

EPN Plus Series

IP Speed Dome

Quick Installation Guide



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1. Overview

The EPN Plus series IP Speed Dome comes in two types: **Indoor** (EPN4122i Plus / 4220i Plus) and **Outdoor** (EPN4122 Plus / 4220 Plus).



No.	Item Name	No.	Item Name	No.	Item Name
1	Top Housing	2	Outer Housing	3	Camera Main Body

Packing List

The main box contains 3 large boxes and a small box. Each box contains the items as listed below. Please check that there is no missing item in the package before installing.

- **Box 1:** Top housing with a network connector and tool packet
 - Tool packet (Indoor only): Includes 6 Plastic Anchors and 6 Screws.
- **Box 2:** Camera main body with a tool packet
 - Tool packet: Includes 1 pair of Gloves, 3 Desiccant Packs and 1 Power Terminal Block.
- **Box 3:** Outer housing
- **Small Box:** Power adapter
- **Software CD**
- **Quick Installation Guide**

Note: Contact the shipper if any items appear to have been damaged in the shipping process. If any items are missing, notify your EverFocus Electronics Corp. Sales Representative or Customer Service Branch. Please also keep the shipping carton for possible future use.

2. System Requirement

Before installing, please check that your computer meets this system requirement.

- Operating System: Microsoft Windows XP / Vista (32-bit) / 7 (32-bit)
- Microsoft Internet Explorer 7 or above

3. Cables and I/O Terminal Block

Cable Descriptions

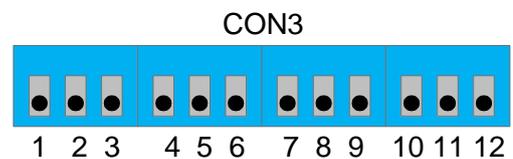
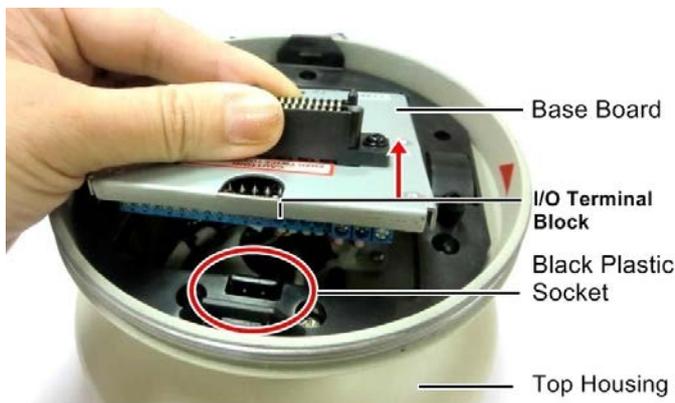


No	Name and Descriptions	No	Name and Descriptions
1	RS-485+ (Yellow): Connects to an RS-485 device.	5	Audio In: Connects to a microphone.
2	RS-485- (Orange): Connects to an RS-485 device.	6	Audio Out: Connects to a speaker.
3	24V AC: Connects to the power adapter.	7	RJ-45 Cable: Connects to the network.
4	Video Cable: Connects to a DVR or monitor.		

Note: Microphones with external power supplies are required.

I/O Terminal Block

The I/O terminal block, located on the rear panel of the Base Board, can be used to develop applications for alarm input and output, motion detection, PTZ control or a variety of other functions.



Pin Assignment

No.	Functions	No.	Functions
1	GND (Ground)	7	ALM_NC_A (Alarm Output Normal Close A)
2	ALM_NO_B (Alarm Output Normal Open B)	8	GND (Ground)
3	ALM_COM_B (Alarm Output Common B)	9	ALMIN1 (Alarm Input 1)
4	ALM_NC_B (Alarm Output Normal Close B)	10	GND (Ground)
5	ALM_NO_A (Alarm Output Normal Open A)	11	ALMIN2 (Alarm Input 2)
6	ALM_COM_A (Alarm Output Common A)	12	GND (Ground)

4. Optional Accessories

- EPTZ-PBOX (External power connection box)



- Pole mount adapter



- Outdoor sunshield



- Wall mount bracket



- EKB500 (RS-485 keyboard)



- Corner mount adapter



- Indoor ceiling pendant mount bracket



- Indoor recessed mount bracket



- Indoor concrete ceiling mount adapter



- EKB200 (USB controller keyboard)



5. Installation

This installation guide provides the basic instructions on installing an EPN Plus series IP camera. For details, refer to the *EPN Plus Series IP Speed Dome User's Manual* in the software CD.

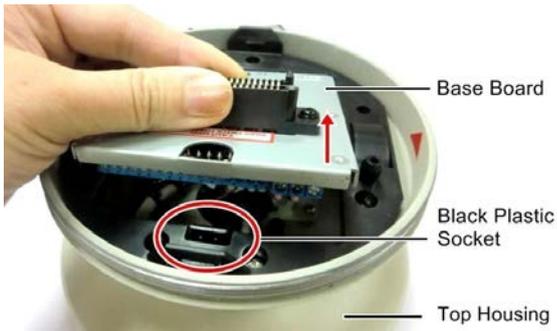
Note: Installation should be handled by a qualified service agent and complied with all local regulations.

Replacing the Desiccant Bags / Inserting a Micro SD Card

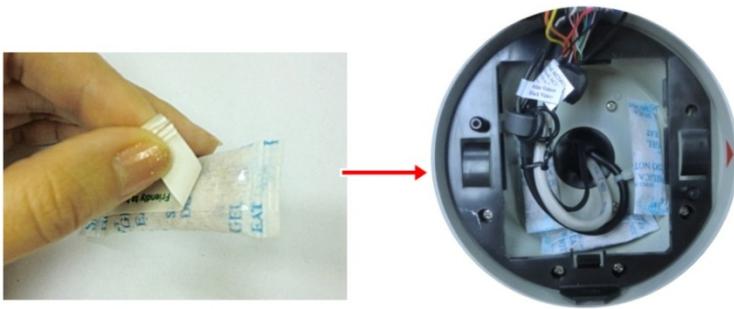
Before installing, insert a micro SD card into the main body and replace the desiccant bags inside the top housing. It is highly recommended to replace the desiccant bags every time when you open the camera.

To replace the desiccant bags:

1. On the Top Housing, slightly press the black plastic socket backward and lift up the base board.



2. Remove the desiccant bags from the top housing.
3. Stick the supplied 3 new desiccant bags inside the top housing. Place back the base board.

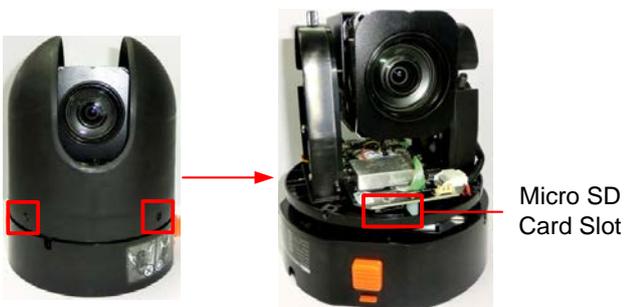


Note: Ensure **Not** to place the desiccant bags under the position of the fan.



To insert a micro SD card:

1. Unscrew the four screws on the camera main body to remove the black housing.



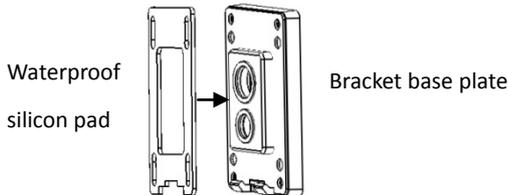
2. Insert the micro SD card to the card slot. Screw back the black housing.

Installing Outdoor Models (EPN4122 Plus / 4220 Plus)

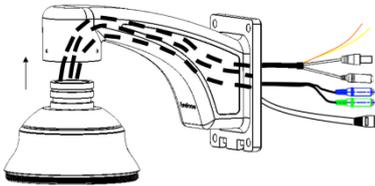
Two mounting types are available for the outdoor models: **Wall Mount** and **Ceiling Mount**.

Wall Mount

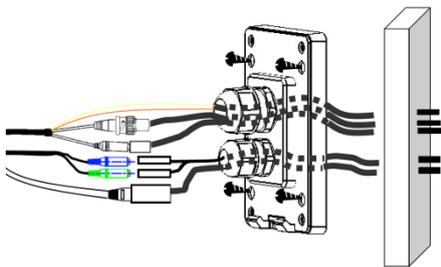
1. Drill 4 screw-depth holes for the bracket base plate and then drill a through-wall hole for the camera cables. You can optionally drill a second through-wall hole to separate cable feeding (see **Step 4**).
2. Attach the waterproof silicon pad to the bracket base plate for waterproofing.



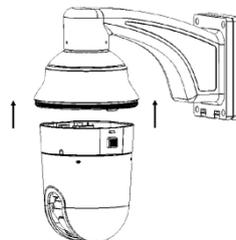
3. Feed the camera's cables through the conduit in the wall mount bracket.



4. Connect the camera's cables to the related devices. Feed the cables of the related devices, such as the speaker, through the wall and then through the holes of the bracket base plate.



5. Screw the bracket base to the wall using the 4 screws.
6. Screw the wall mount bracket to the bracket base using the 4 long screws.
7. Put on the supplied gloves. Line up the red triangles ▲ and then push the main body upward to the top housing. Push the main body upward into the top housing until the orange catches on both sides click into position.



Note: To release the main body, press the two orange release buttons on both sides.

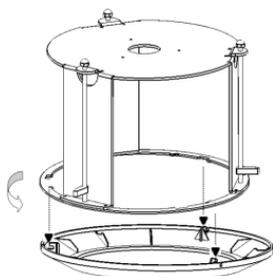


8. Screw the housing cover to the top housing slowly by twisting it clockwise.

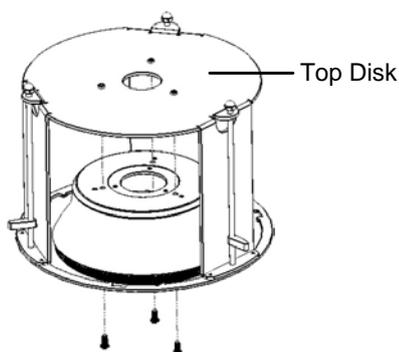
Ceiling Mount

It is required to use the optional Indoor Recessed Mount Bracket and Surface Ring to attach the camera to the ceiling.

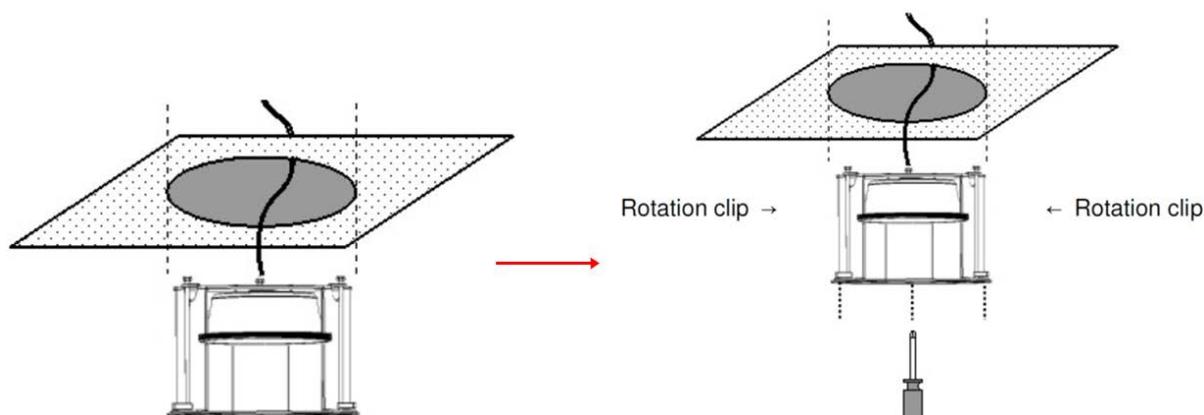
1. Cut a hole on the ceiling using the supplied template.
2. Slightly turn the surface ring and remove it from the bracket.



3. Place and then screw the camera's top housing on the top disk of the bracket using the 3 short screws.



4. Use a cable or other mechanism to hang the bracket on the ceiling. Screw the 3 rotation clips of the bracket on the ceiling using a screwdriver.



5. Put on the supplied gloves and then push the main body upward to the top housing. See **Step 7** in *Wall Mount*.
6. Screw the housing cover to the top housing slowly by twisting it clockwise.
7. Slide the surface ring to the fillister on the bracket.

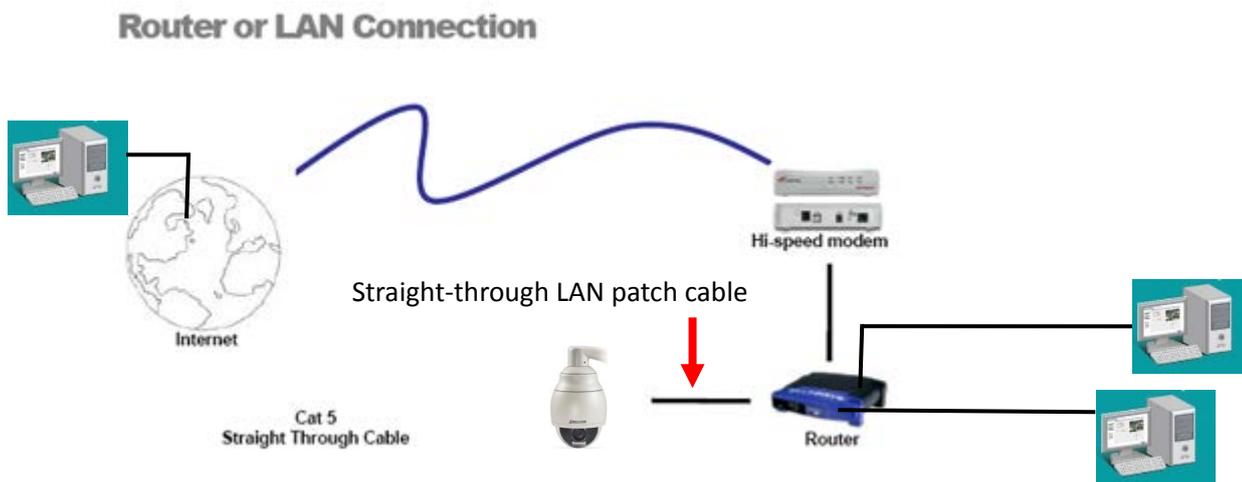
Note: When you turn on the power, the camera will enter self-inspection mode and run a self-testing program. Once this is complete, you will be able to operate it via any IP network.

6. Network Connections

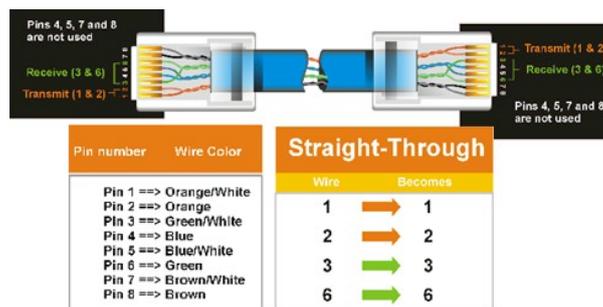
You can use one of the methods below to connect the camera to the network.

Router or LAN connection

This is the **most common connection** in which the IP camera is connected to a router and allows multiple users on and off site to see the IP camera on a LAN/WAN (Internet). The camera must be assigned an IP address that is compatible with its LAN. By setting up port forwarding on the router, you can view cameras from outside of the LAN via the Internet. To remotely access the Web interface of the IP camera, please refer to 7.3.2 DDNS in the *User's Manual*. To set up port forwarding, please consult the manual of the router.



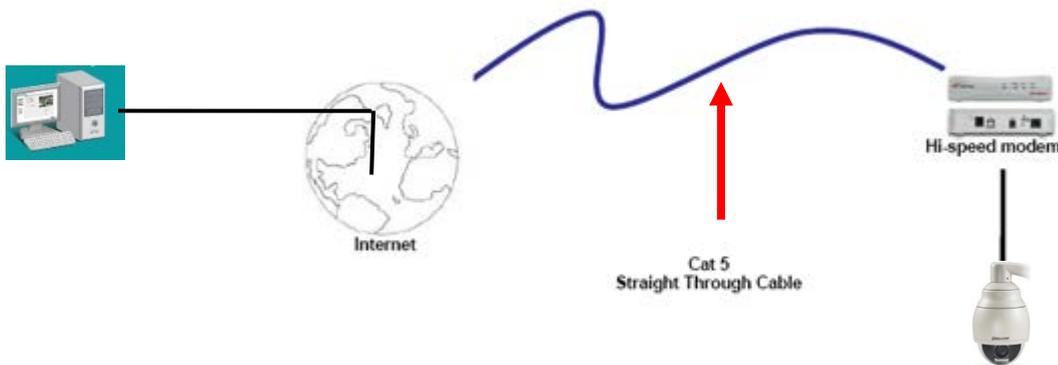
Right: Pinout of a straight-through cable.



Direct High-Speed Connection

In a Direct High-Speed Connection, the camera connects directly to a modem without the need for a router. You need to set the static or dynamic WAN IP address assigned by your ISP (Internet Service Provider) in the camera's configuration web pages. To access the camera, just type "<http://xxx>", where xxx is the IP address given by your ISP. If you have a dynamic IP address, this connection may require that you use DDNS for a reliable connection. Please refer to 7.3.2 DDNS in the *User's Manual*.

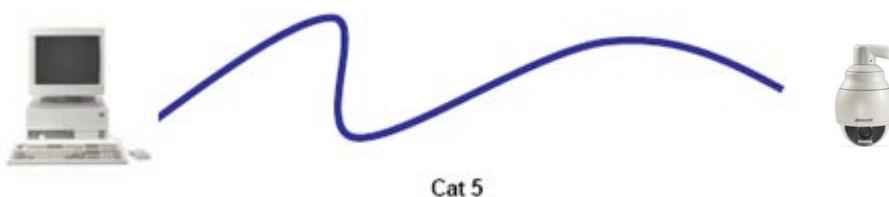
Direct High Speed Modem Connection



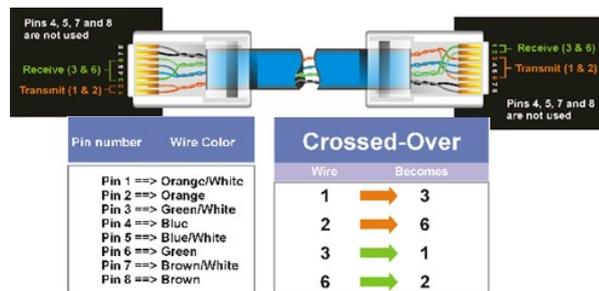
One-to-one Connection (Directly from PC to IP Camera)

You can connect directly without using a switch, router or modem. However, only the PC connected to the camera will be able to view the IP camera. You will also have to manually assign a compatible IP address to both the computer and the IP camera. Unless the PC has another network connection, the IP camera will be the only network device visible to the PC. See the diagram below:

Simple One to One Connection



Right: Pinout of a crossed-over cable.

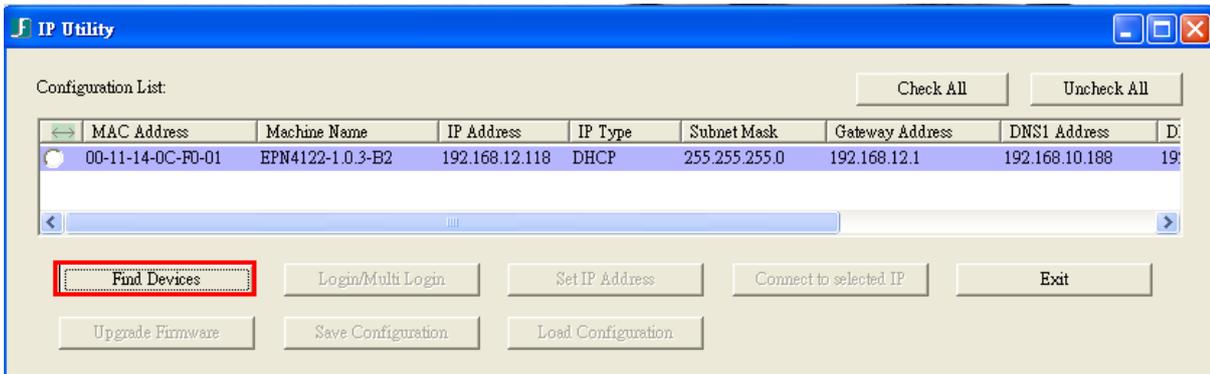


7. Assigning an IP Address

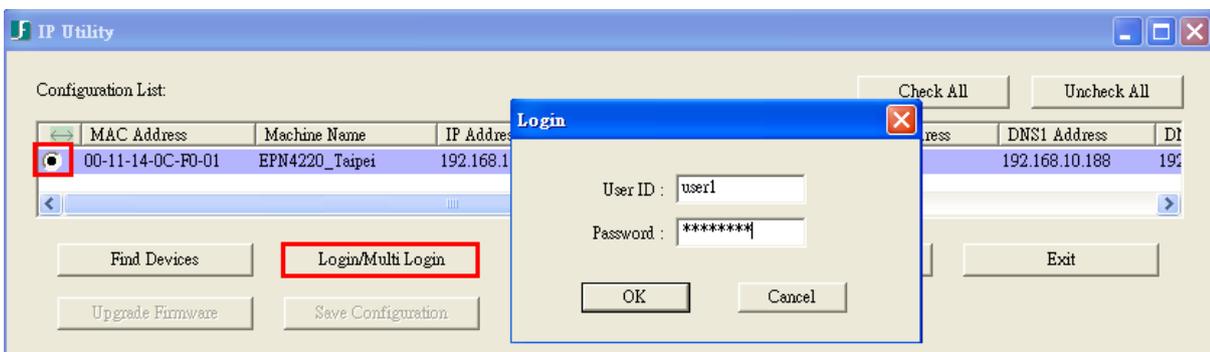
You can assign an IP address to the camera using the **IP Utility (IPU)** software, which is included in the software CD.



1. Install and then start the IPU program . The following dialog box appears.



2. Click **Find Devices** to search the cameras connected in the LAN. The default network values of the cameras will be displayed. By default, the network protocol of the camera is **DHCP**.
3. To configure the network settings, select a camera and then click **Login/Multi Login** to log in.

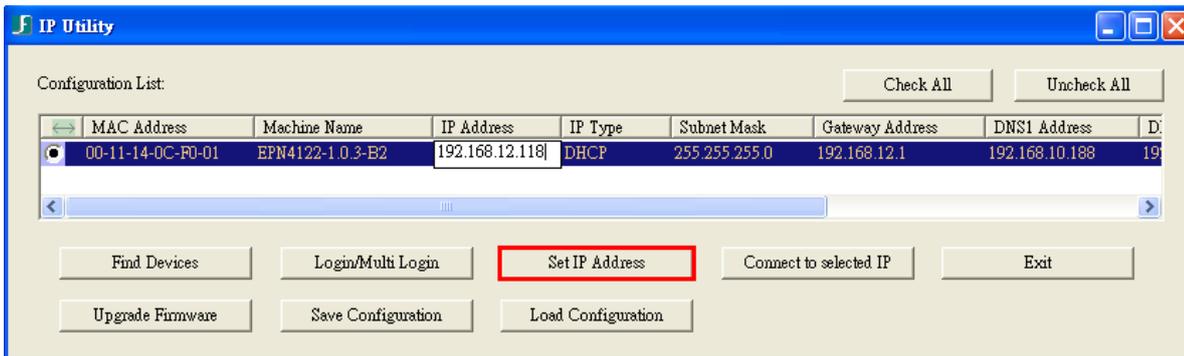


4. Type the user ID and password. Click **OK**.

Note:

1. The default user ID is **user1** and the default password is **11111111**.
2. If you select more than one camera that has the same user ID / password, you will be able to log in several cameras at once.

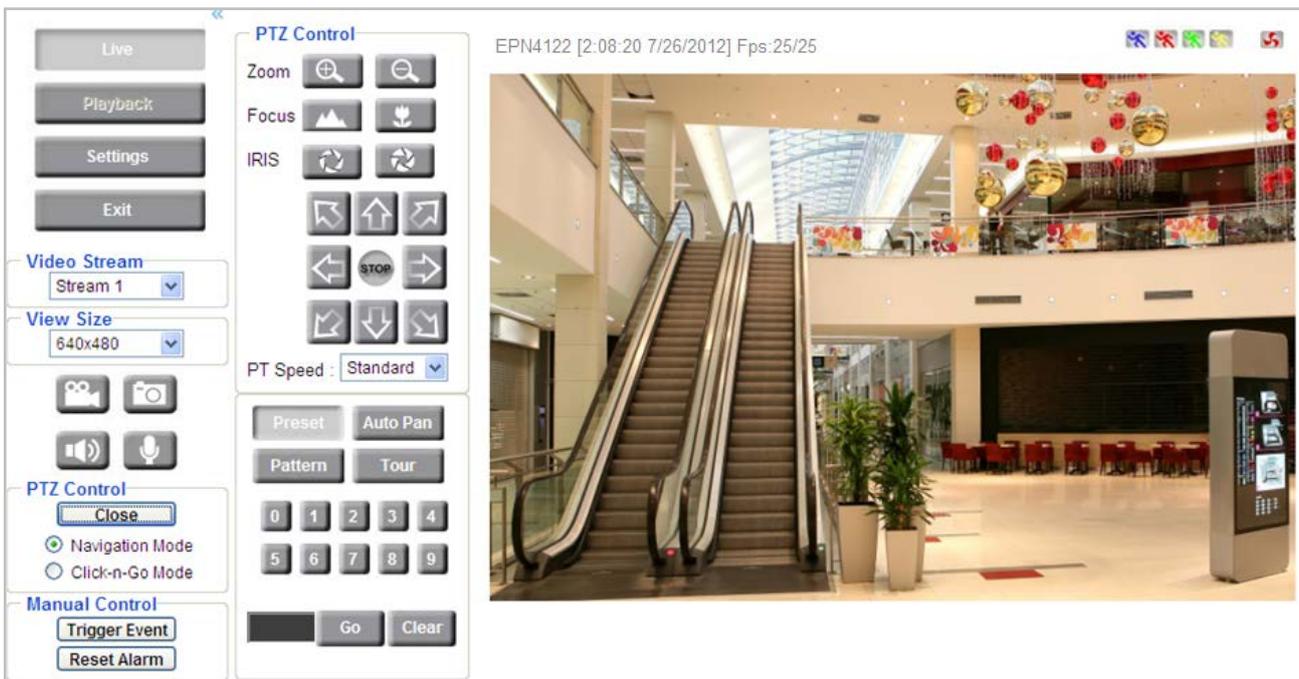
- To change the IP address, double-click the IP Address of the camera. Type a new IP address and then click **Set IP Address** to save the settings.



You can also change the other settings by double-clicking the values. After configuring the values, click **Save Configuration**.

Note: Most networks support DHCP protocol, but if you are unsure of your network protocol, please consult your IP administrator for network configuration details.

- To access the camera, highlight the camera and click **Connect to Selected IP**. The Internet Explorer window pops up.
- Type the user ID and password to log in. The Live View window of the camera appears.



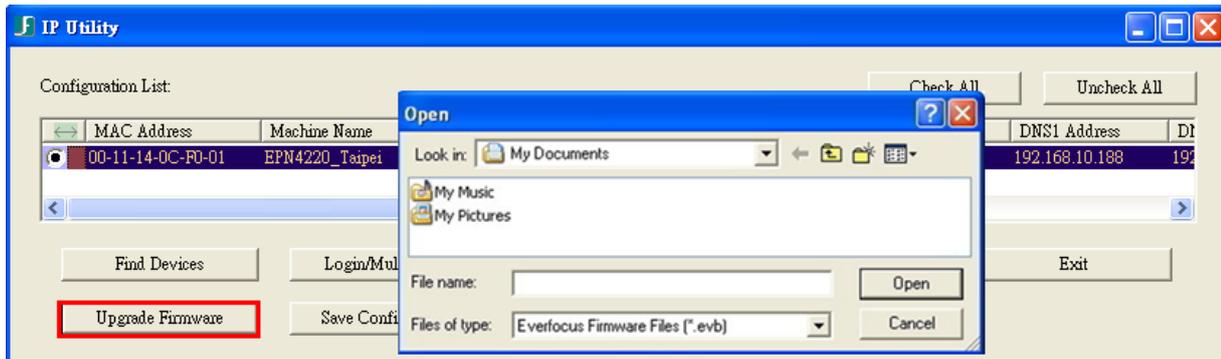
Note:

- You might be required to download **ActiveX** for viewing the camera feed. If asked, click **Yes**.
- To enable Remove Live View, Firmware Upgrade and ActiveX Prompt on Internet Explorer, some settings have to be complete. Please refer to *4.2 Settings for Microsoft Internet Explorer* in the *User's Manual*.

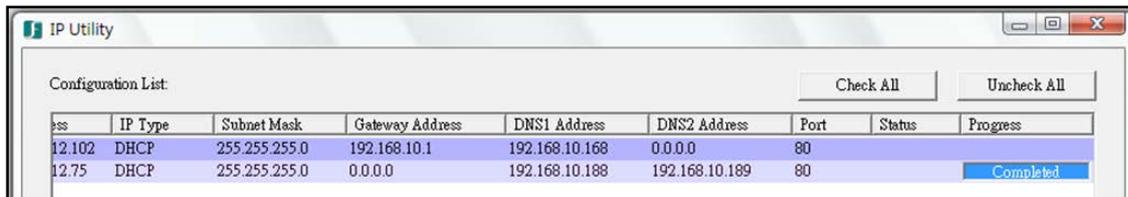
8. Upgrading Firmware

You can upgrade camera's firmware using the **IP Utility** software, which is included in the software CD.

1. Follow **Step 1** to **Step 4** in *7. Assigning an IP Address* to log in the camera.
2. Highlight the camera and then click **Upgrade Firmware**. A browsing window appears.



3. Select the **firmware file (.evb)** and then click **Open**. The IP Utility will automatically upgrade the firmware.



The camera will reboot once the update is complete. Click **Find Devices**, the new firmware version should be displayed in the last part of the Machine Name.

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