable RTSP authentication: Enable O Disable Secondary stream: Enable Disable Mobile stream: Enable O Disable Image size: Frame rate: MPEG4 bit rate: kbps Snapshot quality: (20-100)Audio: Enable Disable RTSP authentication: Enable O Disable

[Image size] Three image resolutions available: $640 \times 480(VGA)$, $320 \times 240(QVGA)$, 160×120 . [Frame rate] Twelve options: 1/2/3/4/5/6/8/10/15/20/25/30 frames per second (fps). [MPEG4 bit rate] Select MPEG4 bit rate. Eight options: 64, 128, 256, 512, 768, 1024, 1536, 2048 (kbps). [MJPEG quality] Type MJPEG video quality. (20-100), 20 is low quality, 100 is high quality. [Snapshot quality] Type snapshot quality. (20-100), 20 is low quality, 100 is high quality.

Apply

The above five settings determine the image quality, however higher bit rates require greater bandwidth. Please select the appropriate settings according to your connection speed and network traffic. If you are experiencing jerky video it may be necessary to decrease the bit rate.

[Audio] Enable or disable audio.

[RTSP authentication] Enable or disable RTSP authentication.

You can use Mobile phone to play the mobile stream from camera, but generally Mobile phone do not support authentication, so we have to disable the RTSP authentication.

A stream list page will be shown after clicking the stream name such as "Primary stream".

[Primary stream] can not be disabled.

A sample of primary stream list as below:

Primary stream list

	Intranet stream URL		
RTSP MPEG4 stream:	rtsp://192.168.168.134/live_mpeg4.sdp		
RTSP MJPEG stream:	rtsp://192.168.168.134/live_mjpeg.sdp		
HTTP MPEG4 stream:	http://192.168.168.134/stream.av		
HTTP MJPEG stream:	http://192.168.168.134/stream.jpg		
HTTP snapshot image:	http://192.168.168.134/snapshot.jpg		
Internet stream URL			
RTSP MPEG4 stream:	rtsp://61.144.213.228:8155/live_mpeg4.sdp		
RTSP MJPEG stream:	rtsp://61.144.213.228:8155/live_mjpeg.sdp		
HTTP MPEG4 stream:	http://61.144.213.228:8155/stream.av		
HTTP MJPEG stream:	http://61.144.213.228:8155/stream.jpg		
HTTP snapshot image:	http://61.144.213.228:8155/snapshot.jpg		

Close

You can use RealPlayer, VLC Player or QuickTime Player to play the live stream from camera in Intranet or Internet.

[Secondary stream] Enable or disable secondary stream.

[Mobile stream] Enable or disable Mobile stream.

You can use mobile phone, Realplayer and QuickTime Player to play the live stream from camera. The size of video is 176x144.

Click Apply to confirm your setting.

OSD Setup

This function can display system name, date and time, or use-defined on screen.

On Screen Display Setup

OSD display:	● Enable ○ Disable
Transparent:	● Enable ○ Disable
Display date and time	
 Display system name 	
 Display the text below 	
O Display the text below with	th date and time
Camera	
Appl	у

[OSD] Enable or disable OSD function.
[Transparent] Users can select whether change OSD to transparent or not.
[Display date and time] OSD is date and time of camera.
[Display system name] OSD is system name of camera.

[Display the text below] OSD is user-defined text.

[Display the text below with date and time] OSD is user-defined text with date and time of camera.

Click **Apply** to confirm your settings.

Night Vision Setup (IR IPCAM)

Only IR IPCAM have infrared LED, which can be opened automatically when camera check dark environment.

Night Vision setup

Infrared LED control:

Black and white mode:

On ○ Off

Auto ○ On ○ Off

Apply

[Infrared LED control] When the environment is dark, the LED will be opened automatically due to a photosensitive component. Users also can select open or close the infrared LED manually.

[Black and white mode] When the environment is dark, the moving images will be changed to Black and White automatically. Users also can select whether change the images to black and white or color manually.

Click **Apply** to confirm your settings.

Network

▼ Network

Wireless Setup

TCP/IP Setup

PPPoE Setup

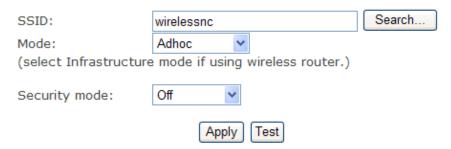
DDNS Setup

UPNP Setup

Wireless Setup

The camera corresponds to the wireless system based on IEEE802.11b/g. Encryption establishes the security to prevent unauthorized users to access the wireless data communication.

Wireless setup



[SSID] Type the ID of the wireless network you want to connect to using up to 32 ASC $\rm II\,$ characters or click **Search** to search for available networks.

[Mode] Infrastructure mode and Adhoc mode

Adhoc Mode: Select Adhoc mode when the camera is directly connected to your computer.

Infrastructure Mode: Select **Infrastructure** mode when the camera is connected via an access point or router.

Wireless setup

SSID:	wirelessnc	Search
Mode:	Adhoc	
(select Infrastructure	mode if using wireless router.)	
Security mode:	WEP64bit 🔻	
•		
Authentication:	Auto	
WEP key type:	Hex 💌	
WEP key Index:	1 🕶	
WEP key:		
Re-type WEP key:		
	Apply Test	

When select Adhoc mode. See figure above.

[Security mode] WEP64bit or WEP 128bit

[Authentication] Select WEP authentication mode.

[WEP Key type] Select the WEP key type. Either in hexadecimal or ASC II characters.

[WEP key Index] Specify up to 4 WEP keys.
[WEP Key] Type the password.
[R-type WEP Key] Re-confirm the password.

Wireless setup

SSID:	wirelessnc	Search
Mode:	Infrastructure 🕶	
(select Infrastructure	mode if using wireless router.)	
Security mode:	WPA-PSK 💌	
Encryption type:	TKIP 🕶	
WPA key:		
Re-type WPA key:		
	Apply Test	

When select Infrastructure mode. See figure above.

[Security mode] Security mode is not only WEP64bit or WEP128bit but also WPA-PSK or WPA2-PSK.

[Encryption type] TKIP and AES.

[WPA key]Type 8-63 characters as password.

[Re-type WPA key] Re-confirm the password.

SSID list

	SSID	Mode	Signal	Encryption
•	netgear	Infrastructure	att	On
0	ip3	Infrastructure	all	On
0	dlink	Infrastructure	all	On
0	linksys2	Infrastructure	att	On



When click **search**, see figure above. **[SSID]** select the network name you searched. **[Mode]** Infrastructure mode and Adhoc mode **[signal]**It show out the strength of signal **[Encryption]** on and off.

Click **Apply** to save changes. Click **Test** to test whether connection is successful.

Note: These settings have to match those of your access point or router. Please consult your access point or router manual on how to verify or modify these settings.

TCP/IP Setup

The camera is set up to obtain the IP address automatically (DHCP) by default. Should you may wish to assign the IP address manually, use the **TCP/IP Setup** page to enter the address details.

TCP/IP Setup

\odot	Obtain	an	ΙP	address	automatically	y((DHCP)	١
---------	--------	----	----	---------	---------------	----	--------	---

O Use the following IP address

Obtain DNS Server address automatically

Use the following DNS server address

HTTP/RTSP port: 80

RTP port range: 30000 -- 30200

HTTP/RTSP Authentication method:

Use Basic Authentication

Use Digest Access Authentication

Apply

Obtain an IP address automatically(DHCP):

If your network supports a DHCP server (e.g. router) select this option to have the IP address is assigned automatically.

If you select **Obtain an IP address automatically** you should select **Obtain a DNS Server address** automatically.

Use the following IP address:

Select this option when a fixed IP is required.

[IP address] Type the IP address of your camera.

[Subnet mask] Type the subnet mask.

[Default gateway] Type the default gateway.

Obtain DNS Server address automatically:

If your network supports a DHCP server (e.g. router) select this option to have the DNS Server address is assigned automatically.

Use the following DNS server address:

[Primary DNS IP address] Type the IP address of the primary DNS server.

[Secondary DNS IP address] Type the IP address of the secondary DNS server, if necessary.

[HTTP/RTSP port]

The default HTTP port number is 80, it is also be used as RTSP port.

[RTP port range] It is for UPnP port forwarding, 1 camera actually use 2 RTP ports, one for video, the other for audio. (See UPnP setup)

[HTTP/RTSP Authentication method] Select Basic Authentication or Digest Access Authentication.

PPPoE Setup

The camera can be installed without a PC on the network. Some XDSL services use PPPoE (Point-to-Point Protocol over Ethernet).

PPPoE setup	
PPPoE dial-up:	Enable Disable
Service name:	
User name:	
Password:	
Re-type password:	
	Apply

[PPPoE dial-up] Enable or disable PPPoE connection.

[Service name] Either an ISP name or a class of services that is configured on the PPPoE server. This field may be left empty.

[User name] Type the user name.

[Password] Type the password.

[Re-type password] Re-confirm the password.

Click Apply to confirm your settings.

DDNS Setup

Dynamic DNS (DDNS) is simply a way of using a static hostname to connect to a dynamic IP address. When connected to your ISP, you are assigned a temporary IP address. DDNS services keep track of your IP address and route your **Domain name** to that address when you wish to connect to the camera from a remote location.

DDNS: © Enable © Disable Service provider: Host name: User name: Password: Re-type password: Apply

[DDNS] Enable or disable DDNS connection.

How to add DDNS

- 1. Enable the Dynamic DNS function.
- 2. Select your preferred DDNS service provider from the list then click **Register**.
- 3. Enter the Host Name details and password supplied by your DDNS service provider when you registered.
- 4. Click **Apply** to confirm your settings.
- e.g.

* Dynamic DNS setup successfully!

DDNS setup

DDNS:	Enable Disable
Service provider:	dtdns.com Register
Host name:	mywireless.dtdns.com
User name:	mywireless
Password:	•••••
Re-type password:	•••••
	Apply

UPNP Setup

The camera supports UPnP which is enabled by default. This function requires a Windows XP/Vista operating system. It is a quick way to discover the camera on your network. Please make sure that the UPnP function is enabled on your PC.

UPNP setup	
UPNP:	● Enable ○ Disable
Gateway HTTP/RTSP port forwarding:	Enable Disable
External HTTP/RTSP port range:	8150 8350
Gateway RTP port forwarding:	Enable Disable
External RTP port range:	30000 30200
Note: RTP port range can't be changed he setup page.	re, you should change it in TCP/IP
Apply	

[UPnP] Enable or disable the UPnP function.

[Gateway HTTP/RTSP port forwarding] Enable or disable this function.

[External HTTP/RTSP port range] Using this port, automatically adds a port forwarding rule to a router via UPnP protocol. Please note that not all routers support this function. Refer to your router manual for further details.

If set port range is 8150~8350, camera will ask router to add a port forwarding rule automatically. In this rule, the internal port is camera default port 80, the external port is 8150, IP address is camera's IP. Use this setting, users can visit the camera from Internet through the router with this URL http://routeripaddress:8150.

If there are several cameras in Local Network, the first one which first be opened will use 8150 as external port, and second one will use 8151, third one use 8152, etc. Every camera will remember its port, it will preferentially use this port in next power on.

[Gateway RTP port forwarding] Enable this function, users can use mobile phone, RealPlayer or QuickTime Player to visit the camera from Internet through the router.

[External RTP port range] 30000—30200 default. (See TCP/IP setup)

Click Apply to confirm your setting.

Click System at the top right of Settings page to show the System information. See figure below.

System	· ·
Model:	IPCAMW
System up time:	0 Days 16:55:10
BIOS/Loader version:	2.1 (build 0001)
Firmware version:	3.20 (build 20090722)
ActiveX Control version:	1,2,3,1
MAC address:	00:0d:f0:5b:0b:e3 (000DF05B0BE3)
Wireless	
Status:	connected
SSID:	linksys2
Signal:	ull
Mode:	infrastructure
Channel:	channel 11, 2,4620GHz
Security mode:	WPA-PSK
IP mode:	Dynamic
IP address:	192.168.168.188
Subnet mask:	255.255.255.0
Default gateway:	192.168.168.254
Ethernet	172.100.100.231
Status:	No connection
PPPoE	140 CONNECTION
Status:	No connection
DNS Server	140 CONTINUE CONT
Primary DNS IP address:	202.96.128.166
Secondary DNS IP address:	192.168.168.254
DDNS	192,100,100,234
Status:	Disable
UPNP port forwarding	Disable
Status:	Success
Gateway external IP address:	119.122.167.202
Gateway external port:	8153
Internet URL:	http://119.122.167.202:8153
Internet Connection	
Status:	connected
SD card	
Status:	Inside
Total:	1872 MBytes
Used:	0 MBytes
Available:	1872 MBytes
Current users	1.00 4.00 4.00 0.0
admin	192.168.168.96

If DDNS setup successfully and go into effect, **Internet URL** will show DDNS host name instead. See *figure below for example*.

UPNP	
Status:	Success
Gateway external IP address:	121.35.132.14
Gateway external port:	8150
Internet URL:	http://mywireless.3322.org:8150

Alarm

▼ Alarm

Motion Detection Schedule Setup Alarm Management Periodic Sending Buffer Management

Motion Detection

Motion Detection can trigger an alarm that sends images or video feed via e-mail or FTP (File Transfer Protocol). You can set up to four different Motion Detection windows.



[Window] Check this box to enable the window.

[Threshold] Set the threshold bar to the amount of motion required to trigger the alarm.

[Sensitivity] Set the measurable difference between two sequential images that would indicate motion.

Click Apply to confirm your setting.



Checked the window box to enable this window.

Threshold bar and indicator

Note:

- 1. When you enable, disable, relocate or resize a window click **Apply** to for the new settings to be enable.
- 2. Only the checked window area will trigger the alarm.
- 3. Moving the Threshold bar to the left or the Sensitivity bar to the right will increase the sensitivity of when the alarm is triggered.
- 4. To resize a window simply drag one of its corners.
- 5. To move a window click and drag on the top bar of the window (window name).

Schedule Setup

Alarm Sending, Periodical Sending and **Buffer Sending** sends images via e-mail or FTP according to schedule setup.

Schedule setup Always Y Start time Every day 0 End time Sunday Range Start time 0 0 End time 24 0 0 0 Monday Range V Start time 0 End time 24 0 0 Tuesday Range ✓ Start time 0 End time 24 0 0 Wednesday Range Start time 0 End time 24 Thursday Range ✓ Start time 0 0 End time 24 0 0 0 Friday End time 24 Range Start time 0 0 0 Saturday Range ✓ Start time 0 End time 24 Apply

[Every day] Select every day or not. [Sunday ~ Saturday] Select Sunday ~ Saturday or not.

[Always] Enable in any time.

[Range] Enable between start time and end time.

[Except] Enable except start time to end time.

Click **Apply** to confirm your setting.

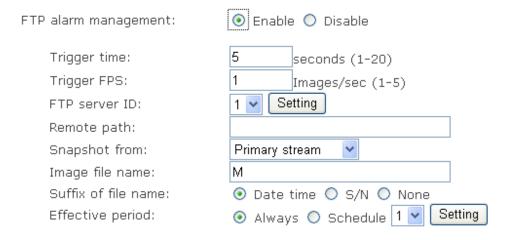
Alarm Management

Motion Detection can trigger an alarm that sends images via FTP or e-mail and send URL via HTTP.

Apply

Alarm Management Setup				
	Alarm mode:	•	Arm O Disarm	
	FTP alarm management:	0	Enable Disable	
	e-Mail alarm management:	0	Enable Disable	
	HTTP event alarm management:	0	Enable Disable	

[Alarm mode] Enable or disable all alarm.
[FTP alarm sending] Enable or disable FTP alarm sending function.
[e-Mail alarm sending] Enable or disable e-Mail alarm sending function.
[HTTP event alarm sending] Enable or disable HTTP event alarm function.



[Trigger time] How many seconds does camera keep snapshot the images after get a motion alarm.

[Trigger FPS] How many images does camera snapshot every second after get a motion alarm.

[FTP server ID] Select one FTP server, click Setting to set FTP server.

[Remote path] Path where to save the image file on the FTP server.

[Snapshot from] Select source stream that snapshot from.

[Image file name] Type image file name.

[Suffix of file name] Select suffix of file name.

[Effective period] Select Effective period. If select schedule, click Setting to set schedule.

e-Mail alarm management:	
Trigger time: Trigger FPS: e-Mail server ID:	1 seconds (1-20) 1 Images/sec (1-5) 1 Setting
File attachment:	⊙ On ○ Off
Snapshot from:	Primary stream
Image file name:	M
Suffix of file name:	Date time Sequence number
Effective period:	

[Trigger time] How many seconds does camera keep snapshot the images after get a motion alarm.

[Trigger FPS] How many images does camera snapshot every second after get a motion alarm.

[e-Mail server ID] Select one e-Mail server, click **Setting** to set e-Mail server. [File attachment] Switch file attachment on or off.

[Snapshot from] Select source stream that snapshot from.

[Image file name] Type image file name.

[Suffix of file name] Select suffix of file name.

[Effective period] Select Effective period. If select schedule, click Setting to set schedule.

HTTP event alarm management	: ⊙ Enable ○ Disable
HTTP server ID: Sending URL:	1 Setting
Use MAC address as URL Effective period:	suffix O Always O Schedule 1 V Setting
	Apply

[HTTP server ID] Select HTTP server ID, click Setting to set HTTP server.

[Sending URL] Type URL which will be sent to HTTP server.

[Use MAC address as URL suffix] Enable or disable this function.

[Effective period] Select effective period. If select schedule, click **Setting** to set schedule.

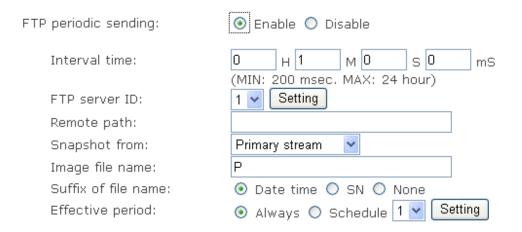
Periodic Sending

The camera can send images via FTP or e-mail and send URL via HTTP periodically.

Periodic sending setup

HTTP periodic sending:	O Enable O Disable
e-Mail periodic sending:	O Enable O Disable
FTP periodic sending:	O Enable O Disable

[FTP periodic sending] Enable or disable FTP upload periodically. [e-Mail periodic sending] Enable or disable e-Mail upload periodically. [HTTP periodic sending] Enable or disable HTTP upload periodically.



[Interval time] Type the interval at which you want to send the images periodically.

[FTP server ID] Select one FTP server, click Setting to set FTP server.

[Remote path] Path where to save the image file on the FTP server.

[Snapshot from] Select stream that snapshot from. [Image file name] Type image file name.

[Suffix of file name] Select suffix of file name.

[Effective period] Select Effective period. If select schedule, click Setting to set schedule.

e-Mail periodic sending:	● Enable ○ Disable
Interval time:	0 н 1 м 0 s 0 ms (MIN: 200 msec. MAX: 24 hour)
e-Mail server ID:	1 V Setting
File attachment:	⊙ On ○ Off
Snapshot from:	Primary stream
Image file name:	Р
Suffix of file name:	Date time
Effective period:	AlwaysSchedule1 YSetting

[Interval time] Type the interval at which you want to send the images periodically.

[e-Mail server ID] Select one e-Mail server, click Setting to set e-Mail server.

[File attachment] switch file attachment on or off.

[Snapshot from] Select stream that snapshot from. [Image file name] Type image file name.

[Suffix of file name] Select suffix of file name.

[Effective period] Select Effective period. If select schedule, click Setting to set schedule.

HTTP periodic sending:	● Enable ○ Disable
Interval time:	О н 1 м О s О ms (MIN: 200 msec. MAX: 24 hour)
HTTP server ID:	1 V Setting
Sending URL:	
Use MAC address as URL	suffix
Effective period:	Always O Schedule 1 V Setting
	Apply

[Interval time] Type the interval at which you want to send the URL periodically. [HTTP server ID] Select HTTP server ID, click Setting to set HTTP server. [Sending URL] Type URL which can be sent to HTTP server.. [Use MAC address as URL suffix] Enable or disable this function. [Effective period] Set Effective period. If select schedule, click Setting to set schedule.

Click Apply to confirm your setting.

Note:

The notifications use the camera's internal clock. Please make sure the camera's Date and Time are correct.

Buffer Management

The camera can be configured to send images via FTP when the Motion Detection alarm is triggered.

Note: This function just can be used when SD card does not plug in the SD slot of cameras.

Image buffer management setup

Image buffer:	● Enable ○ Disable
Buffer time:	20 Seconds (1-20)
Buffer FPS:	4 Images/sec (1-10)
	(The number of buffer images: 1 - 80)
Snapshot from:	Primary stream
Image file name:	
Suffix of file name:	 Date time Sequence number
FTP automatic sending:	O Enable • Disable
FTP server ID:	1 V Setting
Remote path:	
Estimate sending time:	100 Seconds (1 - 9999)
Effective period:	Always O Schedule 1 Setting

Apply

[Image buffer] Enable or disable this function. Click Browse to preview images.

[Buffer time] Type buffer time.

[Buffer FPS] Type buffer FPS.

[Snapshot from] Select stream that snapshot from.

[Image file name] Type image file name. [Suffix of file name] Select suffix of file name.

[FTP automatic sending] Enable or disable this function.

[FTP server ID] Select one FTP server, click Setting to set FTP server.

[Remote path] Path where to save the image file on the FTP server.

[Estimate sending time] Type estimate time that all buffer images send completed.

[Effective period] Select Effective period. If select schedule, click Setting to set schedule.

Alarm Server

▼ Alarm Server

FTP Server e-Mail Server HTTP Server

FTP Server

FTP Server setup

FTP server ID:	1 💌
FTP server name:	
FTP server port:	21
Anonymous:	O Yes No
User name:	
Password:	
Re-type password:	
Passive mode:	⊙ On ○ Off
Keep alive:	3600 Seconds (0-99999 0:always keep alive)
	Apply

[FTP server ID] Select FTP server ID. [FTP server name] Type the name or IP address of the FTP server. [FTP server port] The default port number is 21. [Anonymous] Enable or disable anonymous login. [User name] Type your user name. [Password] Type your password.

[Re-type password] Re-type your password. [Passive mode] Switch passive mode on or off.

[Keep alive] Type the time which keep alive with FTP server.

e-Mail Server

e-Mail Server setup

e-Mail server ID:	1 🕶
SMTP server name:	
SMTP server port:	25
Secure SSL connection:	O Yes No
Authentication:	● Yes ○ No
User name:	
Password:	
Re-type password:	
Sender mail address:	
Receiver mail address:	
Subject:	Warning from Network Camera
Message:	^ ~
	Apply

[e-Mail server ID] Select e-Mail server ID.

[SMTP server name] Type the name or IP address of the SMTP server you want to use for sending the e-Mails. Please note that networks do not allow e-mail relaying. Check with your system administrator for more details.

[SMTP server port] The default value is 25.

[Secure SSL connection] Select whether use SSL connection.

[Authentication] Select the authentication required by the SMTP server.

[User name] & [Password] Type the user name and password of the e-Mail account you wish to use. This field is required if your SMTP server requires authentication.

[Re-type password] Re-type the password.

[Sender e-mail address] Type the e-mail address of the account you are using to send the e-Mail. [Receiver e-mail address] Type the recipients' e-mail addresses (Up to 3 address can be entered).

[Subject] Subject of the e-mail, entering a relevant subject will help identify the alarm better. [Message] Type the text you wish to appear in the e-mail.

HTTP Server

HTTP Server setup

HTTP server ID:	1 🕶
HTTP server name:	
HTTP server port:	80
Authorization:	O Yes No
User name:	
Password:	
Re-type password:	
	Apply

[HTTP server ID] Select HTTP server ID.
[HTTP server name] Type the HTTP server name.
[HTTP server port] Type the HTTP server port.
[Authentication] Select the authentication required by the HTTP server.

[User name] Type the user name.
[Password] Type the password.
[Re-type password] Re-confirm the password.

SD Functions

▼ SD Functions

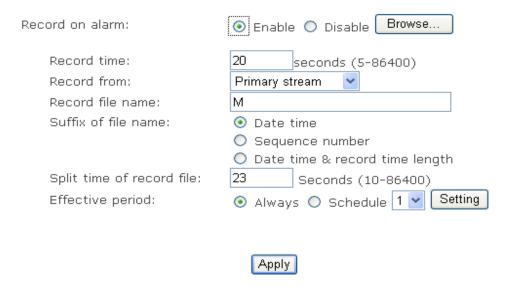
Record on Alarm Snapshot on Alarm Continuous Record Snapshot at Interval SD FTP Sending Browse SD Card Format SD Card

Record on Alarm

Record on alarm setup

 Arm ○ Disarm Alarm mode: O Enable O Disable Browse... Record on alarm: Apply

[Alarm mode] Enable or disable all alarm. [Record on alarm] Enable or disable alarm recording function.



[Recordr time] how many seconds does camera keep recording after a motion alarm.

[Record from] Select source stream that record from. [Record file name] Type record file name.

[Suffix of file name] Select suffix of file name.

[Split time of record file] How many seconds does every recording file save video and audio.

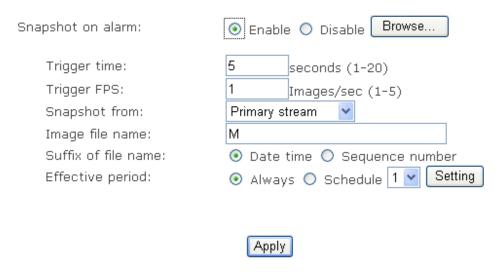
[Effective period] Select Effective period. If select schedule, click Setting to set schedule

Snapshot on Alarm

Snapshot on alarm setup Alarm mode: Snapshot on alarm: O Enable O Disable Browse... Apply

[Alarm mode] Enable or disable all alarm.
[Snapshot on alarm] Enable or disable alarm snapshot function.

Click **Apply** to confirm your settings.



[Trigger time] How many seconds does camera keep snapshot the images after get a motion alarm. [Trigger FPS] How many images does camera snapshot every second after get a motion alarm. [Snapshot from] Select source stream that snapshot from.

[Image file name] Type image file name.

[Suffix of file name] Select suffix of file name.

[Effective period] Select Effective period. If select schedule, click Setting to set schedule.

Continuous Record

Continuous record setup O Enable O Disable Browse... Continuous record: Apply

[continuous record] Enable or disable continuous recording function.

Click **Apply** to confirm your settings.

Continuous record:	
Record from:	Primary stream
Record file name:	S
Suffix of file name:	Date time
	O Sequence number
	O Date time & record time length
Split time of record file:	3600 Seconds (10-86400)
Record period time:	
	Apply

[Record from] Select source stream that record from. [Record file name] Type record file name.

[Suffix of file name] Select suffix of file name.

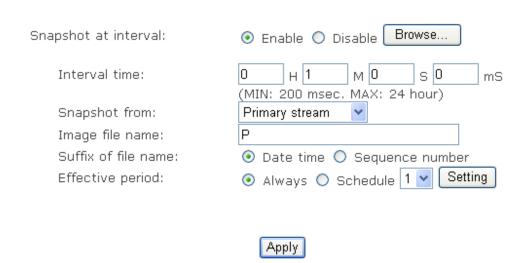
[Split time of record file] How many seconds does every recording file save video and audio.

[Record period time] Select record period time. If select schedule, click Setting to set schedule.

Snapshot at Interval

Snapshot at interval setup	
Snapshot at interval:	O Enable O Disable Browse
	Apply

[Snapshot at interval] enable or disable interval snapshot function



[Interval time] Type the interval at which you want to save snapshot to SD card periodically. [Snapshot from] Select stream that snapshot from. [Image file name] Type image file name.

[Suffix of file name] Select suffix of file name.

[Effective period] Select Effective period. If select schedule, click Setting to set schedule.

SD FTP Sending

This function is used for sending the files of SD card to FTP server.

Notice: when users visit the video, uploading will automatically interrupt, and will restart when users stop visit the video.

SD File FTP Sending	
SD File FTP Sending:	O Enable O Disable
	Apply

[SD File FTP Sending] enable or disable SD FTP sending function

SD File FTP Sending:	● Enable ○ Disable
FTP server ID: Remote path:	1 Setting
Sending period:	Always O Schedule Setting
File period:	 All files O Schedule 1 V Setting
FTP upload baudwidth:	64 Kb/sec (1-999999)
	Apply

[FTP server ID] Select one FTP server, click Setting to set FTP server.

[Remote path] Path where to save the file on the FTP server.

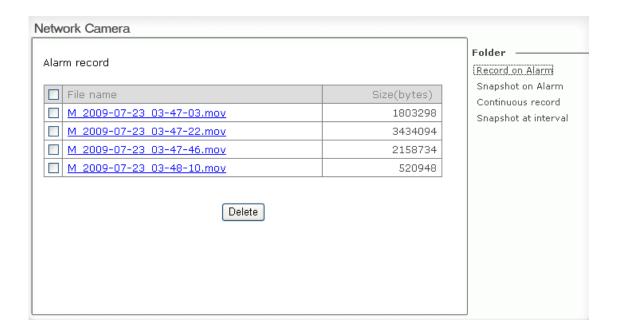
[Sending period] Select sending period. If select schedule, click Setting to set schedule.

[File period] Select the files which creation time is in period to sending. If select schedule, click **Setting** to set schedule.

[FTP upload bandwidth] Evaluate the uploading speed of FTP sending files.

Browse SD Card

When click **Browse** and see figure below,you can browse, download, delete the snapshot and recording files in it



Format SD Card

To format SD card, all files will be losted after format.

SD card format

SD card	
Status:	Inside
Total:	1872 MBytes
Used:	O MBytes
Available:	1872 MBytes

Format

Tools



System Identity

System identity

System Name: Network Camera

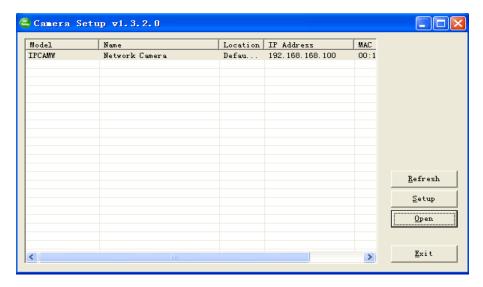
System Contact: Default Contact

System Location: Default Location

Apply

[System Name] Type a name to easily identify the camera.
[System Contact] Type the contact name of the administrator of the camera.
[System Location] Type the location of the camera.

TIP: The information you fill in can be displayed on the camera. It can help to distinguish different Network Cameras in the network. See figure below.



User Management

Camera user list





[Add] Up to 64 users (including the admin) can created

- 1. A maximum of 16 users are allowed to access the camera simultaneously.
- 2. As the number of simultaneously users increase, the overall performance will decrease. This is dependant on the Network bandwidth.

Adding users

- 1. Click Add on the Camera User List page.
- 2. Enter the User name, Password and re-confirm the password then click Add.

Add user

User name:	Allan
Password:	••••
Re-type password:	••••
	Add Back

To edit a user's password, click on the user name then enter the new password for that user twice and click **Save.** To delete a user, click on the user name then click **Delete**.

Date & Time

System time setting

Current device time:	09/01/2008 07:49:09	Time zone:GMT
Proposed device time:	09/01/2008 07:49:05	
Select to change the time zo	ne for the device location	on:
GMT+00:00 (Greenwich Mean Ti	me, London,)	~
Daylight saving time		
Date and time format:	O yy/mm/dd hh:mm:	SS
	O mm/dd/yy hh:mm:	SS
	• dd/mm/yy hh:mm:	SS
Auto time setting (SNTP)	● Enable ○ Disable	
Time server	time.nist.gov	
	e.g. time.nist.gov;ns.a	arc.nasa.gov
	Apply	

[Current device time] Internal time for camera.

[Proposed device time] PC system time. On clicking Apply the internal time of the camera will be changed to this time

[Select to change the time zone for the device location] choose proper time zone.

[Daylight saving time]Daylight Saving Time (or summertime as it is called in many countries) is a way of getting more light out of the day by advancing clocks by one hour during the summer.

[Date and time format] Select date and time format.

[Auto time setting(SNTP)] Enable or disable this function.

[Time server] Type one SNTP server name in the box.

Click **Apply** to confirm your settings.

Note

- 1. If the SNTP server is not found the camera's time will be synchronized with the PC time.
- 2. The camera has a built-in RTC(Real-time Clock) that keeps track of the time even when power is disconnected.

Backup or Reset

Backup or reset settings

Click Reset to erase the camera's configuration and restore the factory defaults.	Reset
Click Backup to save the camera's configuration to a file.	Backup
Restore the camera's configuration from a previously backed-up file.	Restore

[Reset] Click Reset to initialize the camera to default factory setting. All users and settings will be lost, requiring you to reconfigure the camera.

[Backup] Click Backup to backup the current configuration of the camera for future reference.

[Browse...] Click Browse... to search for a backup configuration you wish to upload to the camera, then click Restore.

Note:

Do not turn off the power during the Reset, Backup or Restore functions since this might corrupt the camera's firmware

Tip:

The camera can also be reset to the default settings by pressing the reset switch on the side of the camera.

Firmware Upgrade

From time to time a new firmware may be released. In order to upgrade your camera's firmware you first need to download this firmware from Network Camera Technical Support Site.

1. Click Continue.

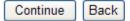
Firmware upgrade

Warning:

Upgrading the camera to a new firmware will erase your current configuration.

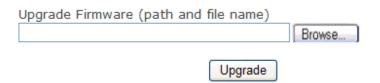
Current firmware version is: 2.28 (build 20080905)

To proceed click continue.



2. Click **Browse...** to search for the newest Firmware you downloaded, and then click **Upgrade**.

Firmware upgrade



3. Click Reboot when the upgrade terminates.

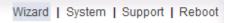
IMPORTANT:

* Do not unplug or power off the camera while the upgrade is in progress.

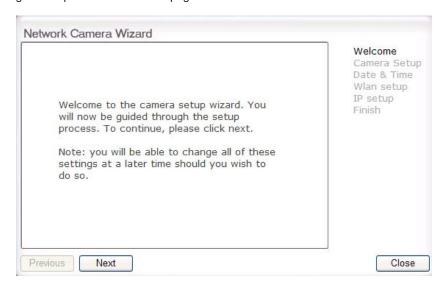
SPEEDREAD YOUR NETWORK CAMERA

Wizard

In order to facilitate the setup of the camera there is a **Wizard** that helps non technical users setup the camera easily. Click on Wizard at the top of the window to launch the wizard.



The Quick setup interface will pop up. Follow the simple instructions on the screen and enter the required details, clicking next to proceed to the **Next** page.



System

Click **System** to see over system information about your camera. The data of the software activity of the camera and recorded in this. It includes data that are useful when a problem occurs.

Wizard | System | Support | Reboot

Support

Click **Support** to see the support information

Wizard | System | Support | Reboot

Reboot

Click **Reboot** to restart the camera. Rebooting the camera will retain all the settings and configurations.

Wizard | System | Support | Reboot

Reboot camera

Reboot now?

Reboot

ADVANCED SETTINGS

Port Forwarding

The UPnP Setup of camera show a method of Port Forwarding (see page 31 for details), but some routers maybe can't support UPnP Port Forwarding, therefore, users need to configure Port Forwarding manually.

Firewall security features built into the router may prevent users from accessing the camera over the Internet. The router connects to the Internet over a series of "ports". The default ports used by the camera are usually blocked from access over the Internet, therefore, these ports need to be made accessible. This is achieved using the Port Forwarding function on the router. The ports used by the camera must be opened through the router for remote access to your camera. Check your router's user manual for specific instructions on how to open and route ports on you router.

Important: Some ISPs block access to port 80 and other commonly used Internet ports. Check with your ISP in order to open the appropriate ports. If your ISP does not pass traffic on port 80, you will need to change the camera's default port number from 80 to a different number such as 9000.

Viewing Your Camera

To access the camera from a computer on your local network, simply enter the IP Address of the Camera followed by a colon and the camera's port number. It is not necessary to enter the colon and port number if you are using the camera's default port 80.

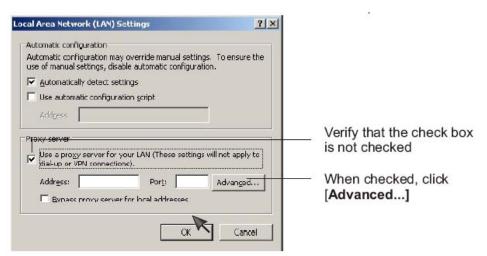
To access the camera from the internet, type the external IP Address of the router, followed by a colon, and the port number of your camera (e.g., Http://210.118.166.68:9000).

Proxy Server Setting

A proxy server may prevent you from connecting to the camera in some corporate environments. The web browser can set up the IP address communication without using a proxy server. Consult your ISP or network administrator for further details.

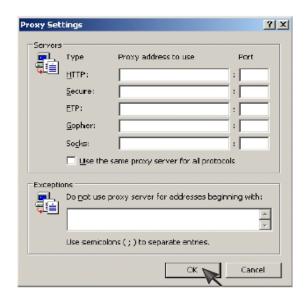
Note: A proxy server is generally used to maintain security on a network when connected to the internet. The proxy server may cause lack of image quality and delays in refresh intervals. Consult your ISP or network administrator for further details.

- 1. Start Internet Explorer.
- 2. Select [Tools] -> [Internet Options...] -> [Connections] tab and click [LAN Settings]. Verify that the Use a proxy server check box is not checked. When checked, click [Advanced...].



When not checked, click **[Cancel].** Your proxy server settings should not cause any problems.

3. Enter the IP address of your camera into the **Do not use proxy server for addresses beginning** with data field.



4. Click [OK] on all of the opened windows.

Reset the camera

There are two ways to reset the camera back to its factory defaults:

- 1. Press the **Reset** button on the side of the camera through the pin hole.
- 2. Through the camera setup under the heading **Backup or Reset** (see page 55 for details)

DEFAULT SETTINGS

Camera

Camera Setup		
Privacy mode	Off	
Moonlight mode	Off	
Image rotation	Off	
Light frequency	60Hz	
Microphone	Enable	
Mic Volume	10	
Audio Bit Rate	G. 726 (16kbps)	
	n Setup	
Primary stream	Enable	
Image size	640 x 480	
Frame rate	30fps	
MPEG4 bit rate	2048kbps	
MJPEG quality	50	
Snapshot quality	90	
Audio	Enable	
RTSP authentication	Enable	
Secondary stream	Disable	
Image size	320 x 240	
Frame rate	30fps	
MPEG4 bit rate	512kbps	
MJPEG quality	50	
Snapshot quality	90	
Audio	Enable	
RTSP authentication	Enable	
Mobile stream	Enable	
Image size	176 x 144	
Frame rate	10fps	
MPEG4 bit rate	64kbps	
Snapshot quality	70	
Audio	Disable	
RTSP authentication	Enable	
	Setup	
OSD	Disable	
Transparent	Enable	
Display	Display date and time	
	sion Setup	
Infrared LED control	Auto	
Black and white mode	Auto	

Network

Wireless Setup		
SSID	Wirelessnc	
Mode	Adhoc	
Security mode	Off	
TCP/IP Setup		
IP address	192.168.168.100	

Subnet Mask	255.255.255.0	
Default Gateway	Blank	
Primary DNS IP Address	Blank	
Secondary DNS IP Address	Blank	
HTTP Port	80	
RTSP port	554	
RTP port range	30000—30200	
Authentication method	Basic	
PPPoE Setup		
PPPoE Dial-up	Disable	
Service Name	Blank	
User Name	Blank	
Password	Blank	
Re-type Password	Blank	
DDNS Setup		
DNS	Disable	
Service provider	dtdns.com	
Host name	Blank	
User name	Blank	
Password	Blank	
Re-type password	Blank	
UPnP	Setup	
UPnP	Enable	
Gateway HTTP/RTSP port	Enable	
forwarding		
External HTTP/RTSP port	81508350	
range		
Gateway RTP port forwarding	Enable	
External RTP port range	3000030200	

Alarm

Motion Detection	
Window 1	Blank
Window 2	Blank
Window 3	Blank
Window 4	Blank
Schedule Setup	
Every day	Always
Alarm Sending	
Alarm mode	Arm
FTP alarm sending	Disable
Trigger time	5
Trigger FPS	1
FTP server ID	1
Remote path	Blank
Snapshot from	Primary stream
Image file name	M
Suffix of file name	Date time
Effective period	Always
e-Mail alarm sending	Disable
Trigger time	1
Trigger FPS	1
e-Mail server ID	1
File attachment	On

Snapshot from	Primary stream
Image file name	M
Suffix of file name	Date time
Effective period	Always
HTTP event alarm sending	Disable
HTTP server ID	1
Sending URL	Blank
Use MAC address as URL	Disable
suffix	2.000.0
Effective period	Always
Periodica	l Sending
FTP periodical sending	Disable
Interval time	0H 1M 0S 0mS
FTP server ID	1
Remote path	Blank
Snapshot from	Primary stream
Image file name	Р
Suffix of file name	Date time
Effective period	Always
e-Mail periodical sending	Disable
Interval time	0H 1M 0S 0mS
e-Mail server ID	1
File attachment	On
Snapshot from	Primary stream
Image file name	Р
Suffix of file name	Date time
Effective period	Always
HTTP periodical sending	Disable
Interval time	0H 1M 0S 0mS
HTTP server ID	1
Sending URL	Blank
Use MAC address as URL	Disable
suffix	
Effective period	Always
Buffer Sending	
Image buffer	Disable
Buffer time	20
Buffer FPS	4
Snapshot from	Primary stream
Image file name	Blank
Suffix of file name	Date time
FTP buffer sending	Disable
FTP server ID	1
Remote path	Blank
Estimate sending time	100
Effective period	Always

Alarm Server

FTP Server	
FTP server ID	1
FTP Server Name	Blank

ETD 0 D /	0.4	
FTP Server Port	21	
Anonymous	No	
User Name	Blank	
Password	Blank	
Re-type Password	Blank	
Passive Mode	On	
Keep alive	3600	
e-Mail Server		
e-Mail server ID	1	
SMTP Server Name	Blank	
SMTP Server Port	25	
Secure SSL connection	No	
Authentication	Yes	
User Name	Blank	
Password	Blank	
Re-type Password	Blank	
Sender E-Mail Address	Blank	
Receiver E-Mail Address	Blank	
	Blank	
	Blank	
Subject	Warning from Network	
ĺ	Camera	
Message	Blank	
HTTP Server		
HTTP server ID	1	
HTTP server name	Blank	
HTTP server port	80	
Authorization	No	
User Name	Blank	
Password	Blank	
Re-type Password	Blank	

Tools

System Identity		
System Name	Network Camera	
System Contact	Default Contact	
System Location	Default Location	
User Management		
1	Admin/Administrators	
Date & Time		
Current Device Time	Current PC Time	
Time Zone	GMT	
Proposed Device Time	Current PC Time	
Daylight saving time	Disable	
Date and time format	dd/mm/yy hh:mm:ss	
Auto Time Setting (SNTP)	Enable	
Time Server	Time.nist.gov	
Misc Setup		
LED Control	On	
Show FPS in Active Control	Off	

SPECIFICATIONS

Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Camera	
White Balance Auto Exposure mode Auto Gain Auto Gain Auto Viewing angle Horizontal:60°, Vertical:45.0° Focal length f=3.6mm Aperture F2.0 Min.llumination 1.0 Lux Infrared LED 30 Night Vision Distance 12m Network Image compression Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @40x480 Aduio compression G.726 (40/32/24/16kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPDeE,UPP,DNS Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency Frequency 2.412.2.462GHz Transmission speed 54Mbps/22Mbp	Image device	1/4" CMOS
Exposure mode	Pixels	310000
Gain Auto Viewing angle Horizontal:60°, Vertical:45.0° Focal length f=3.6mm Aperture F2.0 Min.Ilumination 1.0 Lux Infrared LED 30 Night Vision Distance 12m Network MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression G.726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPDE,UPP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless LAN Wireless LAN Wireless LAN Wireless Lechnology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security	White Balance	Auto
Viewing angle Horizontal:60°, Vertical:45.0° Focal length f=3.6mm Aperture F2.0 Min.llumination 1.0 Lux Infrared LED 30 Night Vision Distance 12m Network Image compression MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression G. 726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPOE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 35mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Exposure mode	Auto
Focal length f=3.6mm Aperture F2.0 Min.llumination 1.0 Lux Infrared LED 30 Network Image compression MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPDE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5to 445 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories PC sessor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Gain	Auto
Focal length	Viewing angle	Horizontal:60°, Vertical:45.0°
Min.Ilumination 1.0 Lux Infrared LED 30 Night Vision Distance 12m Network Image compression MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression G.726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements Power requirements C to 45° C (+22 to +113°F) Storage temperature -5 to +45° C (+22 to +113°F)	Focal length	
Infrared LED 30 Night Vision Distance 12m Network Image compression MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Max. frame rate 30fps @640x480 Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPDE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher	Aperture	F2.0
Night Vision Distance 12m Network Image compression MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression G.726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless LaN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC System requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher	Min.llumination	1.0 Lux
Network Image compression MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression G.726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPOE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Infrared LED	30
Image compression MPEG-4 MJPEG Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression G.726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Night Vision Distance	12m
Image resolution 640x480(VGA), 320x240(QVGA), 160x120(QQVGA) Max. frame rate 30fps @640x480 Aduio compression G.726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless Lechnology Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1)	Network	
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Aduio compression G.726 (40/32/24/16Kbps) AMR Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Image resolution	640x480(VGA), 320x240(QVGA), 160x120(QQVGA)
Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 95%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Max. frame rate	30fps @640x480
Built-in microphone Electret Condenser Microphone Simultaneous viewers 16 Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 95%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Aduio compression	G.726 (40/32/24/16Kbps) AMR
Authentication ID/Password, Administrator/General User (Up to 64) Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Built-in microphone	
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Network protocols TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDN Stream type HTTP, RTSP/RTP/RTCP, 3GPP Network connection Ethernet (10BASE-T/100BASE-TX) Wireless LAN Wireless technology IEEE802.11b/g Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 95%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Authentication	ID/Password, Administrator/General User (Up to 64)
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Frequency 2.412-2.462GHz Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Wireless LAN	
Transmission speed 54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch) Security WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP) General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Wireless technology	IEEE802.11b/g
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General Power requirements DC 5V Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Transmission speed	54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch)
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Power consumption 3.75W Operating temperature -5 to +45 °C (+22 to +113 °F) Storage temperature -20 to +60 °C (-4 to +140 °F) Operating humidity 20 to 80%RH(Non-condensing) Storage humidity 20 to 95%RH(Non-condensing) Dimensions(W x D x H) 85mm x 85mm x 30mm Weight 150g(Main Body) Supplied accessories AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1) PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	General	
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PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Weight	150g(Main Body)
PC system requirements Operating system Windows 2000/XP/VISTA Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	Supplied accessories	AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1)
Processor Intel Pentium III, 1GHz or Higher Memory 256MB RAM Minimum	PC system requirements	
Memory 256MB RAM Minimum		Windows 2000/XP/VISTA
Memory 256MB RAM Minimum	Processor	Intel Pentium III, 1GHz or Higher
Will Control to the Control of the C	Memory	
Web browser Microsoft Internet Explorer Version 5.5 or Later	Web browser	Microsoft Internet Explorer Version 5.5 or Later

Note: Only IPCAMW is include Infrared LED and Night Vision Distance.

TROUBLESHOOTING

If the Network Camera is not working properly, these suggestions might help you identify the problem. If the problem persists check the support pages on Network Camera Technical Support Site.

Problem	Cause and Remedy
Forget the IP address of network camera.	Use Camera Setup. Use UPNP (for XP/Vista OS) PPPoE IP Notification can send e-mail to your mailbox Reset your Network to default IP address
Forget the password to access the setting interface.	Initialize the network camera by pressing the RESET button. Note that all configuration settings will be lost.
Wireless communication does not work.	Signal strength is weak. Relocate the camera or remove the obstacle around it. Make sure the SSID and Encryption settings are identical. Check for any interference from other equipment.
The picture viewing interface does not appear.	1. Check that your internet explorer settings allow you to download and install ActiveX controls. 2. Maximum 16 users are allowed to access the camera simultaneously through network. 3. Network traffic may prevent the viewing interface from appearing quickly. Wait for a while.
The color of the picture is strange.	Confirm the color setting of PC is 16 bits or more.
The unreadable characters are displayed.	Set the Encoding or the Character Set of the selected language on the web browser.

GLOSSARY OF TERMS

- **1. Network Camera:** A stand-alone device which allows users to view live, full motion video from anywhere on a computer network, even over the Internet, using a standard web browser.
- 2. JPEG: A standard image format, used widely for photographs, also known as JPG.
- **3. IEEE 802.11b/g:** The specifications developed by the IEEE for wireless network technology. It provides 11 Mbps transmission in the 2.4GHz band usage.
- **4. WEP:** Wireless Equivalent Privacy. A security protocol for wireless network defined in the IEEE 802.11b/g standard. WEP aims to provide security by encrypting data over radio waves so that it is protected as it is transmitted from one end point to another.
- **5. Adhoc Mode:** A wireless network system in which devices communicate directly with each other, without the use of a wireless router.
- **6. Infrastructure Mode:** One of the wireless network system in which devices communicate with each other by first going through the wireless router.
- **7. IP Address:** The unique 32 bit number assigned to each computer connected to the Internet. IP numbers are used by the TCP/IP protocol to route packets of data to their destinations.
- **8. TCP/IP:** The collection of "protocols" underlying the functioning of the Internet. Each computer connected to the Internet is identified by a unique IP Address.
- 9. SMTP: Simple Mail Transfer Protocol.
- **10. FTP:** File Transfer Protocol. Network cameras equipped with an embedded operating system, such as Linux, can use FTP to send images to a website.
- **11. DHCP:** Dynamic Host Configuration Protocol is a set of rules used by communications devices such as a computer, router or network adapter to allow the device to request and obtain an IP address from a server which has a list of addresses available for assignment.
- **12 UPnP:** Universal Plug and Play is an architecture for pervasive peer-to-peer network connectivity of intelligent appliances and wireless devices.
- **13. DDNS:** DDNS is a method of keeping a domain name linked to a dynamic IP address with your Network Camera. You can set up your DDNS service and the device will automatically update your DDNS server each time it alter a different IP address.
- **14. Time server:** A time server consists of a computer networking device that reads the actual time from a reference clock and distributes this information to its clients using a computer network.
- **15. WPA:** Wi-Fi Protected Access (WPA and WPA2) is a class of systems to secure wireless (Wi-Fi) computer networks. WPA implements the majority of the IEEE 802.11i standard, and was intended as an intermediate measure to take the place of WEP while 802.11i was prepared.

EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



IPCAM2008-0902(1010V1)BLD0825

FCC WARNING

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

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This device must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: The manufacturer is not responsible for any changes or modifications not expressly approved by the manufacturer for compliance, such modifications could void the user's authority to operate the equipment.