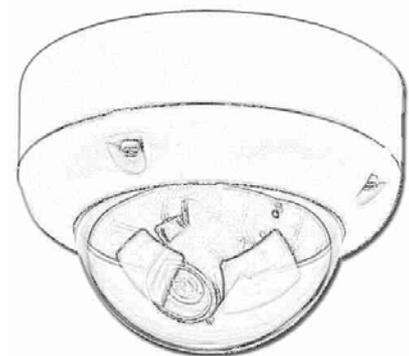
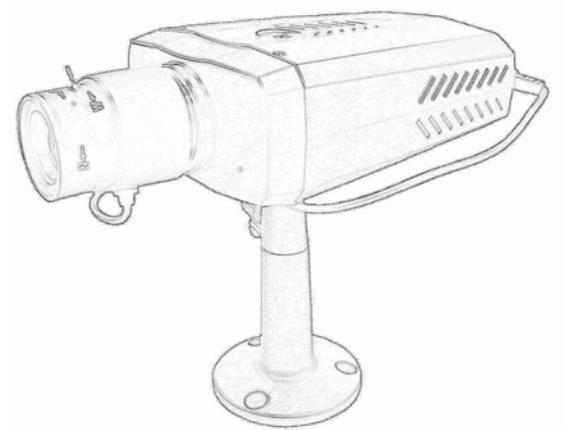


Multi-Profile Network Cameras: Pan/Tilt, Dome & Box Type



**Quick Start Guide
2008 May**

Table of Contents

1. System Requirements.....	3
2. Physical Installation	3
2.1 Indoor IP Dome Camera Installation	5
2.2 Vandal IP Dome Camera Installation.....	7
2.3 P/T IP Camera Installation.....	9
3. Camera administration.....	13
4. 3G Mobile Phone (3GPP) Usage	15

About multi-profile

Multi-profile stands for simultaneously video streams. The Network Camera can generate MPEG4 and MJPEG streaming simultaneously to different clients. Moreover, the resolution can be different from one client to another. This state-of-art design is considerable to fit in various network environments.

Before Installation

Before installation, please be sure to read this quick installation guide and user's manual carefully to complete machine installation.

1. System Requirements

Multi-Profile Network Camera	
Network Environment	
Network Interface	10/100MBase-TX Ethernet
Monitoring System	Recommended for Internet Explorer 6.0 or later
System Hardware	<ul style="list-style-type: none">· CPU: Pentium 4, 2GHz or above· Memory Size : 512 MB or above· VGA card resolution : 1024 x 768 or above- Sound card: for 2-way audio function· Network bandwidth: In VGA resolution mode, minimum upload bandwidth is 1M bit. In QVGA or QQVGA mode, no limitation
System Requirement for Viewer & Recorder Application	
Support OS	Win 2000 , Win XP, Win Vista
System Hardware	<ul style="list-style-type: none">16 cameras surveillance application· CPU: Pentium D, 2.8GHz or faster· Memory Size : 512 MB or above· VGA card resolution : 1024 x 768 or above

2. Physical Installation

Connections:

All dome type cameras have the same cables for connection as below:



RJ45 LAN
(Vandal dome is male type
IR IP Dome is female type).

RS485 & DI/DO

Video out

12V DC in

Line in

Line out

1. RJ45 LAN socket: (Connect to a TEL box)

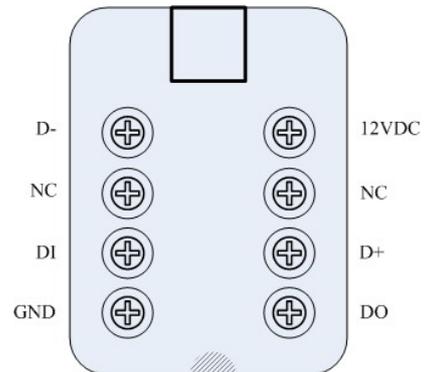
For connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 "straight through" cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

Note that, in case you need to connect the device to PC or notebook directly, you should use cross over cable instead.

2. RS-485: Connect to a local keyboard controller.
DI/ DO: Connect to sensor in and alarm out devices

Inside the TEL box:

Name	Function
12VDC	DC 12V (50mA maximum)
GND	GND
D+	RS485 data +
D-	RS485 data -
DI	Digital signal input
DO	Digital signal output



3. Local Video output (BNC port)

The Network Camera also provides composite video output. User can use BNC video cable to connect the Network Camera with a TV monitor or VCR.

4. DC-in Jack

The input power is 12VDC. **Note** that supply the power to the Network Camera with the power adapter included in package.

5. Line in (audio in)

Connect an audio input source to the speed-dome network camera.

6. Line out (audio out)

Connect a loud speaker to the speed-dome network camera. This function is for voice alerting and two-way audio.

2.1 Indoor IP Dome Camera Installation

1. Drill 20mm (3/4") holes in the ceiling or wall and then align the mounting plate to the holes you have made as below.

Ceiling Top Plate



2. Directly install on any horizontal or vertical surface



3. Alternatively, fixed with wall mount bracket (option).



Option: Bracket

4. Camera Adjustment:

Tilting View
Angle range is 0°~90°

4.1. X-axis ⇨



4.2. Y-axis ⇨

Rotating View
Angle range is 0°~90°



4.3. Z-axis ⇨

Panning View
Angle range is 0°~180°



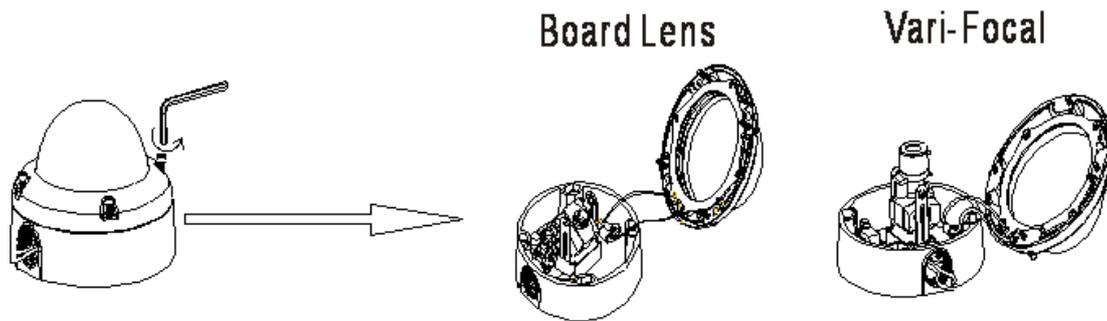
5. Connect the necessary cables and connectors:

- **Plug-in Ethernet Cable into LAN port (necessary)**
- **Connect the attached power adapter to camera and plug-in this adapter into power outlet (necessary)**
- **Connect Video BNC connector to a local TV if necessary (to check camera viewing angle)**

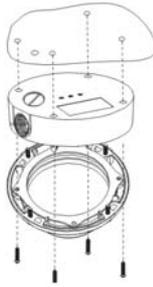
6. Done.

2.2 Vandal IP Dome Camera Installation

1. Use the provided L-wrench, loosen the vandal-resistant housing cover (with screws still attached on the cover).

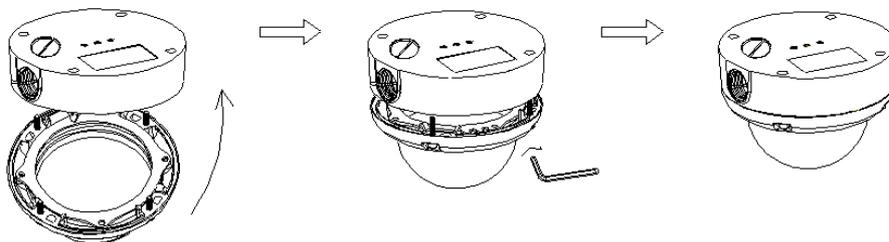


2. Set the mounting base onto the wall or ceiling and center it over the mounting hole, using the supplied four retaining screws to secure the main body.

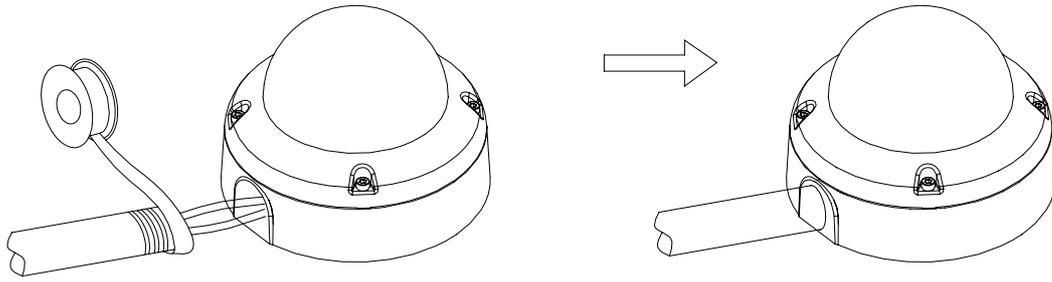


3. Set the proper image by moving the camera body (3-axis) and set the focus by turning the lens to the left or right direction.

4. When the camera focus adjustment has been completed, use the provided L-wrench to fasten the vandal-resistant housing to the main body.

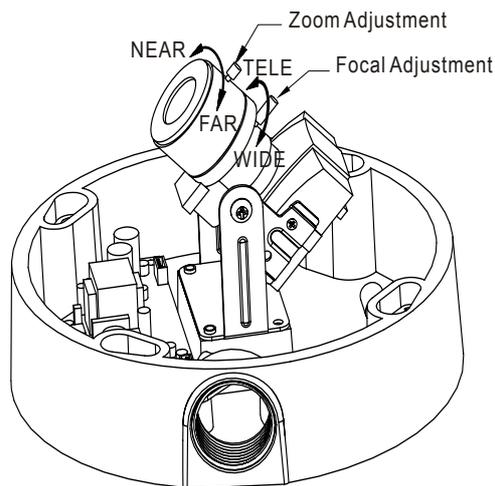


5. When using the side conduit cabling, it is suggested to cover the cables using metal covers (to prevent external damage and for waterproof prevention), and wined the waterproof adhesive tape (P.T.F.E. THREAD SEAL TAPE) onto the metal cover before installation.



6. Connect the LAN cable to Ethernet's switch or hub, the video cable to video output to the monitor or other video device through a 75 Ohms type coaxial cable and the DC-Jack to the power source.

7. Vari-Focal Dome Operation Guide: Once the picture appears on the monitor, open the cover and adjust the lens wrench to "NEAR←→FAR", get the view zoom that you desire, and then adjust the focus wrench of the lens to obtain the best picture. After adjustment, tighten both wrenches.



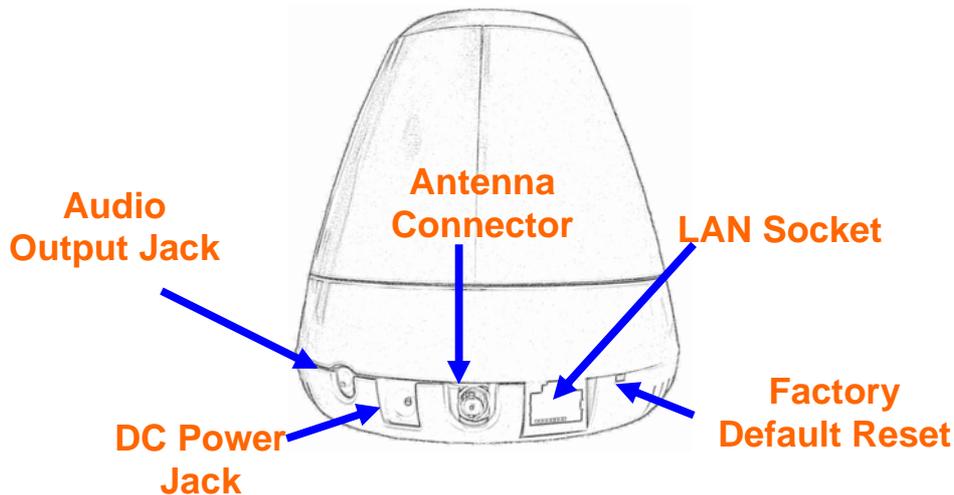
8. Connect the necessary cables and connectors:

- **Plug-in Ethernet Cable into LAN port (necessary)**
- **Connect the attached 12V power adapter to camera and plug-in this adapter into power outlet (necessary)**
- **Connect Video BNC connector to a local TV if necessary (to check camera viewing angle)**

9. Done

2.3 P/T IP Camera Installation

Connections:



Audio Output Jack

It allows this device to output audio or alerting sound. Connect with a 3.5Ø phone jack speaker (external adaptor)

DC Power Jack

The input power is 12VDC. **Note** that supply the power to the Camera with the power adapter included in package. Otherwise, the improper power adapter may damage the unit and result in danger.

Antenna Connector

User can attach the included wireless antenna to this connector (SMA type) or use another high-gain antenna to get higher performance.

LAN Socket

The LAN socket is a RJ-45 connector for connections to 10/100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 “straight through” cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub. **Note** that, in case you need to connect the device to PC or notebook directly, you should use “cross-over” cable instead.

Factory Default Reset

This button is hidden in the pinhole. Please refer to the Appendix A in this manual for more information.

P/T IP Camera Installation:

Ceiling Mount

1. Fix the camera to L-type bracket with the two supplied screws



2. Fix the bracket and camera to the ceiling using two holly wall anchors and screws



Wall Mount

1. Fix the L-type bracket to the wall using two holly wall anchors and screws

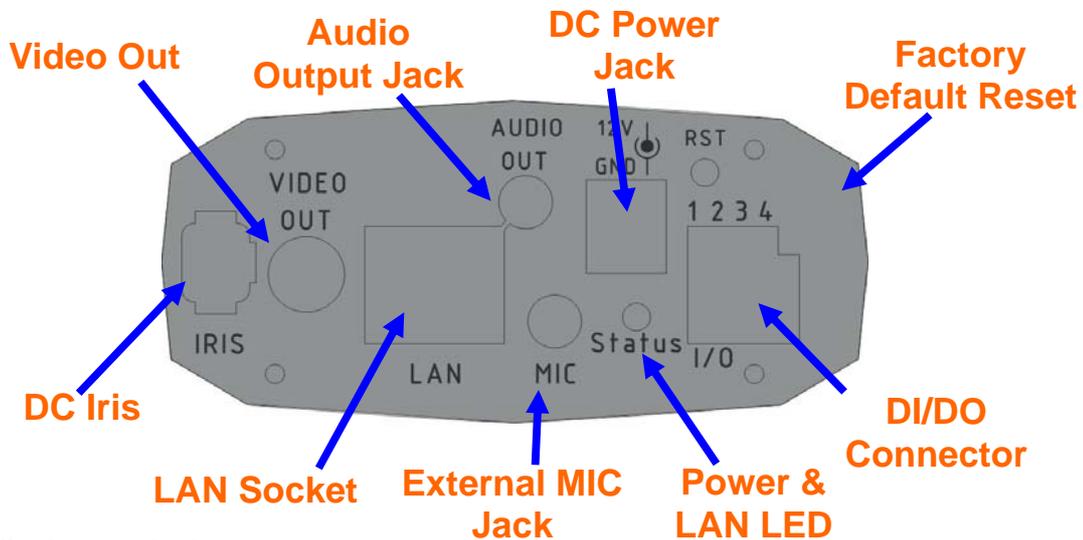


2. Fix the camera to L-type bracket with the two supplied screws



2.4 Box IP Camera Installation

Connections:



Audio Output Jack

Audio-out Jack allows this device to output audio for two-way communication or alerting sound.

DC Power Jack

The input power is 12VDC. **Note** that supply the power to the Camera with the power adapter included in package. Otherwise, the improper power adapter may damage the unit and result in danger.

LAN Socket

The LAN socket is a RJ-45 connector for connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 “straight through” cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub. **Note** that, in case you need to connect the device to PC or notebook directly, you should use “cross-over” cable instead.

Factory Default Reset

This button is hidden in the pinhole. Please refer to the Appendix A in this manual for more information.

Power & LAN LED (green color)

This LED is used to indicate whether DC power is on or not. In addition, this LED will be flashing while network accessing via Ethernet.

DI/DO Connector

The Camera provides a terminal block with 4 pins of connectors for DI and DO. Please refer to the Appendix B in this manual for more information.

External Microphone

The Camera also supports external microphone. User can plug in an external microphone to pick up voice more.

Local Video Output (CCD model only)

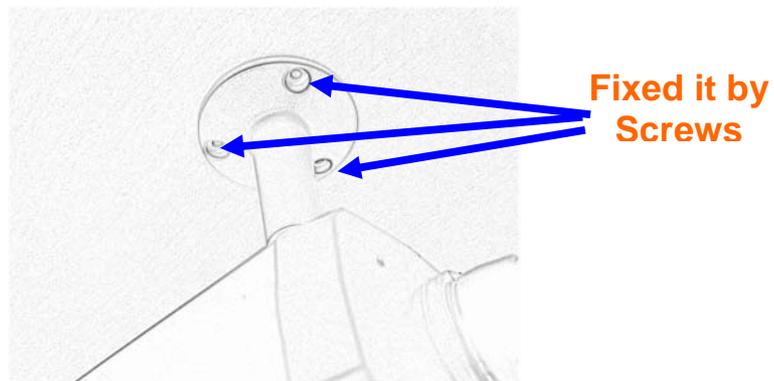
The Camera also provides composite video output. User can use cable to connect the Camera with a TV monitor or VCR.

DC Iris (CCD model only)

The Camera provides Iris control interface which can connect to DC-driver Iris lens.

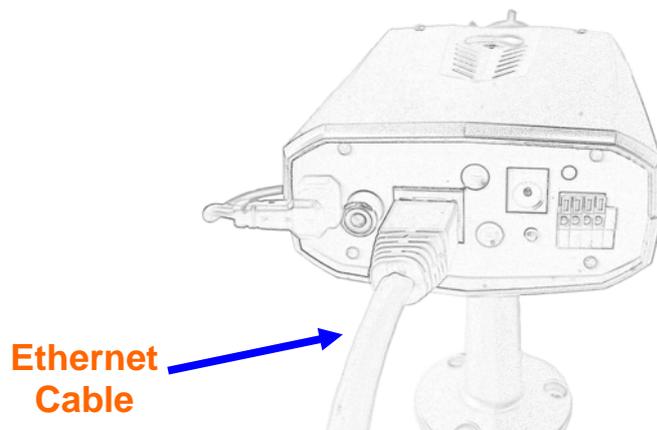
Box IP Camera Installation:

- 1. Attach the Camera with the included stand**
- 2. Fix camera to desired location with stand**



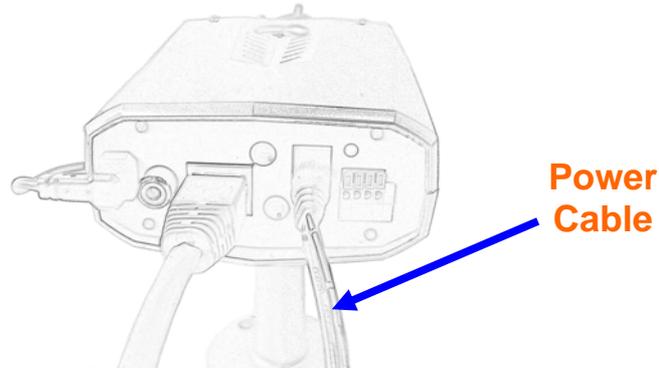
- 3. Plug an Ethernet cable into the Camera**

Connect an Ethernet cable to the LAN socket located on the camera's rear and attach it to the network.



4. Connect the external power supply to Camera

Connect the attached power adapter to the DC power jack of the camera. **Note:** Use the power adapter, 12VDC, included in the package and connect it to wall outlet for AC power.



Once you have installed the camera well and powered it on, the power LED will turn on. It means the system is booting up successfully. Furthermore, if you have a proper network connection, and access to the camera, the LED will flash green under wired mode.

5. Done

3. Camera administration

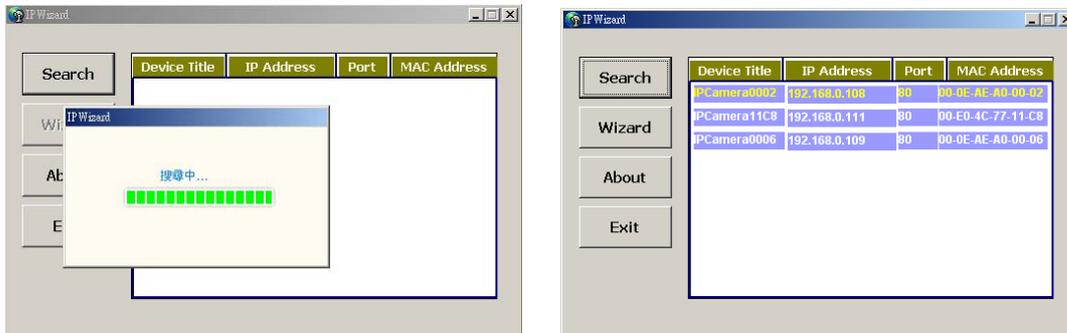
When you installed your networked device over your network environment, to start Network Camera web configuration, you must have the web browsers installed on computer for web management.

- Microsoft internet Explorer 6.0 or higher

At first, user may use “IP Wizard” utility to search all networked devices in the LAN.

Use “IP Wizard” to locate IP address

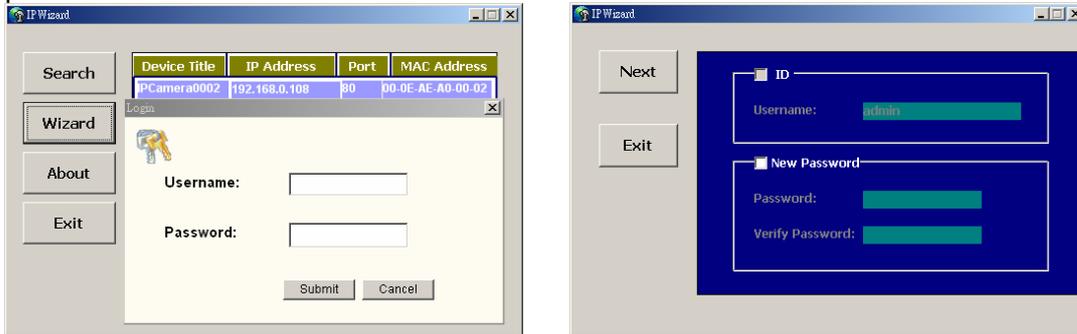
Press “**Search**” button. IP Wizard will list all networked devices in the LAN:



Wizard function:

The utility featured with “**Wizard**” function to help user to modify the IP parameters of the

installed network devices. User can step by step to setup IP address, username and password.



Username and Password:

The networked devices will prompt for User Name and Password. Default username is: **admin, leave password blank.**

Note 1: If no IP address is assigned within 30 seconds, the networked device will automatically assign 192.168.0.100. User may now open your web browser, and key in <http://192.168.0.100> in the address bar of your web browser to logon Network Camera's web configuration page.

Note 2: If you have problem when connecting the network camera to a router, please read user's manual inside CD, the section "Installation to a router".

After connected to networked device, the device will prompt for User name and Password. For the first time, please enter: **admin** as username to continue machine Web Management.



If difficulty is met, please refer to the following steps to establish the connection:

- The networked device must be installed and powered ON.
- If the networked device's default IP Address (**192.168.0.100**) is already used by another device, the other device must be turned OFF until the device is allocated a

new IP Address during configuration.

4. 3G Mobile Phone (3GPP) Usage

The device is 3GPP compatible by default. To view live video over 3GPP, here is a briefly steps. Please check user's manual inside product CD for detail

Step 1: You must apply a 3G mobile phone with 3GPP service. Please contact your 3G telecom service provider for detail.

Step 2: Check that the IP camera has a completely **PUBLIC IP address**, i.e. no ports blocked by a firewall. It is highly recommended that you have a static and public IP address without any firewall blocked

Step 3: check RTSP port and the default port is **554**.

Step 4: **Bitrate**

Setting → Video → MPEG4/QQVGA → Bit rate, set the maximum bit rate to **lower than 128 kbit/s**.

To use the 3GPP function, in addition to previous section, you might need more information or configuration to make this function work.

Note that to use the 3GPP function, it strongly recommends to install the Networked Device with a public and fixed IP address without any firewall protection.

Mobile Phone Dialing procedure:

Step 1: Contact your cell phone provider and make sure that **3GPP service is available**. Support cell phone list please keep contact with your Network Camera sales.

Step 2: **Enable “internet access” function on your mobile phone**. Some telecom will automatically download the setup profile to your mobile phone; some telecom need you call the service center to enable the internet access function

Step 3: Choose a verified **video player, RTSP streaming supported (ex. Realplayer or PacketVideo)**

Step 4-1: Open the video player. Base on your requirement, type either URL address (for firmware version 2.x):

rtsp://host/avN for both audio and video tracks.

rtsp://host/videoN for video track only.

rtsp://host/audio for audio track only.

Where *host* is the host name or IP address of the camera, and *N* is the number of the profile (between 2 and 3) for the video stream.

Step 4-2: For firmware version 3.x:

rtsp://host/mpeg4/media.3gp

Where *host* is the host name or IP address of the camera.

IP camera video or audio will show up on your player now!

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