

EAN Plus Series

IP Box Camera

Quick Installation Guide



*** Lens not included.*

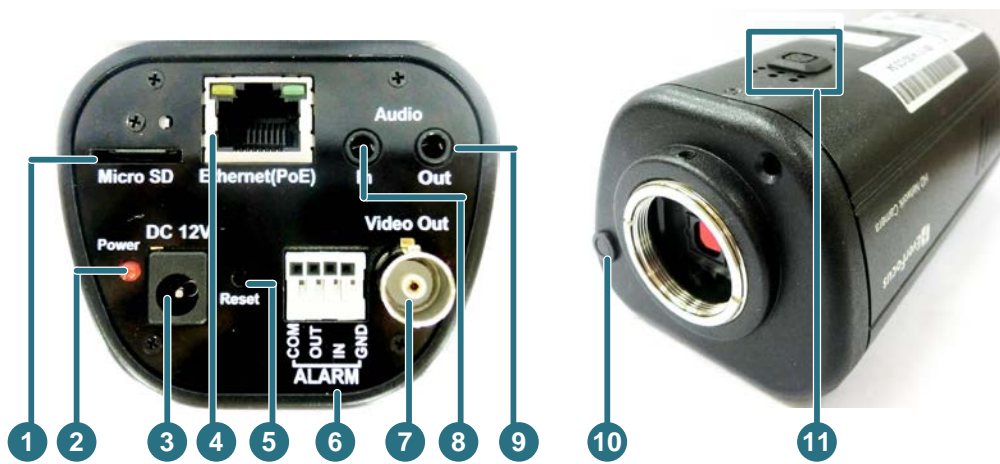


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Release Date: October, 2012

1. Overview

The EAN Plus Series is a box type IP camera designed for indoor use. The series comes in four models: **EAN3120 Plus / 3220 Plus / 3300 Plus.**

Model Name	Megapixel	WDR
EAN3120 Plus	1.3 MP	Yes
EAN3220 Plus	2 MP	Yes
EAN3300 Plus	3 MP	No



No.	Item Name	Descriptions
1	Memory Card Slot	Insert a micro SD / SDHC card to store recording data.
2	Power LED	Indicates the power is supplied.
3	DC 12V Port	Connects to power.
4	Ethernet / PoE	Connects to a 10/100 Ethernet or PoE.
5	Reset Button	Resets all configurations to factory default.
6	I/O Terminal Block	Connects I/O devices.
7	Video Out	Connects to a portable monitor for setting the focus and angle of the camera during initial installation.
8	Audio In	Connects a microphone for audio input. Note that microphones with external power supplies are required.
9	Audio Out	Connects a speaker for audio output.
10	Light Sensor	Detects lights.
11	Auto Iris Lens Connector	Plug the iris control cable to the connector.

System Requirements

Before installing, please check that your computer meets the following system requirements.

Operating System	Microsoft Windows XP / Vista (32-bit) / 7 (32-bit)
CPU	Intel Core2 Duo 2 GHz or higher
RAM	1 GB or more Additional HD space depends on required local storage of video files, 100 Mbps network card.
Screen Resolution	1024 x 768 pixels or higher, 32-bit pixel color resolution
Software	DirectX 9.0c Microsoft Internet Explorer 7 or higher

Packing List

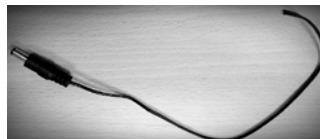
- EAN Plus Series Camera (lens not included) x 1
- Software CD x 1
- Quick Installation Guide x 1
- Tool Packet x 1 (contains the following items)
 - C-mount lens adapter
 - ¼-20 UNC thread mounting bracket and 2 screws



- Hexagon wrench



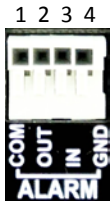
- Power pigtail cable



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. I/O Terminal Block

The I/O terminal block, located on the rear panel of the camera, can be used to develop application for alarm input and output.



Pin Assignment

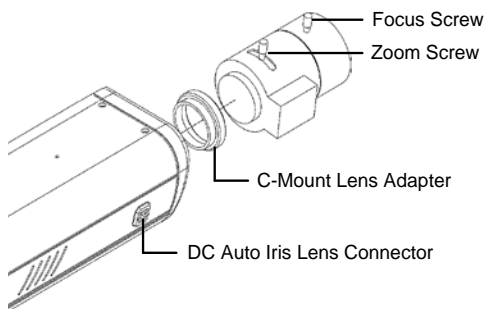
No.	Function	No.	Function
1	Alarm COM	3	Alarm Input
2	Alarm Output	4	Digital GND

3. Installation

This installation guide provides the basic instructions on installing an EAN Plus box IP camera. For details, please refer to the *User's Manual* in the software CD.

3.1 Lens Installation and Adjustment

You can install either a CS-mount or a C-mount lens into the camera. It is recommended to use a lens with aperture ratio of F/1.4 or smaller. Please refer to the following reference steps.

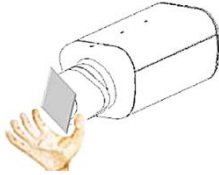


CS-Mount Lens:

1. Remove the cover cap from the camera body.
2. Install the lens into the camera body.
3. Adjust the lens using the Focus / Zoom crews.

If you are using a **DC Auto Iris lens**:

1. Remove the cover cap from the camera body.
2. Install the lens into the camera body.
3. Connect the DC cable to the DC Auto Iris Lens Connector.
4. When making final focus adjustment, place the ND filter (not supplied in the package) in front of the lens to force the lens iris to open, and then adjust the lens using the Focus / Zoom Screws.



5. Lock the Focus Screw and then remove the ND filter.

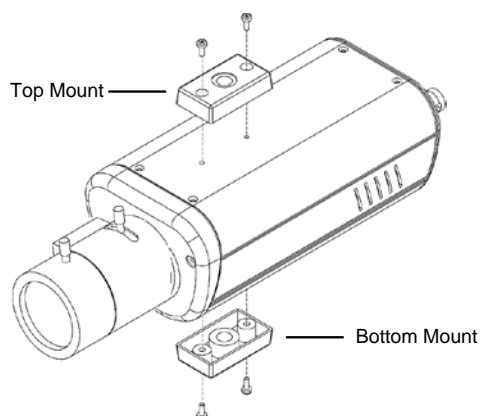
C-Mount Lens:

1. Remove the cover cap from the camera body.
2. Install the lens into the camera body using the supplied C-mount lens adapter.
3. Adjust the lens using the Focus / Zoom Screws.

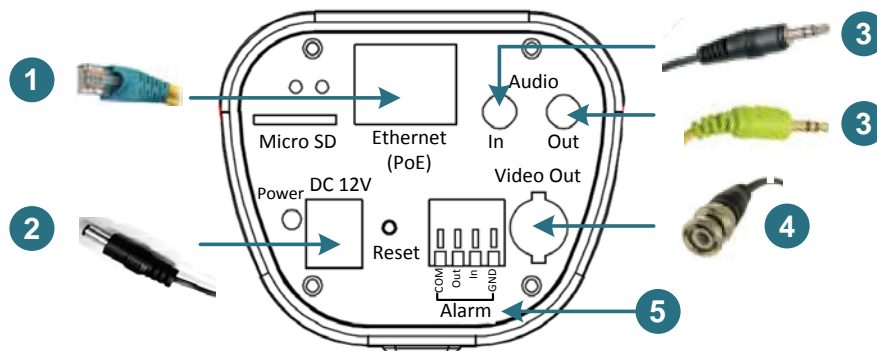
Note: Installing a C-mount lens without the C-mount lens adapter may damage the camera sensor.

3.2 Top / Bottom-Mount

You can use the supplied mounting bracket and screw it on the top of the camera body to suspend the camera, or on the bottom of the camera body to support the camera.



4. Basic Connection



1. Use a standard network cable to connect the camera to the network.
2. Connect the camera to power using one of the following methods:
 - Plugging the supplied power pigtail cable to the DC 12V port.
 - Using the PoE function and the power will be provided over the network cable.
3. Optionally connect the camera to a speaker and microphone. Note that microphones with external power supplies are required.
4. Optionally connect the camera to a monitor using a BNC cable.
5. Optionally connect the camera to the input / output devices.

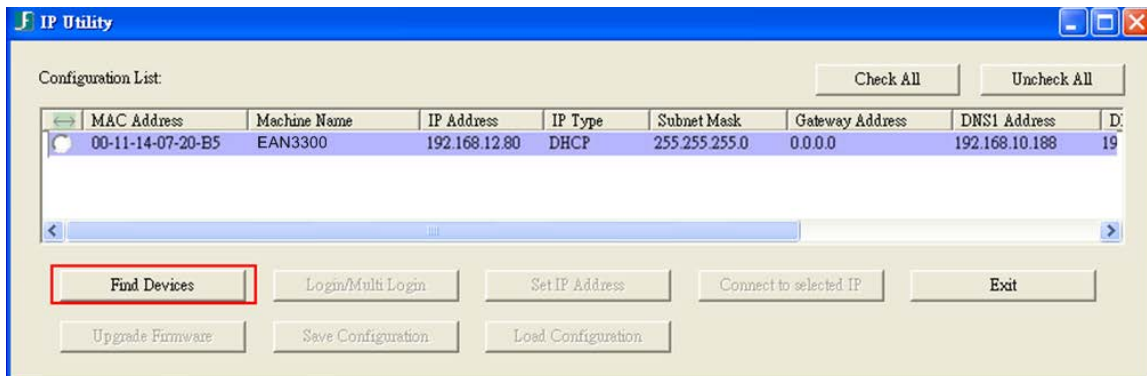
After powering the camera, the power LED will be lit in red and you can access the live view and adjust the image clarity.

5. Accessing the Camera

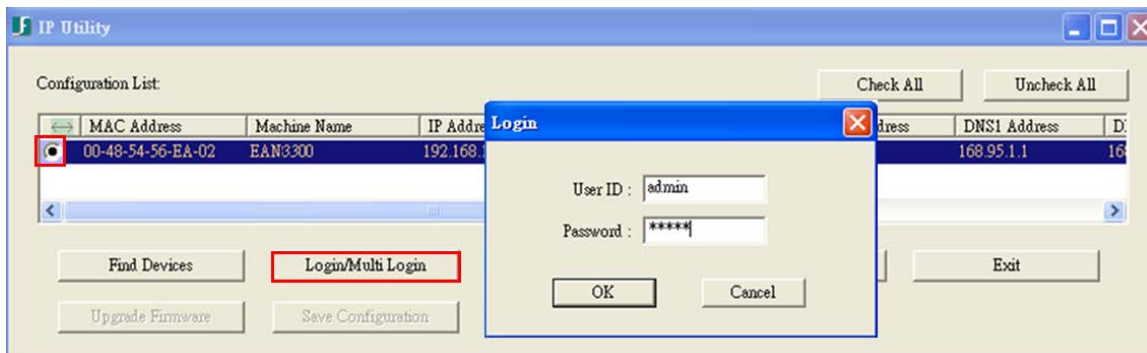
You have to assign an IP address for your camera to be accessible. To assign an IP address to the camera, use the **IP Utility (IPU)** software included in the software CD. Please connect the camera in the same LAN of your computer.



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.

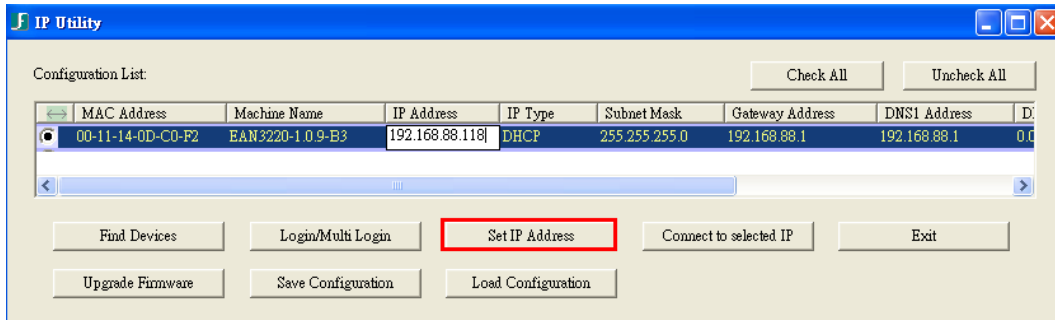


4. Type the user ID and password. Click **OK**.

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.

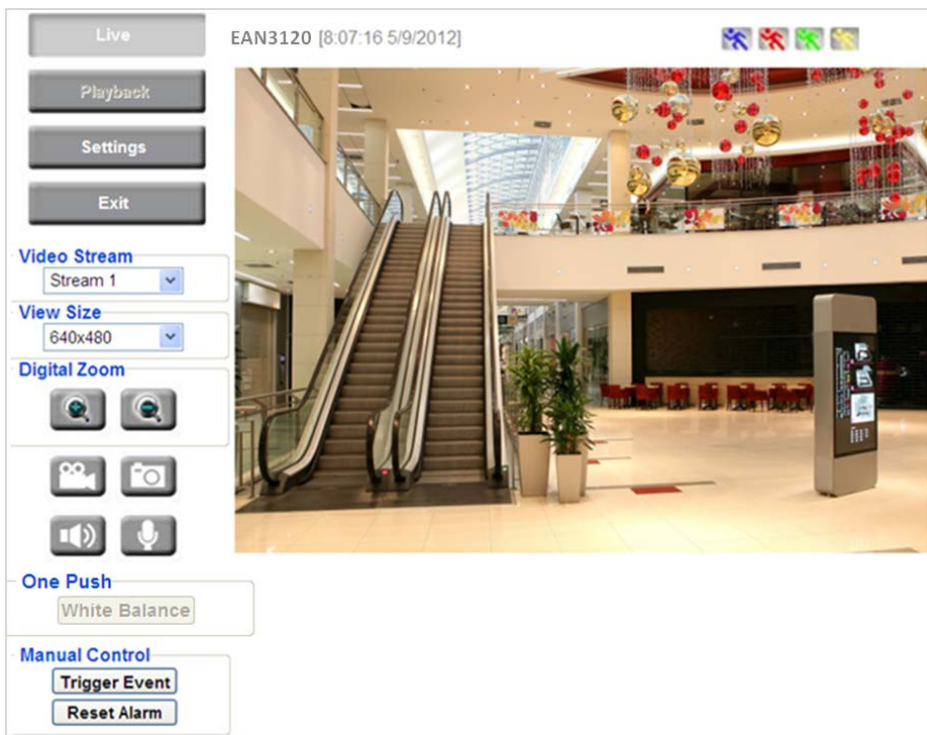
- To change the IP address, double-click the IP Address of the camera. Type a new IP address and then click **Set IP Address** to save the settings.



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

Note: Most networks uses DHCP to assign IP address, if you are unsure of your network settings, please consult your network administrators for 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:

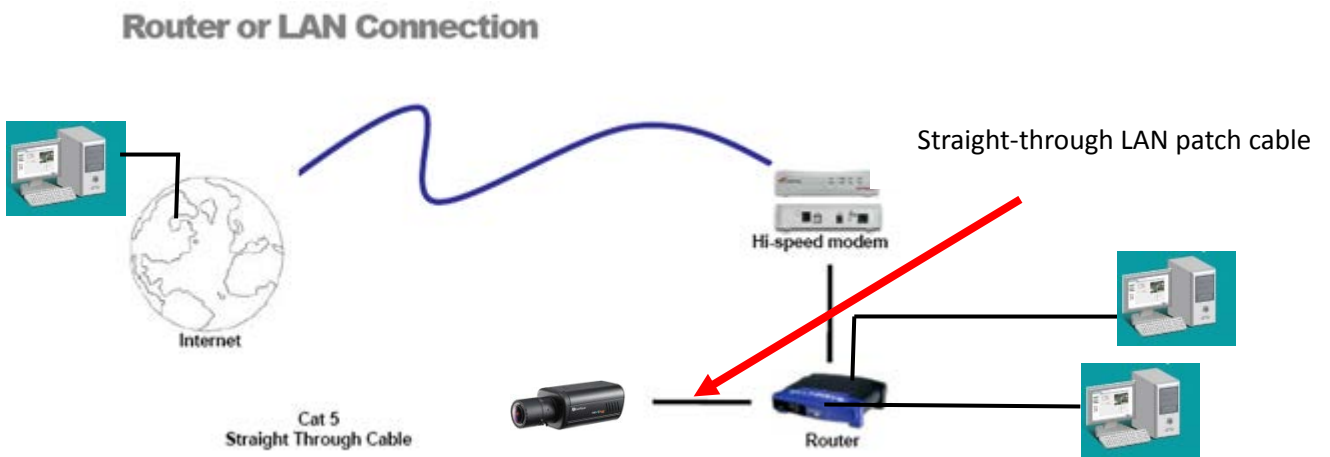
- You might be required to download **ActiveX** for viewing the camera feed. If asked, click **Yes**.
- To enable Remove Live View, Firmware Upgrade and ActiveX Prompt on Internet Explorer, some settings have to be complete. Please refer to *5.2 Settings for Microsoft Internet Explorer* in the *User's Manual*.

6. Network Connections

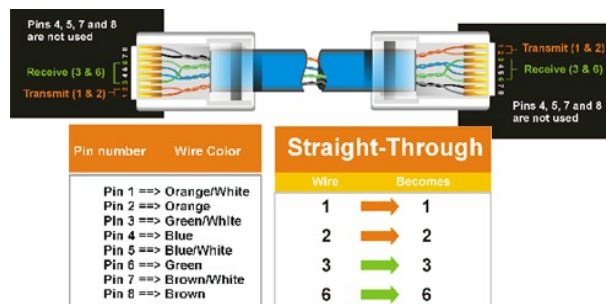
You can use one of the methods below to connect the camera to the network.

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 remotely access the 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.



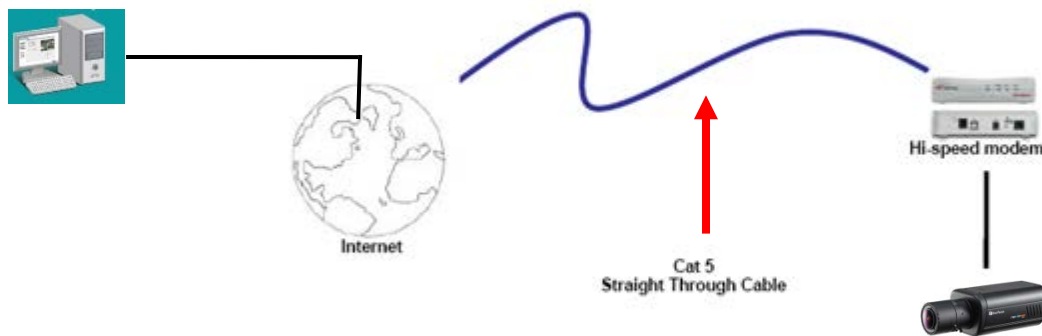
Right: Pinout of a straight-through cable.



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*.

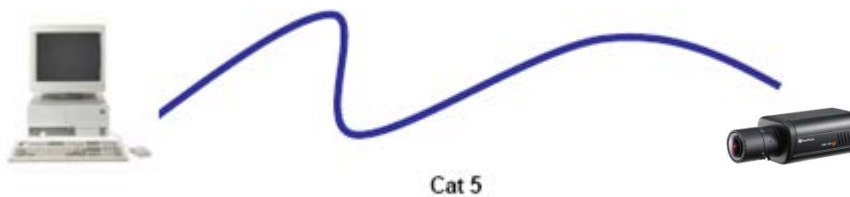
Direct High Speed Modem Connection



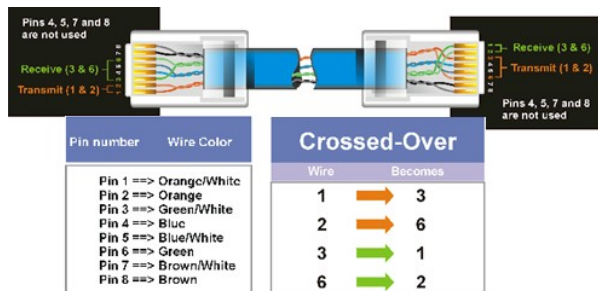
One-to-One Connection (Directly from PC to IP Camera)

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



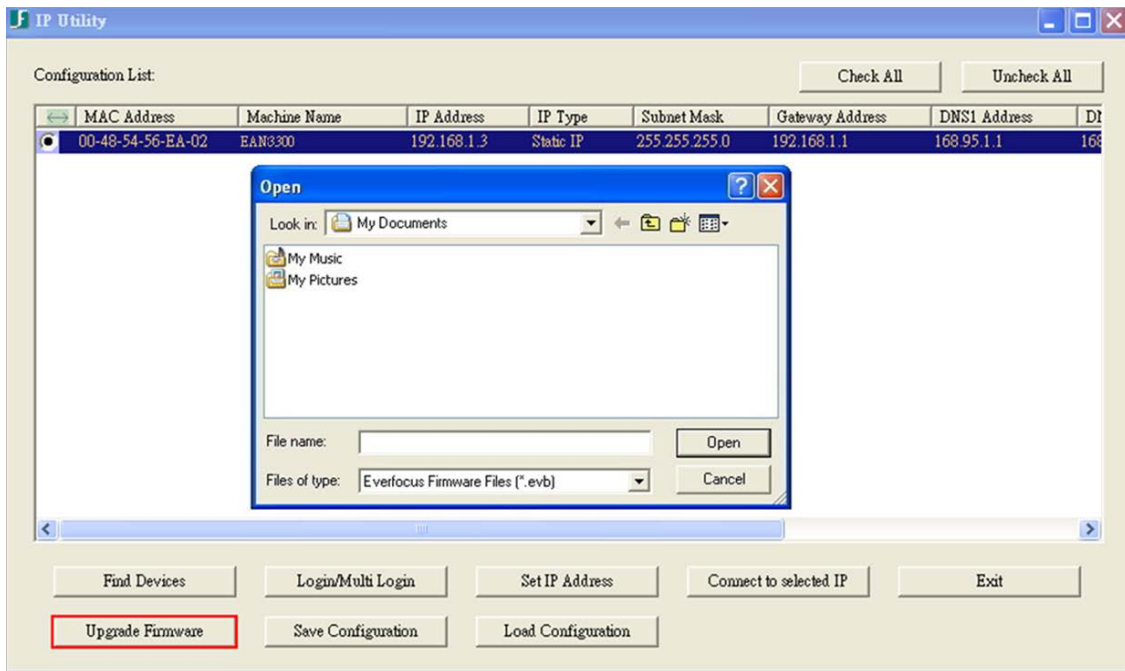
Right: Pinout of a crossed-over cable.



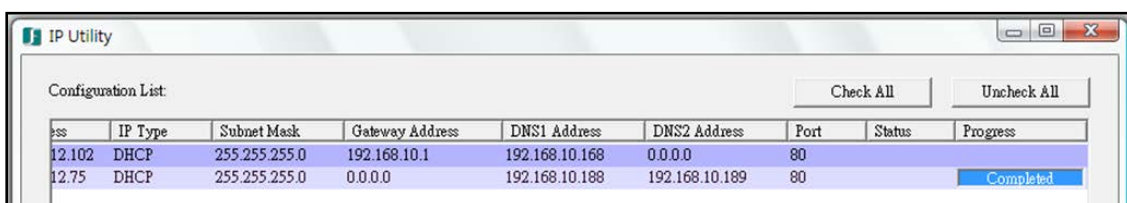
7. Upgrading Firmware

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

1. Follow **Step 1** to **Step 4** in *5. Accessing the Camera* 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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