

User's Manual

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;
3. 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/n) 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.

Simultaneous High-Speed H.264, MPEG-4 and Motion JPEG

The camera allows live the MPEG-4 and Motion JPEG streams simultaneously. The camera features H.264/MPEG4 compression which compresses the video to make transmission faster and more efficient. The H.264/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.

3G card slot

Fluently view the camera via 3G network. Perfect for viewing on farm area, mine field and pasture.

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.

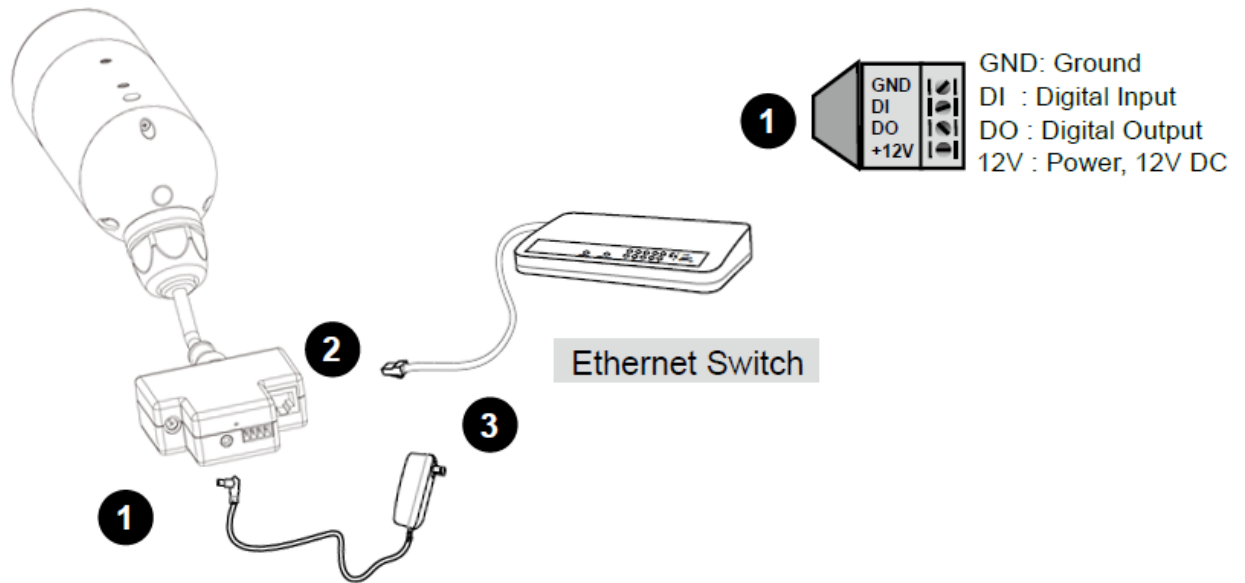
- | | |
|--------------------------|--|
| 1. Processor: | Intel Pentium III, 1GHz or Higher (Pentium IV, 2 GHz or Higher recommended) |
| 2. RAM: | 256 MB or more |
| 3. Color Monitor: | Suggest at least 800x600 and the latest driver for the Display Adapter |
| 4. OS(Operating System): | Windows 2000/XP/Vista |
| 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

Setting up the Network Camera over the Internet

This section explains how to configure the Network Camera to an Internet connection.

1. If you have external devices such as sensors and alarms, make the connection from the general I/O terminal block.
2. Use the supplied RJ45 female/female coupler to connect the Network Camera to a switch. use Category 5 Cross Cable when Network Camera is directly connected to PC.
3. Connect the power cable from the Network Camera to a power outlet.



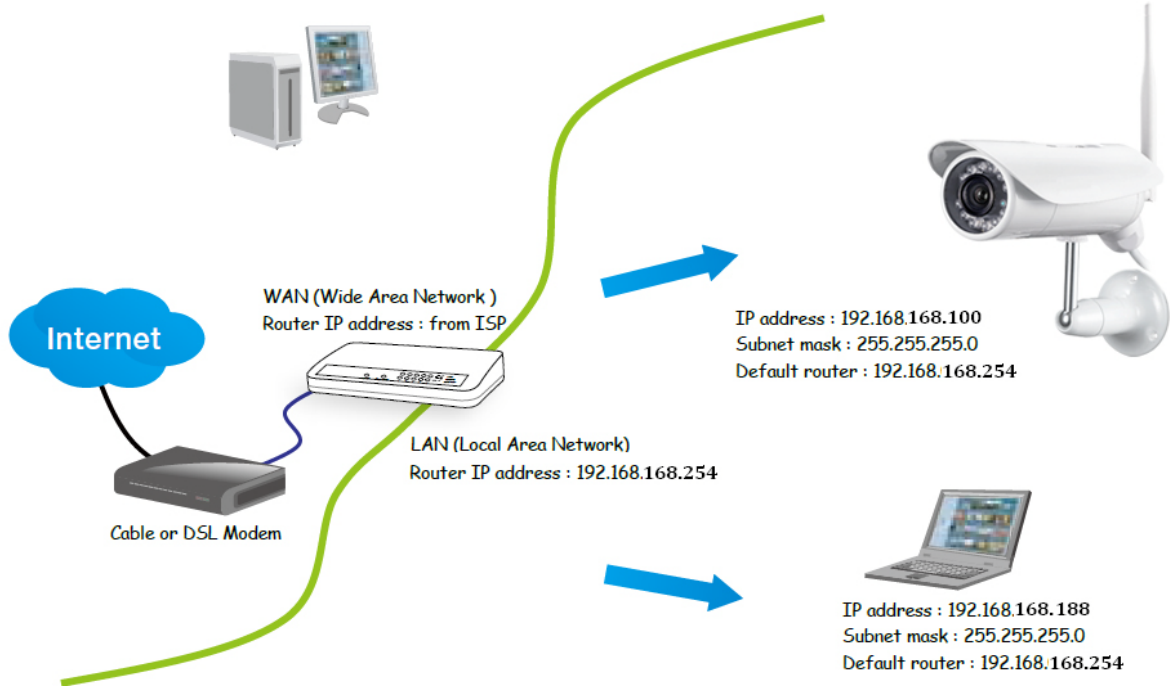
There are several ways to set up the Network Camera over the Internet. The first way is to set up the Network Camera behind a router. The second way is to utilize a static IP. The third way is to use PPPoE.

Internet connection via a router

Before setting up the Network Camera over the Internet, make sure you have a router and follow the steps below.

1. Connect your Network Camera behind a router, the Internet environment is illustrated below.

Regarding how to obtain your IP address, please refer to on page 20 for details.



2. In this case, if the Local Area Network (LAN) IP address of your Network Camera is 192.168.168.100, please forward the following ports for the Network Camera on the router.

- HTTP port
- RTSP port
- RTP port for audio
- RTCP port for audio
- RTP port for video
- RTCP port for video

If you have changed the port numbers on the Network page, please open the ports accordingly on your router. For information on how to forward ports on the router, please refer to your router's user's manual.

3. Find out the public IP address of your router provided by your ISP (Internet Service Provider). Use the public IP and the secondary HTTP port to access the Network Camera from the Internet. Please refer to Network Type on page 34 for details.

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.



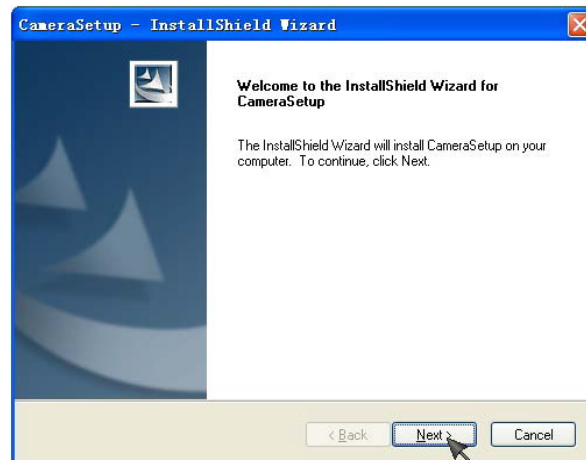
Camera Setup Installation & Usage

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.

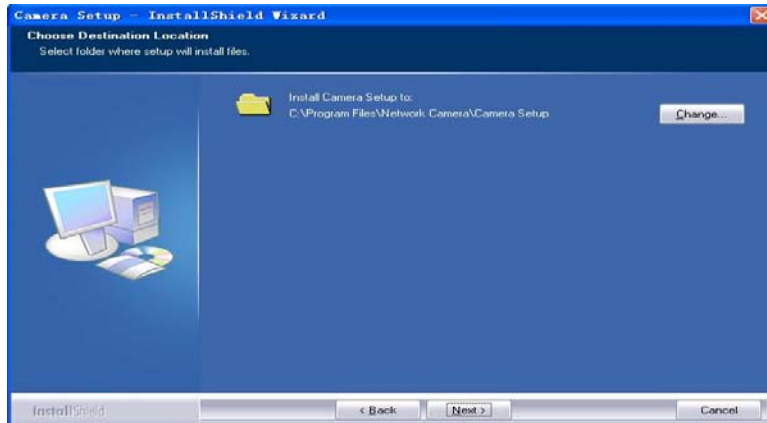
1. Insert the Installation CD into your CD-ROM drive and the installation screen should appear automatically (See image below). If it does not, click "Start" then "Run". In the text field enter "D:\autorun.exe" (if "D:" is the letter of your CD-ROM Drive)



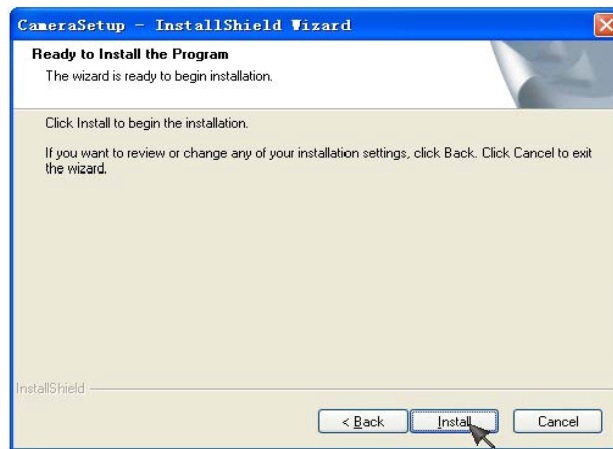
2. Click on "Install Camera Setup" and the following screen will be displayed.




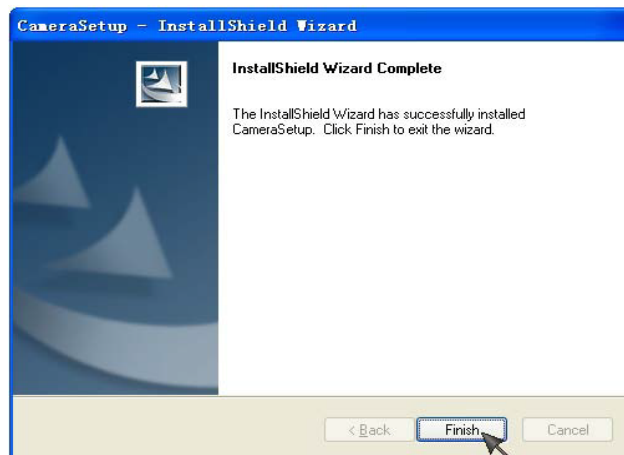
3. If you want to change the default folder click "Change" to replace otherwise click "Next"



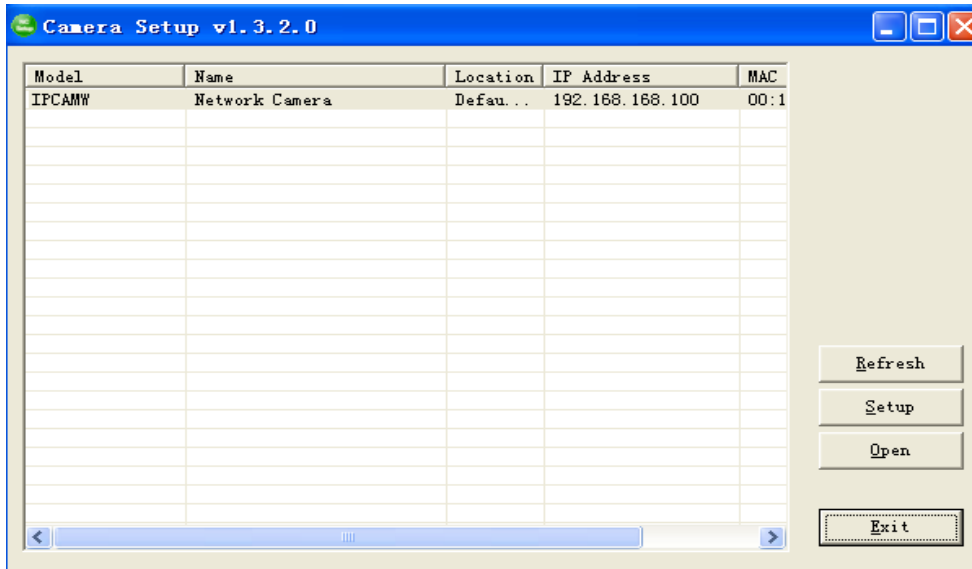
4. Click **Install** to install **Camera Setup**.



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

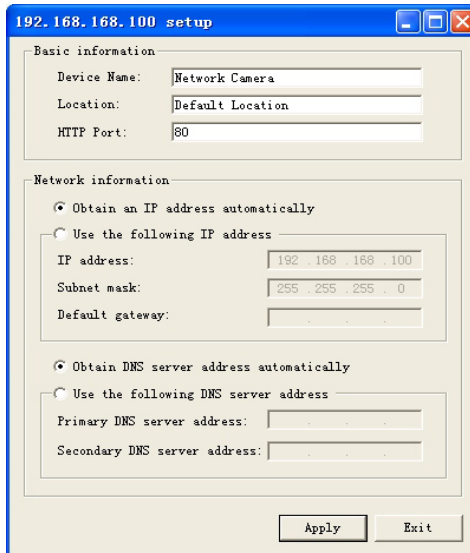
[Open] Select the required camera and click **Open** to access the camera via a web browser.

[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.*

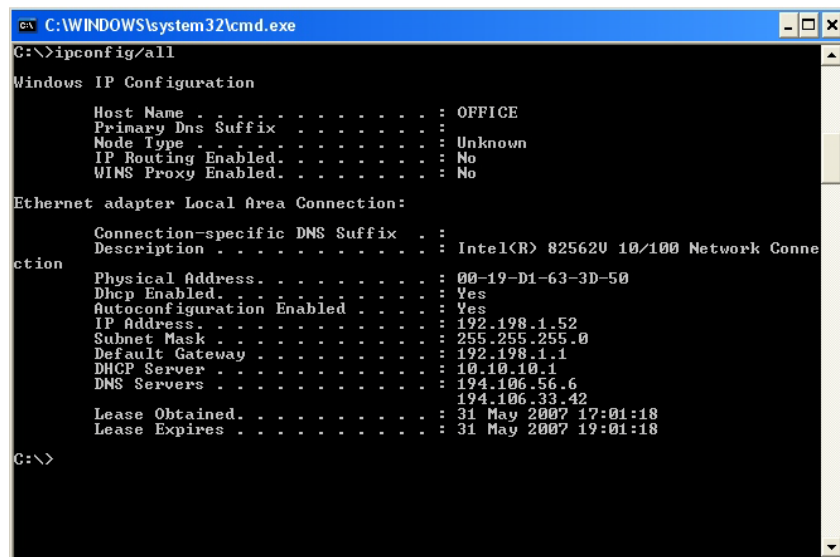
Assigning an IP address to the Camera with Camera Setup

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”. This 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.



```
C:\WINDOWS\system32\cmd.exe
C:\>ipconfig/all

Windows IP Configuration

    Host Name . . . . . : OFFICE
    Primary Dns Suffix . . . . . :
    Node Type . . . . . : Unknown
    IP Routing Enabled. . . . . : No
    WINS Proxy Enabled. . . . . : No

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . . :
    Description . . . . . : Intel(R) 82562U 10/100 Network Connection
    Physical Address. . . . . : 00-19-D1-63-3D-50
    Dhcp Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . . : Yes
    IP Address. . . . . : 192.198.1.52
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.198.1.1
    DHCP Server . . . . . : 10.10.10.1
    DNS Servers . . . . . : 194.106.56.6
                           194.106.33.42
    Lease Obtained. . . . . : 31 May 2007 17:01:18
    Lease Expires . . . . . : 31 May 2007 19:01:18

C:\>
```

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 192.168.168.100. This 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.

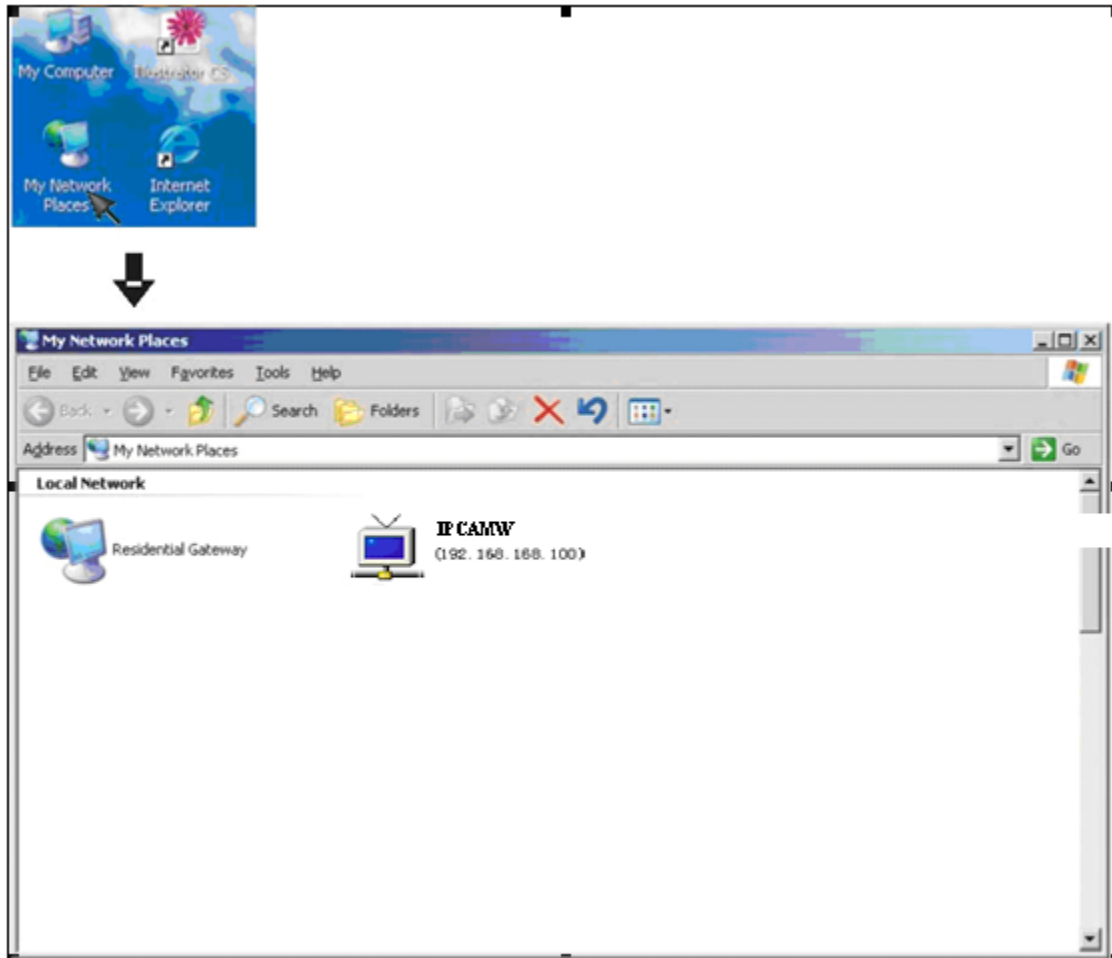


The general users assigned by the administrator are not allowed to enter the system setting interface. They can only be permitted to enter the picture viewing interface.

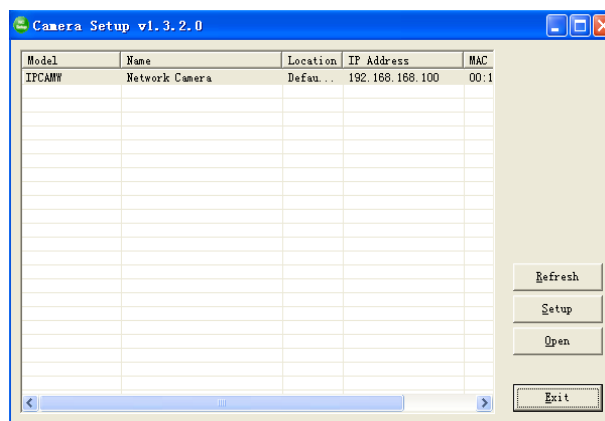


IPCAMW
(192.168.168.100)

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.

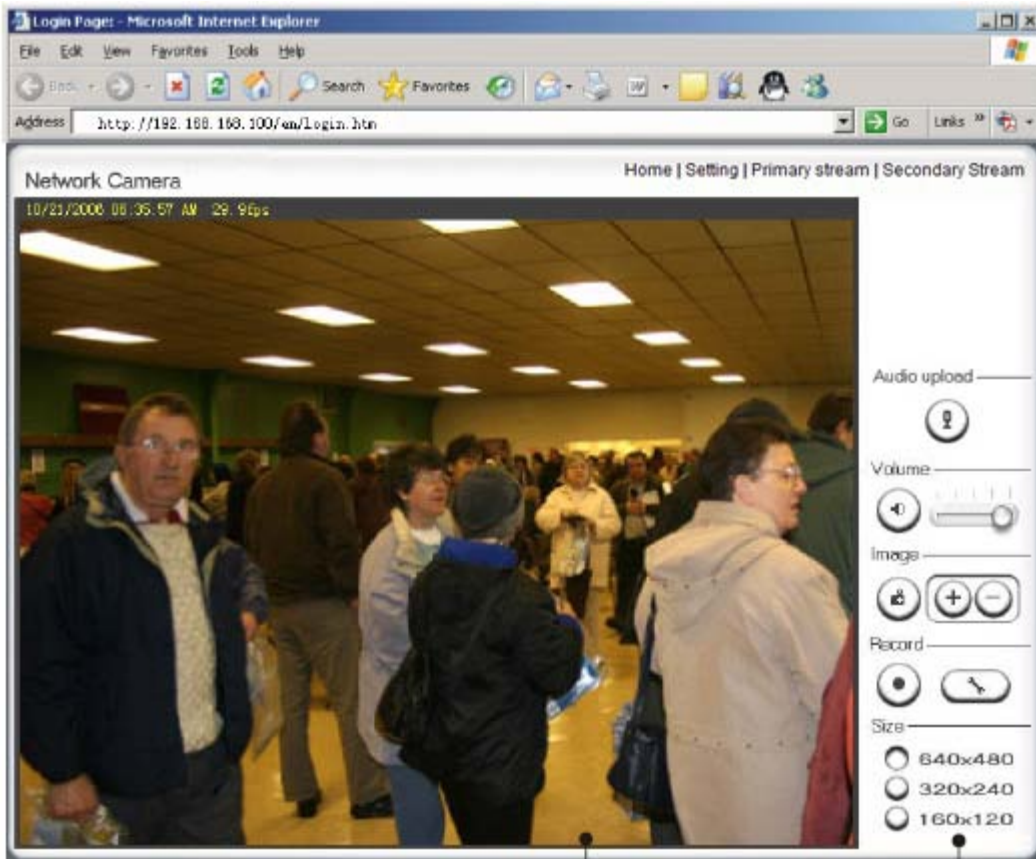


Image Field

Operating Bar

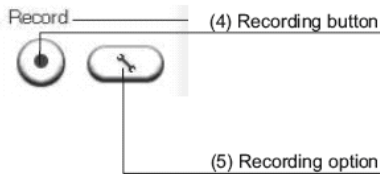


(1) Mute

- 1.1) **Audio Upload:** Upload the audio that captured from PC.
- 1.2) **Adjust the Volume of the camera.**

(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.

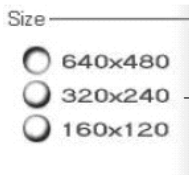


(4) Recording:

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 recording 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 devices.

View in the mobile website browsers.

Warning: Using URL to view the camera should cancel the 3G function.

Input "DDNS + /mobile" For example "183.14.122.239:8150/mobile".
Then you can view fluent videos or images which change every 3 seconds.

iOS requires iOS4.3 version or later.
Android OS requires version2.3 or later.

View on iPhone, iPad, Android devices.

View on Android

Install software "P2PCam 264"
Open it, you'll see:



Type the **UID** or **Scan the UID**. Input **password**, and **name**. Then click "Save".



For snapshots For hearing the voice
 For back to manu.

View on iPhone, iPad

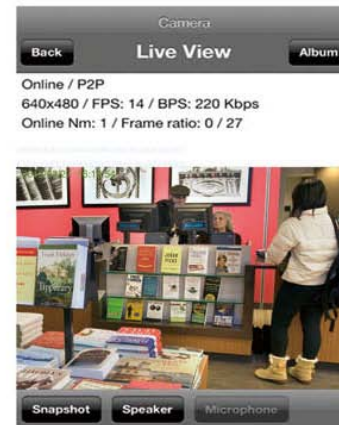
Install software "P2PCam 264"
Open it, you'll see:



Click "QRCode" to scan **UID**.
Click "Add" to manually input **UID**.



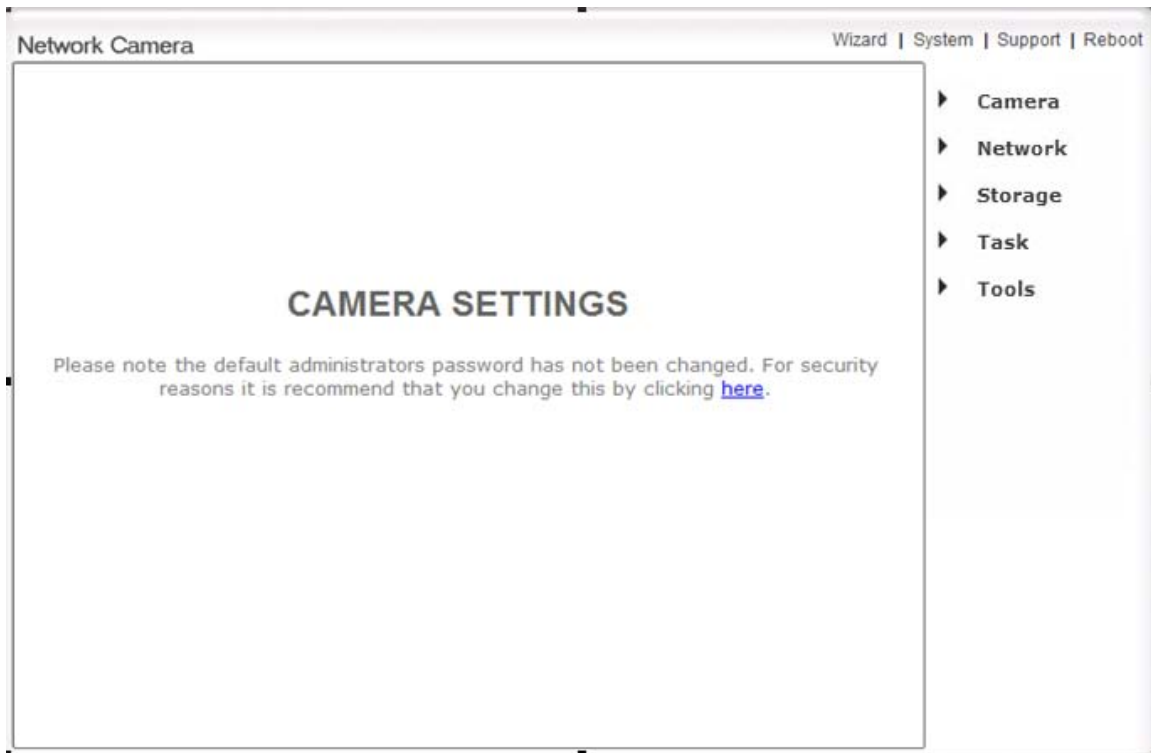
Input "UID" and "Password".
Then you'll see:



"Snapshot" for getting pictures.
"Speaker" for hearing the voice.

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

User name:	admin
Password:	●●●●●
Re-type password:	●●●●●

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	Group
1	admin	Administrators

Add

Camera

▼ Camera

Camera Setup

Stream Setup

OSD Setup

Night Vision 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 Setup

System:

- Enable privacy mode
- Disable power LED light

Camera:

Light frequency:

- Enable image mirror
- Enable image flip vertical

Microphone: Enable Disable

Volume:

Speaker: Enable Disable

Volume:

[Enable privacy mode] Videos will not be seen.

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

[Microphone] Enable or disable the microphone.

[Speaker] Choose to allow speaker function. And choose the volume of the speaker.

Click **Apply** to confirm your settings.

Stream Setup

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

Stream Setup

Primary stream:

Preset:	Please choose bandwidth status... ▾
Image size:	640x480 ▾
Frame rate:	30 ▾ fps
H.264/MPEG4 bitrate:	2048 ▾ kbps
MJPEG quality:	50 (20-100)
JPEG snapshot quality:	90 (20-100)
Audio:	AAC-LC 16kbps ▾
Authentication:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Secondary stream:

Preset:	Please choose bandwidth status... ▾
Image size:	320x240 ▾
Frame rate:	10 ▾ fps
H.264/MPEG4 bitrate:	256 ▾ kbps
MJPEG quality:	50 (20-100)
JPEG snapshot quality:	90 (20-100)
Audio:	AAC-LC 16kbps ▾
Authentication:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

Mobile stream:

Preset:	Please choose mobile bandwidth... ▾
Image size:	176x144 ▾
Frame rate:	6 ▾ fps
H.264/MPEG4 bitrate:	30 ▾ kbps
JPEG snapshot quality:	70 (20-100)
Audio:	AAC-LC 16kbps ▾
Authentication:	<input checked="" type="radio"/> Enable (For PC) <input type="radio"/> Alternate (For Windows Mobile) <input type="radio"/> Disable (For other mobiles)

Apply

[Image size] Three image resolutions available: 640 x 480(VGA), 320 x 240(QVGA), 160 x 120.

[Frame rate] Twelve options: 1/2/3/4/5/6/8/10/15/20/25/30 frames per second (fps).

[H.264/MPEG4 bit rate] Select H.264/MPEG4 bit rate.Eight options: 64, 128, 256, 512, 768, 1024, 1536, 2048 (kbps).

[JPEG quality] Type MJPEG video quality. (20 – 100), 20 is low quality, 100 is high quality.

[Audio] Enable or disable audio.

[Authentication] Enable or disable.

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 H.264 stream:	rtsp://192.168.168.215/live/0/h264.sdp
RTSP MPEG4 stream:	rtsp://192.168.168.215/live/0/mpeg4.sdp
RTSP MJPEG stream:	rtsp://192.168.168.215/live/0/mjpeg.sdp
RTSP audio stream:	rtsp://192.168.168.215/live/0/audio.sdp
HTTP M3U8 stream:	http://192.168.168.215/live/0/h264.m3u8
HTTP MJPEG stream:	http://192.168.168.215/live/0/mjpeg.jpg
HTTP ASF stream:	http://192.168.168.215/live/0/mpeg4.asf
HTTP snapshot image:	http://192.168.168.215/live/0/jpeg.jpg
Internet stream URL	
UPnP port forwarding is not enabled, or Gateway does not support UPnP.	

[Back](#)

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.

OSD Setup

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

On Screen Display Setup

OSD: Enable Disable

Transparent
 Display date and time
 Display system name
 Display the text

[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] OSD is user-defined text.

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:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> Off
Black and white mode:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> Off
Moonlight mode:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> Off
IR cut filter control:	<input checked="" type="radio"/> Auto	<input type="radio"/> On	<input type="radio"/> 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.

[IR cut filter control] Click to choose Auto, on or off.

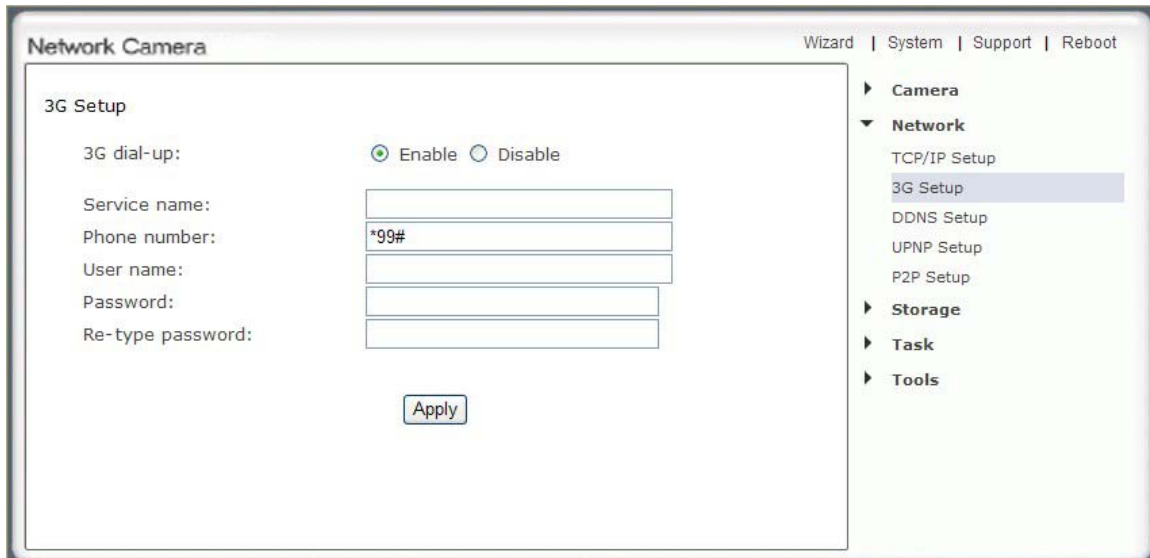
Click **Apply** to confirm your settings.

Network



Warning: Using URL to view the camera should cancel the 3G function.

3G Setup

A screenshot of the "3G Setup" configuration screen in a "Network Camera" interface. The screen has a title bar with "Network Camera" on the left and "Wizard | System | Support | Reboot" on the right. The main content area is titled "3G Setup" and contains the following fields and controls:

- "3G dial-up:" with radio buttons for "Enable" (selected) and "Disable".
- "Service name:" with an empty text input field.
- "Phone number:" with a text input field containing "*99#".
- "User name:" with an empty text input field.
- "Password:" with an empty text input field.
- "Re-type password:" with an empty text input field.
- An "Apply" button at the bottom center.

On the right side of the screen, there is a sidebar menu with the following items:

- ▶ Camera
- ▼ Network
 - TCP/IP Setup
 - 3G Setup (highlighted)
 - DDNS Setup
 - UPNP Setup
 - P2P Setup
- ▶ Storage
- ▶ Task
- ▶ Tools

[Enable] Choose Enable or Disable

[Service name] Input the APN.

[Phone number] Input the phone number. Ask the 3G service company to provide.

[Service name] Input the service name.

[User Name] Input the User name.

[Password] Input the password.

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

The APN, phone number, user name and password is different from 3G service companies.

Finally click **Apply** to confirm your setting.

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

- Obtain an IP address automatically(DHCP)
- Use the following IP address

- Obtain DNS Server address automatically
- Use the following DNS server address

HTTP/RTSP port:

RTP port range:

--

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.

DDNS Setup

Warning: Using URL to view the camera should cancel the 3G function.

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 setup

DDNS: Enable Disable

Service provider: [Register](#)

Host name:

User name:

Password:

Re-type password:

[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.

*** Dynamic DNS setup successfully!**

DDNS setup

DDNS: Enable Disable

Service provider: [Register](#)

Host name:

User name:

Password:

Re-type password:

UPNP Setup

Warning: Using DDNS to view the camera should cancel the 3G function.

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:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Gateway HTTP/RTSP port forwarding:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
External HTTP/RTSP port range:	<input type="text" value="8150"/> -- <input type="text" value="8350"/>
Gateway RTP port forwarding:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
External RTP port range:	<input type="text" value="30000"/> -- <input type="text" value="30200"/>

Note: RTP port range can't be changed here, you should change it in TCP/IP setup page.

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.

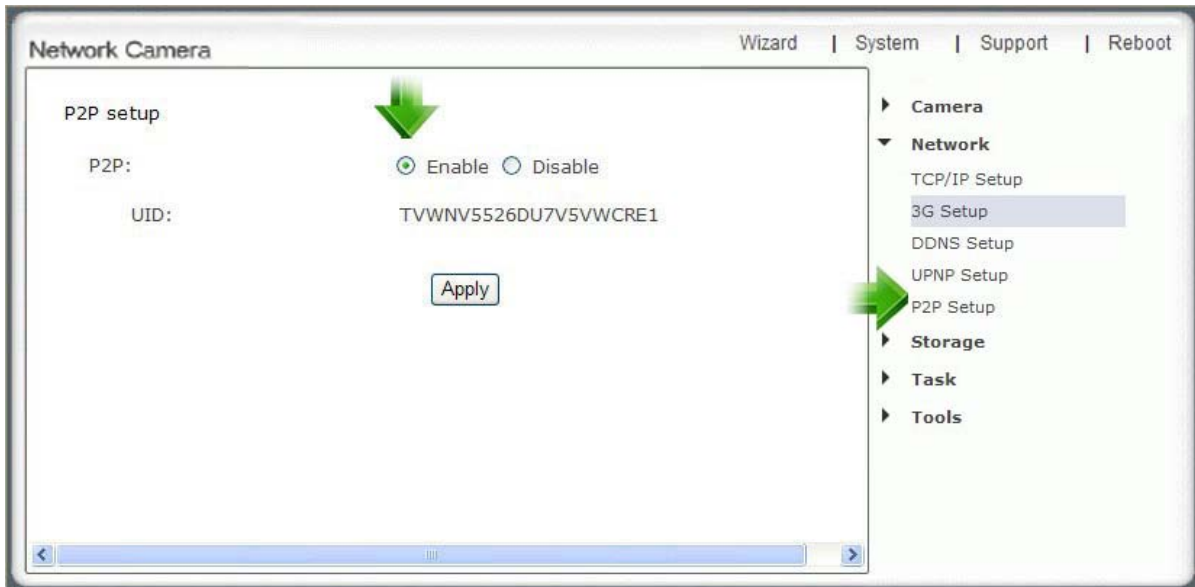
System Information

System	
Model:	NC316G
System up time:	0 Days 00:17:16
BIOS/Loader version:	2.1 (build 0002)
Firmware version:	5.17 (build 20120815)
ActiveX Control version:	1,2,6,1
MAC address:	78:12:b8:a0:03:25 (7812B8A00325)
Ethernet	
Status:	Connected
IP mode:	Dynamic
IP address:	192.168.168.224
Subnet mask:	255.255.255.0
Default gateway:	192.168.168.1
3G	
Status:	No connection
DNS Server	
Primary DNS IP address:	192.168.168.1
Secondary DNS IP address:	
DDNS	
Status:	Disable

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

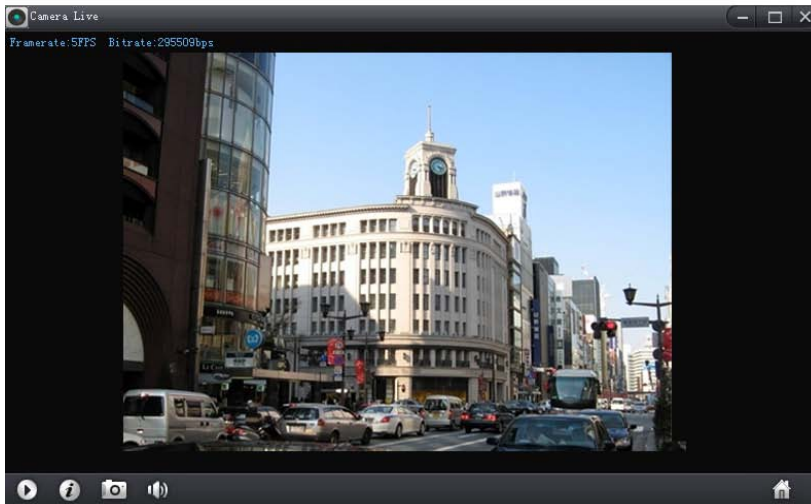
UPNP port forwarding	
Status:	Success
Gateway external IP address:	119.122.167.202
Gateway external port:	8153
Internet URL:	http://119.122.167.202:8153
P2P	
UID:	UFSSU97U6HER94VW8REJ
Status:	Success
Internet Connection	
Status:	Connected
Storage	
Status:	Not ready
Store to:	SD card
Current users	

P2P Setup

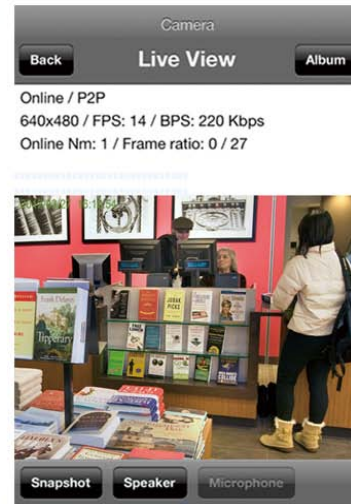


Click P2P Setup, then click Enable and apply to add P2P functions.
Now we can use P2P to view cameras on PC or iPhone, iPad and Android.
Only need to input **UID** and **password**.
Take viewing on PC and iPhone for example.

View on PC



iPhone



Storage

- ▼ **Storage**
 - Storage Setup
 - Browse Storage
 - Format SD Card

Storage Setup

Storage Setup

Storage: Enable Disable

Store to: NAS SD card

Store directory:

Max Space: ▼

Max files: ▼

[Storage] Select Enable

[Store to] NAS or SD Card

[Store directory] The file that Videos will be saved to.

[Max Space] Unlimited (The capacity of all videos)

[Max files] The Max quantity of all the videos.

Click **Apply** to confirm your setting.

Store to NAS

Store to: NAS SD card

NAS remote path:
(Example: //192.168.168.50/ipcam_files)

Authorization: Yes No

User name:

Password:

Re-type password:

[Store to] Select NAS

[NAS remote path] IP address of the NAS. Example://192.168.168.50/ipcam_files

[Authorization] Select Yes

[User name] Input the NAS user name.

[Password] Input NAS password

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

Click **Apply** to confirm your setting.

Browse Storage

When click **Browse Storage** and you can browse, download, delete the snapshot and recording files in it.

Browse Storage

No.	Directory	Files
1	All	SD card is not ready, please wait...
2	Snapshot on Alarm	0
3	Snapshot at Interval	0
4	Record on Alarm	0
5	Continuous Record	0

Format SD Card

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

SD Card Format

Storage	
Status:	Not ready
Store to:	SD card

Format

Task

▼ Task

- Motion Detection
- Digital I/O Setup
- Schedule Setup
- Task 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.

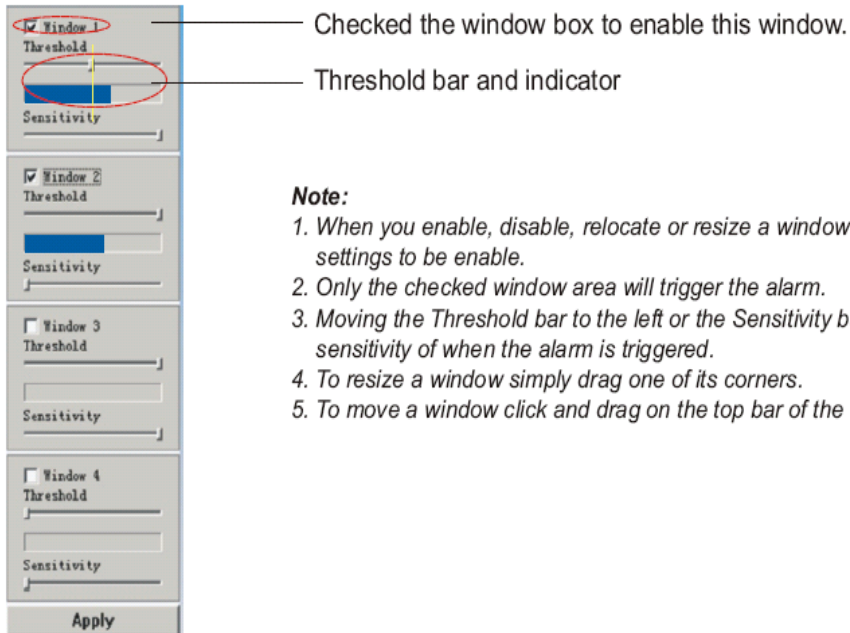


[Window] Check this box to enable the window.

[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.



Note:

1. When you enable, disable, relocate or resize a window click **Apply** 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).

Digital I/O Setup

Digital I/O Setup

Digital input:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Digital input's active state is:	<input checked="" type="radio"/> Low <input type="radio"/> High
Digital output:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Digital output's active state is:	<input type="radio"/> Open <input checked="" type="radio"/> Grounded

Apply

[Digital input] Select Enable or Disable.

[Digital input's active state is] Select Low or High.

[Digital output] Enable or Disable.

[Digital output's active state is] Open or Grounded.

Click **Apply** to confirm your setting.

Schedule Setup

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

Schedule setup

<input type="checkbox"/> Every day	Always	Start time	0	:	0	End time	24	:	0
<input type="checkbox"/> Sunday	Range	Start time	0	:	0	End time	24	:	0
<input type="checkbox"/> Monday	Range	Start time	0	:	0	End time	24	:	0
<input type="checkbox"/> Tuesday	Range	Start time	0	:	0	End time	24	:	0
<input type="checkbox"/> Wednesday	Range	Start time	0	:	0	End time	24	:	0
<input type="checkbox"/> Thursday	Range	Start time	0	:	0	End time	24	:	0
<input type="checkbox"/> Friday	Range	Start time	0	:	0	End time	24	:	0
<input type="checkbox"/> Saturday	Range	Start time	0	:	0	End time	24	:	0












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.

Task Management

Task Management

No.	Enable	Schedule	Task
1	<input type="checkbox"/>	Always 	Email alarm sending
2	<input type="checkbox"/>	Always 	Email periodic sending
3	<input type="checkbox"/>	Always 	FTP alarm sending
4	<input type="checkbox"/>	Always 	FTP periodic sending
5	<input type="checkbox"/>	Always 	HTTP alarm sending
6	<input type="checkbox"/>	Always 	HTTP periodic sending
7	<input type="checkbox"/>	Always 	Snapshot to storage on alarm
8	<input type="checkbox"/>	Always 	Snapshot to storage periodically
9	<input type="checkbox"/>	Always 	Record to storage on alarm
10	<input type="checkbox"/>	Always 	Record to storage continuously
11	<input type="checkbox"/>	Always 	Send files in storage to FTP server

Apply

E-mail alarm sending

Email Alarm Sending

Snapshot from:	Primary stream <input type="button" value="v"/>
Snapshot duration:	1 <input type="text"/> seconds (1-20)
Snapshot frame rate:	1 <input type="button" value="v"/> fps
Alarm interval:	0 <input type="text"/> seconds (0-86400 0:continuous)
SMTP server name:	<input type="text"/>
SMTP server port:	25 <input type="text"/>
Secure SSL connection:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	<input type="text"/>
Password:	<input type="text"/>
Re-type password:	<input type="text"/>
Sender mail address:	<input type="text"/>
Receiver mail address:	<input type="text"/>
	<input type="text"/>
Subject:	Warning from Network Camera
Message:	<input type="text"/>

[Snapshot from] Select Primary stream

[Snapshot duration] Input the number of seconds

[Snapshot frame rate] Select the frame

[Alarm interval] Input the interval time

[SMTP server name] Input your E-mail's SMTP server name.

[SMTP server port] 25, as default.

[Secure SSL connection] Select No. For Gmail, select Yes. It depends on the mail system.

[Authentication] Select Yes

[User name] Input your E-mail user name.

[Password] Input your E-mail password.

[Sender mail address] Input the sender mail address

[Receiver mail address] Input the receiver mail address.

Click **Apply** to confirm your setting.

E-mail Period Sending

Email Periodic Sending

Period interval:	<input type="text" value="0"/> H <input type="text" value="1"/> M <input type="text" value="0"/> S (MAX: 24 hours)
Snapshot from:	Primary stream <input type="button" value="v"/>
Snapshot duration:	<input type="text" value="1"/> seconds (1-20)
Snapshot frame rate:	<input type="button" value="1"/> <input type="button" value="v"/> fps
SMTP server name:	<input type="text"/>
SMTP server port:	<input type="text" value="25"/>
Secure SSL connection:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	<input type="text"/>
Password:	<input type="text"/>
Re-type password:	<input type="text"/>
Sender mail address:	<input type="text"/>
Receiver mail address:	<input type="text"/>
	<input type="text"/>
Subject:	Warning from Network Camera
Message:	<input type="text"/>

[Periodic interval] Input the interval time.

The rest setting is the same as E-mail Alarm Sending.
Click **Apply** to confirm your setting.

FTP alarm sending

FTP Alarm Sending

Snapshot from:	Primary stream <input type="button" value="v"/>
Snapshot duration:	<input type="text" value="1"/> seconds (1-20)
Snapshot frame rate:	<input type="button" value="1"/> <input type="button" value="v"/> fps
Alarm interval:	<input type="text" value="0"/> seconds (0-86400 0:continuous)
FTP server name:	<input type="text"/>
FTP server port:	<input type="text" value="21"/>
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	<input type="text"/>
Password:	<input type="text"/>
Re-type password:	<input type="text"/>
Passive mode:	<input checked="" type="radio"/> On <input type="radio"/> Off
Keep alive:	<input type="text" value="3600"/> seconds (0-99999 0:always keep alive)
Remote path:	<input type="text"/>

[Snapshot from] Primary stream.

[Snapshot duration] Input the duration time.

[Snapshot frame rate] Select the number of frame per second.

[Alarm interval] Type the interval time.

[FTP server name] Input the FTP server name.

[FTP server port] As default 21.

[Authentication] Select Yes.

[User name] Type your FTP user name.

[Password] Type your FTP password.

[Re-type password] Re-type FTP password.

[Passive mode] Select on or off.

[Keep alive] Input the time.

[Remote path] Input the file directory.

Click **Apply** to confirm your setting.

FTP periodic sending

FTP Periodic Sending

Period interval:	<input type="text" value="0"/> H <input type="text" value="1"/> M <input type="text" value="0"/> S (MAX: 24 hours)
Snapshot from:	Primary stream <input type="button" value="v"/>
Snapshot duration:	<input type="text" value="1"/> seconds (1-20)
Snapshot frame rate:	<input type="button" value="1"/> <input type="button" value="v"/> fps
FTP server name:	<input type="text"/>
FTP server port:	<input type="text" value="21"/>
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	<input type="text"/>
Password:	<input type="text"/>
Re-type password:	<input type="text"/>
Passive mode:	<input checked="" type="radio"/> On <input type="radio"/> Off
Keep alive:	<input type="text" value="3600"/> seconds (0-99999 0:always keep alive)
Remote path:	<input type="text"/>

[Periodic interval] Input the interval time.

The rest setting is the same as FTP Alarm Sending.
Click **Apply** to confirm your setting.

HTTP alarm sending

HTTP Alarm Sending

Alarm interval:	<input type="text" value="30"/>	seconds (0-86400 0:continuous)
HTTP server name:	<input type="text"/>	
HTTP server port:	<input type="text" value="80"/>	
Authorization:	<input type="radio"/> Yes <input checked="" type="radio"/> No	
User name:	<input type="text"/>	
Password:	<input type="text"/>	
Re-type password:	<input type="text"/>	
Sending URL:	<input type="text"/>	

[Alarm interval] Input the FTP server name.

[HTTP server name] Input the HTTP server name.

[HTTP server port] As default 80.

[Authentication] Select Yes.

[User name] Type your HTTP user name.

[Password] Type your HTTP password.

[Re-type password] Re-type your HTTP password.

[Sending URL] Input Input the URL, the camera will give an alarm to it.

Click **Apply** to confirm your setting.

HTTP periodic sending

HTTP Periodic Sending

Period interval: H M S (MAX: 24 hours)

HTTP server name:

HTTP server port:

Authorization:

Yes No

User name:

Password:

Re-type password:

Sending URL:

[Period interval] Input the interval time.

The rest setting is the same as HTTP Alarm Sending.

Click **Apply** to confirm your setting.

Snapshot to storage on alarm

Snapshot to Storage on Alarm

Snapshot from:	<input type="text" value="Primary stream"/>
Snapshot duration:	<input type="text" value="1"/> seconds (1-20)
Snapshot frame rate:	<input type="text" value="1"/> fps
Alarm interval:	<input type="text" value="0"/> seconds (0-86400 0:continuous)

[Snapshot to storage on alarm] Select Primary stream.

[Snapshot duration] Select the time.

[Snapshot frame rate] Select the frame.

[Alarm interval] Input the interval time.

Click **Apply** to confirm your setting.

Snapshot to storage periodically

Snapshot to Storage Periodically

Period interval:	<input type="text" value="0"/> H <input type="text" value="1"/> M <input type="text" value="0"/> S (MAX: 24 hours)
Snapshot from:	<input type="text" value="Primary stream"/>
Snapshot duration:	<input type="text" value="1"/> seconds (1-20)
Snapshot frame rate:	<input type="text" value="1"/> fps

[Period interval] Input the interval time.

The rest setting is the same as Snapshot to storage on alarm.

Click **Apply** to confirm your setting.

Record to storage on alarm

Record to Storage on Alarm

Record from:

Record duration: seconds (5-86400)

Split duration: seconds (10-600)

Record thumbnail: Enable Disable

[Record from] Primary stream

[Record duration] Input the duration time.

[Split duration] Input the split duration time.(The videos will be split.)

[Record thumbnail] Select Enable or Disable.

Click **Apply** to confirm your setting.

Record to storage continuously

Record to Storage Continuously

Record from:

Split duration: seconds (10-600)

Record thumbnail: Enable Disable

[Record from] Select Primary stream.

[Split duration] Input the split duration time.(The videos will be split.)

[Record thumbnail] Select Enable or Disable.

Click **Apply** to confirm your setting.

Send files in storage to FTP server

Send Files in Storage to FTP Server

FTP server name:	<input type="text"/>
FTP server port:	<input type="text" value="21"/>
Authentication:	<input checked="" type="radio"/> Yes <input type="radio"/> No
User name:	<input type="text"/>
Password:	<input type="text"/>
Re-type password:	<input type="text"/>
Passive mode:	<input checked="" type="radio"/> On <input type="radio"/> Off
Keep alive:	<input type="text" value="3600"/> seconds (0-99999 0:always keep alive)
Remote path:	<input type="text"/>

[FTP server name] Input the FTP server name.

[FTP server port] As default 21.

[Authentication] Select Yes.

[User name] Type the FTP user name.

[Password] Input the FTP password.

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

[Passive mode] Select on or off.

[Keep alive] Input the time.

[Remote path] Input the file directory.

Click **Apply** to confirm your setting.

User Management

Camera user list

No.	User name	Group
1	admin	Administrators

Add

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

Note:

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:

Password:

Re-type password:

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: Time zone: GMT

Proposed device time:

Select to change the time zone for the device location:



Daylight saving time

Date and time format: yy/mm/dd hh:mm:ss
 mm/dd/yy hh:mm:ss
 dd/mm/yy hh:mm:ss

Auto time setting (SNTP) Enable Disable

Time server

e.g. time.nist.gov;ns.arc.nasa.gov

[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

浏览...

[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**.

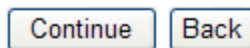
Firmware upgrade

Warning:

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

Current firmware version is: 5.08 (build 20120718)

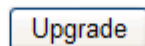
To proceed click continue.



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

Firmware upgrade

Upgrade Firmware (path and file name)



3. Click **Reboot** when the upgrade terminates.

IMPORTANT:

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

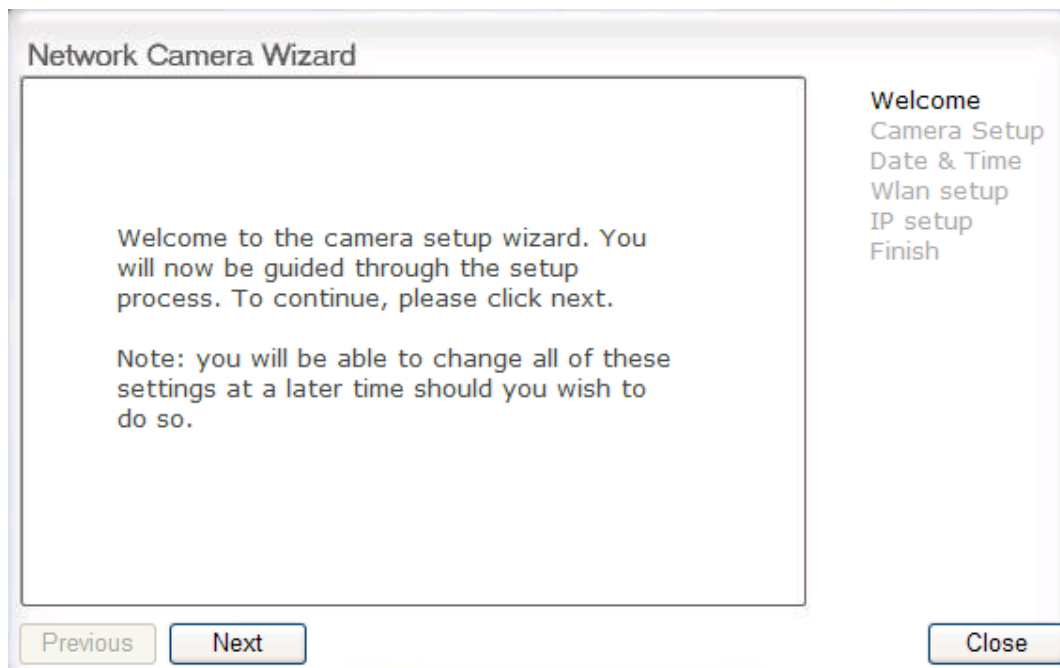
SPEEDREAD YOUR NETWORK CAMERA

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.

[Wizard](#) | [System](#) | [Support](#) | [Reboot](#)

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.

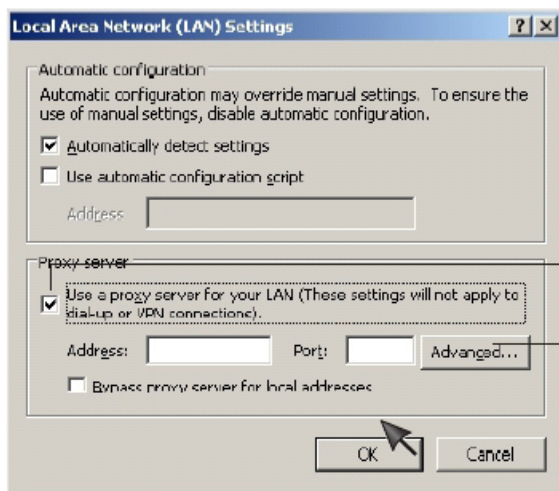
To access the camera from the internet, type the external IP Address of the router, followed by a colon, and the port number of your camera (e.g., [Http://210.118.166.68:9000](http://210.118.166.68:9000)).

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...**].

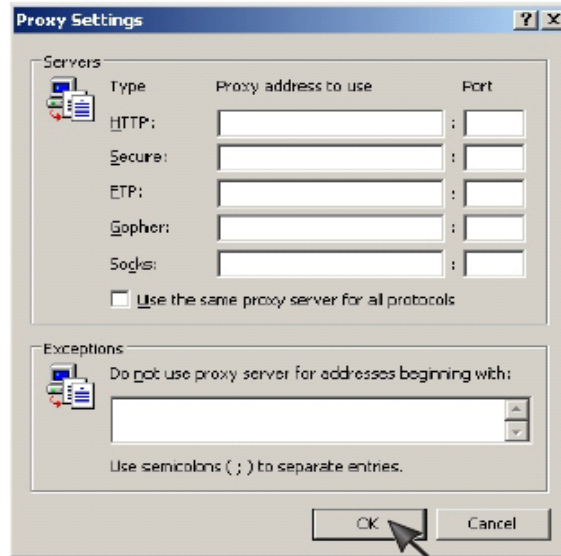


Verify that the check box is not checked

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**.

DEFAULT SETTINGS

NC 316 G	
Items	
3G	YES
P2P	YES
IR-Cut	YES
Viewing Angle	Horizontal: 60°, Vertical: 45°
Night Vision Distance	15 m
LEDs	12
Focal Length	F=4.3 mm
SD Card Support	YES
Dimensions (W x D x H)	70 mm X 70 mm X 190 mm
Weight (Main Body)	700 g
Power Requirements	DC 12V
Power Consumption	3.75 W
Image Compression	H.264, MPEG 4, M-JPEG
Image Resolution	640 x 480 (VGA), 320 x 240 (QVGA), 160 x 120 (QQVGA)
Max. Frame Rate	30 fps @ 640 x 480
Audio Compression	AAC, AMR
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, DDNS
Stream Type	HTTP, RTSP / RTP / RTCP, 3GPP
Network Connection	Ethernet (10 BASE-T / 100 BASE-TX)
Wireless Technology	IEEE 802.11 b/g/n
Frequency	2.412 - 2.462 GHz
Transmission Speed	150 Mbps / 54 Mbps / 5.5 Mbps / 2 Mbps / 1 Mbps (Auto Switch)
Security	WEP (64 / 128 bit), WPA-PSK (AES / TKIP), WPA2-PSK (AES / TKIP)
Min. illumination	1.0 Lux
Image Device	1 / 4" CMOS
Pixels	310,000 (VGA)
Built-in Microphone	Electret Condenser Microphone
White Balance, Gain	Auto
Operating Temperature	-20 to +60 °C (-4 to +140 °F)
Storage Temperature	-20 to +60 °C (-4 to +140 °F)
Operating Humidity	20~90 % RH (Non-condensing)
Storage Humidity	20~95 % RH (Non- condensing)
Operating System	Windows 2000 / XP / Vista / Win 7, Mac, Linux, iPhone, Android, Windows Mobile, BlackBerry
Processor	Intel Pentium III, 1 GHz or Higher
Memory	256 MB RAM Minimum
Internet Browser	Microsoft IE version 5.5 or later, Safari, Mozilla, Firefox, Google Chrome and most other browsers

SPECIFICATIONS

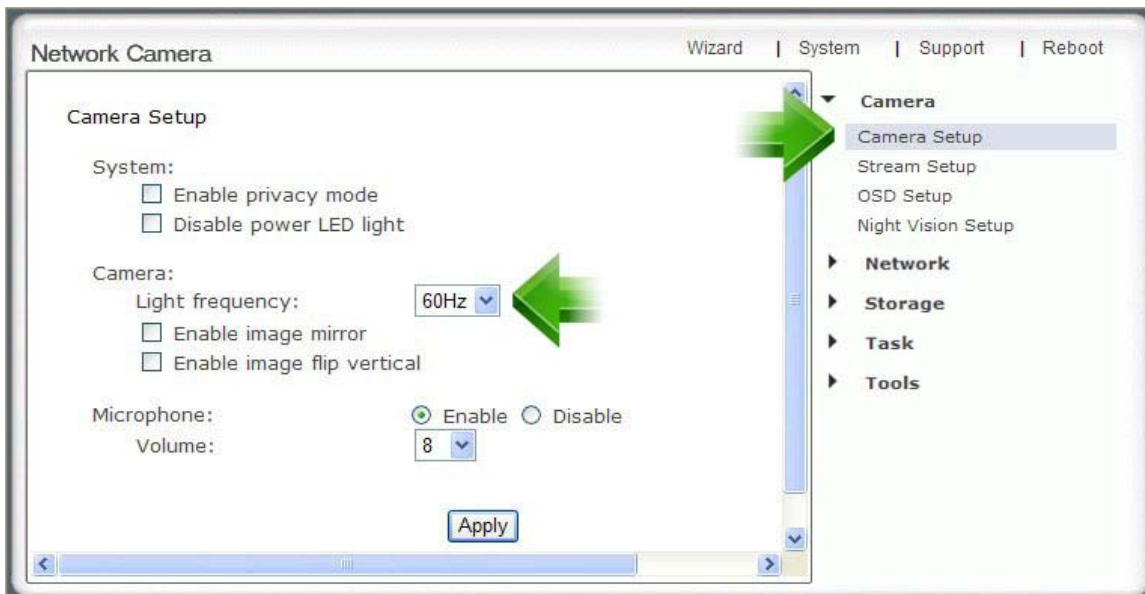
Camera	
Image device	1/4" CMOS
Pixels	310000
White Balance	Auto
Gain and Exposure	Auto
Viewing angle	Horizontal:60°, Vertical:45.0°
Focal length	F=4.3 mm
Aperture	F2.0
Min. Illumination	1.0 Lux
Infrared LED	12
Night Vision Distance	15 m
Network	
Support	P2P
Image compression	H.264, MPEG-4, MJPEG
Image resolution	640x480(VGA), 320x240(QVGA), 160x120(QQVGA)
Max. frame rate	30fps @640x480 for 60Hz, 25fps @640x480for 50Hz
Aduio compression	AAC, 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,DDNS
Stream type	HTTP, RTSP/RTP/RTCP, 3GPP
Network connection	Ethernet (10BASE-T/100BASE-TX)
Wireless LAN	
Wireless technology	IEEE802.11 b/g/n
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 12V
Power consumption	3.75W
Operating temperature	-20 to +60°C (-4 to +140°F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Operating humidity	20 to 90%RH(Non-condensing)
Storage humidity	20 to 95%RH(Non-condensing)
Dimensions(W x D x H)	70 x 70 x 190 mm
Weight	700 g
Supplied accessories	AC adaptor (x1), CD-ROM(Softwares x3,User manual x1),Stand x1,Srew
PC system requirements	
Operating system	All Windows OS/Mac/Linux/iPhone/iPad/Android/Windows mobile/BlackBerry
Processor	Intel Pentium III, 1GHz or Higher
Memory	256MB RAM Minimum
Web browser	Chrome, Safari, Firefox, Opera, IE version 5.5 or later,and all major browsers

Frequently Asked Questions

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.	<ol style="list-style-type: none"> 1. Use Camera Setup. 2. Use UPNP (for XP/Vista OS) 3. PPPoE IP Notification can send e-mail to your mailbox 4. 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.	<ol style="list-style-type: none"> 1. Signal strength is weak. Relocate the camera or remove the obstacle around it. 2. Make sure the SSID and Encryption settings are identical. 3. Check for any interference from other equipment.
The picture viewing interface does not appear.	<ol style="list-style-type: none"> 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.
How many users can view the same camera at the same time?	16
How many cameras can we view in one window?	36
How many cameras can we view in the browser?	Countless. Depends on the network speed.
When the camera is viewing in the browser, can we use the same PC and view the same camera in another browser window?	No, the camera knows it's already open.
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.
Can the camera support viewing in Mac, Linux OS?	Yes, In Mac, Linux OS, we support viewing in the website, using DDNS. The PC softwares only support all Windows OS so far.

<p>Can the camera support viewing in Windows mobile, Blackberry, Nokia?</p>	<p>Yes. Open the browser, input the DDNS+/mobile, for example: 183.14.122.239:8150/mobile Now we can view videos or pictures.</p>
<p>Why in Mac OS, the videos delay 2 seconds?</p>	<p>Because the Mac OS only support QuickTime player in browsers. So it delays 2 seconds. Other OS will not delay.</p>
<p>Why we see strips in the videos?</p>	<p>Because of the electricity. Some country like USA is 60Hz, yet Europe is 50Hz. For example: In USA, the camera should choose 60Hz, otherwise we will see strips in the videos. The following picture is the steps.</p>
<p>How to set the video quality in iPhone, iPad, Android devices.</p>	<p>Please see the below steps.</p>



Video Quality Setting for iPhone, iPad



Press the **blue arrow**, you'll see:



Press " **Advanced Setting** ", then appear:



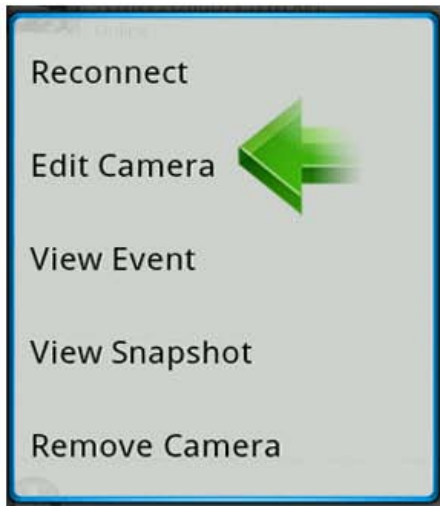
Slide to see the " **Video Quality** ", and press it. Then press " **Min** ".
Now, let's enjoy fluent videos!



Video Quality Setting for Android



Long press the video till you see:



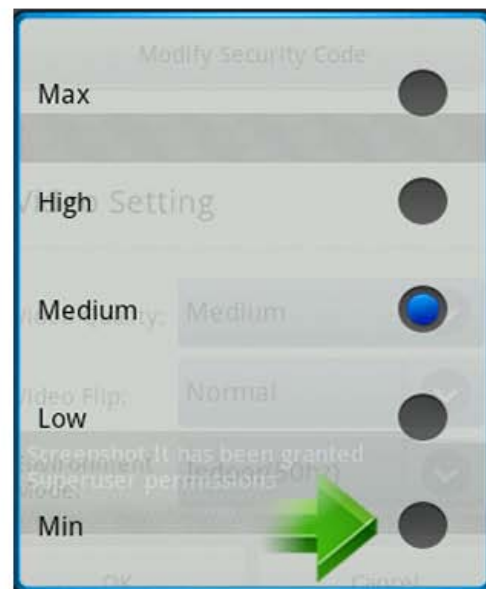
Press " **Edit Camera** ", you'll see:



Press " **Advance** " you'll see the Video Setting.



Press " **Video Quality** ", then press " **Min** ", Now enjoy the fluent videos!



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/n:** 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/n 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.



Service Provider	APN	User Name	Password	DNS
Argentina				
CTI	internet.ctimovil.com.ar	Blank	Blank	Dynamic
Personal	gprs.personal.com	Cellphone Number	adgj	Dynamic
Australia				
Optus	internet	Blank	Blank	202.139.83.3, 192.65.91.129
Telstra	telstra.internet	Blank	Blank	139.130.4.4, 203.50.170.2
Three	3netaccess	a	a	202.124.68.130, 202.124.76.66
Vodafone	vfinternet.au	Blank	Blank	192.189.54.33, 210.80.58.3
Austria				
Drei	drei.at	Blank	Blank	Dynamic
Max Online Metro	gprsmetro	GPRS	Blank	213.162.64.1,21 3.162.64.2
T-Mobile A (Max Online)	gprsinternet	GPRS	Blank	213.162.64.1,21 3.162.64.2
T-Mobile A (Max Online Business)	business.gprsinternet	GPRS	Blank	213.162.64.1,21 3.162.64.2
Mobilkom A1	A1.net	gprs@a1plus.at	Blank	194.48.124.200, 194.48.139.254
OneNet	web.one.at	It Depends	It Depends	194.24.128.100, 194.24.128.102
tele.ring	web	web@telering.at	web	212.95.31.11,21 2.95.31.35
Azerbaijan				
Azercell	internet	Blank	Blank	Dynamic
Velcom	web.velcom.by	Web	Web	Dynamic
Belgium				
BASE (Orange)	orangeinternet	Blank	Blank	
Mobistar	web.pro.be	mobistar	mobistar	212.65.63.10, 212.65.63.145
Proximus	internet.proximus.be	Blank	Blank	195.238.2.21, 195.238.2.22
Brasil				
Claro	claro.com.br	claro	claro	
Oi	gprs.oi.com.br	Blank	Blank	Dynamic
TIM	tim.br	tim	tim	
Bulgaria				
GloBul	internet.globul.gl	globul	Blank	Dynamic
Canada				
Microcell	internet.fido.ca	fido	fido	204.92.15.211
Chile				
Entel PCS	imovil.entelpcs.cl	entelpcs	entelpcs	Dynamic
Telefonica Movil	web.tmovil.cl	web	web	200.68.32.180, 200.68.32.181

China				
China Mobile	cmnet	Blank	Blank	
China Unicom		Blank	Blank	10.0.2.100
Costa Rica				
IceRegular	iceregular	Blank	Blank	
Croatia				
T-Mobile	web.htgpr	38591	38591	
VIPNET Start	gprs0.vipnet.hr	38591	38591	
VIPNET Pro	gprs5.vipnet.hr	38591	38591	
VIPNET 3G	3g.vip.hr	38591	38591	
Czech Republic				
Cesky Mobil (contract)	internet	Blank	Blank	212.67.64.2
Cesky Mobil (prepaid)	cinternet	Blank	Blank	212.67.64.2
Eurotel (contract)	internet	Blank	Blank	160.218.10.200, 160.218.43.200
Eurotel Go	gointernet	Blank	Blank	160.218.10.201, 194.228.2.1
Paegas Internet	internet.click.cz	Blank	Blank	62.141.0.1, 62.141.0.2
Telefonica (contract)	internet	Blank	Blank	160.218.10.200, 160.218.43.200
Telefonica (Go)	gointernet	Blank	Blank	160.218.10.201, 194.228.2.1
T-Mobile	internet.t-mobile.cz	Blank	Blank	62.141.0.1, 62.141.0.2
Vodafone (contract)	internet	Blank	Blank	217.77.161.130 , 217.77.161.131
Vodafone (pre-pay)	ointernet	Blank	Blank	217.77.161.130, 217.77.161.131
Denmark				
3		Blank	Blank	
Orange DK	web.orange.dk	Blank	Blank	212.97.206.131, 212.97.206.161
Sonofon	Blank	Blank	Blank	212.88.64.14, 212.88.64.15
TDC	internet	Blank	Blank	193.162.146.9, 193.162.153.31
Dominican Republic				
Orange	orangenet.com.do	Blank	Blank	
Egypt				
Click Vodafone	internet.vodafone.net	internet	internet	
MobiNil	mobinilweb	Blank	Blank	
Estonia				
EMT	internet.emt.ee	Blank	Blank	217.71.33.200, 217.71.32.20
RLE	internet	Blank	Blank	
Finland				
Dna	internet	Blank	Blank	217.78.192.78, 217.78.192.22

Elisa	internet	rlnet	internet	193.229.0.40, 193.229.0.42
Radiolinja	internet	rlnet	internet	213.161.33.200, 193.185.210.10
Sonera	internet	Blank	Blank	192.89.123.230, 192.89.123.231
Song	internet.song.fi	song@internet	songnet	
France				
Bouygues	ebouygtel.com	Blank	Blank	62.201.129.99, 62.201.159.99
Bouygues (B2Bouygtel)	b2bouygtel.com	Blank	Blank	62.201.129.99
Orange	orange.fr	orange	orange	194.051.003.056 ,
Orange MIB	orange-mib	mportail	mib	172.16.2.8:8000
SFR	websfr	Blank	Blank	172.20.2.10, 194.6.128.4
Germany				
E-Plus	internet.eplus.de	eplus	gprs	212.023.97.2, 212.23.97.3
O2 (GPRS)	internet	Blank	Blank	195.182.096.28, 195.182.96.61
O2 (3G)	surfo2	Blank	Blank	62.134.11.4, 195.182.110.132
T-Mobile	internet.t-d1.de	td1	gprs	193.254.160.1
Vodafone	web.vodafone.de	[any]	[any]	139.7.30.125, 139.7.30.126
Ghana				
Areeba	internet.spacefon.com	Blank	Blank	196.201.34.5, 213.137.131.3
Greece				
Cosmote	internet	Blank	Blank	195.167.065.194
Telestet	gnet.b-online.gr	Cellphone Number	24680	212.152.79.19, 212.152.79.20
TIM	gint.b-online.gr	web	web	
Vodafone GR	internet.vodafone.gr	Blank	Blank	213.249.17.10, 213.249.17.11
Hong Kong				
CSL	hkcs1 or internet	Blank	Blank	202.84.255.1, 203.116.254.150
New World	internet	Blank	Blank	
Orange	web.orangehk.com	Blank	Blank	
People	internet	Blank	Blank	
SmarTone	internet	Blank	Blank	202.140.96.51, 202.140.96.52
Sunday	internet	Blank	Blank	
Three	web-g.three.com.hk	Blank	Blank	
Hungary				
Pannon (contract)	net	Blank	Blank	193.225.155.254 ,194.149.0.157

Pannon (flat rate)	netx	Blank	Blank	193.225.155.254, 194.149.0.157
Pannon (compressed)	snet	Blank	Blank	193.225.155.254, 194.149.0.157
Vodafone (contract, compressed)	internet.vodafone.net	Blank	Blank	80.244.97.30,80. 244.96.1
Vodafone (contract, uncompressed)	standardnet.vodafone.net	Blank	Blank	80.244.97.30,80. 244.96.1
Vodafone (pre-pay, compressed)	vitamax.internet.vodafone.net	Blank	Blank	80.244.97.30,80. 244.96.1
Vodafone (pre-pay, uncompressed)	vitamax.snet.vodafone.net	Blank	Blank	80.244.97.30,80. 244.96.1
Westel (contract)	internet	Blank	Blank	194.176.224.3,1 94.176.224.1
India				
AirTel	airtelgprs.com	Blank	Blank	
BPL	bplgprs.com	bplmobile	Blank	202.169.145.34, 202.169.129.40
Idea Cellular	internet	Blank	Blank	10.4.42.15
MTNL Mumbai	gprsmtnlmum	mtnl	mtnl123	
Orange	portalnmms	Blank	Blank	10.11.206.51, 10.11.206.50
Indonesia				
Excelcomindo	www.xlgprs.net	xlgprs	proxy	202.152.254.245, ,
IM3	www.indosat-m3.net	gprs	im3	
Indosat	satelindogprs.com	Blank	Blank	202.152.162.66, 202.152.162.67
Ireland				
O2 (contract)	open.internet	gprs	gprs	62.40.32.33, 62.40.32.34
O2 (prepaid)	pp.internet	gprs	gprs	62.40.32.33, 62.40.32.34
Vodafone (contract)	isp.vodafone.ie	vodafone	vodafone	
Vodafone (pre-pay)	live.codafone.com	vodafone	vodafone	10.24.59.100
Iceland				
Orange	internet	Blank	Blank	Dynamic
Israel				
Cellcom	internetg	Blank	Blank	
MTC-Vodafone	apn01	Blank	Blank	10.10.10.30
Orange	internet	Blank	Blank	
Italy				
Blu (Contratto)	INTERNET	Blank	Blank	212.17.192.49, 212.17.192.209
Blu (Prepagata)	PINTERNET	Blank	Blank	212.17.192.49, 212.17.192.49
H3G	tre.it	Blank	Blank	
Vodafone (Omnitel)	web.omnitel.it	Blank	Blank	83.224.65.134
TIM	ibox.tim.it	Blank	Blank	213.230.155.94, 213.230.130.222
Wind	internet.wind	Blank	Blank	212.245.255.2

Japan				
Vodafone (J-Phone)	vodafone	ai@vodafone	vodafone	61.195.195.153, 61.195.194.26
Kazakhstan				
Beeline	internet.beeline.kz	internet.beeline	Blank	212.19.149.53, 194.226.128.1
Latvia				
LMT	internet.lmt.lv	Blank	Blank	212.93.96.2, 212.93.96.4
Tele2	internet.tele2.lv	gprs	internet	
Lebanon				
Cellis FTML	internet.ftml.com.lb	plugged	plugged	Dynamic
Lithuania				
Bite GSM	banga	Blank	Blank	213.226.131.131, 193.219.32.13
Omnitel (contract)	gprs.omnitel.net	Blank	Blank	194.176.32.129, 195.22.175.1
Omnitel (no contract)	gprs.startas.lt	omni	omni	
Luxembourg				
LUXGSM	web.pt.lu	Blank	Blank	194.154.192.101
Tango	internet	tango	tango	
VOXmobile	vox.lu	Blank	Blank	212.88.139.12, 212.88.139.11
Malaysia				
DIGI	diginet	Blank	Blank	203.92.128.131, 203.92.128.132
Maxis	internet.gprs.maxis	Blank	Blank	202.75.129.101, 10.216.4.21
Timecel	timenet.com.my	Blank	Blank	203.121.16.85, 203.121.16.120
TM Touch	internet	Blank	Blank	202.188.0.133
Malta				
Go Mobile (contract)	gosurfing	Blank	Blank	
Go Mobile (pre.pay)	rtgsurfing	Blank	Blank	
Mexico				
Telcel	internet.itelcel.com	webgprs	webgprs2002	
Moldavia				
Moldcell	internet	gprs	gprs	
Netherlands				
KPN Mobile	internet	KPN	gprs	62.133.126.28, 62.133.126.29
O2	internet	Blank	Blank	
Telfort	internet	telfortnl	Password	
T-Mobile (Ben) active	internet-act	Blank	Blank	193.79.251.39, 193.79.237.39
Vodafone (normal)	web.vodafone.nl	vodafone	vodafone	
Vodafone (business)	office.vodafone.nl	vodafone	vodafone	
New Zealand				

Vodafone	www.vodafone.net.nz	Blank	Blank	202.20.93.10, 203.97.191.189
Nigeria				
Globacom	gprs	wap	Blank	
Norway				
Telenor Mobil	internet	Name of the model	1111	212.17.131.3
Netcom	internet.netcom.no	Blank	Blank	212.45.118.43, 212.45.118.44
Pakistan				
Ufone	ufone.internet	ufone	ufone	Dynamic
Panama				
Cablw & Wireless	apn01.cwpanama.com.pa	xxx	xxx	172.25.3.5
Peru				
Claro (TIM)	tim.pe	tim	tulibertad	
Philippines				
Globe Telecoms	internet.globe.com.ph	globe	globe	203.127.225.10, 203.127.225.11
Smart	internet	witsductoor	banonoy	202.57.96.3, 202.57.96.4
Sun Cellular	minternet	Blank	Blank	Blank
Poland				
ERA	erainternet	erainternet	erainternet	213.158.194.1, 213.158.193.38
Heyah	heyah.pl	heyah	heyah	213.158.194.1, 213.158.193.38
Idea	www.idea.pl	idea	idea	194.9.223.79, 194.204.159.1
Orange	internet	internet	internet	194.204.159.1, 194.9.223.79
Polkomtel	www.plusgsm.pl	Blank	Blank	212.2.96.51, 212.2.96.52
Portugal				
Optimus	internet	Blank	Blank	194.79.69.129
TMN	internet	Blank	Blank	194.65.3.20, 194.65.3.21
Vodafone PT	internet.vodafone.pt	Blank	Blank	212.18.160.133, 212.18.160.134
Romania				
Connex (Vodafone)	internet.connex.ro	internet.connex.ro	connex	193.230.161.3, 193.230.161.4
Orange	internet	Blank	Blank	172.22.7.21, 172.22.7.20
Russia				
BeeLine	internet.beeline.ru	beeline	beeline	194.190.195.66, 194.190.192.34
Megafon (dv)	internet.dv	Blank	Blank	83.149.52.66, 194.186.112.18
Megafon (kvk)	internet.kvk	Blank	Blank	83.149.24.244, 62.183.50.230

Megafon (Itmsk)	internet.ltmsk	Blank	Blank	10.22.10.20, 10.22.10.21
Megafon (mc)	internet.mc	Blank	Blank	81.18.129.252
Megafon (NWGSM)	internet.nw	Blank	Blank	
Megafon (Siberia)	internet.sib	Blank	Blank	81.18.129.252
Megafon (UGSM)	internet.ugsm	Blank	Blank	83.149.32.2, 83.149.33.2
Megafon (usi)	internet.usi.ru	Blank	Blank	212.120.160.130 , 195.42.152.34
Megafon (Volga)	internet.volga	Blank	Blank	83.149.16.7, 195.128.128.1
Motiv (uses BeeLine)	internet.beeline.ru	beeline	beeline beeline	217.118.66.243, 217.118.66.244
MTS	internet.mts.ru	mts	mts	213.87.0.1, 213.87.1.1
NCC	internet	ncc	[supplied]	10.0.3.5,
NTC	internet.ntc	Blank	Blank	80.243.64.67, 80.243.68.34
PrimTel	internet.primtel.ru	Blank	Blank	
Saint Lucia				
Cable & Wireless	internet	Blank	Blank	
Serbia-Montenegro				
Mobtel Srbija	internet	mobtel	gprs	217.65.192.1
Telekom Srbija	gprsinternet	mts	64	195.178.38.3
Singapore				
M1	mobilenet	Blank	Blank	202.79.64.21, 202.79.64.26
SingTel	internet	Blank	Blank	165.21.100.88, 165.21.83.88
Starhub	shwapint	Blank	Blank	203.116.1.78, 203.116.254.150
Slovakia				
Eurotel	internet	Blank	Blank	
Globtel	internet	Blank	Blank	213.151.200.3, 195.12.140.130
Orange	internet	Blank	Blank	
Slovenia				
Mobitel (Internet)	internet	mobitel	internet	193.189.160.11, 213.229.248.161
Mobitel (Internet Pro)	internetpro	mobitel	internet	193.189.160.11, 213.229.248.161
Simobil	internet.si.mobil	Blank	Blank	121.30.86.130, 193.189.160.11
South Africa				
Cell-C	internet	Blank	Blank	168.210.2.2, 196.14.239.2
MTN	internet	Blank	Blank	196.11.240.241
Vodacom	internet	Blank	Blank	
Spain				

Amena	internet	CLIENTE	AMENA	213.143.33.8, 213.143.32.20
Telefonica (Movistar)	movistar.es	movistar	movistar	194.179.001.100 ,
Vodafone (Airtel)	airtelnet.es	vodafone	vodafone	212.73.32.3, 212.73.32.67
Sweden				
Tele2, Comviq	isplnk1.swip.net	gprs	internet	
Telia	online.telia.se	Blank	Blank	10.0.0.1,
Tre (3G)	data.tre.se	void	void	
Vodafone (GPRS)	internet.vodafone.net	Blank	Blank	
Vodafone (3G)	services.vodafone.net	Blank	Blank	
Switzerland				
Orange CH	internet			213.55.128.1, 213.55.128.2
Sunrise	internet	internet	internet	212.35.35.35, 212.35.35.5
Swisscom	gprs.swisscom.ch	Blank	Blank	164.128.36.34, 164.128.76.39
Taiwan				
Chunghwa Telekom	emome or internet	Blank	Blank	10.1.1.1
Far EastTone	fetnet01	Blank	Blank	210.241.199.199
KG Telecom	internet	Blank	Blank	
Taiwan Cellular	internet	Blank	Blank	
Thailand				
AIS	internet	Blank	Blank	202.183.255.20, 202.183.255.21
DTAC	www.dtac.co.th	Blank	Blank	203.155.33.1, 203.44.144.33
Turkey				
Aycell	aycell	Blank	Blank	212.156.4.1, 212.156.4.4
Telsim	telsim	telsim	telsim	
Turkcell	internet	gprs	gprs	212.252.168.240 , 212.252.119.4
UAE				
Etisalat	mnet	mnet	mnet	
UK				
Jersey Telecom	pepper	abc	abc	212.9.0.135, 212.9.0.135
O2 (contract)	mobile.o2.co.uk	web	password	193.113.200.200 ,
O2 (contract, faster)	mobile.o2.co.uk	faster	password	193.113.200.200 ,
O2 UK (pre-pay)	payandgo.o2.co.uk	payandgo	payandgo	
Orange (pay monthly)	orangeinternet	user	pass	158.43.192.1, 158.143.128.1
Orange (Pay and Go)	orangewap	Multimedia	Orange	158.43.192.1, 158.143.128.1
T-Mobile	general.t-mobile.uk	user	pass	

Virgin Mobile	goto.virginmobile.com	user	Blank	
Vodafone (contract)	internet	Web	webs	
Ukraine				
Djuice	www.djuice.com.ua	igprs	igprs	
Jeans	www. jeans. ua	Blank	Blank	80.255.64.23, 80.255.64.24
Kyivstar	www.kyivstar.ua	igprs	internet	
Mobi-GSM	internet.urs	Blank	Blank	213.186.192.254 , 193.239.128.5
Uruguay				
ANCEL	gprs.ancel	Blank	Blank	200.40.30.245, 200.40.220.245
USA				
Cingular	isp.cingular	isdpa@cingular rgprs.com	CINGULAR1	66.209.10.201,6 6.209.10.202
T-Mobile (Internet)	internet2.voicestream.com	Blank	Blank	216.155.175.105 ,216.155.175.10
Uzbekistan				
Uzdunrobita	net.urd.uz	user	pass	
Venezuela				
Digitel TIM	gprswb.digitel.ve	Blank	Blank	