EVS410



Installation Guide

EverFocus®

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This installation guide provides instructions for basic wiring of the EVS410 video encoder. For all other aspects of using this product, please refer to the EVS410 User's Manual, which is available on the CD included in this package.

Installation steps

1. Please confirm that all of the accessories have been supplied with the video encoder as per the list below.
2. Confirm that your PC meets the minimum hardware and software requirements listed below.
3. Understand the front and rear panel. Please see "Front and Rear panels" on page 4.
4. Network Connection. 3 typical types of network connection. Please see "Network Connection" on page 6.
5. Set an IP address. Please see "Assign IP address" on page 8.

Package Contents


Please be careful when you unpack the box and the electronic device inside.

Check and make sure that you have all the items listed below inside the original box:

- Video Encoder (x1)
- Mounting Kit to mount the encoder to a wall
    - 4 x screws
    - 4 x expand screws
- Terminal block connectors
    - Alarm in: 1 x 6-pin connector
    - Alarm Out: 1 x 3-pin connector
    - RS-485: 1x 3-pin connector
- Power adaptor (x1)
- Power cable (x1)
- Printed Installation Guide (x1)
- Software APs including user's manual CD (x1)

Minimum Computer Requirements

-CPU: Intel Core2 Duo 2 GHz or higher

-Memory: 1 GB RAM 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

-Operating system: Microsoft Windows XP, Windows Vista(32bit), Windows 7(32bit)

-Software: DirectX9,0c, Internet Explorer 6.0 or higher

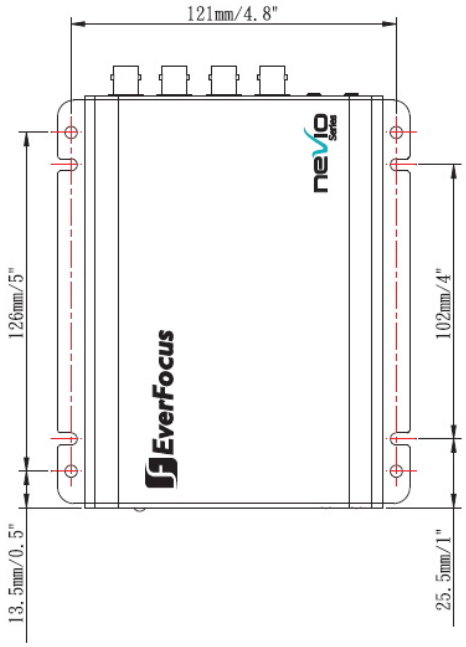
Note: Please connect to Microsoft's Web Site for downloading.

For example: (This web site may change without notices.)

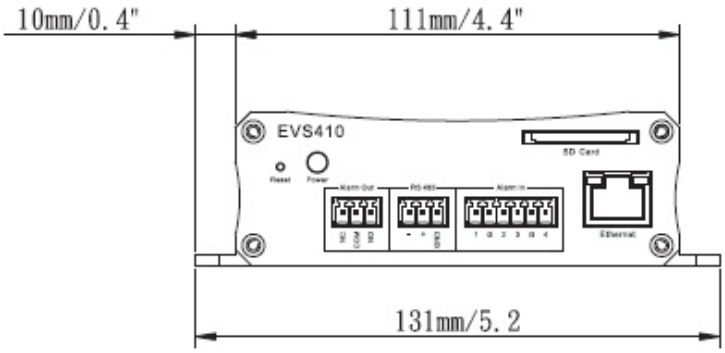
http://www.microsoft.com/downloads

Dimensions

Top view

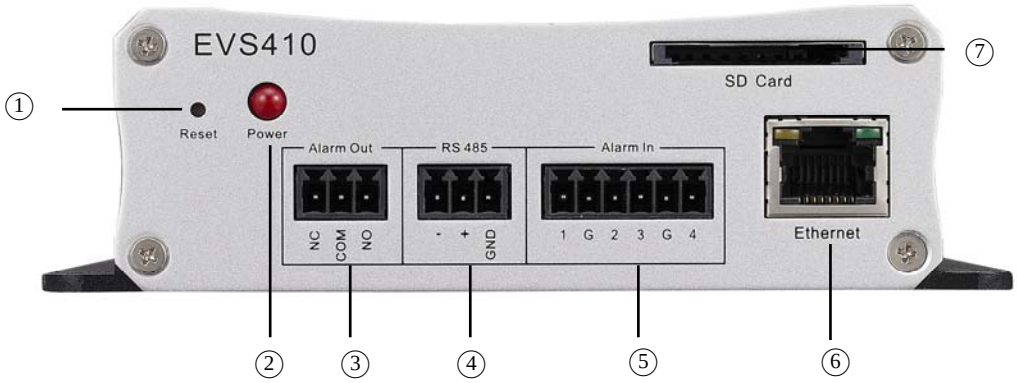


Front view



1. Front and Rear Panels

Front Panel Indications



① Reset: Loading factory default configuration by pressing the button, which inside this hole. Please insert the keen-edged device to the hole for 5 seconds.

② Power: Power LED when power is ON.

③ Alarm Out: Connect alarm devices to alarm output port of EVS410.

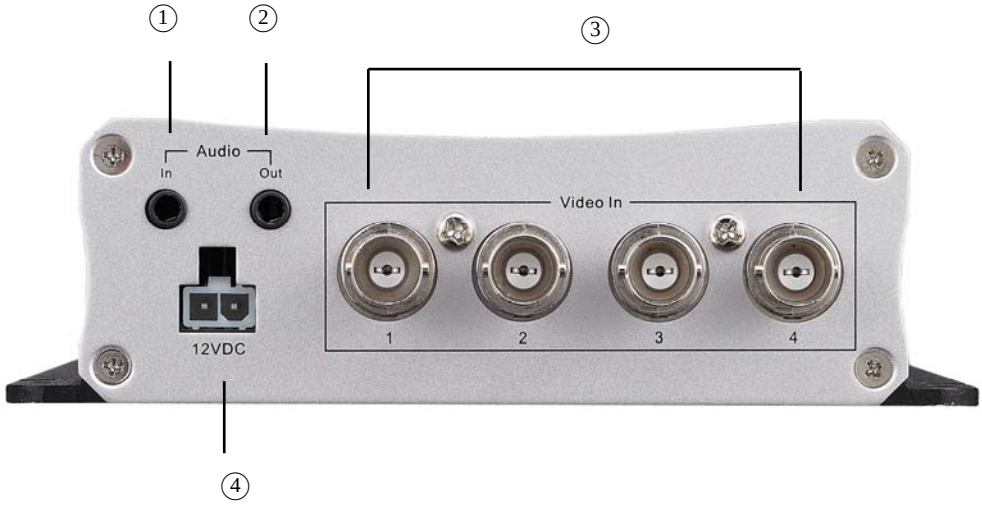
④ RS485: Connect a PTZ to RS-485 port of EVS410.

⑤ Alarm In: Connect alarm input devices to Alarm-in connector.

⑥ Ethernet: Ethernet RJ-45 port: Connect to LAN via this standard RJ-45 connector.
Yellow indicator light: On means 100Mbps, Off means 10Mbps.
Green indicator light: On means link, flicking means active, Off means link fail.

⑦ SD Card: Slot to insert SD card.

Rear Panel Indications



① Audio In: Audio input for recording. Connect audio source to audio-in connector.

② Audio Out: Connect an audio output signal to other audio device.

③ Video In (1~4): Analog video input from Camera 1~4.

***Note**: Please connect Video In 1 before turn the device ON, then EVS410 will detect video format automatically.*

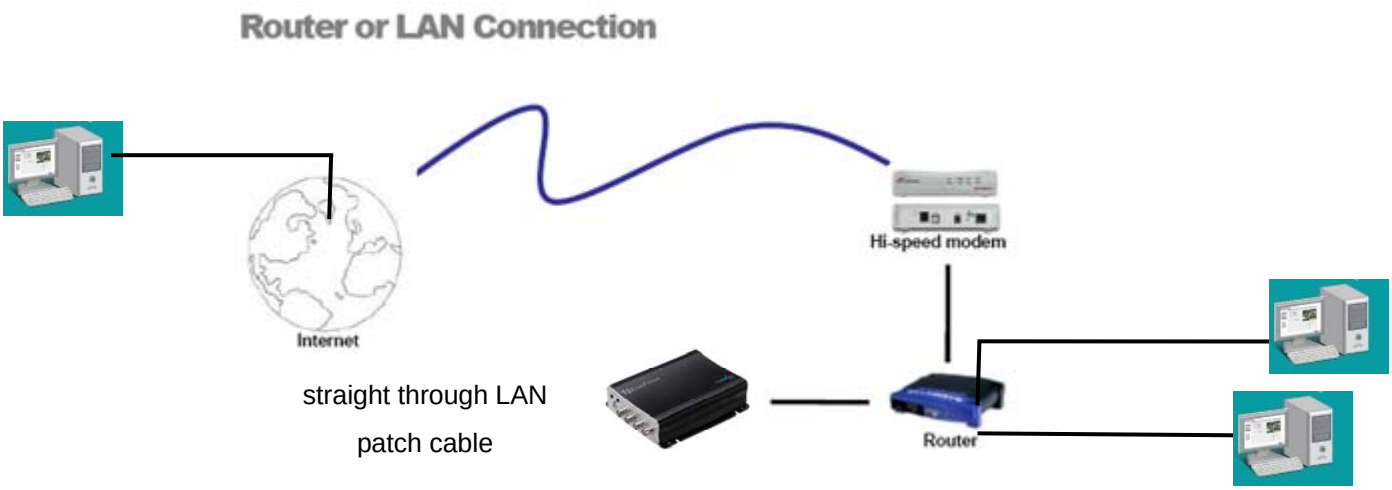
④ Power Input: Connect to 12VDC power source.

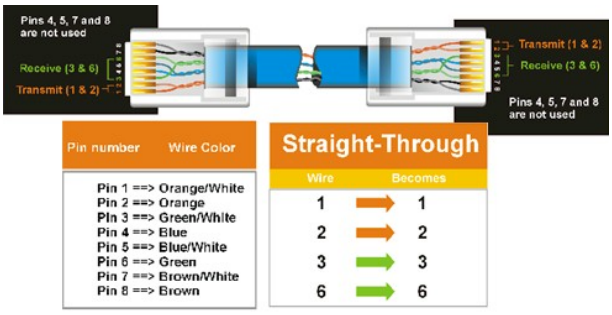
2. Network Configuration

This section illustrates connecting different types of network topologies to video encoder.

a. Router or LAN connection

This is the most common connection that allows multiple users on and off site to see IP cameras/video encoders on a LAN/WAN through a router. The video encoder must be assigned an IP address compatible with the LAN. By setting up port forwarding, you can view video encoders from outside of the LAN via the Internet or other WAN connection.

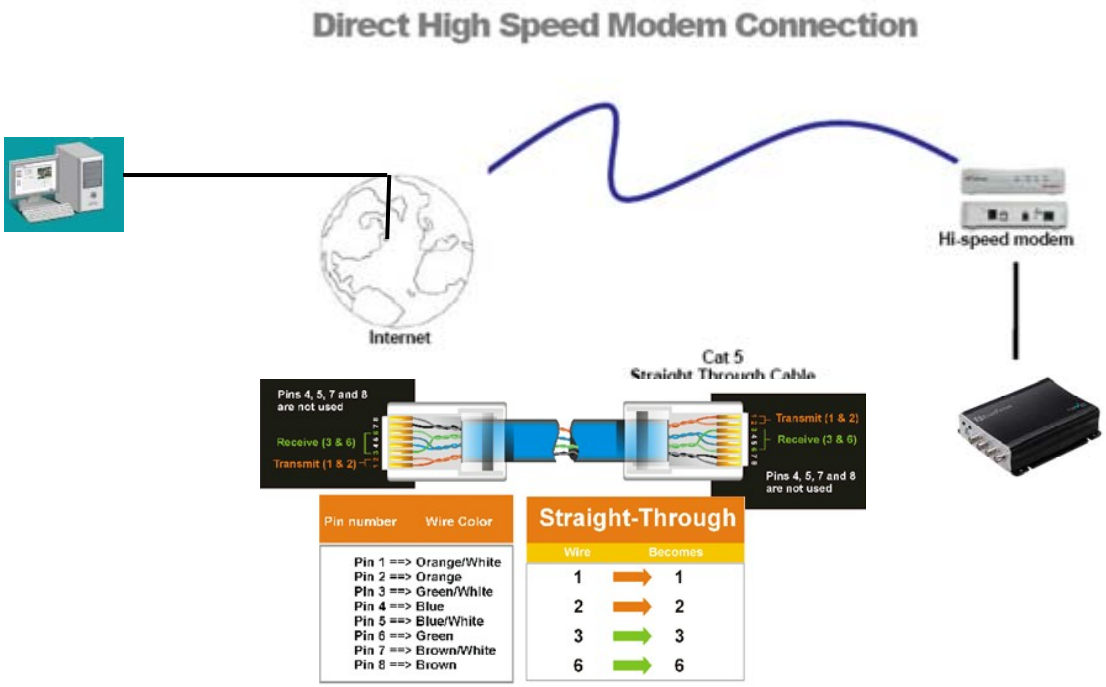




Pinout of straight patch cable

b. Direct High Speed Connection

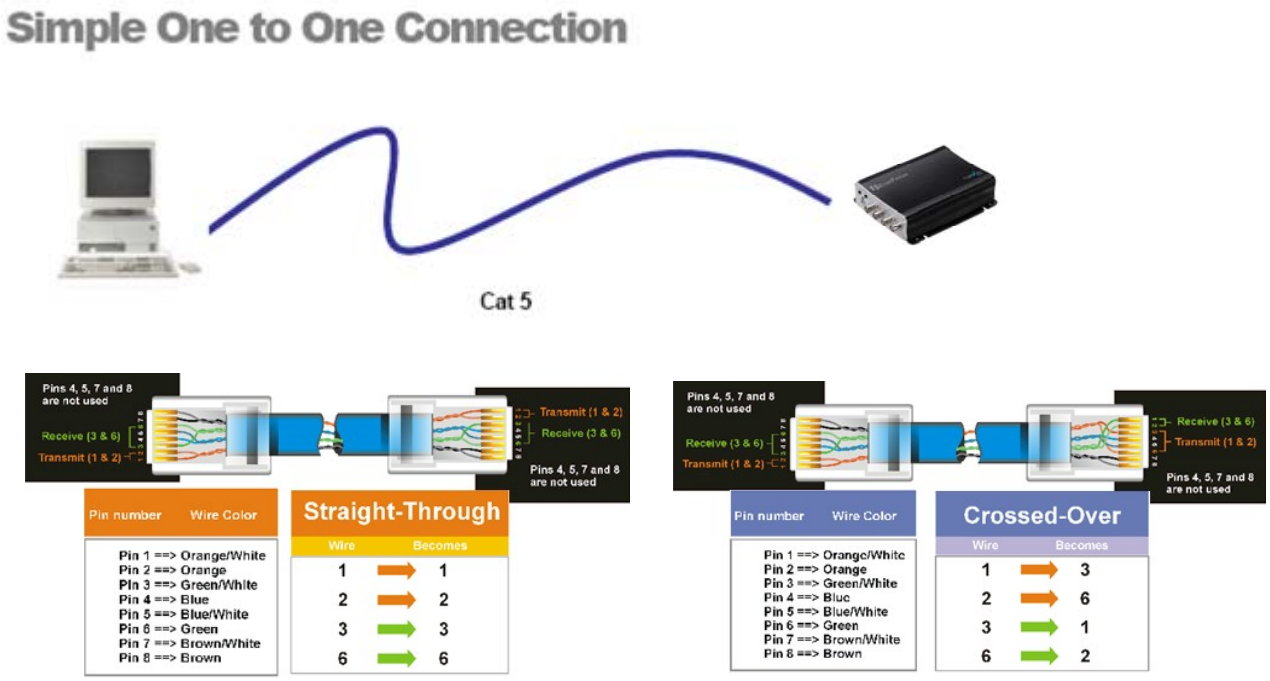
In a Direct High Speed Connection the video encoder connects directly to modem without a router. You need to set the WAN IP address assigned by the Internet service provider (static or DHCP) in the IP camera/Encoder. To access the video encoder, just type http:// IP address from your Internet provider. If you have a dynamic IP address, this connection may require that you use DDNS for a reliable connection. Please see User Manual Section 4.3.2.



Pinout of straight patch cable

c. One to one connection from PC to video encoder

You can connect directly without switch. However, only the PC connecting to device can view the video encoder; it will be necessary to manually assign compatible IP addresses to both devices; and, unless the PC has another network connection, the video encoder will be the only network device visible to the PC.



Pinout of straight patch cable

Pinout of crossover-cable

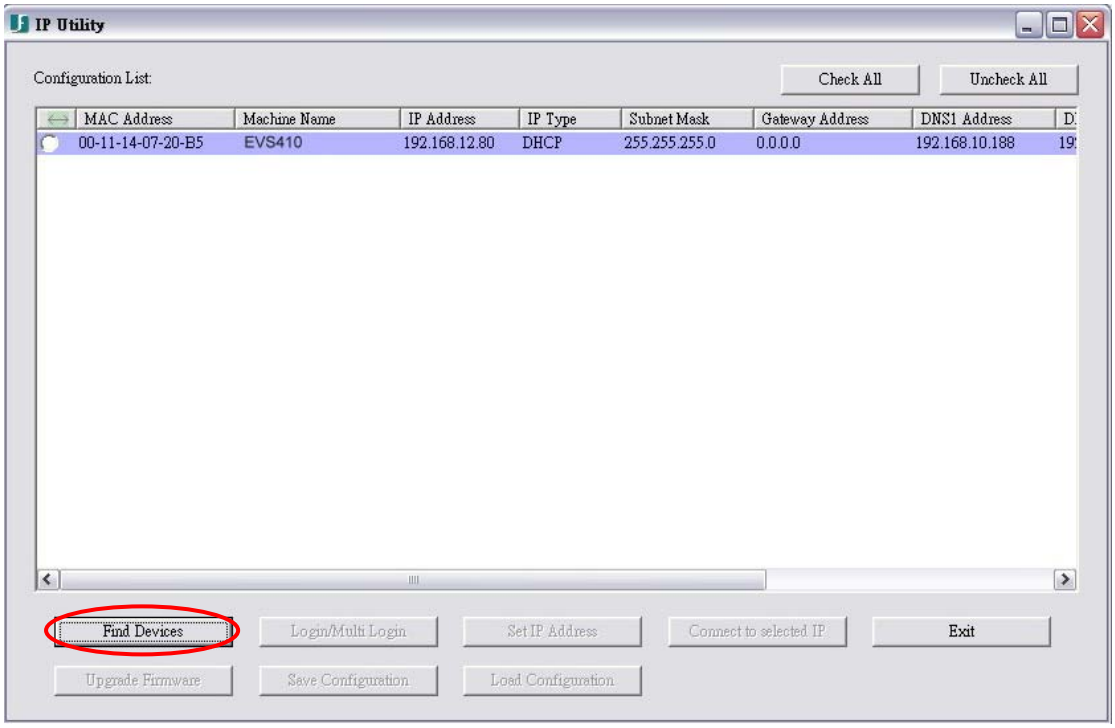
3. Assign IP Address

Please install the IP utility software from the CD before you go through the following process. Please note the following procedures are an example according to EVS410 default values. These values may vary with your network system. Please consult your ISP or network administrators for the proper settings for your network environment. IP utility (on the supplied CD) is the recommended tool to assign and IP address. The default network setting for the video encoder is **DHCP.** Once you access the video encoder, you can change the TCP/IP settings for your own network environment.

1. Launch the IP Utility.



2. Click the “Find Devices” button.

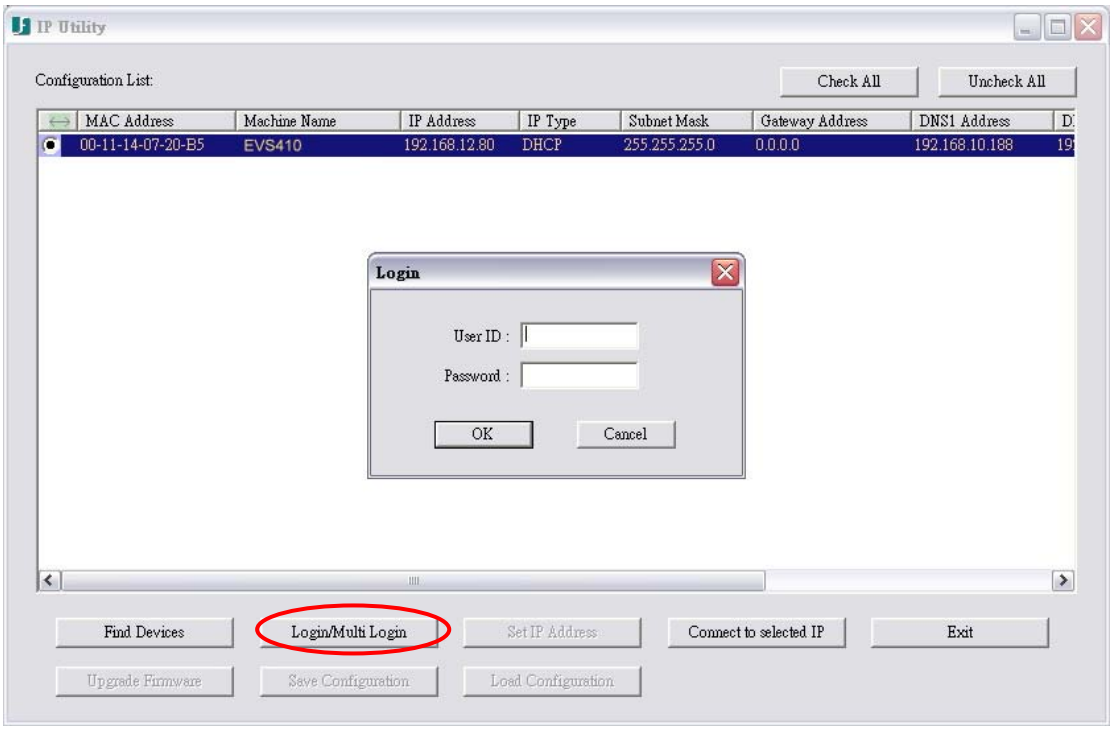


This proves the connection to the device and displays the device network configuration details including Mac Address, Machine Name, IP Address, IP Type, Subnet Mask, Gateway Address, DNS1 Address, DNS2 Address, Port, Status and Progress.

The information for all the devices found will be automatically detected and shown in the window. Select/click on the desired device.

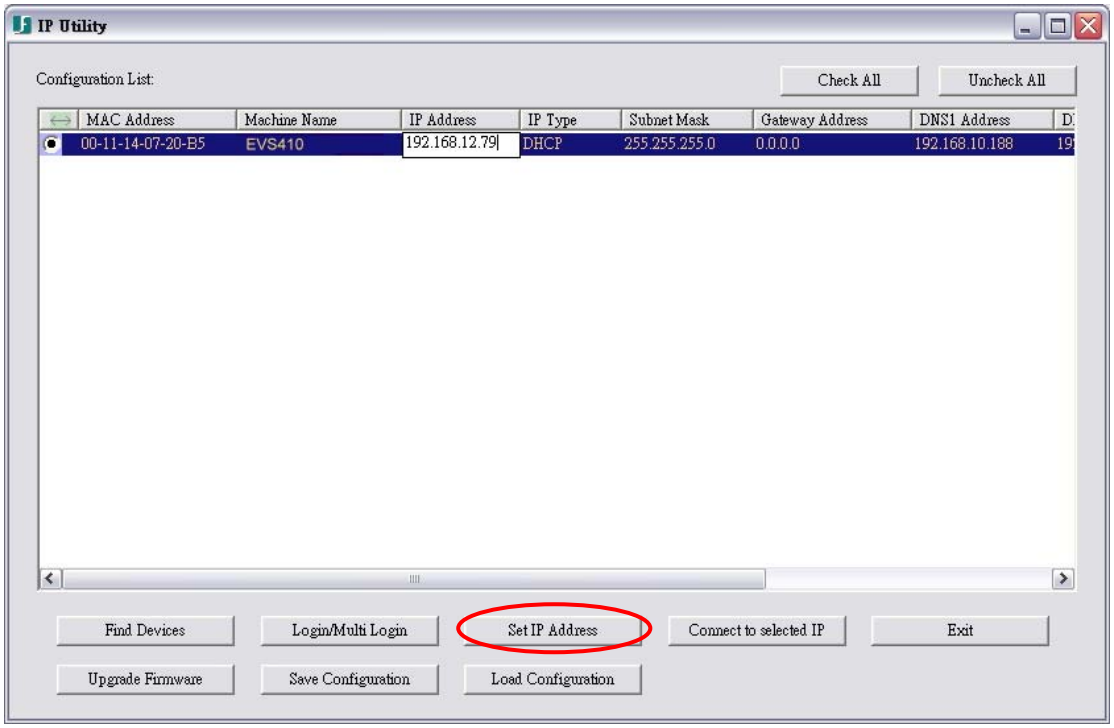
3. In order to manually configure the IP settings or upgrade firmware or save/load configuration, YOU MUST CLICK “Login/Multi Login”. If selecting more than 1 device that has same user name/password, you will be able to login several devices. This will bring up a dialog box where you will be asked to enter “User ID” and “Password”. This part of the security model; only a user with Supervisor or Administrator level rights can modify the network configuration of the device. The ID & password entered must be at least administrator level; this ID and password will be used for all configuration changes made during this process. If the ID and password do not have at least administrator level rights, then any changes will be discarded. Press “Find Devices” button to refresh the login status. It will make the devices logout.

Note: Default User ID is “user1” and default password is “11111111”. This ID has Supervisor level rights.

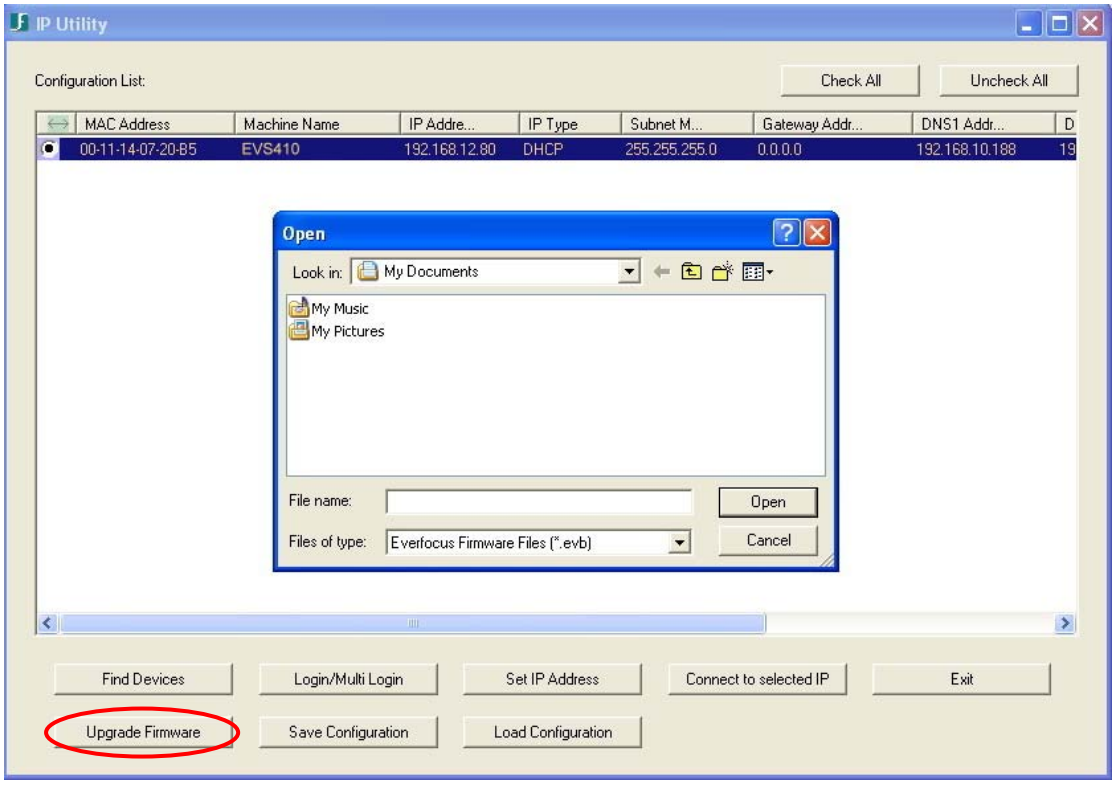


4. To change IP settings, select the device with highlight bar then double click on the value that you wish to revise and enter the desired new value. After the change is done, press “Set IP Address” to write the new setting to the device.

Note: *While most networks support DHCP, when you are unsure of the type to use, please consult your IP administrator for the network configuration details.*

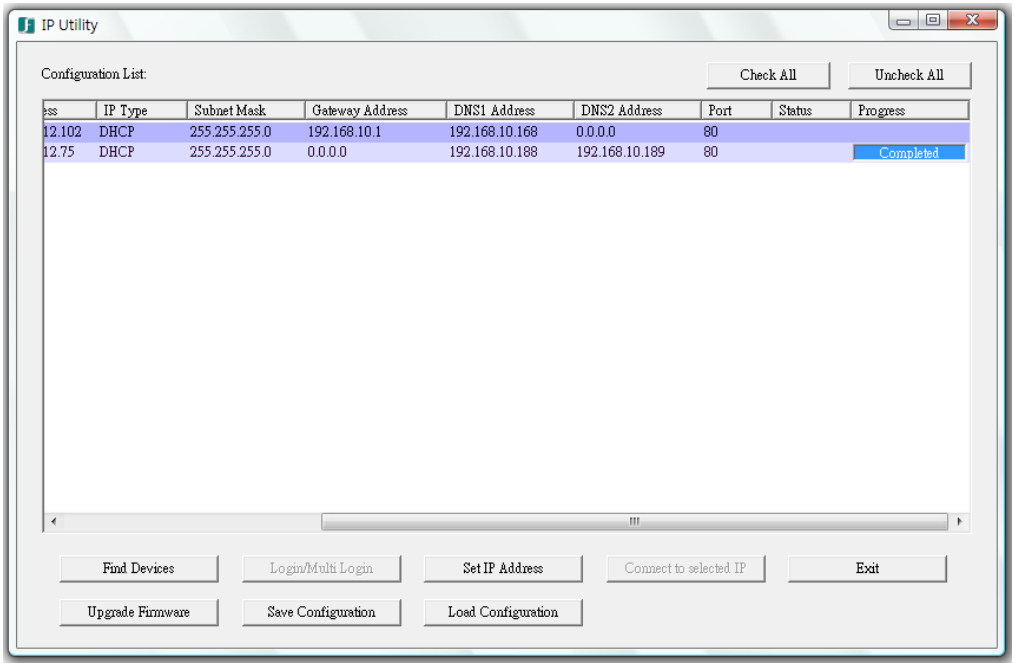


5. To upgrade firmware, select the device with highlight bar to do firmware upgrade. The window pops up after clicking the “Firmware Update” button. Select and Open the firmware file (.evb) to execute firmware update.

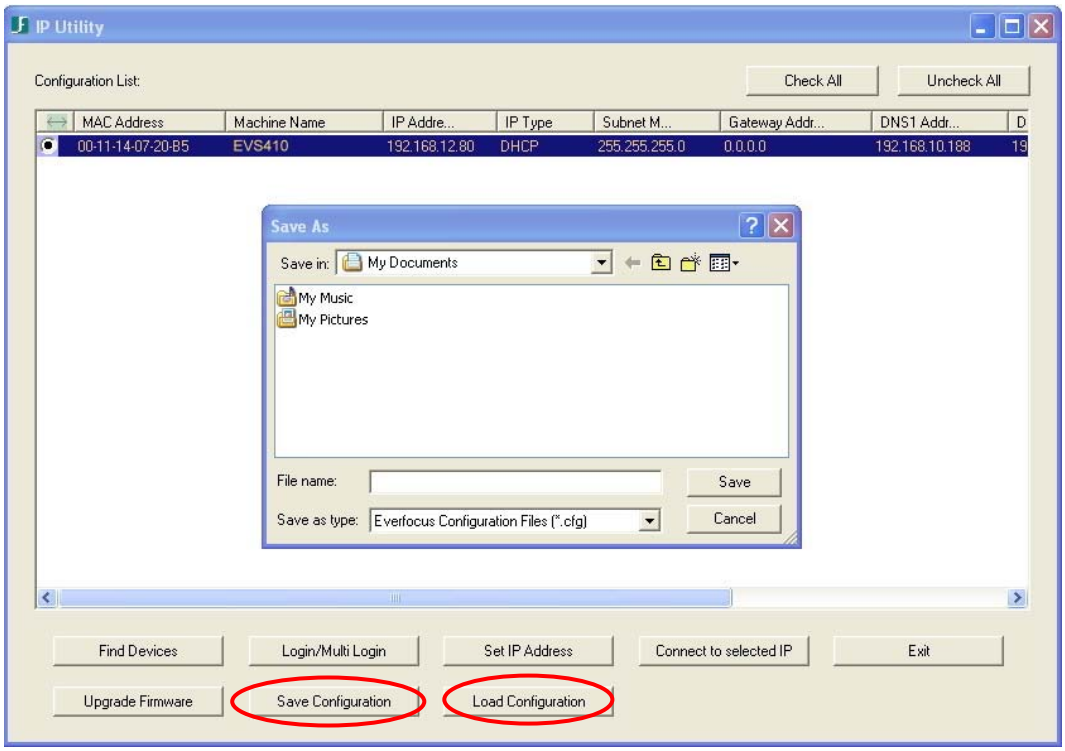


After opening the firmware file, the progress is running. Once updating firmware is completed, the device will reboot. Click “Search devices” again, the firmware version will change to the new one. If system is rebooting, IP utility cannot find the device.

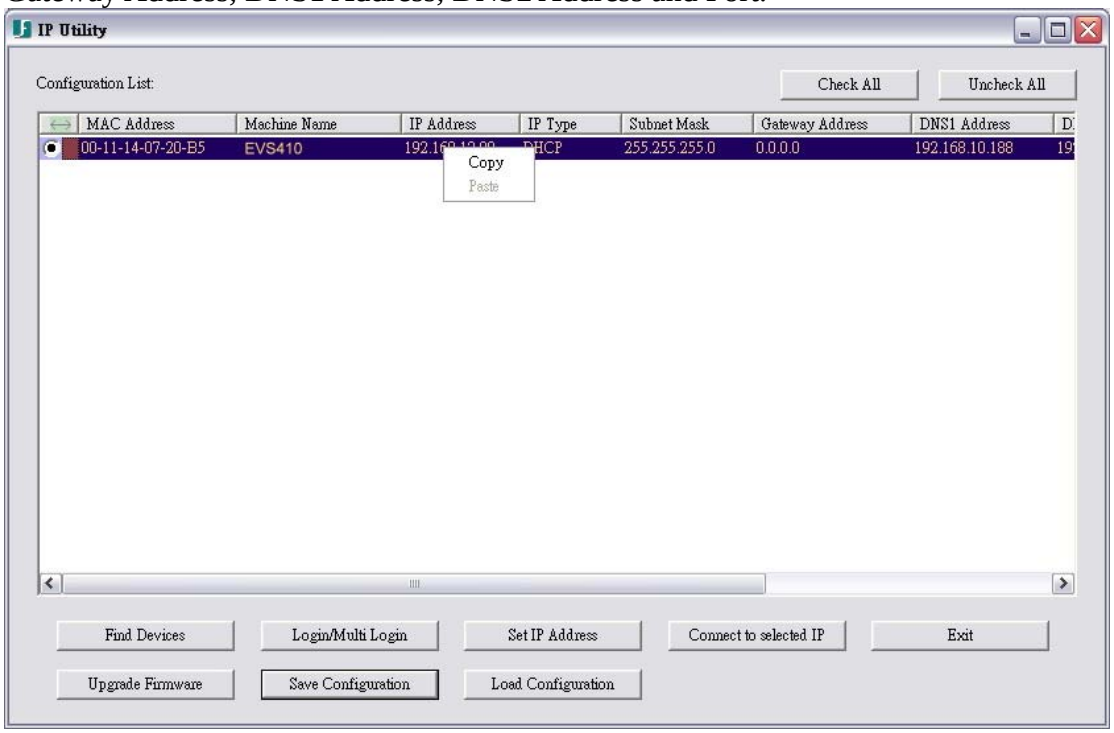
Note: *During firmware update, all connection and activities will be disabled automatically.*



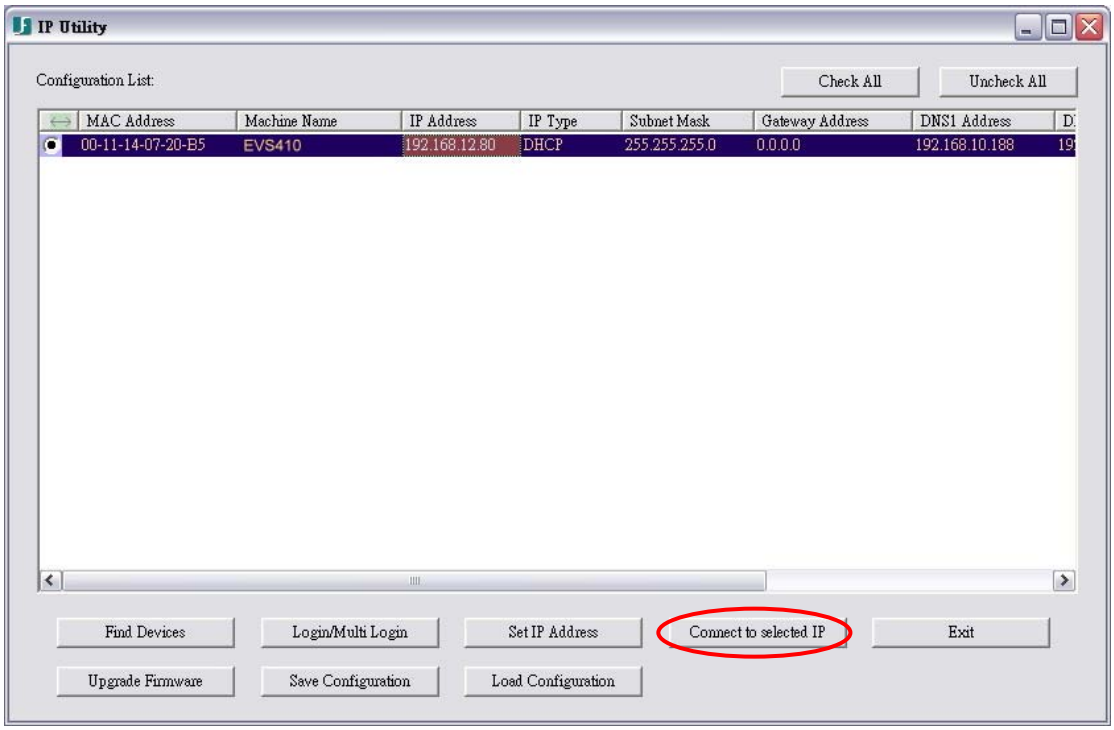
6. The window pops up after clicking the “Save Configuration” or “Load configuration” button. The configuration files will be saved under the path you open or Save the select configuration file to the selected devices.



7. To copy / paste IP Settings, right click the selected device which has been login, press “Copy” or “Paste” to copy/paste IP settings included IP type, Subnet Mask, Gateway Address, DNS1 Address, DNS2 Address and Port.



8. To view a device, select it with highlight bar and click “Connect to selected IP” and the web browser will automatically be launched and connect to the device.



9. You will be asked to enter User ID and Password first in order to access the video encoder.

   Note: Default user name is "user1" and default password is "11111111".

10. After login, the browser window will display the LIVE VIEW page of the video encoder.



11. **Exit**: When you are finished, the EXIT button will close the IP Utility.

EverFocus Electronics Corp.

EverFocus Taiwan:
12F, No.79, Sec. 1, Shin-Tai Wu Road,
Hsi-Chih, Taipei, Taiwan
TEL: +886 2 2698 2334
FAX: +886 2 2698 2380
www.everfocus.com.tw
marketing@everfocus.com.tw

EverFocus Europe - Germany:
Albert-Einstein-Strasse 1, D-46446
Emmerich, Germany
TEL: +49 2822 93940
FAX: +49 2822 939495
www.everfocus.de
info@everfocus.de

EverFocus China - Beijing:
Room 609, Technology Trade Building,
Shangdi Information Industry Base,
Haidian District, Beijing 100085, China
TEL: +86 10 6297 3336~39
FAX: +86 10 6297 1423
www.everfocus.com.cn
marketing@everfocus.com.cn

EverFocus China - Shenzhen:
4F, No. 2, D4 Building, Wan Yelong
Industrial Park, Tangtou Road, Shiyan,
Baoan, Shenzhen, Guangdong 518101, China
TEL: +86 755 2765 1313
FAX: +86 755 2765 0337
www.everfocus.com.cn
marketing@everfocus.com.cn

EverFocus USA - California:
1801 Highland Avenue, Unit A, Duarte, CA 91010, USA
TEL: +1 626 844 8888
FAX: +1 626 844 8838
www.everfocus.com
sales@everfocus.com

EverFocus USA - New York:
415 Oser Avenue, Unit S, Hauppauge, NY 11788, USA
TEL: +1 631 436 5070
FAX: +1 631 436 5027
www.everfocus.com
sales@everfocus.com

EverFocus Japan:
5F, Kinshicho City Building, 2-13-4
Koto-Bashi,Sumida-Ku, Tokyo, 130-0022, Japan
TEL: +81 3 5625 8188
FAX: +81 3 5625 8189
www.everfocus.co.jp
info@everfocus.co.jp

EverFocus Europe - UK:
Unit 12, Spitfire Business Park,
Hawker Road, Croydon Surrey, CR0 4WD, UK
TEL: +44 20 8649 9757 / +44 845 430 9999
FAX: +44 20 8649 9907
www.everfocusuk.co.uk
salesuk@everfocus.com

EverFocus India:
Suite 803, Housefin Bhavan, C-21, Bandra Kurla
Complex, Bandra (East), Mumbai 400051, India
TEL: +91 22 6128 8700
FAX: +91 22 6128 8705
www.everfocus.in
sales@everfocus.in



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