



## **ENVI Series**

**ENVI Series 1.3 & 2.0MP Vandal Resistant Day/Night IR Bullet Camera Series w/150' Range**



- 1/3" 1.3 & 2.0 Megapixel Progressive Scan CMOS image sensors
- Up to 30fps live view @ 1920x1080p (2.0 MegaPixel Models) / 1280x1024 (1.3 MegaPixel Models)
- 2.8-10mm Varifocal Auto Iris Lens
- Integrated 850nm Infrared LEDs with up to 150' Range
- Dual Glass Compartments to Eliminate Glare
- 2.8-10mm Varifocal DC Auto Iris IR Lens
- Heavy Duty IP68 rated weather resistant aluminum construction
- Secondary Video Output & OSD Control Joystick are accessible inside a Gasket sealed removable side panel
- Externally adjustable Focus & Zoom with clutch to eliminate over-tightening
- 3D-DNR Noise Reduction
- 16:9 (2.0 MegaPixel Models) / 4:3 (1.3 MegaPixel Models) Video format
- Secondary video output for installation & maintenance
- Auto True Day Night (TDN) without focus shift is achieved with dual filter switch function
- H.264/MJPEG Dual Streaming
- Full duplex 2 way audio, Alarm IN/OUT
- Minimal Latency w/Max 16 User Connections
- Onvif Compliance
- SD memory card slot for Local recording
- 12VDC/24VAC & PoE (Power over Ethernet) Operation

*Specifications & installation procedure subject to change without notice.  
Visit [www.vitekctv.com](http://www.vitekctv.com) for the most current information available.*

**IPcctv**  
MegaPixel CCTV Over IP Networks

VITEK

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## 1. Box Contents

- 1) VTC-IRE40-N Long range Weatherproof IR Bullet camera
- 2) Mounting Accessories
- 3) VT-MD-2VOC (Secondary Video Output Cable)
- 4) ENVI Series CD & Mounting Template

## 2. Included Accessories

### 3mm Hex L-wrench

Qty: 1



### Wall mounting screws

Qty: 4



### Anchors

If necessary, use the anchor to help secure the self tapping screws.

Qty: 4



### Sunshield with Attachment thumb screw

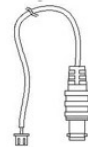
Qty: 1



### VT-MD-2VOC (Secondary Video Output Cable)

For viewing video image during installation.

Qty: 1



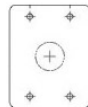
### RJ45 Coupler

Qty: 1



### Mounting Template

Qty: 1



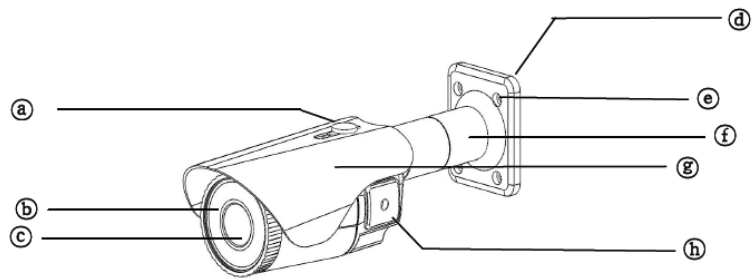
### ENVI Series CD

Qty: 1



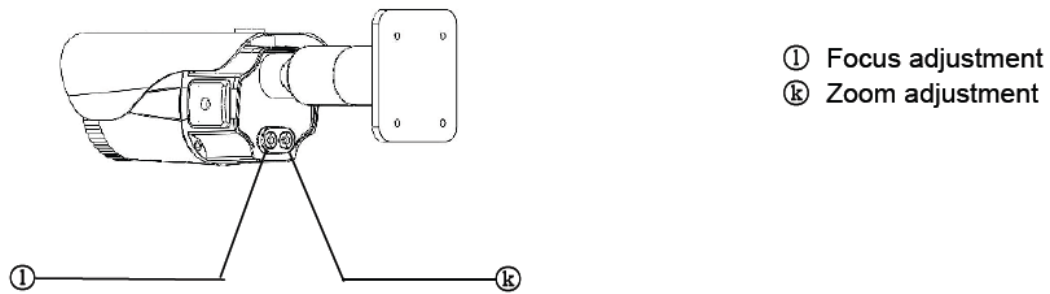
### 3. VTC-IR40-N Layout

#### 3.1. Front View



- |                                    |                         |                      |
|------------------------------------|-------------------------|----------------------|
| Ⓐ Sunshield attachment thumb screw | Ⓓ Mounting Bracket Foot | Ⓖ Sunshield          |
| Ⓑ IR LED Panel                     | Ⓔ Foot mount Hole(x4)   | Ⓗ OSD/ SD Card Cover |
| Ⓒ Double Glass Window              | Ⓕ Arm assembly          |                      |

#### 3.2. Rear Side View



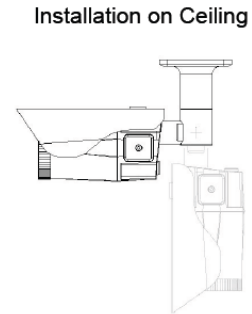
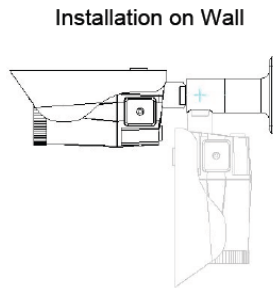
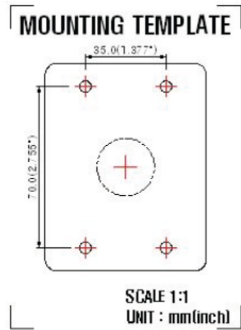
- |                    |
|--------------------|
| Ⓛ Focus adjustment |
| Ⓚ Zoom adjustment  |

## 4. VTC-IR40-N Installation

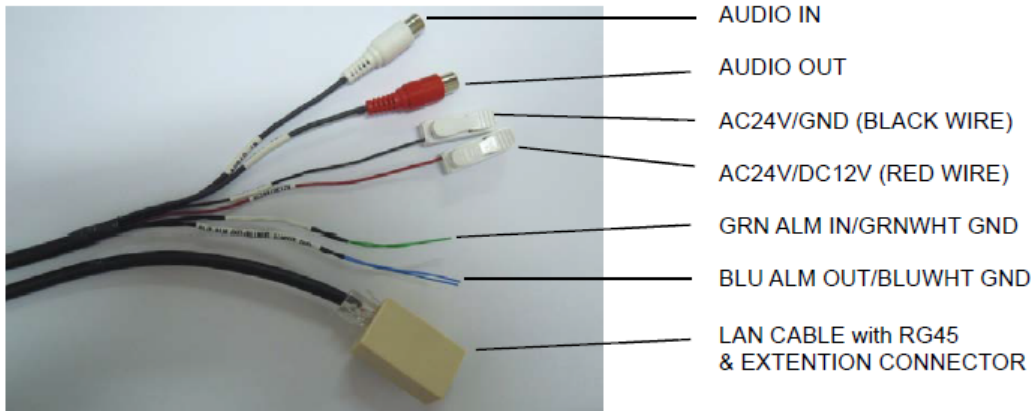
- Make sure the power is not applied before the installation.

### 4.1. Mounting The Camera

1. Drill 4 holes into the wall or ceiling using the supplied template
2. Insert the anchors into the drilled holes
3. Match (foot mount holes) to the drilled holes
4. Affix the mounting bracket by using supplied screws



### 4.2. Connections



#### 1. Power

Depending on the type of installations, apply power to the camera by one of the three options below.

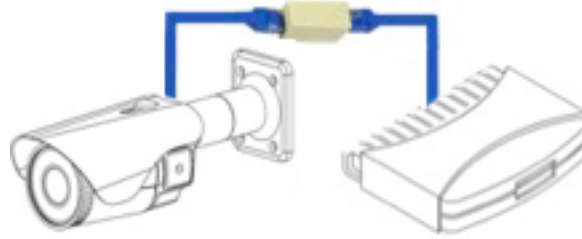
- a) Via Ethernet – Use only with POE switch (100 Meters max distance)
- b) 12VDC - Use with 12VDC 1A \*\* SEE IMPORTANT NOTES BELOW \*\*
- c) 24VAC- Use with 24VAC for longer distances.

**\*\* It is required that the polarity-matched connection is made for 12VDC supply, otherwise IR LEDs will not operate at night. \*\***

Primary and secondary grounds are completely isolated to avoid possible ground-loop problems.

## 2. Ethernet Connection

Insert one end of the Ethernet cable into the network jack of your camera, and insert the other end into the data port (switch, router, etc)



## 3. Alarm Connections

This camera support Alarm IN/OUT, Green = alarm IN, Blue = alarm OUT. (For more information, refer to **Section 14.5DI** (Sensor Input) / DO (Alarm Output) **on page 79**)

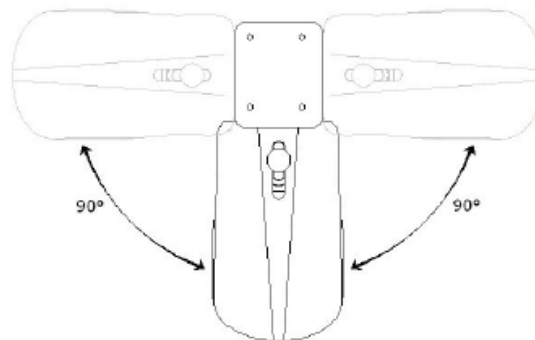
## 4. Audio In/Out

This camera supports RCA Audio IN/OUT, (Audio IN White, Audio OUT Red)

### 4.3. Pan/Tilt Adjustment

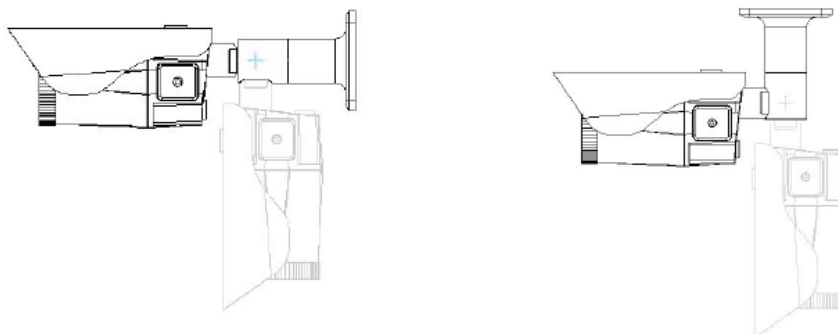
#### 1. Tilt Adjustment

Pan is limited to +/- 90°.



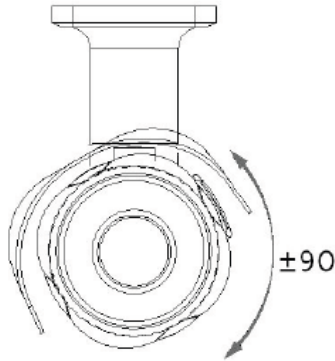
#### 2. Tilt Adjustment

Tilt is limited to 0° (2°) min ~ 90° max.

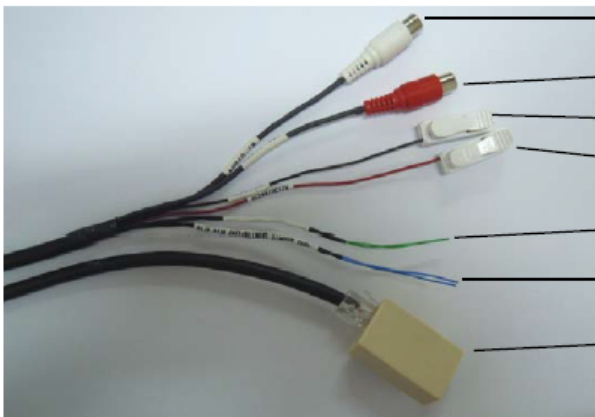


**3. Camera Rotation**

Inclination limited to +/-90° max.



**4.4. Setup Menu**

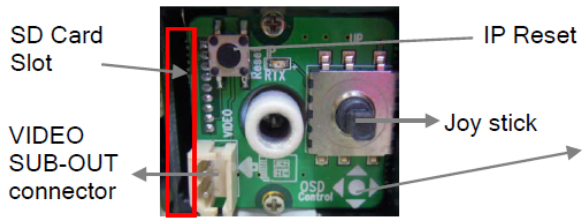


- AUDIO IN
- AUDIO OUT
- AC24V/GND (BLACK WIRE)
- AC24V/DC12V (RED WIRE)
- GRN ALM IN/GRNWHT GND
- BLU ALM OUT/BLUWHT GND
- LAN CABLE with RG45 & EXTENTION CONNECTOR

**1. Accessing the Setup Menu & Controls**

The Setup menu can be accessed and controlled in two ways:

- a) Via the OSD control joy stick located on the side of the camera



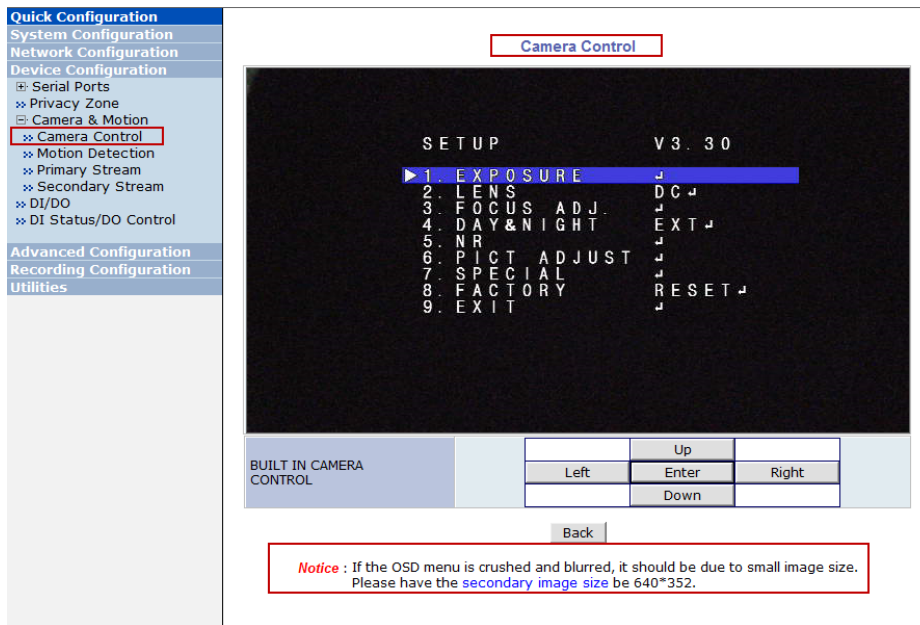
Example of OSD controller

SYMBOL descriptions for joystick operation;



- ▲, ▼, ◀, ▶ denotes the directions of Joystick lever operation.
- denotes Pressing straight down of Joystick lever

b) Via the Web-Admin, Device Configuration> Camera & Motion> Camera Control.



**NOTICE:** If the OSD menu is crushed and blurred, is due to small image size. Please have the secondary image size at 640x352

NOTE: For further information on OSD menu, refer to **Section 14.4 Camera Control (Select Models)** on page 55.

#### 4.5. Removable Storage

For recording directly on the camera you will need to install a SD card, this will allow you to play video directly from the camera. (**\*\* Please use only class 10 SD cards**).

- a) With the power disconnected insert the SD memory card as shown below (the SD card will need to be formatted. (refer to **Section 16.1 SD / MicroSD Card Configuration** on page 90 for instructions on Formatting)





## 5. Camera Software Installation

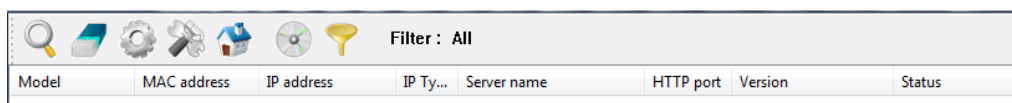
1. Run **IP Installer** Software from the CD program on a computer that is on the same network as the IP camera.



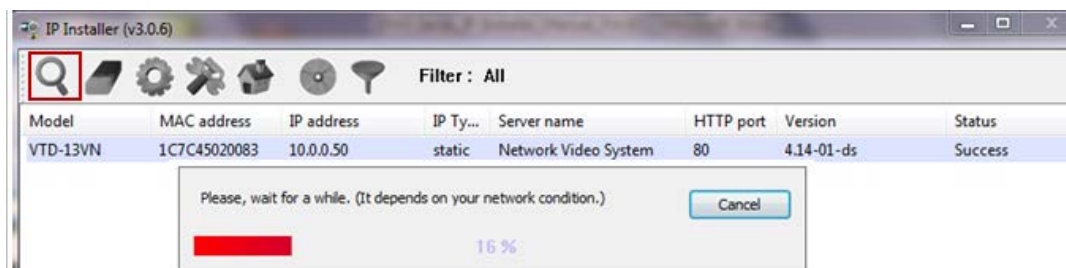
2. Start **IP Installer**, by double clicking the icon “**IP Installer**”



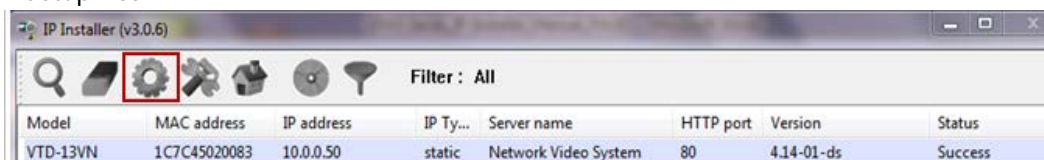
3. After the program has started, the main window of **IP Installer** program will appear on the screen as shown below.



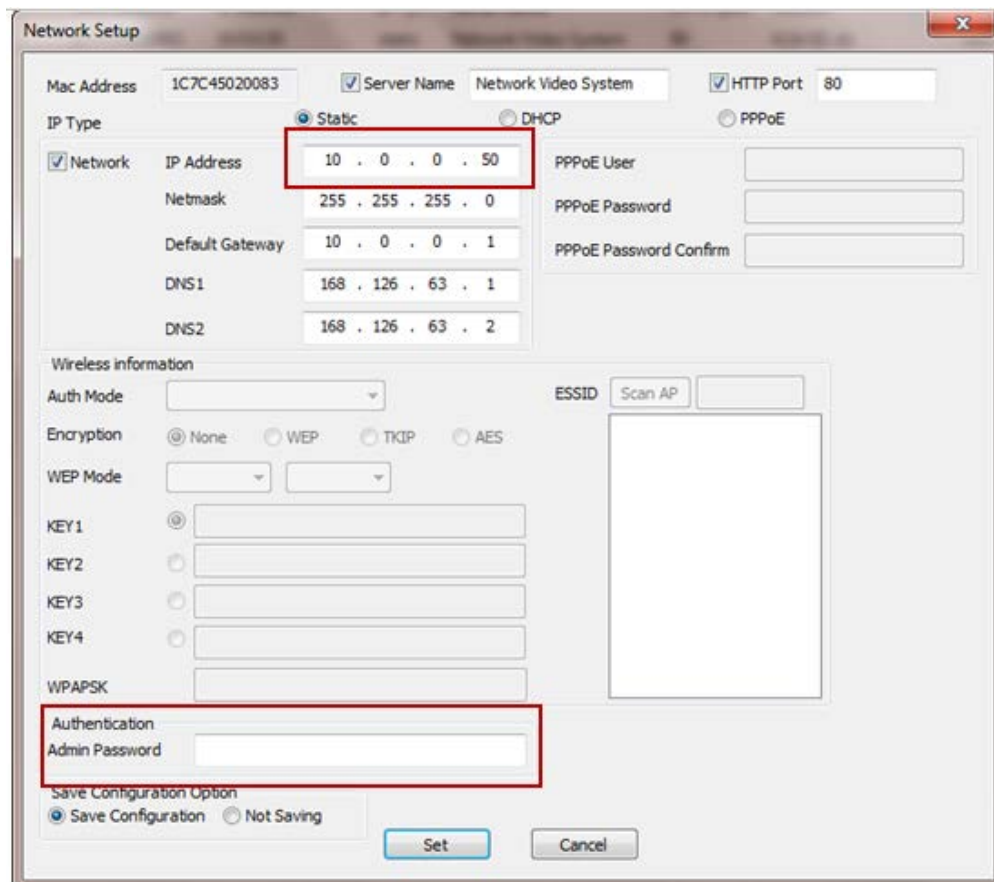
4. Search for the installed camera on the network by clicking the search product icon, the camera should appear as the image below. The default IP address is 10.20.30.40



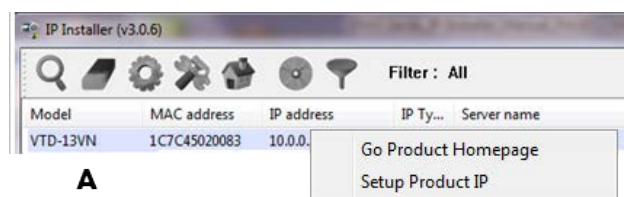
5. To assign an automatic IP address to this camera within the network, click the “Automatic IP Setup” icon



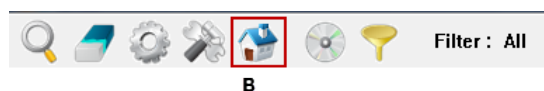
6. Verify the Automatic IP address provided, enter the default password root and then click **Set** as shown below.



7. After the camera was configured by the program automatically, you will be able to get access by
  - a) Right click over the camera information, "Go Product Homepage"



- b) Click over the icon "Connect Product Homepage"

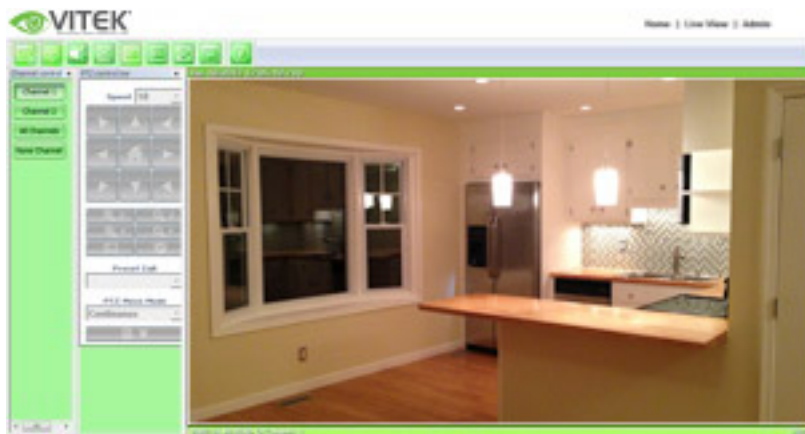


8. From the Home Page, you can "Live View" or administrate "Admin" the camera.



Model : VT-20VN-M, Firmware ver 4.16-B2-ds-VI  
Homepage ver 4.16-B2\_VI for Network Video System

On Live View you will be able to see live video from your camera.



*NOTE: For more information, refer to **Section 10. ENVI Admin Menu on page 35.***

## 6. VTC-IR40-N Features

### *1.3 & 2.0 MegaPixel Vandal Resistant Day/Night IR Bullet Cameras with 150' Range*

- 1/3" 1.3 & 2.0 Megapixel Progressive Scan CMOS image sensors
- Up to 30fps live view @ 1920x1080p (2.0 MegaPixel Models) / 1280x1024 (1.3 MegaPixel Models)
- 2.8-10mm Varifocal Auto Iris Lens
- Integrated 850nm Infrared LEDs with up to 150' Range
- Dual Glass Compartments to Eliminate Glare
- 2.8-10mm Varifocal DC Auto Iris IR Lens
- Heavy Duty IP68 rated weather resistant aluminum construction
- Secondary Video Output & OSD Control Joystick are accessible inside a Gasket sealed removable side panel
- Externally adjustable Focus & Zoom with clutch to eliminate over-tightening
- 3D-DNR Noise Reduction
- 16:9 (2.0 MegaPixel Models) / 4:3 (1.3 MegaPixel Models) Video format
- Secondary video output for installation & maintenance
- Auto True Day Night (TDN) without focus shift is achieved with dual filter switch function
- H.264/MJPEG Dual Streaming
- Full duplex 2 way audio, Alarm IN/OUT
- Minimal Latency w/Max 16 User Connections
- Onvif PSIA Compliance
- SD memory card slot for Local recording
- 12VDC/24VAC & PoE (Power over Ethernet) Operation

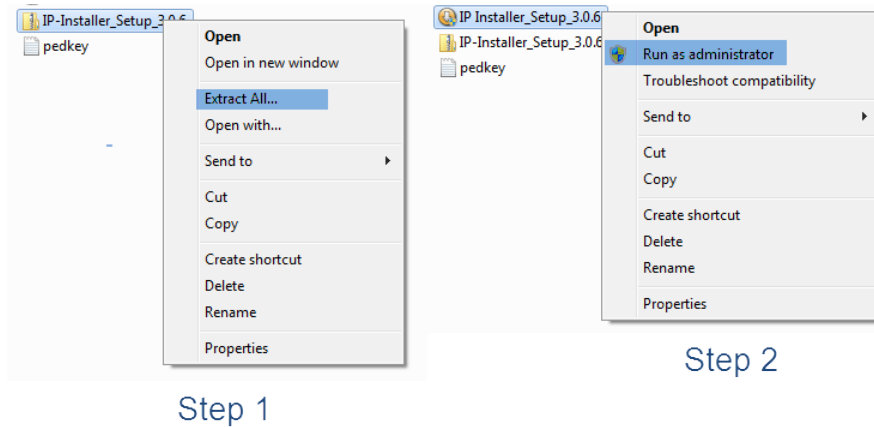
## 7. IP Installer: Introduction

IP Installer is a proprietary utility program for VitekIP products. It enables users of Vitek products to search their network for any Vitek network camera, video server, or network video recorder no matter what IP address it has. By using IP Installer, users will be able to facilitate network setup process for Vitek products deployment.

- Runs on Microsoft Windows operating system (XP, Vista, 7, 8)
- Search for Network Cameras, Video Servers, and Network Video Recorders
- Capable of firmware updating
- Support automatic and manual IP setup

## 8. Installing and Uninstalling

\*\* It's recommended to install this program as an administrator \*\*

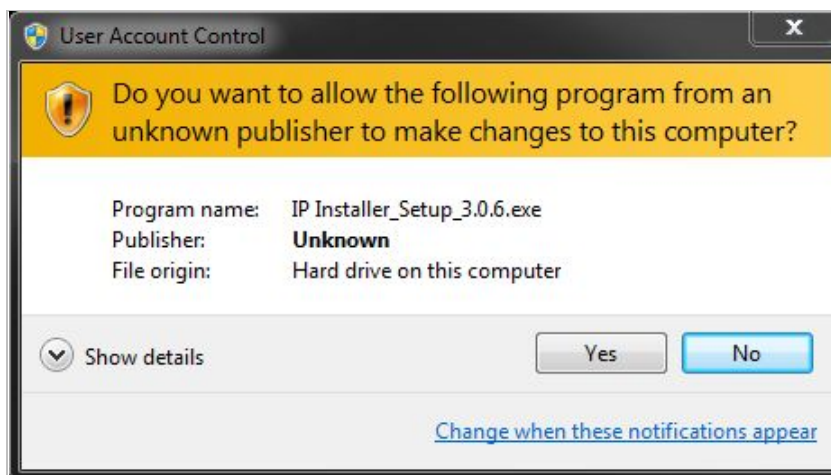


### 8.1. Installing IP Installer

If the program is started from the CD supplied with Vitek products, insert the CD in to CD/DVD tray and check the installation file. If it is download or copied from the Internet or any other media, locate the file from the PC's hard drive. You will see the icon as shown with the file name **IP Installer\_Setup\_x.x.x.exe**. The actual file name in your case may vary as the version changes. Double click the icon to start installation.



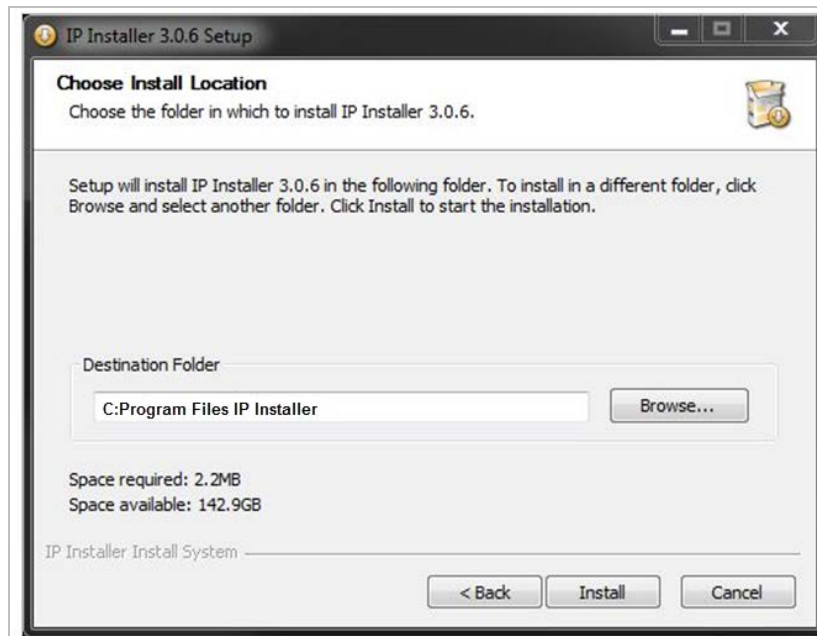
You may be prompted to continue running the installation program.



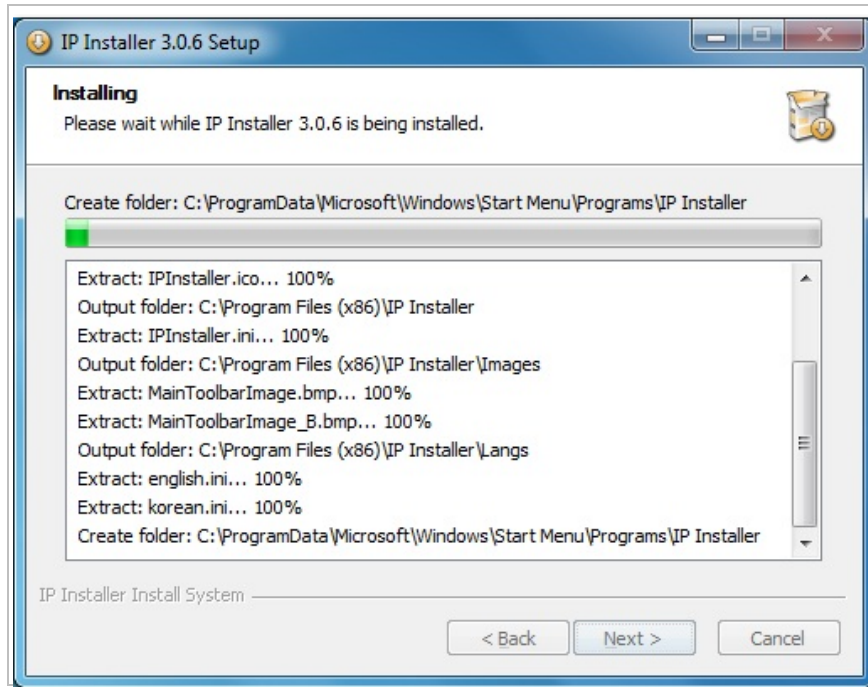
Click **Yes** button, then the following window will be shown on the screen.



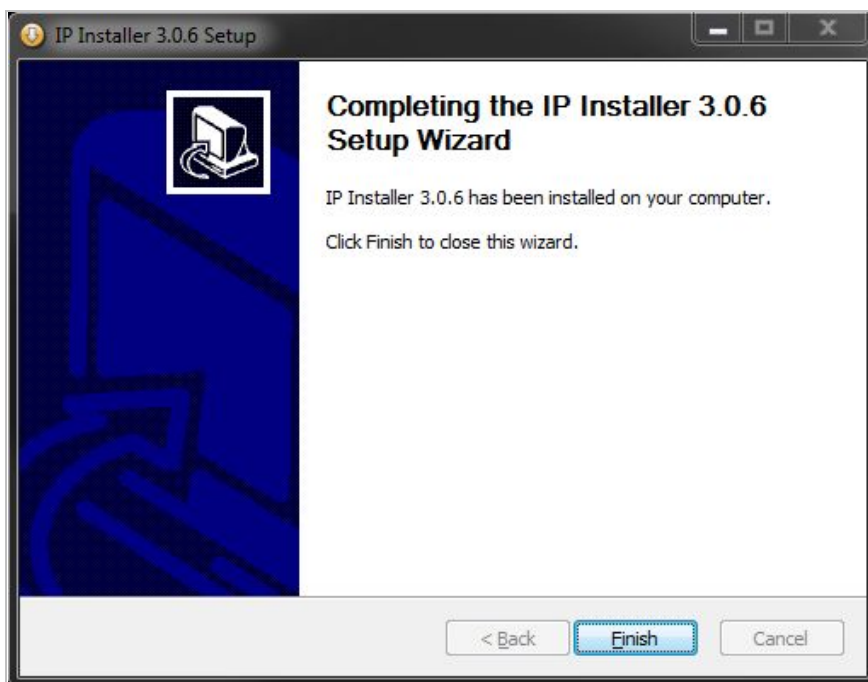
To continue the installation, click **Next**. The following window will be displayed for location to install.



The default location for installation is **C:\Program Files\IP Installer**. It is recommended to install in this folder, if you want to change it to a different location, click the **Browse** button to choose location. Now click the **Install** button. You will see the progress of the install as shown below.



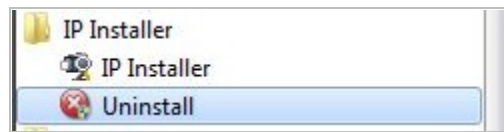
When the files are done copying, the following window will be shown. Click the **Finish** button to complete the installation.



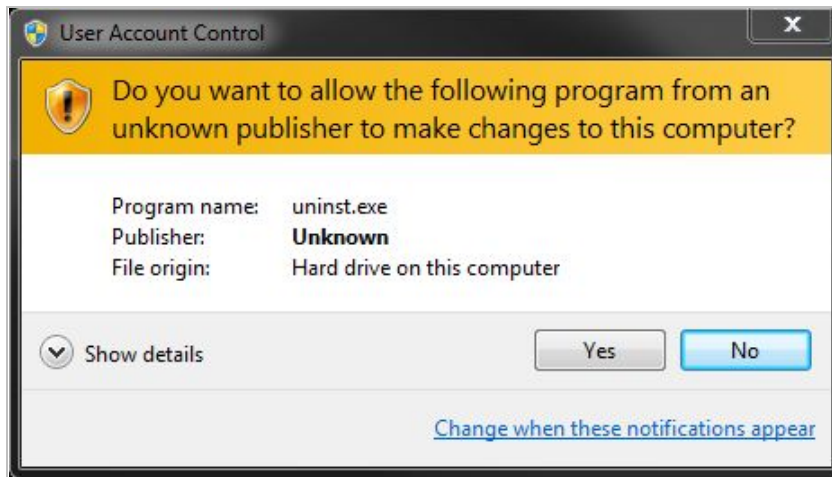


## 8.2. Uninstalling IP Installer

If you want to remove the IP Installer program from your PC, click **Start > All Programs > IP Installer > Uninstall**.



You may be prompted to continue running the uninstall program.

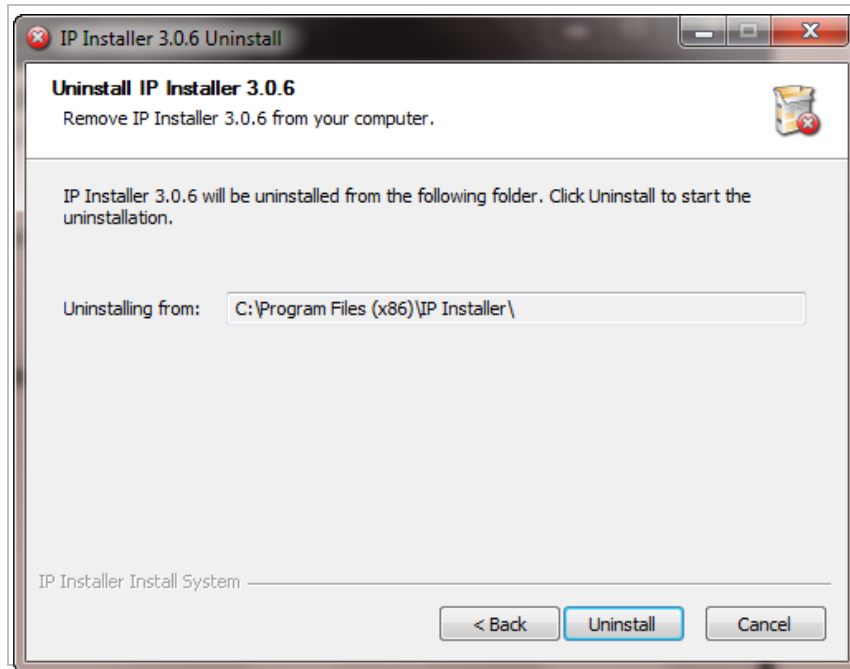


Click on the **Yes** button, then the following window will be shown on the screen.

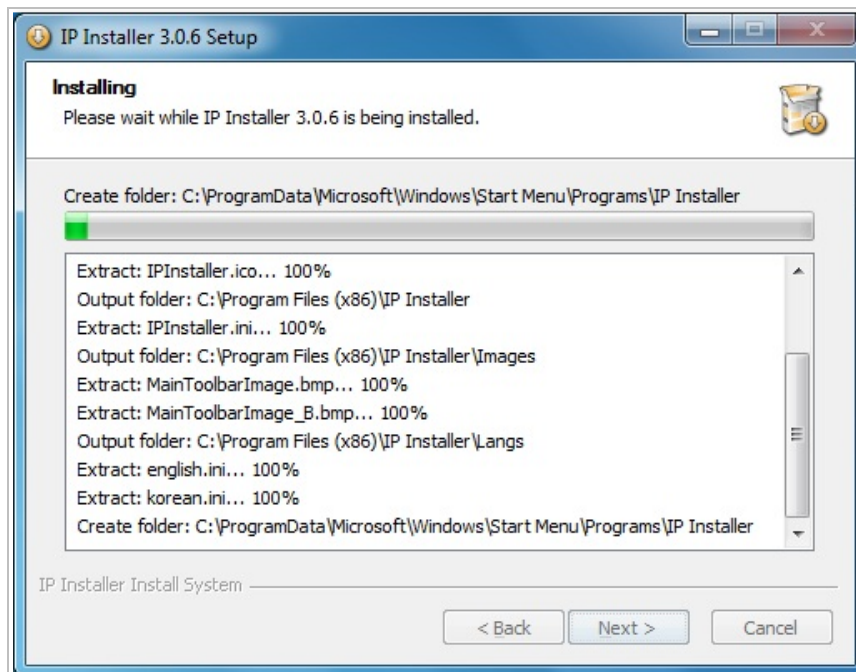


Click on the **Next** button and you will see the following window.

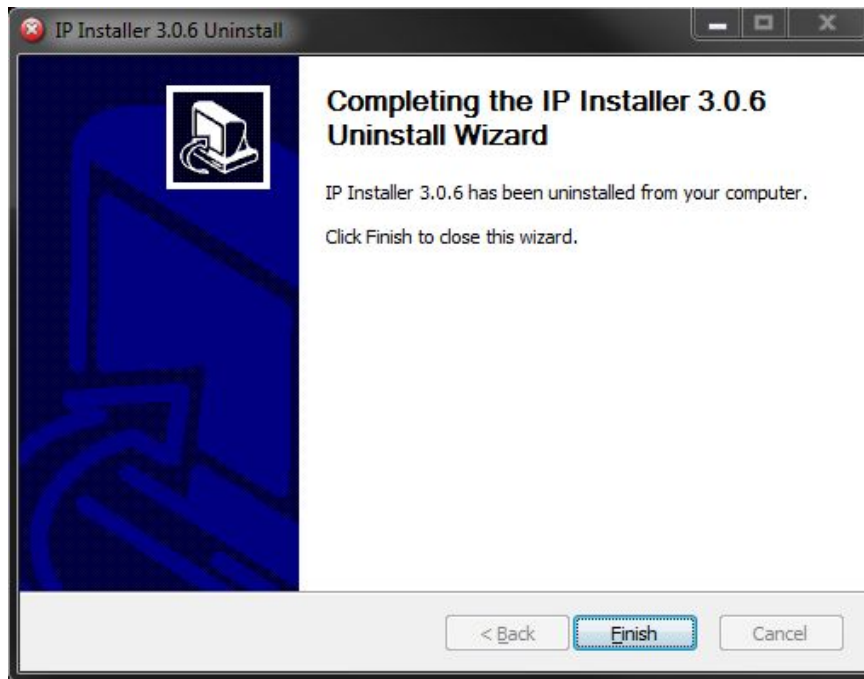




Click on the **Uninstall** button to start removing the **IP Installer** program from your computer. The following window will be displayed.



Click on the **Finish** button to close the window



## 9. Using IP Installer

### 9.1. Starting the Program

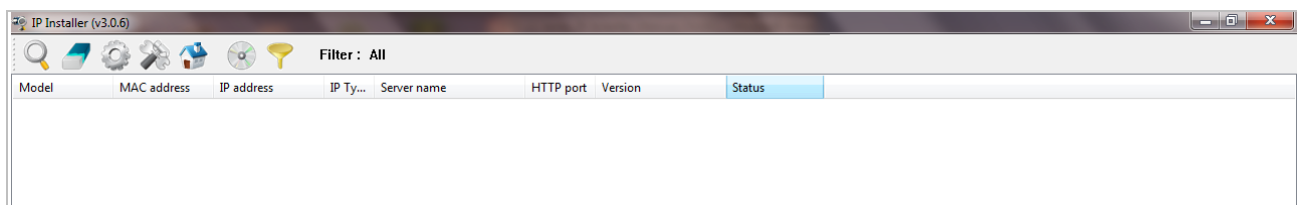




Once **IP Installer** program has been installed on your computer, a shortcut icon should be created on the desktop of your computer. You can start **IP Installer** by double clicking the icon.






Or you can also start the program by clicking **Start > All Programs > IP Installer > IP Installer** as shown below.



After the program has started, the main window of **IP Installer** program will appear on the screen as shown below. There are no network devices shown, as it is the first time running the program and nothing has been registered.



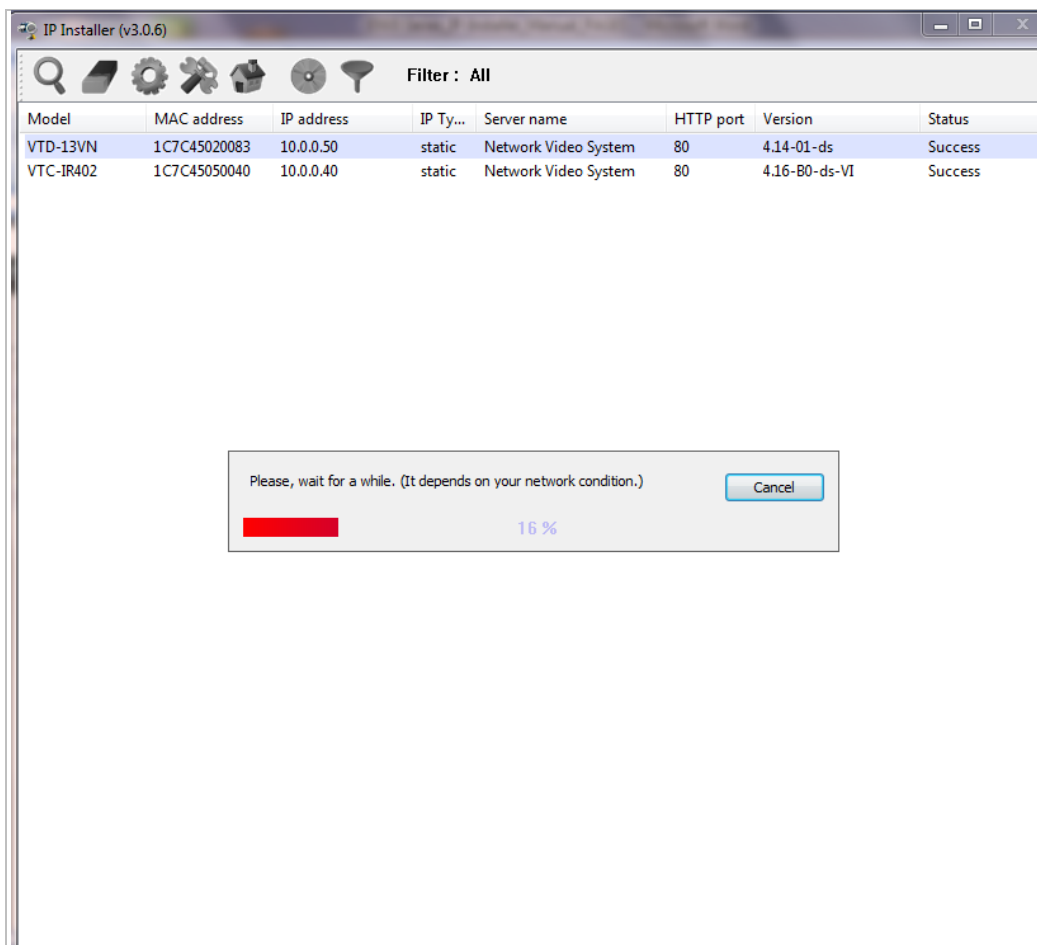
	Search Product	Scan the network and shows the list of all the Vitek products that IP Installer program found.
	Clear Product List	Clear the Vitek products list created by searching the network.

	Automatic IP Setup	Configure the network setting of selected IP device in Automatic mode.
	Manual IP Setup	Configure the network setting of selected IP device in Manual mode.
	Connect Product Homepage	Connect to the server homepage of the selected IP device.
	Update Firmware	Update the firmware of the selected IP device.
	Filter Configuration	Define the range of MAC and IP addresses to search.

### 9.2. Search Product



Make sure that your Vitek products are powered and connected to the network, and then click the **Search Product** button. A status window will pop up to show the progress of the search. Wait until it reaches 100%, or you may press the **Cancel** button to stop the search at any given time and proceed with the results made until that moment.



After searching is completed 100%, the **IP Installer** program will display the IP devices found.

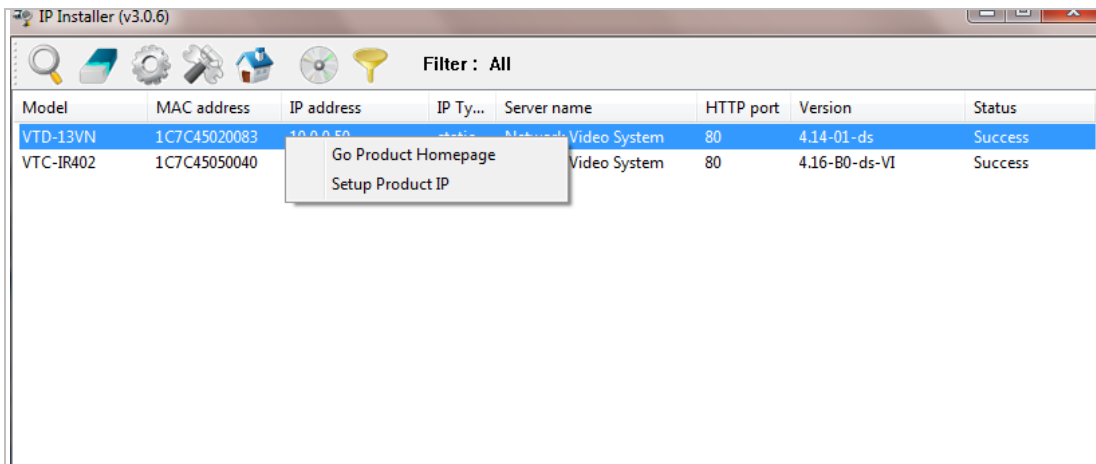


If you want to clear the list of the IP Devices from the window, click **Clear Product List** button from the Main Toolbar.

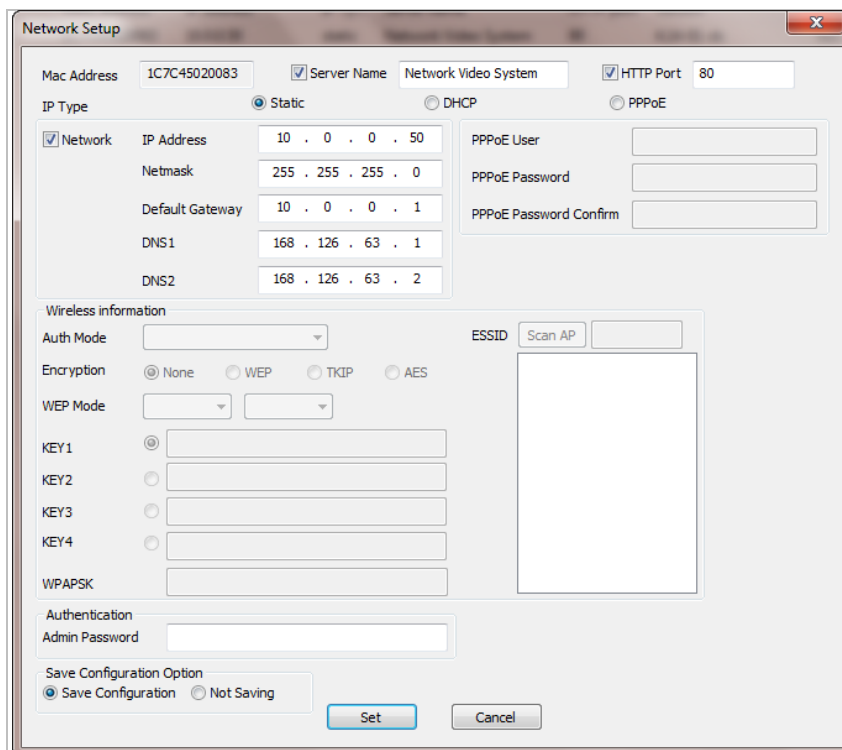
Manual Network Setup



Configuring the network parameters of the devices in the list can be started either by highlighting and right clicking mouse button or by clicking **Manual IP Setup** button on the main **Toolbar**.



When one IP device is selected, the following screen will appear



MAC Address	MAC address of the selected device is shown.
Server Name	Input desired name of camera i.e. Lunch Room
HTTP Port	Input port number to access IP devices homepage via web. Default port is 80
IP Type	Select the type of address (Static / DHCP / PPPoE) Use <b>STATIC</b> for manual IP setup

Network	General network parameters are required in this part. Please contact your network administrator for detail. ( <b>IP Address, Netmask, Default Gateway, DNS1, DNS2</b> )
Authentication (Admin Password)	Password for the IP device. (Default password for Vitek products is <b>"root"</b> unless already changed)
Save Configuration Option	Select whether the configured contents is to be saved in the Camera memory or not. <ul style="list-style-type: none"> <li>• <b>Save Configuration:</b> Changed values will be saved in the Camera memory of the device, which means the changes are permanent.</li> <li>• <b>Not Saving:</b> Changed values will not be saved in the Camera memory, which means if the IP device is turned off the changes are lost and the previous setting will be applied back.</li> </ul>

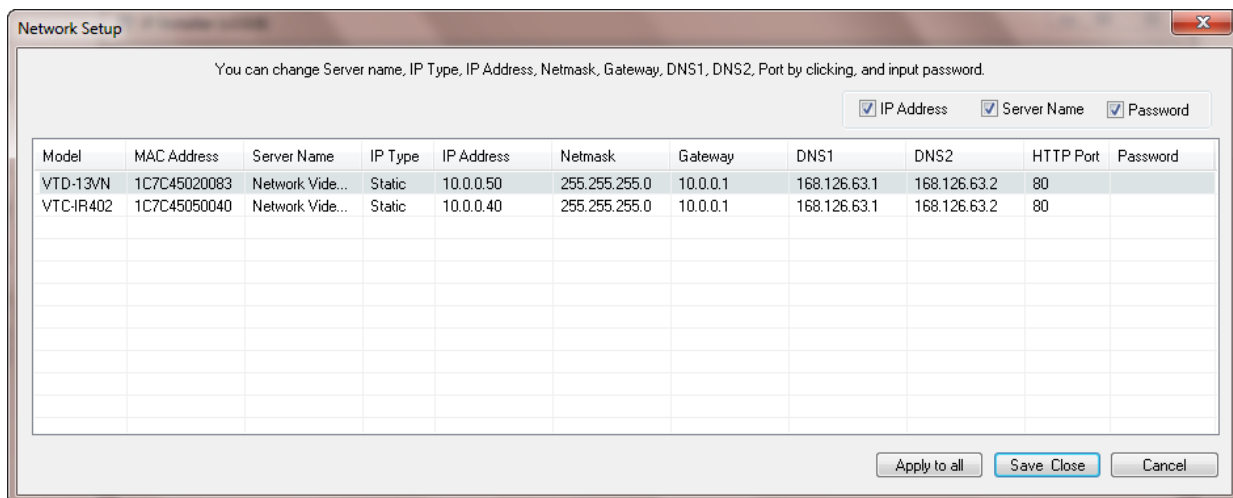
Click **Set** button to apply the changed values to IP device. If you don't want it, click **Cancel** button.

**When two or more IP devices are selected**

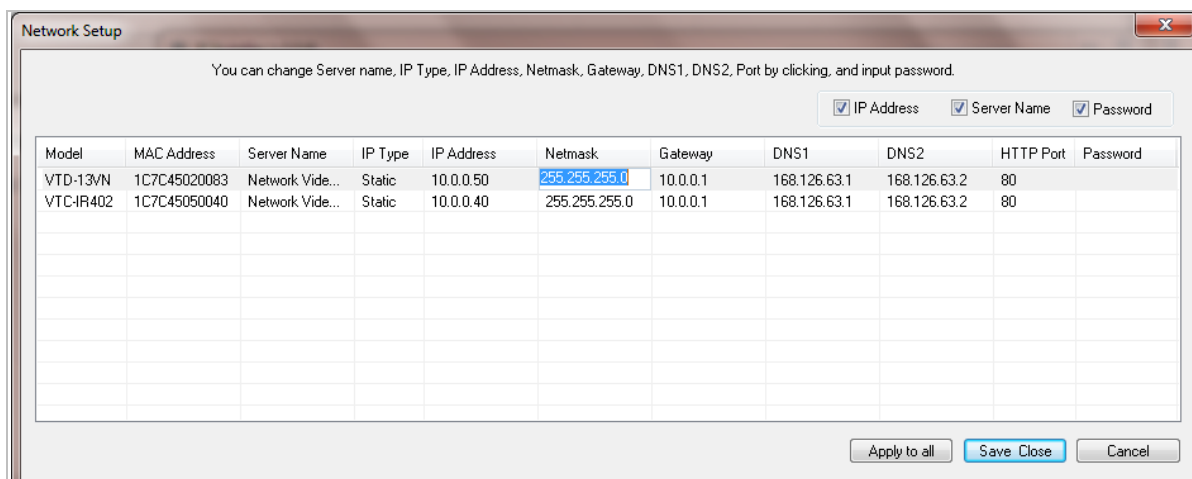
You can select two or more IP devices at the same time by clicking one after another while CTRL key is pressed. The result is shown as below.

To configure the network parameters of those devices, click the right mouse button or click **Manual IP Setup** icon on the main **Toolbar** with multiple IP devices selected as shown above.

Then the following window will show up.



You can modify the value of each changeable field by clicking it. The following shows an example of entering a new value to a field.

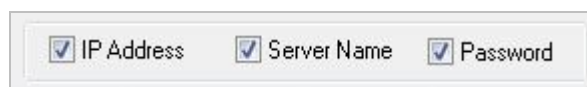


Model	Model Numbers of the IP devices that you selected.
MAC Address	MAC address of the selected device is shown.
Server Name	Name of the selected IP device.
IP Type	How to assign IP address to the device (Select <b>Static</b> here for Manual IP Setup)
IP address, Netmask, Gateway, DNS1, DNS2	General network parameters are required in this part. Please contact your network administrator for detail.
HTTP Port	HTTP port number of the IP device for web access to homepage.
Password	Password for the IP device.(Default password for Vitek products is "root")

If you click **Apply to all** button after changing just a field of one IP device, the remaining IP devices will have the same value for that parameter. In this case, each device's **Server name** and **IP Address** field will have +1 incremented value added to the original value. For example, if the first IP device has been given the server name of **NetCam** and **Apply to all** button is pressed, it will be automatically changed to **NetCam1** and the next IP device will have **NetCam2** and so on. The same applies to the **IP address** field.

For Password field, the entered information doesn't increment but will use the same data.

In using **Apply to all**, you can choose which field is affected. Put check marks only on the field you want to use this automatic action as below.

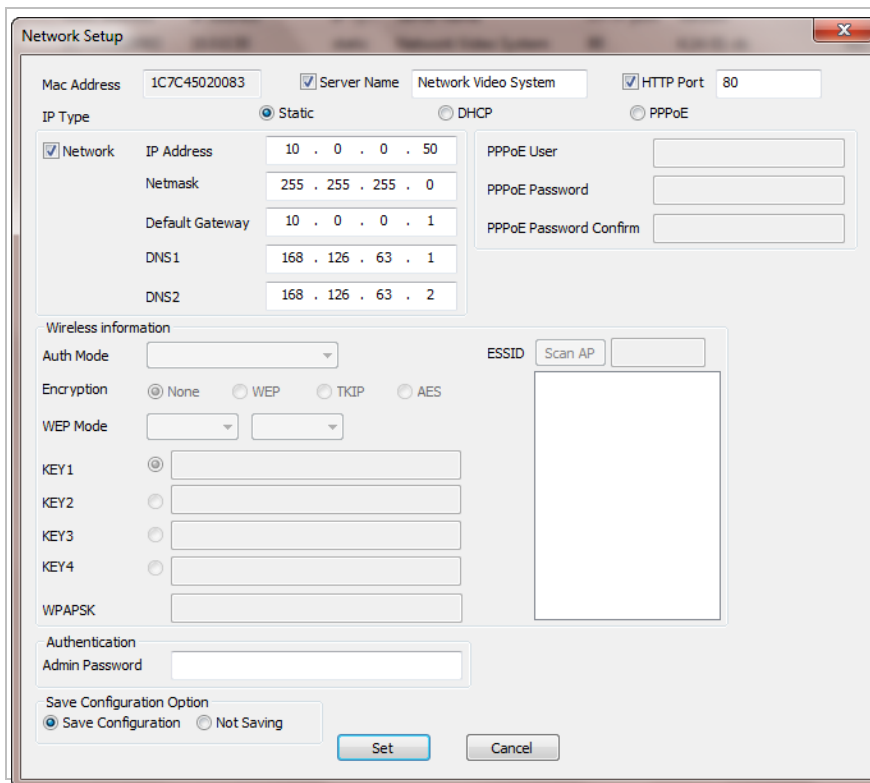


Click **Save & Close** button to save the changed values in the camera memory of all the IP devices and close the Network setup window.

### 9.3. Automatic Network Setup



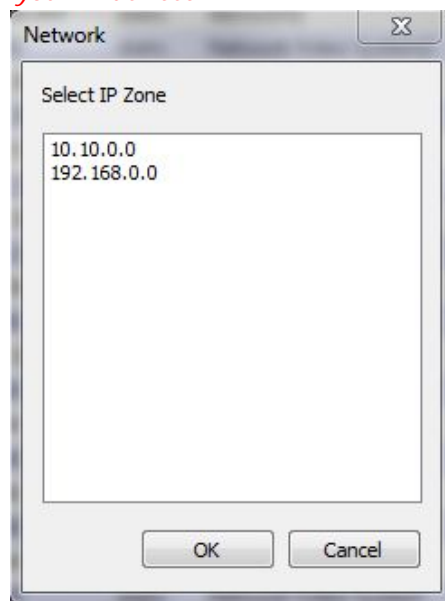
Configuring the network parameters of the devices in the list can be started either by clicking right mouse button or by clicking **Automatic IP Setup** button on the main **Toolbar**. Before starting the setup, you first need to choose the one to be configured. In this setup mode, IP Installer program checks your local network and assigns available IP addresses to the IP devices. You have a choice of using those automatically assigned IP addresses, or you can just enter other IP addresses as you desire.



Server Name	Name of the selected IP device.
HTTP Port	HTTP port number of the IP device for web access to homepage.
IP Type	How to assign IP address to the device (Select <b>Static</b> here for Manual IP Setup)
Network	General network parameters are required in this part. Please contact your network administrator for detail. ( <b>IP Address, Netmask, Default Gateway, DNS1, DNS2</b> )
Authentication (Admin Password)	Password for the IP device. (Default password for Vitek products is “ <b>root</b> ”)
Save Configuration Option	<p>Select whether the configured contents is to be saved in the Camera memory or not.</p> <ul style="list-style-type: none"> <li>• <b>Save Configuration:</b> Changed values will be saved in the Camera memory of the device, which means the changes are permanent.</li> <li>• <b>Not Saving:</b> Changed values will not be saved in the Camera memory, which means if the IP device is turned off the changes are lost and the previous setting will be applied back.</li> </ul>

Click **Set** button to apply the changed values to IP device. If you don't want it, click **Cancel** button to restore the previous values.

*Note: If your network has more than one IP address Zone at the same time, the confirmation window will be displayed as below. You need to choose the one you are going to use for your IP devices.*



#### 9.4. Using DHCP Server

If your network has a DHCP server running for assigning IP addresses, you may choose to let it assign IP addresses to the IP devices on the list. To do that, first open the Network Setup window either by **Manual IP Setup** or **Automatic IP Setup** procedure. Choose **DHCP** in "IP Type" selection, then **IP Address**, **Netmask**, **Default Gateway** field in **Network** setup area on the window will be disabled to input as shown below.



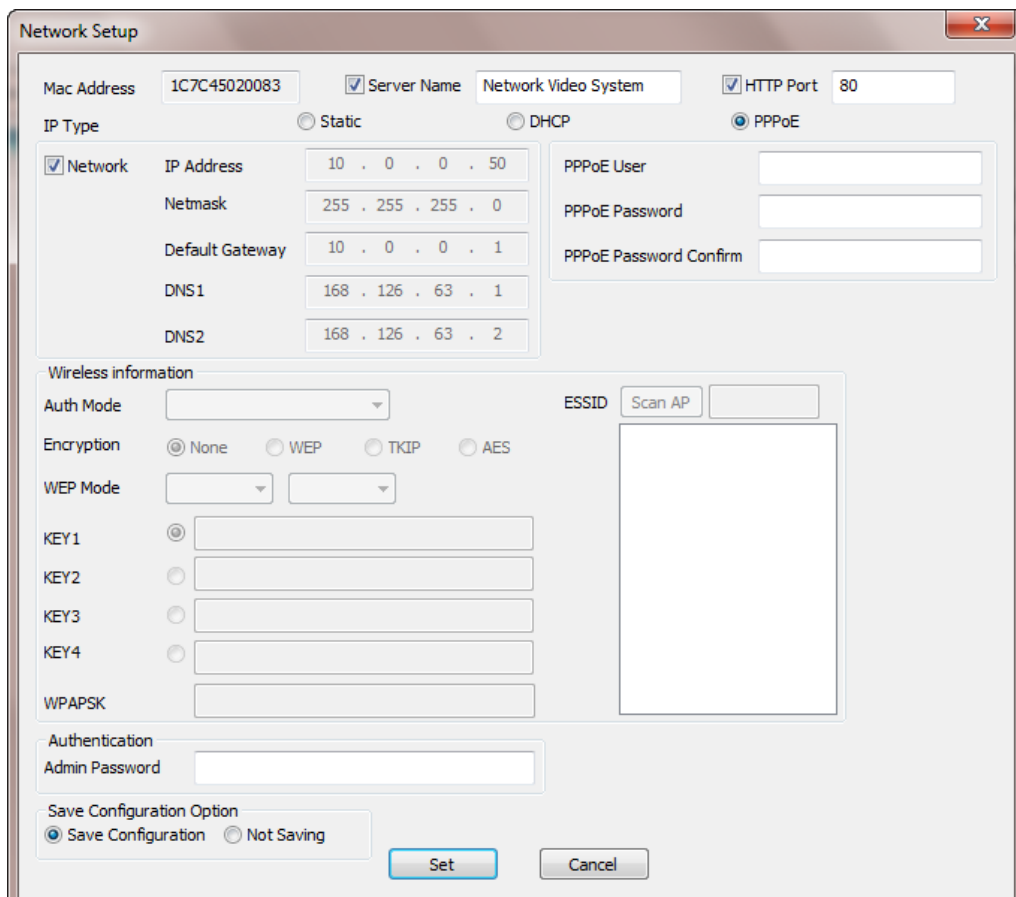
The screenshot shows the 'Network Setup' window with the following configuration:

- Mac Address: 1C7C45020083
- Server Name:  Network Video System
- HTTP Port:  80
- IP Type:  Static,  DHCP,  PPPoE
- Network section (checked):
  - IP Address: 10 . 0 . 0 . 50
  - Netmask: 255 . 255 . 255 . 0
  - Default Gateway: 10 . 0 . 0 . 1
  - DNS1: 168 . 126 . 63 . 1
  - DNS2: 168 . 126 . 63 . 2
- Wireless information:
  - Auth Mode: [Dropdown]
  - Encryption:  None,  WEP,  TKIP,  AES
  - WEP Mode: [Dropdown] [Dropdown]
  - KEY1:  [Field]
  - KEY2:  [Field]
  - KEY3:  [Field]
  - KEY4:  [Field]
  - WPAPSK: [Field]
  - ESSID: Scan AP [Field]
- Authentication:
  - Admin Password: [Field]
- Save Configuration Option:  Save Configuration,  Not Saving
- Buttons: Set, Cancel

For setting up other fields on the setup window, refer to **Section 0 Manual Network Setup on page 23**. After filling the fields with appropriate values, click **Set** button to apply the changed values to IP device. If you don't want it, click **Cancel** button to restore the previous values.

### 9.5. Using PPPoE

If your network environment is based on PPPoE connection, you'll need to choose **PPPoE** on IP Type selection. First open the Network Setup window either by **Manual IP Setup** or **Automatic IP Setup** procedure. Choose **PPPoE** in IP Type selection, and then all the fields in **Network** setup area on the window will be disabled. The network settings such as IP Address, Netmask, Default Gateway and DNS are no longer available to enter. You only need to enter the Server Name, HTTP Port number, and login authentication for your PPPoE connection.

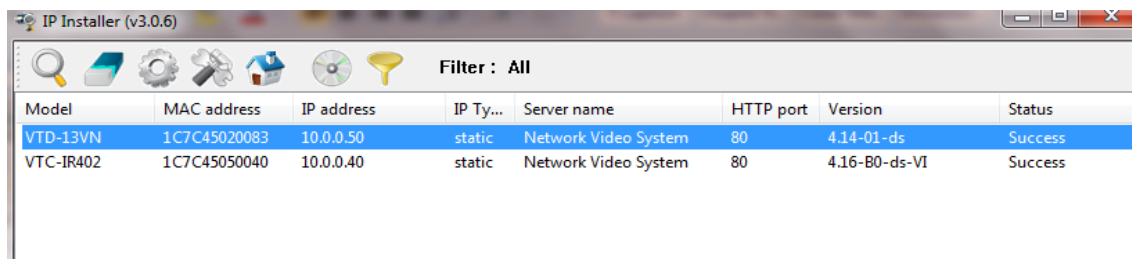


MAC Address	MAC address of the selected device is shown.
Server Name	Name of the selected IP device.
HTTP Port	HTTP port number of the IP device for web access to homepage.
IP Type	How to assign IP address to the device (Select <b>PPPoE</b> in this mode)
PPPoE	User Authentication for PPPoE Connection. <ul style="list-style-type: none"> <li>• <b>PPPoE User</b>: Enter User ID.</li> <li>• <b>PPPoE Password</b>: Enter Password for the User ID.</li> <li>• <b>PPPoE Password Confirm</b>: Enter the same Password again.</li> </ul>
Authentication (Admin Password)	Password for the IP device. (Default password for Vitek products is <b>"root"</b> unless already changed)
Save Configuration Option	Select whether the configured contents is to be saved in the Camera memory or not. <ul style="list-style-type: none"> <li>• <b>Save Configuration</b>: Changed values will be saved in the Camera memory of the device, which means the changes are permanent.</li> <li>• <b>Not Saving</b>: Changed values will not be saved in the Camera memory, which means if the IP device is turned off the changes are lost and the previous setting will be applied back.</li> </ul>

*Note: After setting up the network for the IP devices, make sure the IP devices are accessible on the network from your computer. It can be done by running Live View function of the homepage of the IP device's built-in server. Refer to **Section 9.8 Live View on page 33** for more information.*

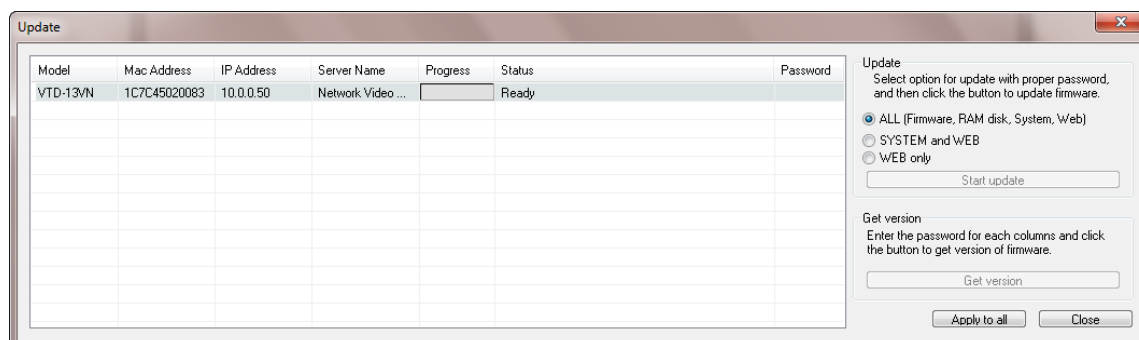
## 9.6. Updating Firmware

Once IP devices are searched and shown on the screen as functioning successfully, you can update the firmware of them in "IP Installer" program. To do that, first check the firmware version of the device, which you can find on the IP Installer window.



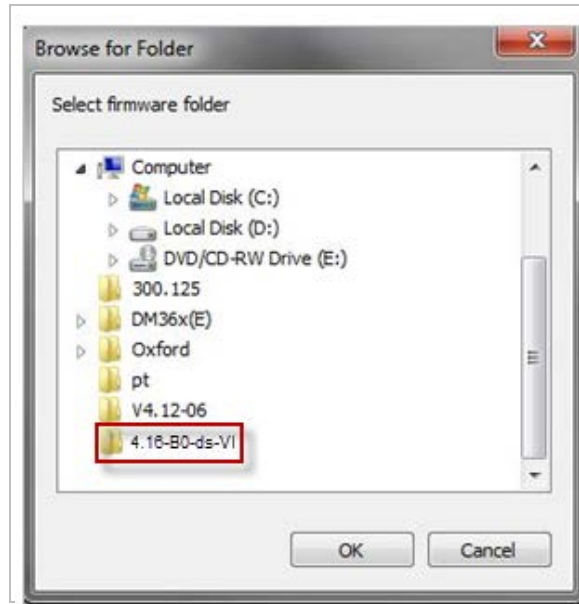
In the above picture, the firmware version of this product is 4.14-01-ds while the latest firmware version available is 4.16-B0-ds-VI as you could see at Vitek's homepage (<http://www.vitekctv.com/Downloads.asp>). If you decide to update the firmware, first create a folder on your computer for the update firmware, then download the latest firmware to that folder.

Then select the IP device to be updated on IP Installer window, then click **Update Firmware** button from the toolbar. The following window will be displayed.

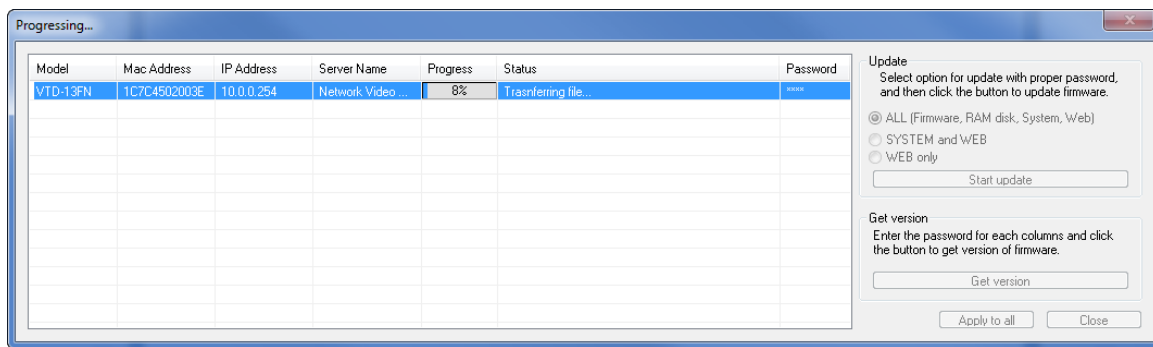


You may find the **Password** field is empty on the window shown above. If so, click the Password field of the IP device and enter the proper password for the device. You are not allowed to update the firmware if the correct password is not provided.

After the password is entered, the **Start Update** button will be enabled now. Click the button to see the following window for selecting the folder where the file has been saved. *Highlight the folder than click OK.*



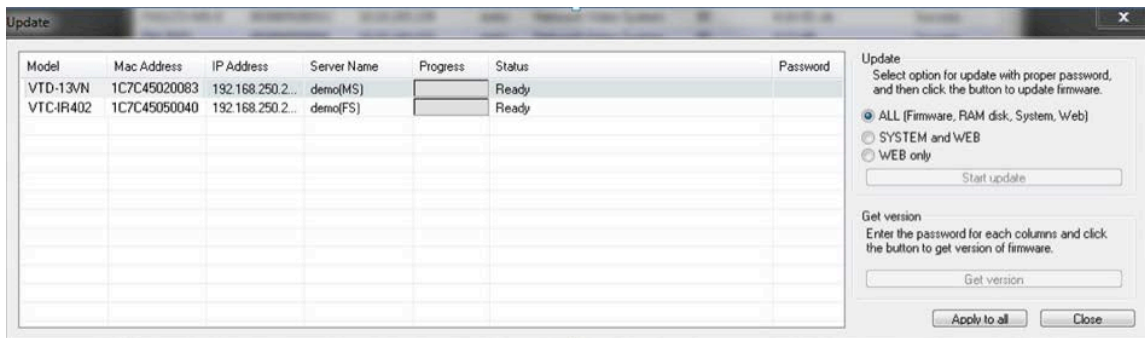
After clicking OK the following window will be displayed.



*Note: Do not CLOSE window until completed, to avoid permanent damage to the camera.*

You can also select multiple IP devices at the same time, and have them start firmware updating in a single step. Select the files to update by holding CTRL key and selecting which IP devices to update

Click **Start Update** button. You will see the update window brought up with multiple IP devices listed.



The rest of the procedure is the same as in the firmware update case for a single IP device.

## 9.7. Filter Configuration



When you need to search only for the IP device having a specific range of MAC or IP addresses, you can do it by using this feature. To set the search condition, click **Filter Configuration** button on the Toolbar, then the following window will show up on the screen.

The first six HEX characters are already filled in with 1C:7C:45, which is the MAC prefix for Vitekproducts. Put a checkmark in **MAC Address** or **IP Range** to set the range for searching.

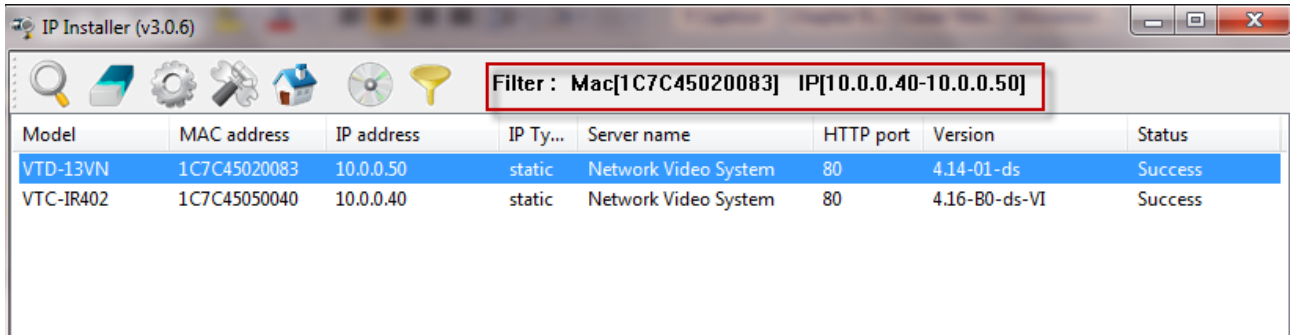
You can set the range of IP addresses to scan as shown below. In this example, all the IP devices having MAC address starting with 1C:7C:45 will be listed on the result window after scanning.

Or you can look for a single IP device having a specific IP address as below.

IP Address range for searching can be entered as follows.

You may even set both MAC Address and IP Range together at the same time.

After setting the searching range as explained above, click **OK** button. Then IP Installer program window will show the searching range on the top right portion of the window as shown below.

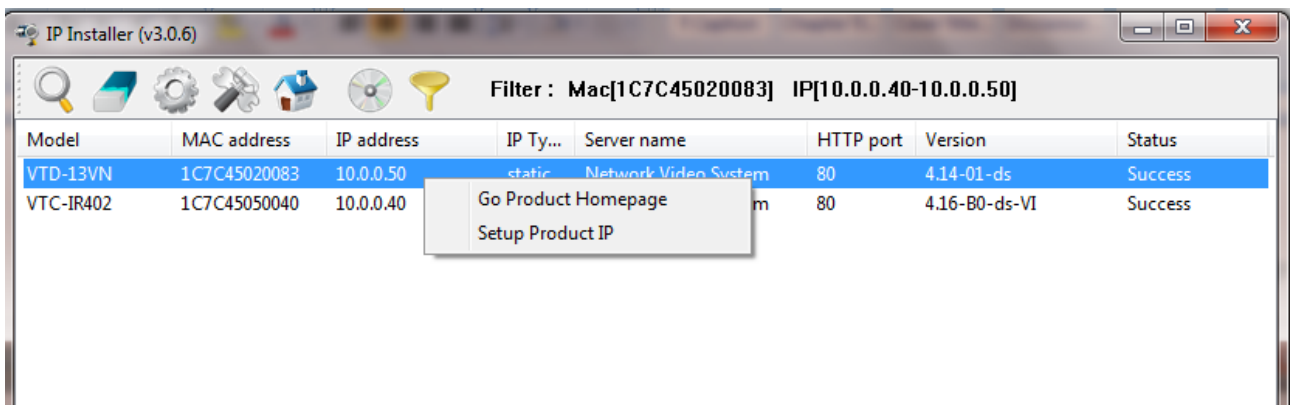


To start searching with this condition now, click **Search Product** button on the toolbar. The program will start searching and show the result after a moment.

### 9.8. Live View

Once searching and configuration on IP devices are done, you should make sure that the IP devices are accessible with the new settings. The best way to do it is by connecting to the homepage of each IP device's built-in server, and starting Live View feature.

Select **Go Product Homepage** when you click the rightmouse button on the IP device to test.



If you select **Go Product Homepage**, the homepage of that device's built-in server will be opened on a new Web browser window as shown below. This is the same result when you click Connect Product Homepage button from the Main Toolbar.

---

Home | Live View | Admin



The image shows a VITEK logo with the tagline "An Eye on Innovation." The logo features a stylized green eye with a white pupil. The word "VITEK" is in large, bold, white letters. Below it, "INDUSTRIAL VIDEO PRODUCTS, INC." is written in smaller white letters. The background is a dark green gradient with various technical terms in lighter green, including "IP", "Dual Streaming", "HIGH DEFINITION", "DIGITAL ZOOM", "Enterprise Class", "Megaapixel", "Real-Time", "NVR", "Control", "H.264", "Dynamic", "PTZ", "Power View", "Recorder", and "Real-Time".

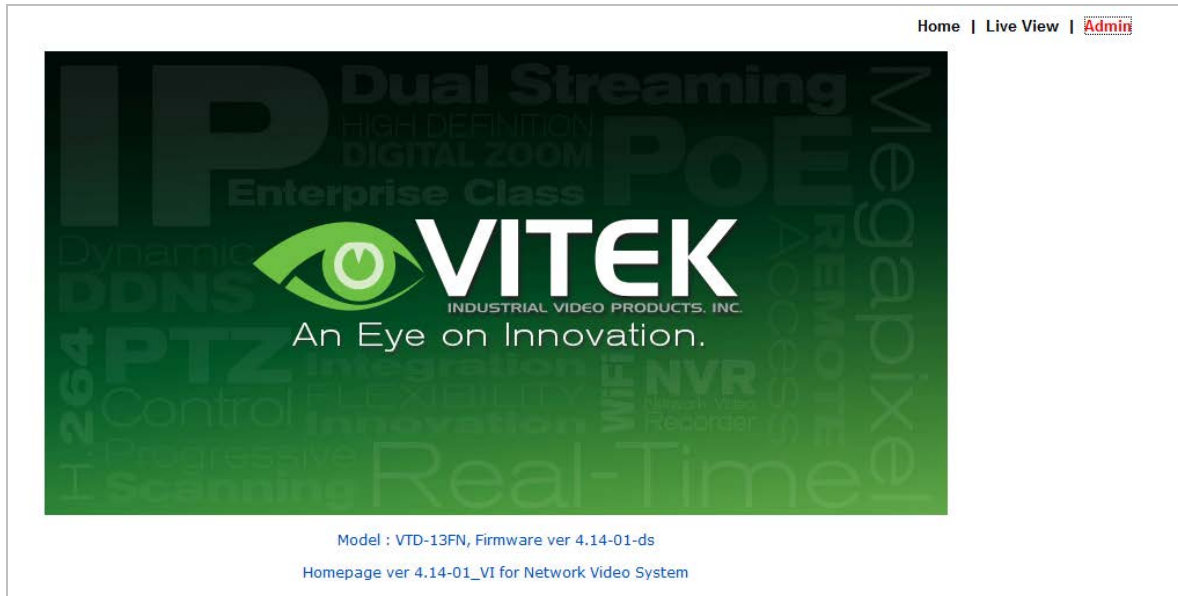
Model : VTD-13VN, Firmware ver 4.14-01-ds  
Homepage ver 4.14-01\_VI for Network Video System

Click Live View on the top right of the window, then ENVI Series Viewer ActiveX program will be started. If you have not installed the ENVI Series Viewer program before, it will ask for a confirmation to install it. Allow it and you will be able to find out whether the configuration by IP Installer program is properly done.

*Note: Refer to **Section 18. ENVI Series Viewer** on page 101 for detailed information about the ENVI Series Viewer ActiveX program.*

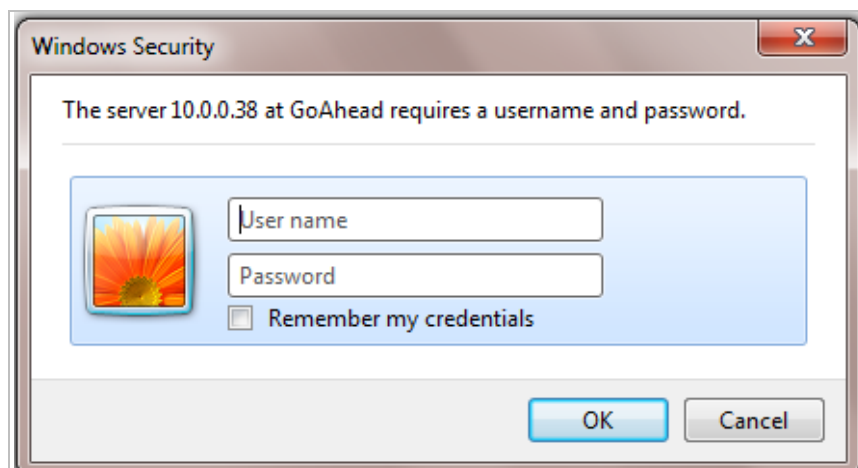
## 10. ENVI Admin Menu

After connecting to a VITEKENVI Series camera via web browser, you'll find the web page as shown below. The upper rightmost item of the menu is **Admin**; this is where you can set up most of the features in the VITEK camera you're connected to.



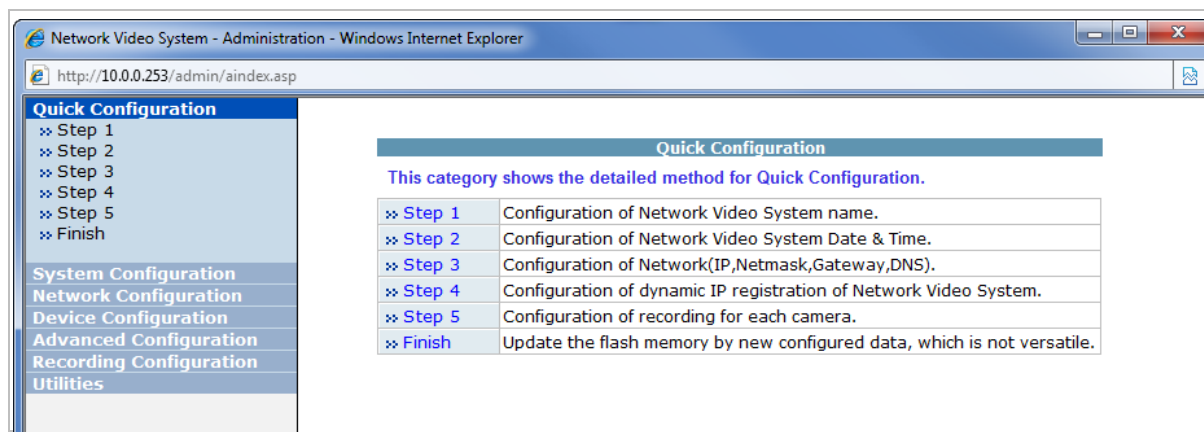
### 10.1. Entering Admin Menu

Click **Admin** then you'll see a login window. In the login window, enter **root** for both ID and password as they are the factory defaults. Press **Enter** key or click **OK**.



Now the **Admin Menu** will be displayed as shown below. This will guide you to the top level menu items, which are Quick, System, Network, Device, Advanced, Recording, and Utilities. Clicking any of these top level menu items will display submenu items and brief descriptions.



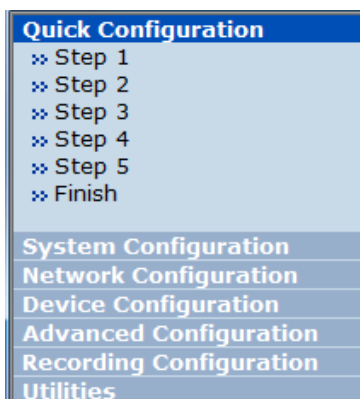


## 10.2. Admin Menu Structure

The following table shows the hierarchy of the Admin menu structure that we're going to deal with in this manual.

## 11. QuickConfiguration

In Quick Configuration, you will be able to set up many of the essential parts of the configuration in a simple manner without going into details. Selecting Quick Configuration gives you the menu as seen below. You can perform each setup by clicking the one you would like to configure.



### 11.1. Step 1: Changing Server Name

Click Server Name on System Configuration menu, then Server Name Setup windows will be displayed. Refer to **Section 12.1 Server Name Setup on page 37** to see how to change the server name.

### 11.2. Step 2: Time Setup

Click Date & Time on System Configuration menu, then the Local Date & Time Configuration window will be displayed. Refer to **Section 12.2 Date & Time on page 38** to see how to set up.

### 11.3. Step 3: Network Setup

To make a connection to the Internet, it is required to figure out the type of the Internet service you're using. Refer to **Section 13. Network Configuration on page 41** to see how to set up.

### 11.4. Step 4: IPCCTVDNS.COM

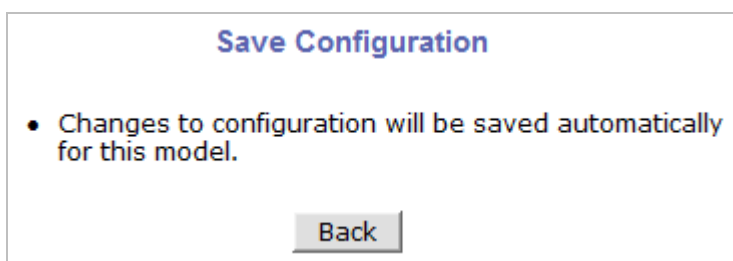
When VITEK Server is used in a Dynamic IP environment, it is required to utilize **IPCCTVDNS.com** feature. Refer to **Section 35. IP-CCTVDNS Registration on page 162** for setup information.

### 11.5. Step 5: Recording Configuration

Vitek cameras with MicroSD card can be configured for recording options in this section. Refer to **Section 16.1SD / MicroSD Card Configuration on page 90** to see how to set up.

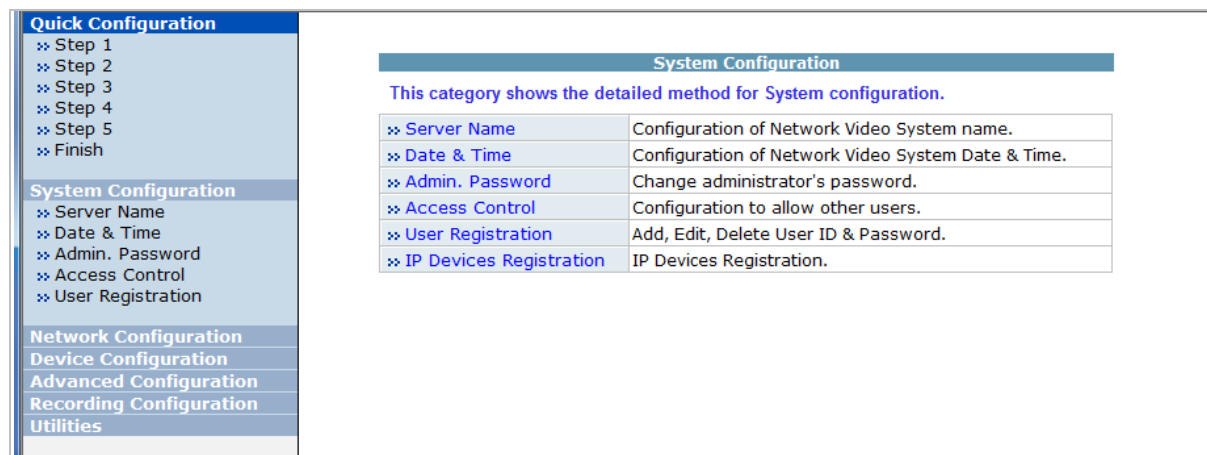
### 11.6. Finish

After clicking Finish all changes will be saved automatically to the camera/server



## 12. System Configuration Menu

When you click on **System Configuration** item on Admin Menu, the following sub menu will be displayed.



### 12.1. Server Name Setup

Click **Step 1** on **Quick Configuration** or **Server Name** under **System Configuration** then the following will be displayed and you will find out the system information such as model number of the VITEK camera, server name (camera name), MAC address (serial number), firmware version, and Web image version.

**Server Name Setup**

Product model name	VTD-13VN
Server name	Network Video System
Mac Address (S/N)	1C:7C:45:02:00:83
Firmware version	4.14-01-ds
Webimage version	4.14-01_VI

**Notice** : The server name can be 21 alphanumeric or 10 unicode.

As an administrator, you can change the name of the camera/ server, but other values are not allowed to be changed. To change the camera/ servername, enter a new name in the **Server Name** field. You may use up to 21 alphanumeric or up to 10 Unicode characters. Tab or any other special characters are not allowed. Click **Apply** button to save the setting and it will take effect immediately.

### 12.2. Date & Time

Click **Step 2** on **Quick Configuration**. Or **Date & Time** under **System Configuration** Fill the **Date** and **Time** fields with your local time and date information. If you're in a different time zone, put a checkmark on **Change Time Zone**, then select the correct region from the dropdown list to make the time zone change, you need to click **Apply** button and reboot the system.

**Local Date & Time Configuration**

Date (yyyy/mm/dd)	2012 / 11 / 9
Time (hh:mm:ss)	05 : 39 : 57
Time Zone	<input type="checkbox"/> Change Time Zone US/Pacific
Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
NTP server address	pool.ntp.org
NTP sever time	Get NTP server time

**Notice** : If you change the 'Time Zone' and click 'Apply' button, we strongly recommend to reboot this Network Video System.

If you want to retrieve the exact current time from a NTP server on the network, click **Get NTP Server Time** button. Clicking **Refresh** button will display the date and time retrieved from the camera. Then click **Apply** button to save it.

*Note: In order to retrieve Time and Date information from a NTP server, you need to put NTP server address in advance of setting up, such as pool.ntp.org.*

### 12.3. Admin Password

To change the password for the administrator, click **Admin Password** in **System Configuration** menu.



Administrator's Password Configuration	
Administrator's ID	root
Old Password	<input type="text"/>
New Password	<input type="text"/>
Confirm Password	<input type="text"/>

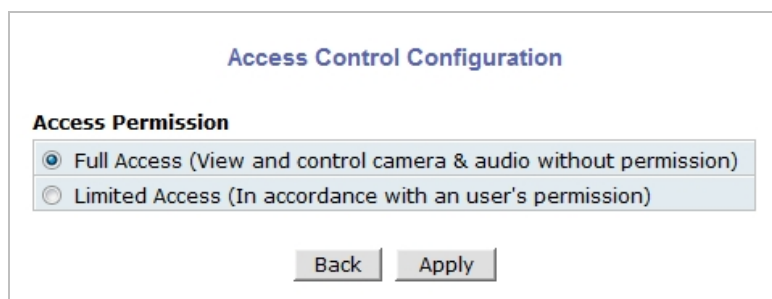
**Notice** : The password must be alphanumeric, within 4 ~ 23 characters.

Default ID for admin account is fixed as “**root**” and is not allowed to change. In **Old Password** field, enter the current password. In both **New Password** and **Confirm Password** fields, enter the same new password. The password must be between 4 and 23 alphanumeric characters. Click **Apply** button to put it into effect.

Because you have replaced the password with a new one, the existing network connection made with old password to VITEK camera is lost now. You will have to reconnect to the VITEK camera using new password.

### 12.4. Access Control

Click **Access Control** on **System Configuration** menu. The following windows will be displayed.



**Access Control Configuration**

**Access Permission**

Full Access (View and control camera & audio without permission)
   
 Limited Access (In accordance with an user's permission)

From the **Access Permission** window, select either one you would like to use. Click **Apply** button to save the change.

- **Full Access:** Any user can access the camera/server and use all the features without limits.
- **Limited Access:** Only registered users can access the camera/server and have limited privileges.

### 12.5. User Registration

You can add, modify, or delete users for your VITEKcamera/server here. Once registered as Limited Access setting, the user can access the VITEKcamera/server with some limited privileges.

#### 12.5.1. Add

To add a user, click **User Registration** on **System Configuration** menu. When **Add** is selected, you can add users and define their passwords, names, and access permission levels respectively.

**User Registration (Add)**

**Add**   
  **Edit**   
  **Delete**

User ID	<input type="text"/>
Password	<input type="text"/>
Confirm password	<input type="text"/>
Name	<input type="text"/>

**Notice :** User ID & Password must be alphanumeric within 23 characters.

Enter a **User ID** between 4 and 23 alphanumeric characters. In both **Password** and **Confirm Password** fields, enter the identical password respectively. The password must be between 4 and 23 alphanumeric characters. In **Name** field, enter the user's name up to 23 alphanumeric characters.

Now select one of the four items from **System Resource Access Permission**, which defines the permission level for registered users to the VITEKcamera.

System Resource Access Permission	
<input checked="" type="radio"/>	All Channels Access
<input type="radio"/>	General Access (only live viewing access)
<input type="radio"/>	No Access
<input type="radio"/>	Selective Access

- **All Channels Access:** User can use all the features except for Configuration in Admin Page.
- **General Access (only live viewing access):** User can only use Live View feature.
- **No Access:** User is not permitted any of the features.
- **Selective Access:** User is allowed to use only the selected features. With this item selected, you can now configure the details under this menu for the user.

VITEKcameras may have multiple VS Modules registered in it. When you click on any of the **Enable** checkboxes, other fields in that row are now enabled to select.

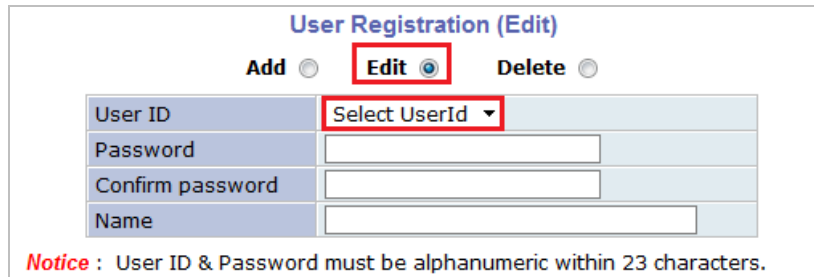
System Resource Access Permission				
<input type="radio"/>	All Channels Access			
<input type="radio"/>	General Access (only live viewing access)			
<input type="radio"/>	No Access			
<input checked="" type="radio"/>	Selective Access			
Enable	VS Module ID	Camera No.	Alarm Control	Audio Control
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>

- **VS Module ID:** VS Module is a network device that has been registered in theVITEKcamera
- **Camera No.:** Among the cameras of the VS Module select one to set up. (between all,1or2)
- **Alarm Control:** Determine if Alarm control is to be allowed. (*selected models*)
- **Audio Control:** Determine if Audio Control is to be allowed. (*selected models*)

After finishing the registration process, click **Apply** button to add the user.

### 12.5.2. Edit

To edit a user account, select **Edit**. In this part, you can modify the existing user's name, password, and access permission. User ID is not allowed to change. Once selecting a user ID to edit, the procedure is the same as in **Add** section.



**User Registration (Edit)**

**Add**  **Edit**  **Delete**

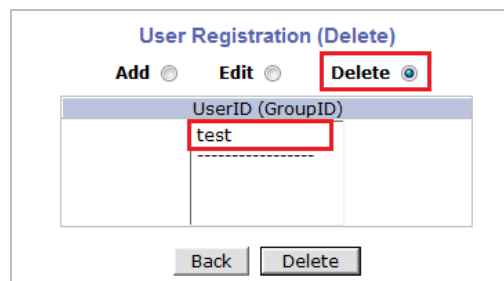
User ID	Select UserId ▾
Password	<input type="text"/>
Confirm password	<input type="text"/>
Name	<input type="text"/>

**Notice :** User ID & Password must be alphanumeric within 23 characters.

To see existing users, click **Select UserId**, and select a user to be edited from the dropdown box. Then you can change the password, name, or access permission, and click **Apply** button to save the setting. Setup of Access Permission can be done the same way as in the **Add** section.

### 12.5.3. Delete

To delete an existing user, select **Delete**.



**User Registration (Delete)**

**Add**  **Edit**  **Delete**

UserID (GroupID)
test

From the list of the users, select a user to delete. Click **Delete** button to confirm the deletion.

## 13. Network Configuration

Configuring the network is dependent on how an IP address is assigned in Ethernet-based environment, which is static IP, dynamic IP (DHCP), or PPPoE.

Quick Configuration	
<ul style="list-style-type: none"> <li>» Step 1</li> <li>» Step 2</li> <li>» Step 3</li> <li>» Step 4</li> <li>» Step 5</li> <li>» Finish</li> </ul>	
System Configuration	
<ul style="list-style-type: none"> <li>» Server Name</li> <li>» Date &amp; Time</li> <li>» Admin. Password</li> <li>» Access Control</li> <li>» <a href="#">User Registration</a></li> </ul>	
Network Configuration	
<ul style="list-style-type: none"> <li>» Network Configuration</li> <li>» Network Ports</li> <li>» Bandwidth Control</li> <li>» View Network Status</li> <li>» Network Status Notify</li> <li>» IP-CCTV DNS™</li> <li>» Port Forwarding &amp; UPnP</li> <li>» RTP/RTSP</li> </ul>	
Device Configuration	
Advanced Configuration	
Recording Configuration	
Utilities	

Network Configuration	
This category shows the detailed method for network system.	
» Network Configuration	Configuration of Network(IP,Netmask,DNS).
» Network Ports	Modification of HTTP and other application network port numbers.
» Bandwidth Control	Configuration of bandwidth control.
» View Network Status	View of Network Status.
» Network Status Notify	It sends IP address by e-mail when IP address is allocated by DHCP(or PPPoE).
» IP-CCTV DNS™	Configuration of dynamic IP registration of Network Video System.
» Port Forwarding & UPnP	Configuration of Port Forwarding & UPnP(Universal Plug and Play).
» RTP/RTSP	Configuration of RTP/RTSP.

### 13.1. Static IP Configuration

Select **Network Configuration** under **Network configuration**

Quick Configuration	
System Configuration	
Network Configuration	
<ul style="list-style-type: none"> <li>» <b>Network Configuration</b></li> <li>» Network Ports</li> <li>» Bandwidth Control</li> <li>» View Network Status</li> <li>» Network Status Notify</li> <li>» IP-CCTV DNS™</li> <li>» Port Forwarding &amp; UPnP</li> <li>» RTP/RTSP</li> </ul>	
Device Configuration	
Advanced Configuration	
Recording Configuration	
Utilities	

**Network Configuration : Static IP**

**Static IP**  
  DHCP Client  
  PPPoE

IP Address	<input type="text" value="10.0.0.253"/>
NetMask	<input type="text" value="255.255.255.0"/>
GateWay	<input type="text" value="10.0.0.2"/>
DNS 1	<input type="text" value="10.0.0.1"/>
DNS 2	<input type="text"/>

For static IP, select **Static IP** and input IP address, NetMask, Gateway, DNS1, DNS2 and click apply to save settings. After **apply**, program will ask to close web browser for updates, which will take 20~30 seconds. If **Back** button is clicked all values will be discarded. If **Refresh** button is clicked, the program will load previous values.

### 13.2. DHCP Client Configuration

To use DHCP a DHCP server must exist in the network environment. Select **DHCP Client** from **Network Configuration**, click **Apply**. And all information needed will be filled in automatically

**Quick Configuration**

- System Configuration
- Network Configuration
  - Network Configuration
  - Network Ports
  - Bandwidth Control
  - View Network Status
  - Network Status Notify
  - IP-CCTV DNS™
  - Port Forwarding & UPnP
  - RTP/RTSP
- Device Configuration
- Advanced Configuration
- Recording Configuration
- Utilities

**Network Configuration : Static IP**

Static IP  **DHCP Client**  PPPoE

IP Address	10.0.0.253
NetMask	255.255.255.0
GateWay	10.0.0.2
DNS 1	10.0.0.1
DNS 2	8.8.8.8

Back Apply Refresh

### 13.3. PPPoE Configuration

PPPoE is used to connect VITEK products to a PPPoE modem provided by the ISP. Since PPPoE needs verification, ID and a password are necessary to access the network. Type in PPPoE user ID and password

**Network Configuration : PPPoE**

Static IP  DHCP Client  **PPPoE**

User ID	<input type="text"/>
User Password	<input type="text"/>
Confirm Password	<input type="text"/>

Back Apply

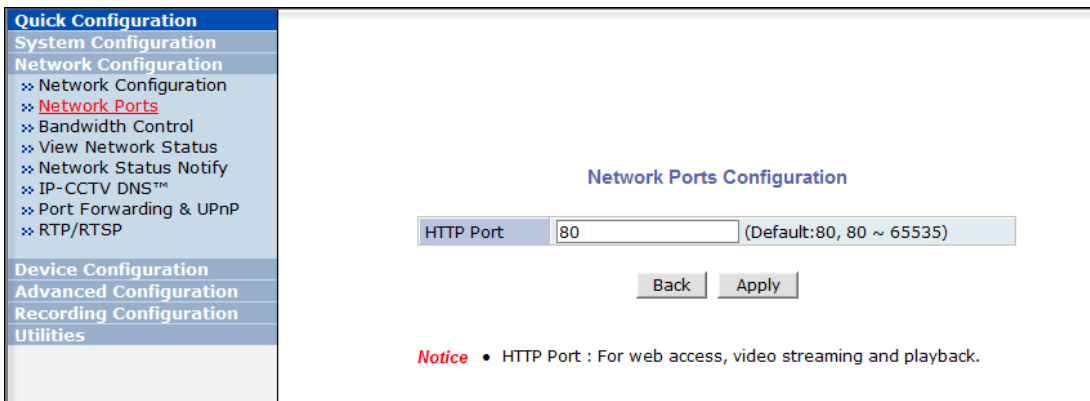
**Notice :** Please make sure to set up "Network Status Notify" option to get IP address through e-mail when PPPoE option is selected. Otherwise, there is no way to get changed IP address.

### 13.4. Network Ports

In this configuration, you set up the HTTP port for VITEKcameras to communicate with the Client PC. HTTP Port is the network port that is used when a Client PC connects to the VITEKcamera Web page. It can be assigned between 80 and 65535. The default value is 80.

*Note: If the HTTP port number is changed to a different value than default (80), make sure the new HTTP port number goes together with the VITEK cameras IP address. For example, when a VITEK cameras IP address is 192.168.1.100 and the HTTP port is 8080, you will have to enter http://192.168.1.100:8080 to connect to the camera.*

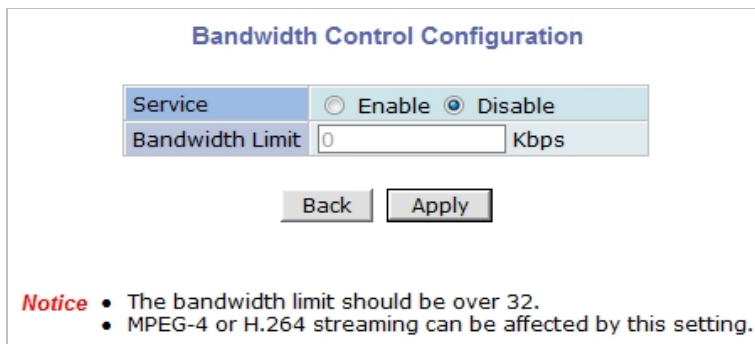




### 13.5. Bandwidth Control Configuration

Bandwidth control is for limiting maximum network traffic. If it is enabled with Bandwidth limits, maximum data size transferred from VITEKcameras won't exceed bandwidth limits set by users. If transferred data is exceeded, part of the data will be randomly lost.

If multiple users try to access a VITEKcamera when bandwidth control is enabled, users connected to the VITEKcamera will share network bandwidth limit.



*Note: This bandwidth control feature works well in M-JPEG video transmission. But, for H.264, dropping data packets may cause low quality of video, so it is recommended to utilize CBR and frame rate control instead of bandwidth control for H.264 video. Refer to **Section 14.2 Camera & Motion on page 52** for more info on CBR and Frame rate.*

*Note: Network Bandwidth control is managed by the VITEKcamera and it drops any data packets if required, thus you may experience slow connection when this feature is enabled.*

### 13.6. View Network Status

This menu shows network status of VITEKcameras.

<b>Quick Configuration</b>	<b>Network Status</b>
System Configuration	
Network Configuration	
✧ Network Configuration	
✧ Network Ports	
✧ Bandwidth Control	
✧ <b>View Network Status</b>	
✧ Network Status Notify	
✧ IP-CCTV DNS™	
✧ Port Forwarding & UPnP	
✧ RTP/RTSP	
Device Configuration	
Advanced Configuration	
Recording Configuration	
Utilities	
	<div style="border: 1px solid #ccc; padding: 5px;"> <p><b>Common Status</b></p> <p>Gateway <input type="text" value="10.0.0.2"/></p> <p>Gateway Device <input type="text" value="eth0"/></p> <p>DNS1 <input type="text" value="10.0.0.1"/></p> <p>DNS2 <input type="text"/></p> <p><b>LAN Status</b></p> <p>IP Address <input type="text" value="10.0.0.253"/></p> <p>Netmask <input type="text" value="255.255.255.0"/></p> <p>MAC Address <input type="text" value="1C:7C:45:02:00:3E"/></p> <p><b>PPPoE Status</b></p> <p>Connection Status <input type="text" value="Link is down"/></p> <p>IP Address <input type="text"/></p> <p>Netmask <input type="text"/></p> <p><b>WAN-Modem Status</b></p> <p>Connection Type <input type="text" value="PPP Server (Dial In)"/></p> <p>Connection Status <input type="text" value="Link is down"/></p> <p>Local IP <input type="text"/></p> <p>Remote IP <input type="text"/></p> <p>Netmask <input type="text"/></p> <p style="text-align: center;"> <input type="button" value="Back"/> <input type="button" value="Refresh"/> </p> </div>

### 13.7. Network Status Notify

This feature helps to send updated network status information to registered email address if any changes happen. This function will work under DHCP or PPPoE.

If **Network Status Notify** is set to **Enable**, VITEKcameras network status will be emailed to a specific person in case of the following events:

- When it is set to Dynamic IP in the **Network Configuration** menu, and the VITEKcamera has been given a new dynamic IP address and connects to the network.

Or,

- When it is set to PPP Client on WAN-Modem menu, and the VITEKcamera has been connected to the network with ISP or PPP server.

To configure, click **Network Status Notify** on **Network Configuration** menu. The following window will be shown.

**Network Status Notification**

Mail Notification	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SMTP Server	<input type="text"/>
Authentication Login	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
User ID	<input type="text"/>
Password	<input type="text"/>
Sender	<input type="text"/>
1st Recipient	<input type="text"/>
2nd Recipient	<input type="text"/>
3rd Recipient	<input type="text"/>
----- User-Defined Message -----	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	

**Notice :** It sends IP address by e-mail when IP address is allocated by DHCP(or PPPoE).

First, select **Enable** to use the feature. Then enter the address of the SMTP server which is needed for email service. If your SMTP server requires a user ID and a password for authentication, you will have to Enable **Authentication Login** and enter the user ID and Password.

In **Sender** field, enter your email address or other meaningful words that will show the message was sent from the VITEKcamera as a notification. Now enter the email addresses of the recipients in the **Recipient** fields, up to 3 addresses. In the **User-Defined Message** box, you may enter a message to explain why the message was sent. After finishing the setup, click **Apply** to save settings.

Mail Notification	<b>Enable:</b> Send email <b>Disable:</b> Do not send email
SMTP Server	SMTP Server address for email service
Authentication Login	<b>Enable:</b> user ID and password are required for SMTP server <b>Disable:</b> user ID and password are not required
User ID	User ID for SMTP server
Password	Password for SMTP server
Sender	Email address of Sender or Name
1st / 2nd / 3rd Recipient	Email Addresses of the Recipients (up to 3 addresses)
User Defined Message	Message to be included in the Notification email

### 13.8. IP-CCTV DNS Setup

Note: Refer to **Section 35. IP-CCTV DNS Registration on page 162** for further details on configuration.

IP-CCTV DNS service provides a static & public domain name to help user's access VITEKcameras even though their IP address has changed or they are used in a local network. For proper function of IP-CCTV DNS service, products need to be accessible through the internet.

<b>Quick Configuration</b>	<h3 style="margin: 0;">IP-CCTV DNS™ Setup</h3> <table border="1" style="margin: 10px auto;"> <tr> <td>Service</td> <td><input checked="" type="radio"/> Enable <input type="radio"/> Disable</td> </tr> <tr> <td>DNS Server IP</td> <td><input type="text" value="www.ipcctvdns.com"/> <input type="button" value="Go"/></td> </tr> <tr> <td>Mac Address</td> <td>1C7C4502003E</td> </tr> <tr> <td>Product-Key</td> <td>01FBA6C8</td> </tr> <tr> <td>IP-CCTV DNS Registration verification</td> <td><input type="button" value="Confirm"/></td> </tr> </table> <p style="margin: 10px auto; text-align: center;"> <input type="button" value="Back"/>   <input type="button" value="Apply"/> </p> <p style="margin: 10px auto; color: red; font-size: small;"> <b>Notice :</b> If you do not use public dynamic IP address for the remote access, please skip this step.  This is related with www.ipcctvdns.com.  Different IP address or URL must follow the same protocol of www.ipcctvdns.com  If you click Confirm button, you can verify registered URL on IP-CCTV DNS.  If product is not registered on IP-CCTV DNS, you can not verify registered URL. </p>	Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	DNS Server IP	<input type="text" value="www.ipcctvdns.com"/> <input type="button" value="Go"/>	Mac Address	1C7C4502003E	Product-Key	01FBA6C8	IP-CCTV DNS Registration verification	<input type="button" value="Confirm"/>
Service		<input checked="" type="radio"/> Enable <input type="radio"/> Disable									
DNS Server IP		<input type="text" value="www.ipcctvdns.com"/> <input type="button" value="Go"/>									
Mac Address		1C7C4502003E									
Product-Key		01FBA6C8									
IP-CCTV DNS Registration verification		<input type="button" value="Confirm"/>									
System Configuration											
<b>Network Configuration</b>											
» Network Configuration											
» Network Ports											
» Bandwidth Control											
» View Network Status											
» Network Status Notify											
» IP-CCTV DNS™											
» Port Forwarding & UPnP											
» RTP/RTSP											
Device Configuration											
Advanced Configuration											
Recording Configuration											
Utilities											

### 13.9. Port Forwarding & UPnP

UPnP(Universal Plug and Play)is a kind of network protocol to help users to find and configure network products in the same local network area. Port forwarding is to assign a certain network port to a network product so users can access it from outside of the Local Area Network. Generally, port forwarding can be configured from the network router.

UPnP port forwarding is made up with finding an available network port, assigning it to a VITEKcamera and reporting overall network configuration of a VITEKcamera to IP-CCTV DNS server. Users have to register products into IPCCTVDNS server and IP-CCTV DNS service should be enabled.

There are 3 options in UPnP Port Forwarding.

- **Manual: User Assigned Port**issued when users can access network router(hub) and manually assign available network ports to VITEKcameras. In this case, users have to type already-assigned network ports under **User Assigned port**.
- **UPnP: User Assigned Port** is used when users want VITEKcameras to configure port forwarding of network hub with user-assigned network port. If it fails, try to change user-assigned port
- **UPnP: Auto Selected Port**is used to let VITEKcameras deal with all network configurations automatically.

Please note that the network router needs to support UPnP Port Forwarding. There is a limit forthe maximum number of UPnP devices. If it is properly configured, results will be displayed under **UPnP status**.

### Port Forwarding & UPnP

Port Forwarding	<input checked="" type="radio"/> Manual : User Assigned port	<input type="text" value="9080"/>
	<input type="radio"/> UPnP : User Assigned port	<input type="text" value="9080"/>
	<input type="radio"/> UPnP : Auto selected port	
Display shortcut Icon in My Network Places	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	

### UPnP Status

Status	<input type="text" value="Success"/>
External Port No.	<input type="text" value="9080"/>
Router Global Address	<input type="text"/>
System's IP address for Local Network Access	<input type="text" value="http://10.10.213.26:80"/>
System's IP address for Access via Internet	<input type="text"/>

**Notice** : User's assigned port is the external port number of dynamic IP address. This function is quite unique when UPnP IP sharer or router are used together. If Upnp service is not activated by UPnP : User Assigned port, allocate another port.

### 13.10. RTP/RTSP Setup

**Factory default is Enable to be used with other manufactures VMS software's**

RTSP (Real-Time Streaming Protocol) is a protocol to transfer video and audio streams over the network. Any application supporting Standard RTSP can be used for VITEKcameras. Quick Time Player or VLC program can be used with this; it may not be supported in the environment within a firewall. There are two types of usage; one for Unicast address condition and the other for Multicast address condition.

**For Unicast Address:**

Use "rtsp://network video server ip address/cam0\_0". If there are multiple channels, use cam0\_x, x (0~3) with each number applied. If there are multiple modules, use camx\_0 x (0 ~ 3) with each module number applied.

**For Multicast Address:**

Use "rtsp://network video server ip address/mcam0\_0". If there are multiple channels, use mcam0\_x, x (0~3) with each channel number applied. If there are multiple modules, use mcamx\_0 x (0 ~ 3) with each module number applied.

### RTP/RTSP Setup

Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
RTSP Port	<input type="text" value="554"/>	(Default:554, 554 ~ 65534)
RTP Start Port	<input type="text" value="5000"/>	(Default:5000, 2048 ~ 65534)
Camera 1	Multicast Address	<input type="text" value="0.0.0.0"/> Disable:0.0.0.0 (225.0.0.0 ~ 239.255.255.255)
	Multicast Port	<input type="text" value="0"/> (Disable:0, 2048 ~ 65534)
Camera 2	Multicast Address	<input type="text" value="0.0.0.0"/> Disable:0.0.0.0 (225.0.0.0 ~ 239.255.255.255)
	Multicast Port	<input type="text" value="0"/> (Disable:0, 2048 ~ 65534)

**Notice :** This function is only for built in module.  
IP devices (added VS module) does not support this function.

RTSP URL for Camera 1  
rtsp://(Network Video Server IP Address)/cam0\_0  
-> cam(0 : VS Module number)\_(0:Port number)

RTSP URL for Camera1 for Multicast address  
(Multicast address and Port should be configured.)  
rtsp://(Network Video Server IP Address)/mcam0\_0  
-> mcam(0 : VS Module number)\_(0:Port number)

Service	<b>Enable:</b> Start RTSP service <b>Disable:</b> Stop RTSP service
RTSP Port	In normal case, use default port number 554 to connect to RTSP service. If not using port 554, enter the port number you want to use. e.g.) port number 445==>rtsp:// network video server ip address:445/cam0_0
RTP Start Port	The starting number of the port for video transfer. Each time video transfer connection is made, the port number also increases.
Multicast Address	Address for multicast video transfer. The multicast address 0.0.0.0 is for stopping multicast.
Multicast Port	Port number for viewing the video with a multicast address

## 14. Device Configuration

### 14.1. Privacy Zone

Users can set a privacy zone if a certain part of the screen needs to be unmonitored.

To set the region, click **Privacy Zone** from **Device Configuration** category.

Quick Configuration	<div style="text-align: center; background-color: #0056b3; color: white; padding: 5px;">Device Configuration</div> <p style="color: blue;">This category shows the detailed method for Device Configuration.</p> <table border="1"> <tr> <td>Serial Ports</td> <td>Configuration of serial ports(RS-232, RS-422, RS-485 ports)</td> </tr> <tr> <td><b>Privacy Zone</b></td> <td>Configuration of Privacy Zone.</td> </tr> <tr> <td>Camera &amp; Motion</td> <td>Configuration of video mode and the details.</td> </tr> <tr> <td>DI/DO</td> <td>Configuration of DI(Sensor Input)/DO(Alarm Output).</td> </tr> <tr> <td>DI Status/DO Control</td> <td>Enable or Disable each DO(Alarm Output) port.</td> </tr> </table>	Serial Ports	Configuration of serial ports(RS-232, RS-422, RS-485 ports)	<b>Privacy Zone</b>	Configuration of Privacy Zone.	Camera & Motion	Configuration of video mode and the details.	DI/DO	Configuration of DI(Sensor Input)/DO(Alarm Output).	DI Status/DO Control	Enable or Disable each DO(Alarm Output) port.
Serial Ports		Configuration of serial ports(RS-232, RS-422, RS-485 ports)									
<b>Privacy Zone</b>		Configuration of Privacy Zone.									
Camera & Motion		Configuration of video mode and the details.									
DI/DO		Configuration of DI(Sensor Input)/DO(Alarm Output).									
DI Status/DO Control		Enable or Disable each DO(Alarm Output) port.									
System Configuration											
Network Configuration											
Device Configuration											
Serial Ports											
Privacy Zone											
Camera & Motion											
DI/DO											
DI Status/DO Control											
Advanced Configuration											
Recording Configuration											
Utilities											



To Add a Privacy zone click **New** button, a **Green**-colored box will appear, click on the **Green** box and it will turn **Red**, at this point you can resize it by clicking and holding any corner and drag to desired size. To relocate box click and hold anywhere inside the box and drag to desired location. Click **Apply** when done

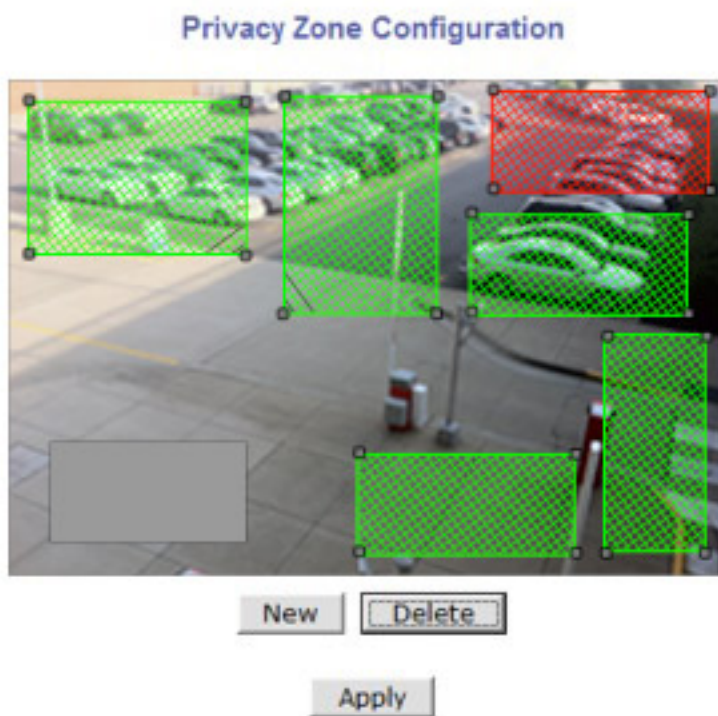






Users can add up to 8 Privacy Zones per screen by repeating above steps. If you add more than 8, an error message will display on the screen.

To delete a privacy zone, click the zone and click **Delete** button followed by **Apply** button.

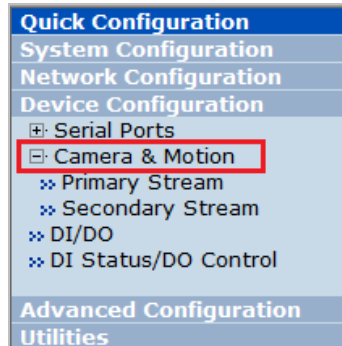




## 14.2. Camera & Motion

This menu is used to set up the selection of video format, data added to video data, encoding speed, audio control, image resolution, video quality, motion detection, etc.

Click **Camera & Motion** on **Device Configuration** menu. The configuration menu will be displayed, and it may be different between VITEKcameras.



- **M-JPEG**: This format requires much higher network bandwidth than H.264 compression. But because of its higher quality of still image, it is adequate for detailed reviewing of stored video.
- **H.264**: In this format, each frame data is related to other nearby frames. For this reason, it provides much higher compression ratio than M-JPEG and is adequate for video transfer. However, if network conditions are limited dropped frames in video data is possible, the video quality can be relatively low. With VITEKCameras, you can set the number of P-frames in the video which is independent still images between I-frames.

*Note: For Dual Stream products, most of the parameters are dependent on primary stream value.*

You can configure the video data format and other information to be contained in it.

### Camera & Motion Configuration

Video with Flexible Extra System data		<input type="checkbox"/> Enable
Video with user defined message		<input type="checkbox"/> Enable
Video with PPP status		<input type="checkbox"/> Enable
Video with camera name		<input type="checkbox"/> Enable
Video with server name		<input type="checkbox"/> Enable
Video with IP address		<input type="checkbox"/> Enable
Audio		<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Primary Stream	Frame Rate	30 fps ▾
	Image Size	1280 x 1024 ▾
	Encoding Standard	<input type="radio"/> M-JPEG <input checked="" type="radio"/> H.264
Secondary Stream	Frame Rate	Primary fps ▾
	Image Size	704 x 480 ▾
	Encoding Standard	<input checked="" type="radio"/> M-JPEG <input type="radio"/> H.264

<a href="#">❖ Camera Control</a>
<a href="#">❖ Motion Detection</a>
<a href="#">❖ Primary Stream</a>
<a href="#">❖ Secondary Stream</a>

- **Video with Flexible Extra System data:** If **Enabled**, video data will contain UART sensor data from COM port..(Feature not available on this model)
- **Video with user defined message:** If **Enabled**, video data will contain the user-defined data. (Reserved Field).(Feature not available on this model)
- **Video with PPP status:** If **Enabled**, video data will contain PPP connection status..(Feature not available on this model)
- **Video with camera name:** If **Enabled**, video data will contain the camera name..(Feature not available on this model)
- **Video with server name:** If **Enabled**, video data will contain the server name that you defined..(Feature not available on this model)
- **Video with IP address:** If **Enabled**, video data will contain the IP address of the video server..(Feature not available on this model)
- **Audio:** (not available on all models) Select if Audio function is to be used (applies to Primary Stream only). VITEK Cameras provides 2-way audio streaming by combining microphone input with video data. Users can listen to the streamed audio through a PC and speakers.
- **Frame Rate:** For Primary Stream, this is the number of frames compressed in every second. You can control the network traffic with this parameter. For Secondary Stream, it can be set to a manner of 1/2, 1/4, 1/8... of the primary stream.
- **Image Size:** Select the resolution of each channel's video
- **Encoding Standard:** Select the compression method of each video, either M-JPEG or H.264 format. It is not allowed to set both channels to M-JPEG.

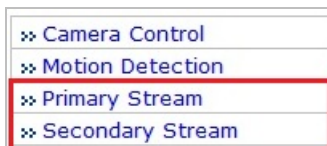
Below is the table of images sizes. To save the setting, click **Apply** button

Video Format	SXGA	D1	CIF	QCIF
--------------	------	----	-----	------

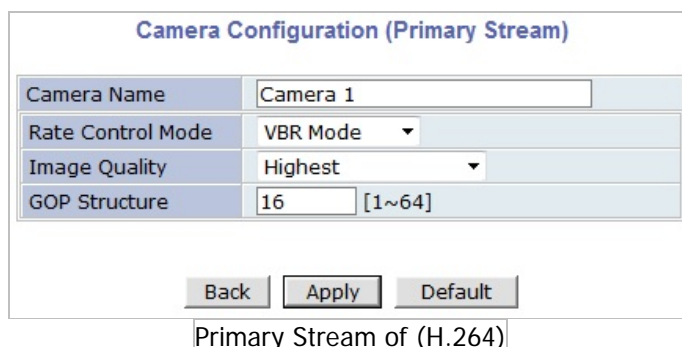
NTSC	-	704 x 480	352 x 240	160 x 112
PAL	-	704 x 576	352 x 288	160 x 144
VGA	-	640 x 480	320 x 240	160 x 112
1.3M Pixel	1280 x 1024	640 x 480	320 x 240	160 x 112
2.0M Pixel	1920 x 1080	640 x 480	320 x 240	160 x 112

### 14.3. Camera Configuration

On the lower part of **Camera & Motion Configuration** menu, select a channel to configure.



In the example shown below, Primary Stream is set to **H.264** for compression format. Enter detailed parameters of the camera selected here.



- **Camera Name:** Enter the name of the channel up to 21 alphanumeric or up to 10 Unicode characters.

H.264	<p><b>Rate Control Mode:</b>VBR (Variable Bit Rate) Video frames are encoded with selected image quality and GOP. Encoded frames have different data size from each other.</p>	<p><b>Image Quality:</b>one of 6 quality levels (Low Compression / Highest /High Normal / Low / Lowest)</p>
	<p><b>Rate Control Mode:</b> CBR (Constant Bit Rate) Video frames are encoded with selected image quality and GOP.Encoded frames have the same data size as other frames. Due to the constant bit rate, it has better stable transmission performance.</p>	<p><b>GOP Structure:</b> Distance between I-Frames. That is filled with P-frames.</p> <p><b>Bit Rate Control:</b> Total number of Bits encoded per second. The higher Bit Rate, the better image quality. Can be set between 32kbps and 2Mbps.</p> <p><b>GOP:</b> Distance between I-Frames. That is filled with P-frames.</p>
M-JPEG	-	<p><b>Image Quality:</b> one of 6 quality levels (Low Compression / Highest / High Normal / Low / Lowest)</p>

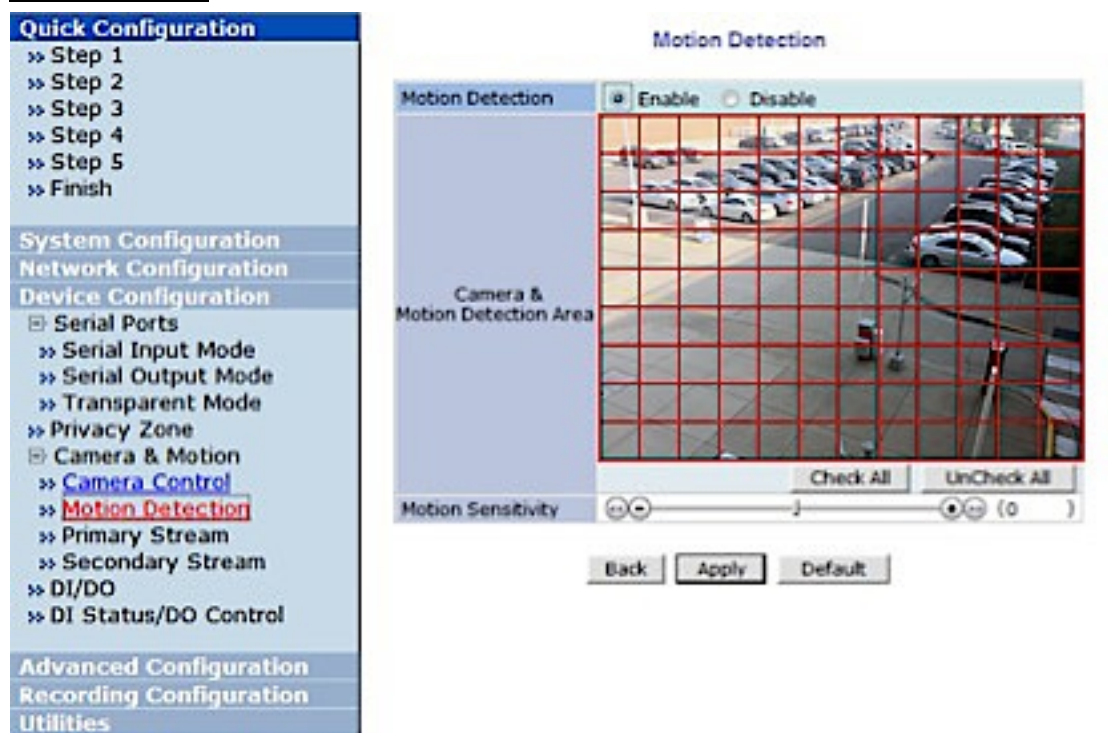
### 14.3.1. Rate Control Mode

### 14.3.2. Image Quality Setup

In **Image Quality** level setup, select “Low Compression” for higher image quality, but it requires higher network bandwidth. Selecting the “Lowest” requires lower network bandwidth, but gives decreased image quality.

After configuration is finished, click **Apply** button to save the setting. If you click **Default** button, the entire configuration will be reset to the original values.

#### Motion Detection



- **Motion Detection:**(this is only available in Primary Stream) If enabled, Motion Detection feature is activated and user can configure the areas where motion detection function will work. Click **Check All** button for whole scene to be active (grid will turn **Green**) then click on any box inside scene to take out that area from Motion Detection (box will turn **Red**) then click **Apply** to save
- **Motion Sensitivity:** Set the sensitivity of motion defined in Motion Detection Area. Select between -100 and 100. 100 is the most sensitive.

After all the settings are done, click **Apply** button to save it. If **Default** button is clicked, all the fields return back to original value.

### 14.4. Camera Control (Select Models)

Select **Camera Control** on the bottom of **Camera & Motion Configuration** menu.

**Quick Configuration**

System Configuration

Network Configuration

Device Configuration

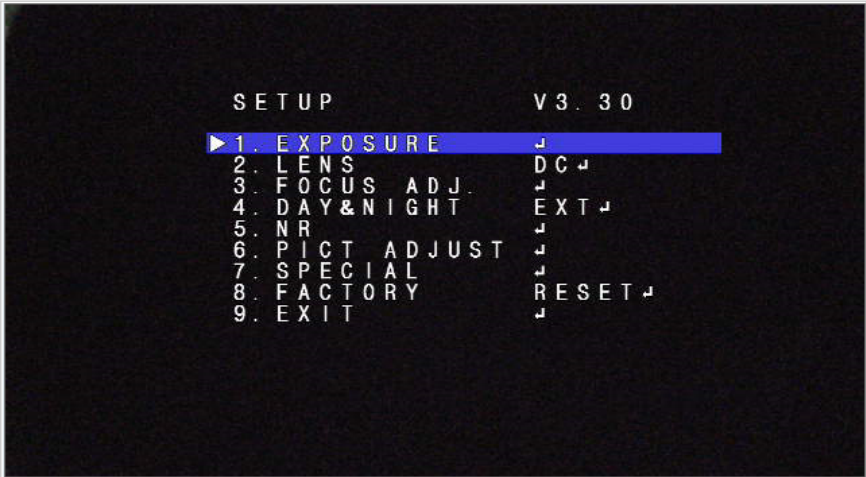
- ▣ Serial Ports
- ▣ Privacy Zone
- ▣ Camera & Motion
- ▣ Camera Control
- ▣ Motion Detection
- ▣ Primary Stream
- ▣ Secondary Stream
- ▣ DI/DO
- ▣ DI Status/DO Control

Advanced Configuration

Recording Configuration

Utilities

Camera Control



BUILT IN CAMERA CONTROL

	Up	
Left	Enter	Right
	Down	

Back

**Notice :** If the OSD menu is crushed and blurred, it should be due to small image size. Please have the **secondary image size** be 640\*352.

## Exposure



### 3 SHUTTER/AGC menu

This menu shows how to control/select SHUTTER, AUTO IRIS and AGC to get the optimum image for high luminance and the low luminance according to the scene.

For example, to reduce the "wash out" and extend the dynamic range for a highlighted scene, you will use SHUTTER+AUTO IRIS in outdoor daylight. This mode may show color rolling or video level hunting problems in a certain lighting condition such as fluorescent lights.

For Flickerless mode which reduces flicker by NTSC cameras under 50Hz light or PAL camera under 60Hz light, MAIN>SHUTTER/AGC>MANUAL>SHUTTER must be set to 1/100(NTSC), 1/120(PAL) and MAIN>SHUTTER/AGC>AUTO>MODE to AUTO IRIS. Normal shutter speed with an auto iris lens should be set to 1/60(NTSC) and 1/50(PAL) for the optimum sensitivity.

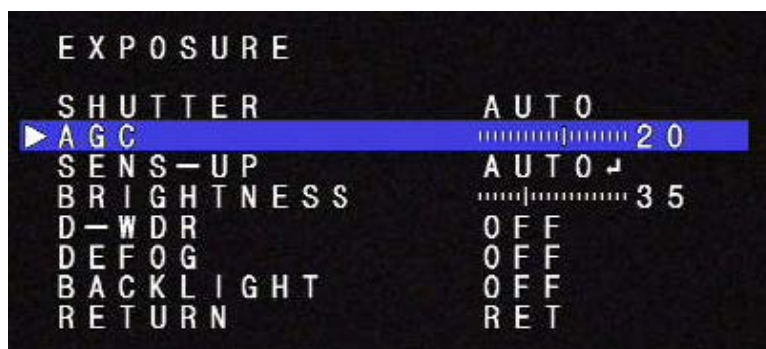
This is a complicated menu so please proceed with care when handling the Shutter.

### AGC (Automatic Gain Control)

The higher the gain level, the brighter the screen - but the higher the noise.

You can adjust the AGC manually

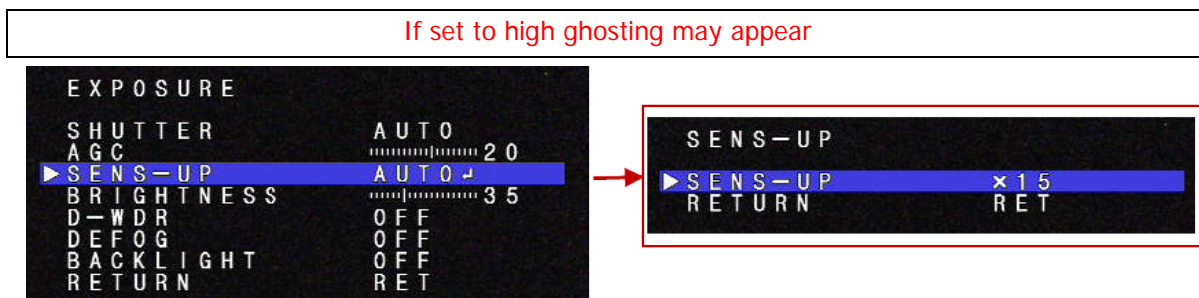




SENS-UP

Allows color video in low light environment without noise (static).

Levels of adjustment (x2, 4, 6, 8, 10, 15, 20,30)

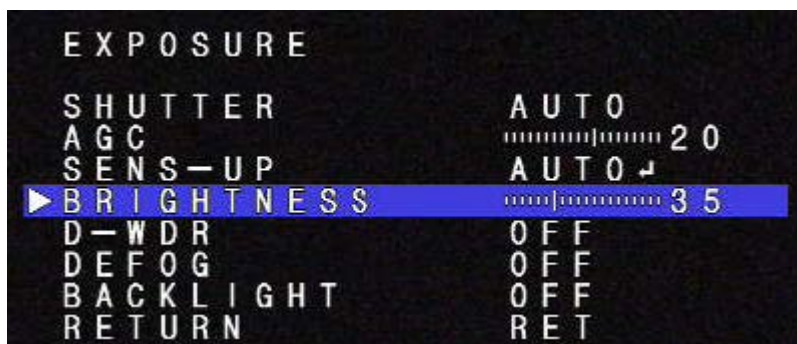


Brightness

Increases or decreases the brightness of the picture.

This is different from that of DC iris lens and simply increases or decreases the digital gain of the video.

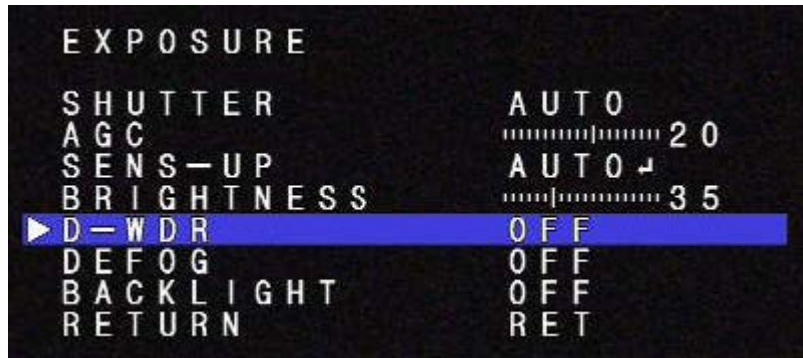
Do not increase this too much, the dynamic range for the highlight area will decrease.



D-WDR

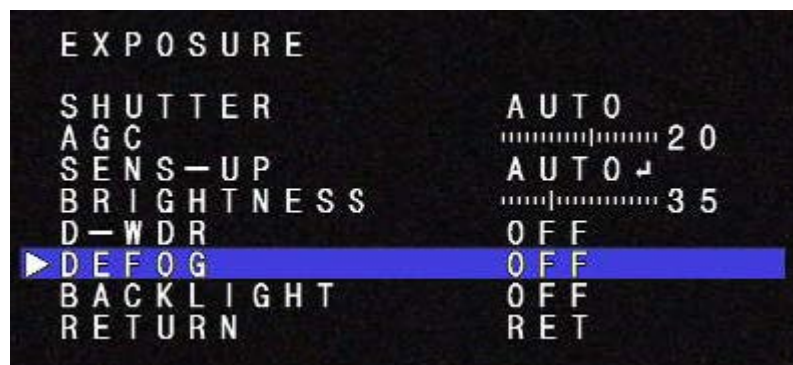
The Wide Dynamic Range feature improves the overall picture balance beyond the Backlight Compensation feature. It creates an optimal balance of brightness and color by combining images from a bright area (high shutter speed) and images from a dark area (low shutter speed).

You can select (OFF, Low, Middle, High)

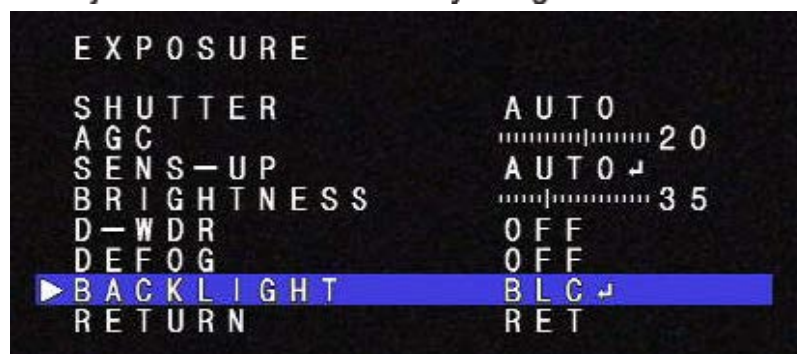
DEFOG

Enhances image in foggy weather. (The performance is very limited)

You can select (OFF, Low, Middle, High)

BACKLIGHT>>BLC

When there is a strong backlight behind the object, clear images of the background as well as the object can still be obtained by using the BLC function.

GAIN

Adjusts the amplification of the video through Low, Middle and High levels



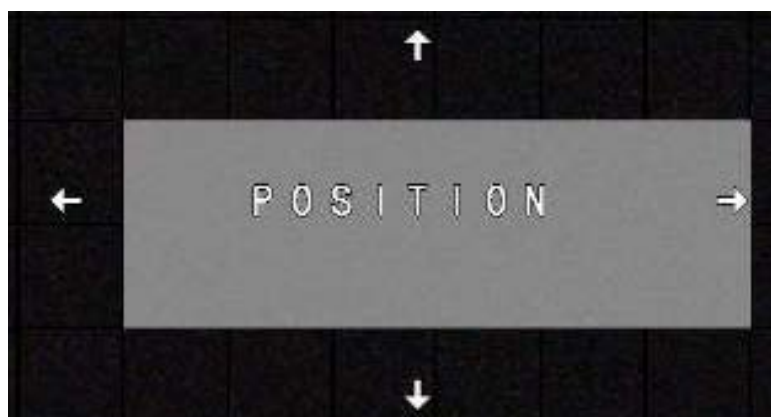
*AREA*

To adjust the Area where "BLC" is relevant.



*Position*

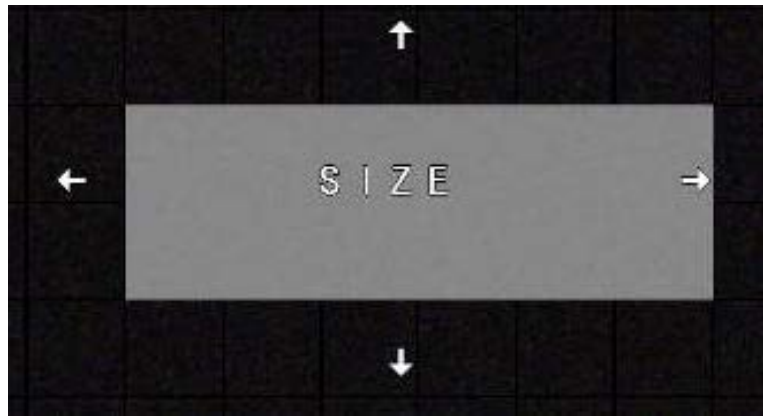
Position the shaded area by using UP/DOWN/LEFT/RIGHT arrows, then click **ENTER**



*SIZE*

Change the Size using UP/DOWN/LEFT/RIGHT arrows, then click **ENTER**

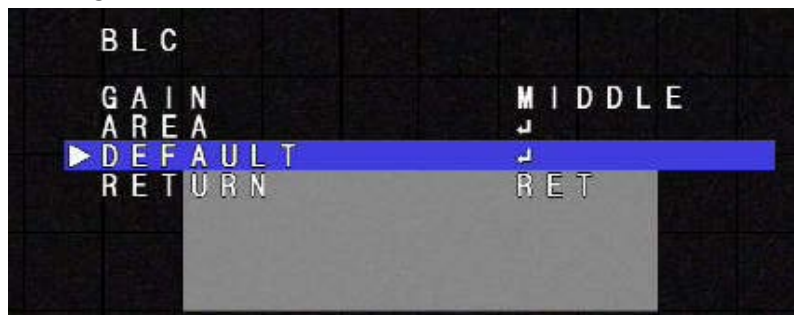




*RET*  
Return to Exposure Menu or select arrow right to AGAIN to redo area.



*DEFAULT*  
Default the settings from BLC



*Return*  
Return to the Exposure screen



BACKLIGHT >>HSBLC

This function is to prevent against the intense light from washing out the picture, such as headlights from a vehicle.



*SELECT AREA 1*

You can select area 1 thru 4 by clicking right or left button.



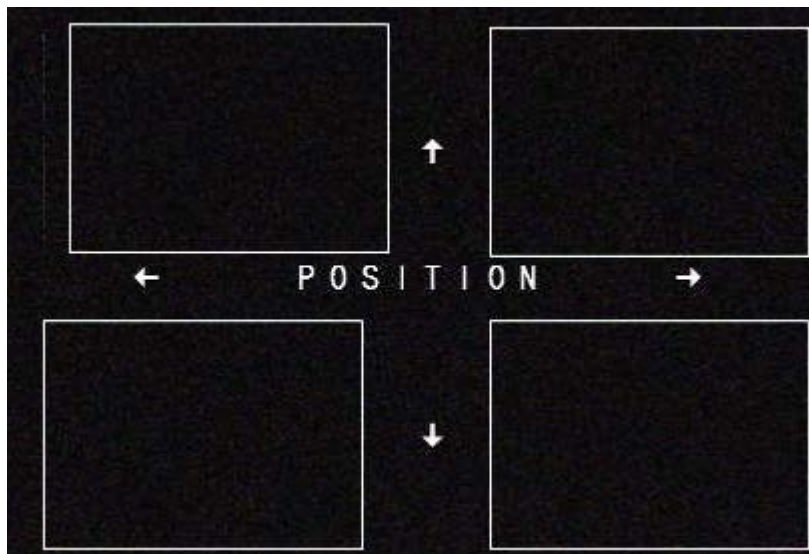
*WINDOW*

*After selecting Area, select window on*



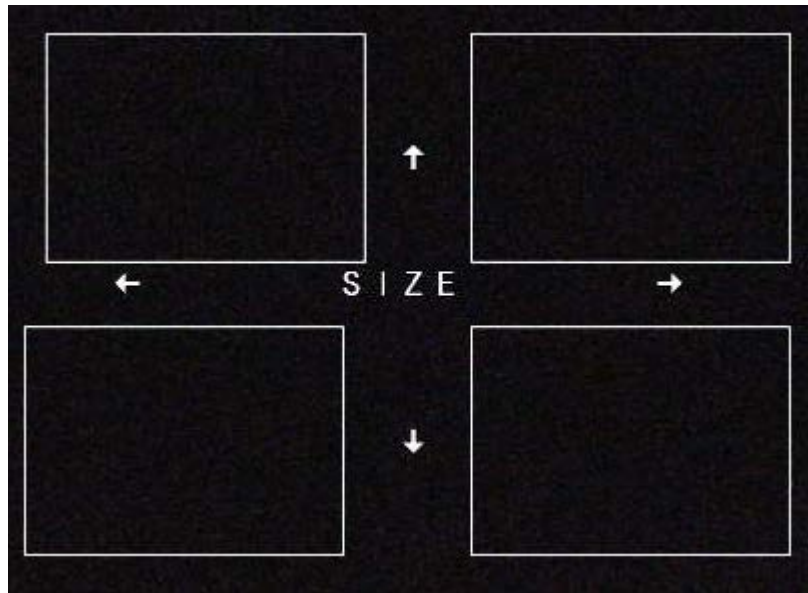
### *POSITION*

Using the UP / Down / Left / Right position the area where needed, then click ENTER



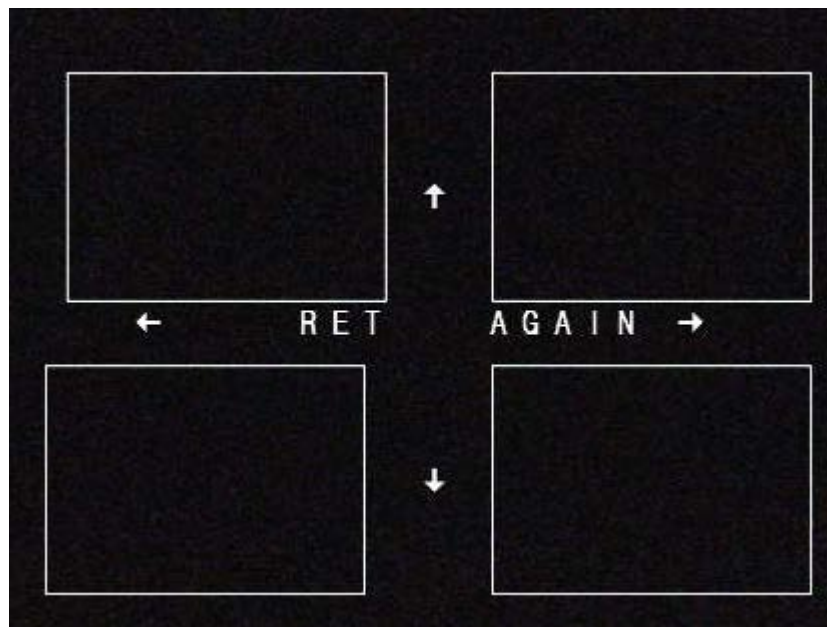
### *Size*

Using the UP / Down / Left / Right position the size needed then click ENTER



*RET*

*Return to Exposure Menu or select arrow right to AGAIN to redo area.*



*LEVEL*

*Adjust the intensity level of the highlight masking*





*Mode*

Day or Night for highlight masking



*BLACK MASK*

*Turns masking ON and OFF*



*DEFAULT*

Defaults HSBLC selection



*RETURN*

*Return to EXPOSURE screen*



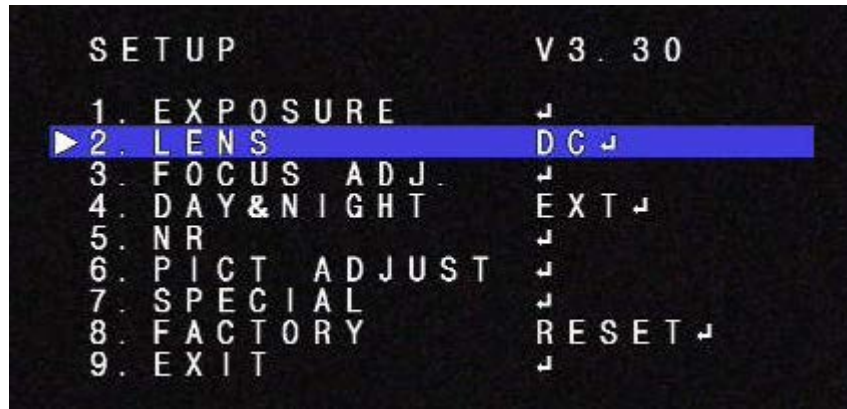
*RETURN*

*Return to SETUP screen*



LENS>>DC

This camera is equipped with an Auto Iris Lens "DC" for the automatic adjustment of lighting conditions.

**MODE**

Adjust mode to the proper application (indoor / outdoor)

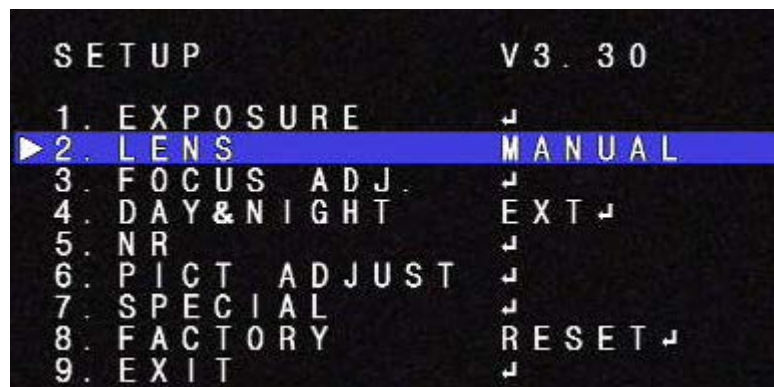
**RETURN**

Return to SETUP screen



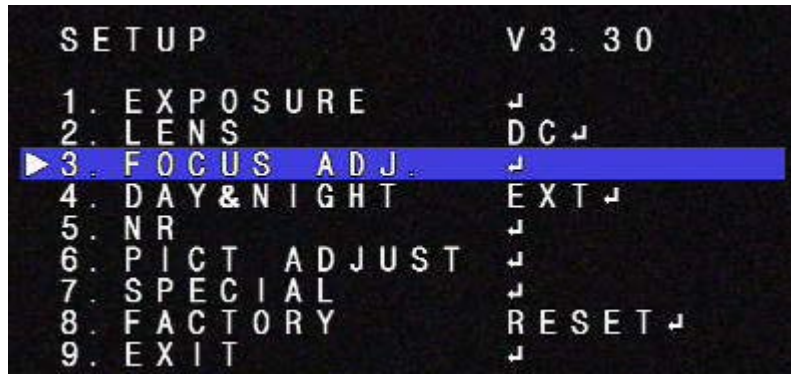
LENS>>MANUAL

FUNCTION NOT AVAILABLE

**FOCUS ADJ.**

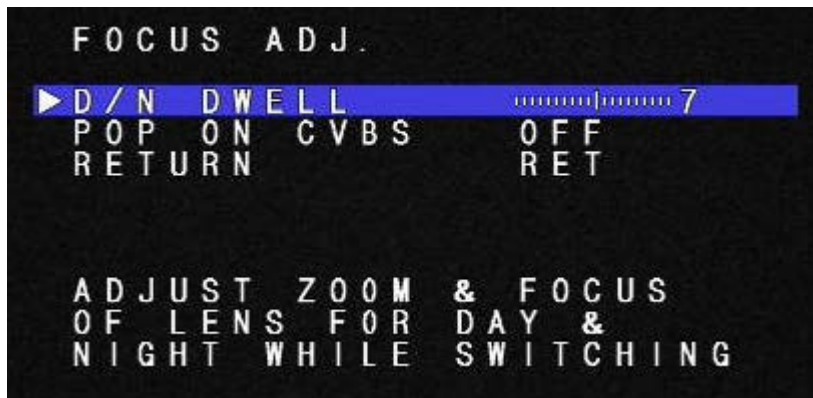
Adjusts the focus between day and night





**D/N DWELL**

Adjust the time between day and night when POP on CVBS is turned on



**POP ON CVBS**

Start sequencing between day and night images for focusing



*RETURN*

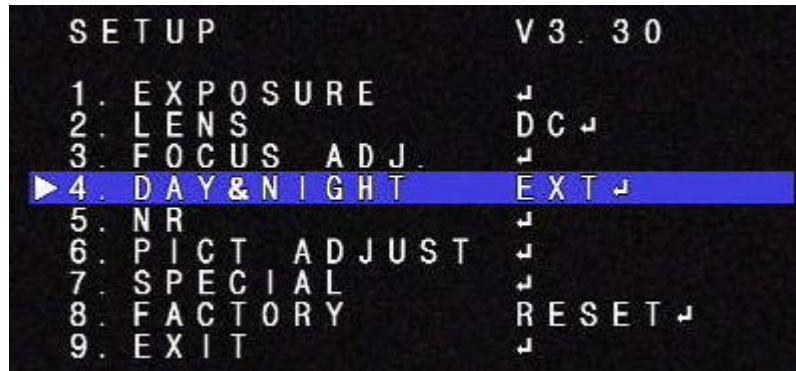
*Return to SETUP screen*



**DAY & NIGHT**

DAY&NIGHT menu can be set to AUTO, COLOR, B/W or EXT.





In AUTO, camera determines DAY or NIGHT by the incoming light level through the lens only and IR CUT FILTER switches following the DAY/NIGHT modes.

In COLOR, camera disables DAY/NIGHT feature and works as a regular color camera and IR CUT FILTER is inserted to cut out the infrared spectrum from the light.

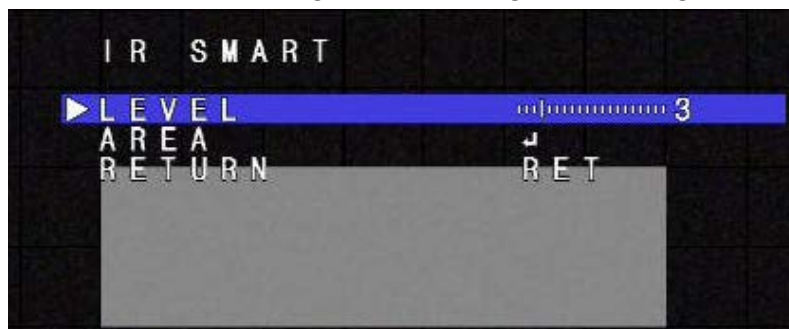
In B/W, camera disables DAY/NIGHT feature and works as a regular B/W camera and IR CUT FILTER is removed to pass the infrared spectrum from the light.

In EXT, camera follows the decision for DAY or NIGHT by the light sensor built into the camera.

**Note: A camera with IR Led's must be set to EXT.**

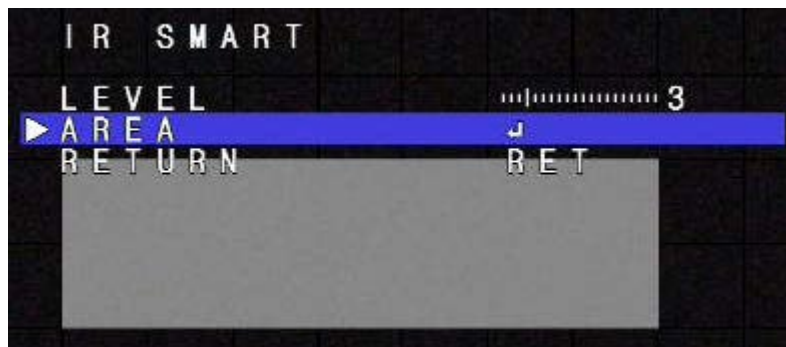
## IR SMART

Compensates the amount of IR light on an image, reflecting back to the lens.



### AREA

To adjust the Area where the IR intensity is too high.



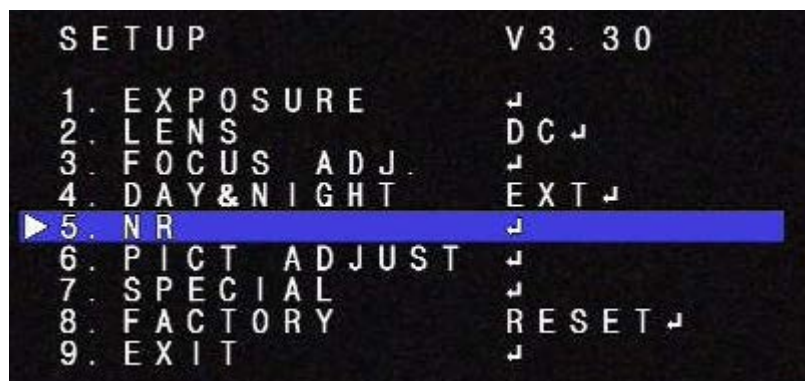
NR(Noise Reduction)

2D&3DNR are very sophisticated and powerful noise reduction technologies at low light.

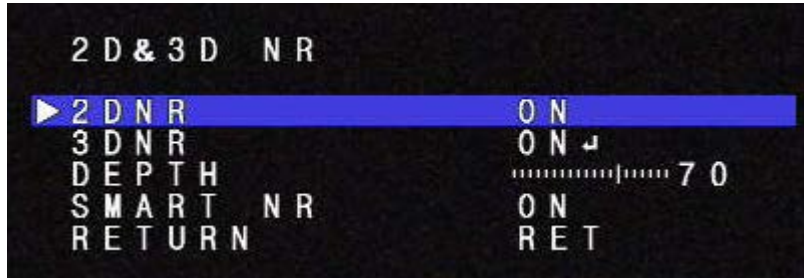
2DNR The process of removing image noise from a video signal by applying a digital comb filter

3DNR A 3D filter reduces the noise caused by movement resulting in less blur.

Too strong 3DNR reduction results in the tail effect of a comet or motion blur forma fast moving target in low light.



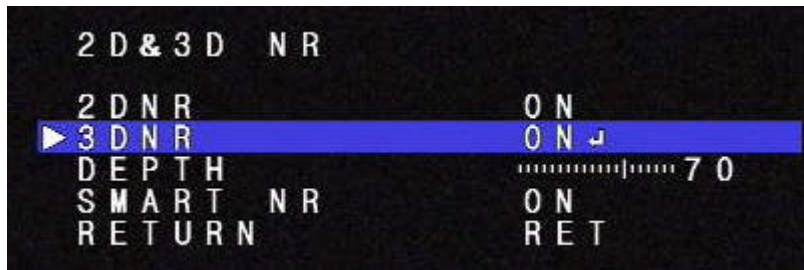
The process of removing image noise from a video signal by applying a digital comb filter



2DNR. ON reduces the noise that can be found in low light images



3DNR ON Reduces the noise caused by movement. Start / End of noise reduction with respect to light level can be set to required levels

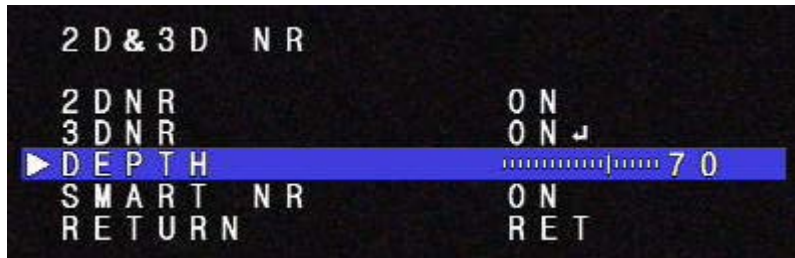


START THRES sets the point from which 3DNR levels starts when the illumination level dims. Higher setting starts 3DNR at higher light level.

END THRES sets the point from which 3DNR stops when the illumination level is higher.



DEPTH sets the strength of noise reduction for 2D&3D. A higher setting stands for stronger reduction, too high of a setting will result in loss of sharpness in 2DNR and ghosting effect in 3DNR.



SMART NR continuously monitors motion on the screen. When no motion is detected, 3DNR is automatically activated for the maximum reduction of noise at low light. 3DNR becomes immediately deactivated upon motion. This will save HDD space



PICT ADJUST (Picture Adjustment)

In PICT ADJUST menu, WHITE BAL, SHARPNESS, MONITOR, OSD COLOR, CORNER COMP and D-EFFECT can be set.



ATW - Automatic Tracking White balance

AWC - White Balance is set at a fix level and stops even though the color temperature changes.

INDOOR - White Balance is fixed at around 3100K.

OUTDOOR - White Balance is fixed at around 5100K.

MANUAL - Adjust White Balance with fixed values of BLUE and RED.



**SHARPNESS**

Increases or decreases the sharpness of the picture. Too much sharpness makes the image harsh and shows more noise and line flicker at the edge of objects in the picture.

**MONITOR**

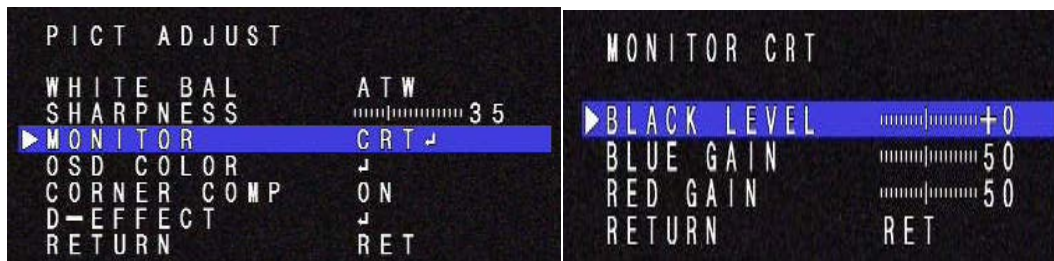
Sets LCD or CRT.



*LCD*: GAMMA, BLUE, GAIN or RED GAIN is adjustable for the best view with LCD monitor. Low GAMMA compensates for dark areas, slightly but contrast becomes low. High GAMMA increases contrast but loses the visibility of dark areas.



*CRT*: BLACK LEVEL, BLUE GAIN or RED GAIN are adjustable.

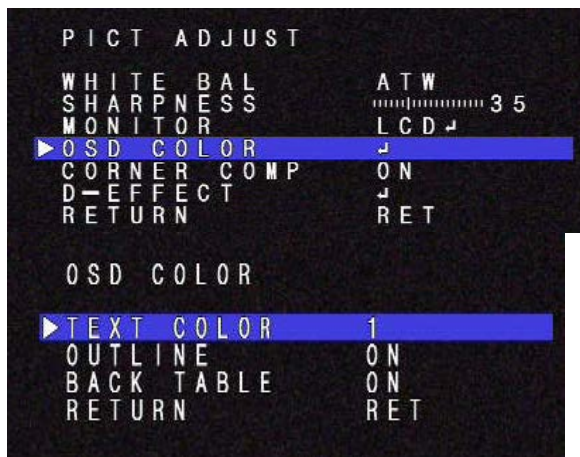


OSD

TEXT COLOR - Can be change to 1 of 8 colors. Selected color is applied to menu text and cameratitle.

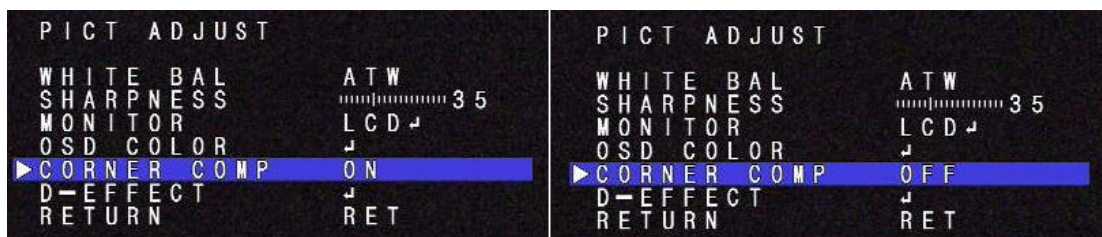
OUTLINE - Makes the letters bold

BACK TABLE - Is the color bar where the cursor is located

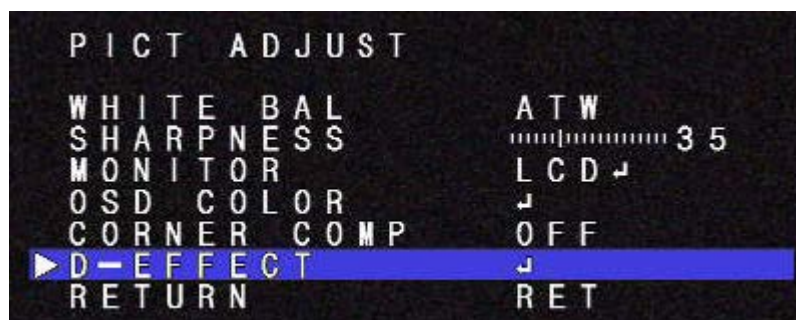


CORNER COMP

Enhances brightness of the corners caused by the lens, or the narrow angle of IR LEDs. Picture could be noisy when ON.



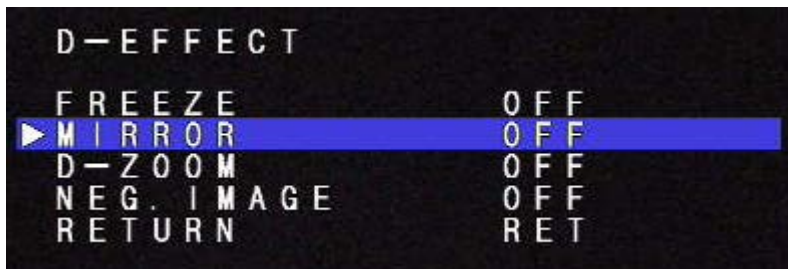
D-EFFECT



FREEZE: Freezes Image



MIRROR:OFF(normal display), MIRROR(Left & right mirrored), V-FLIP(upside down) and ROTATE(H/V-FLIP)



D-Zoom  
(Function not available)



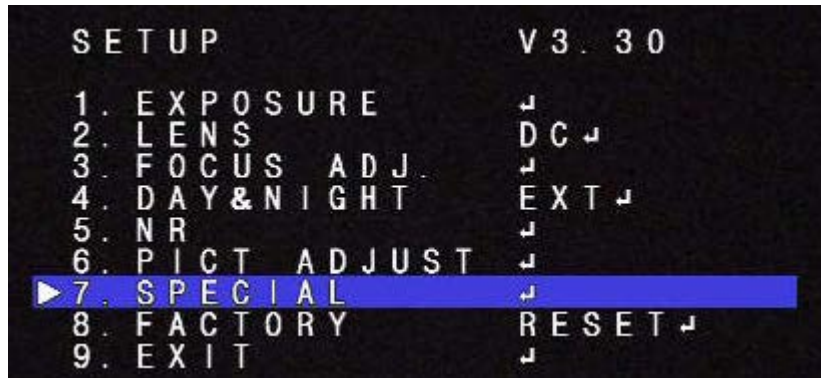
NEG.IMAGE: If set to ON,.



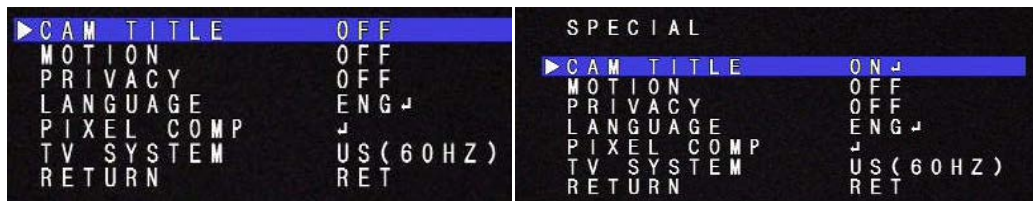
### SPECIAL

In SPECIAL menu, CAM TITLE, MOTION, PRIVACY, LANGUAGE, PIXEL COM and TV SYSTEM can be set.





*CAM TITLE: OFF / ON. When on click ENTER*



Up to 15 characters can be use on camera title line, use ▲,▼,◀,▶ to navigate around chart, when letter or character is flashing click ENTER, continue this in till completed. When done arrow over to POS (POSITION), click ENTER and position camera title to desire location, click enter to return to previous screen and arrow over to END and click ENTER.



**MOTION**

**Note USE Motion Detection Settings under Device Configuration**



PRIVACY

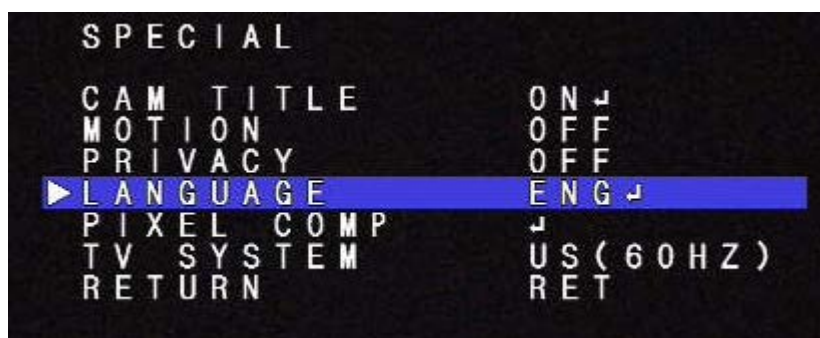


**Note USE Privacy settings under Device Configuration**



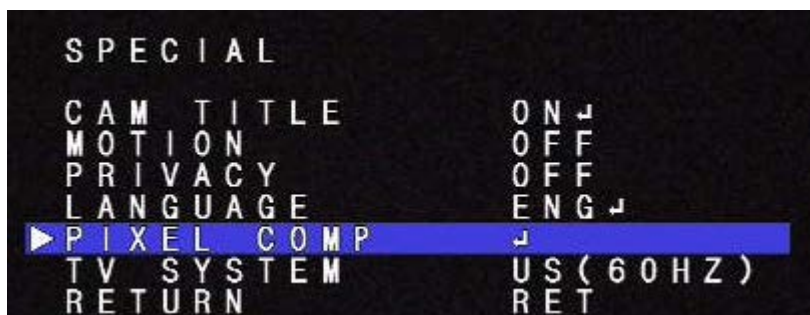
LANGUAGE

English, Japanese, Chinese 1, Chinese 2, German, French, Italian, Spanish and Polish.



PIXEL COMPENSATION

Sometimes image sensors have defective pixels, this can be compensated in two different ways LIVE DPC, compensates the defective pixels in real time and STATIC DPC, detects the defective pixels with lens closed and saves the data for compensation



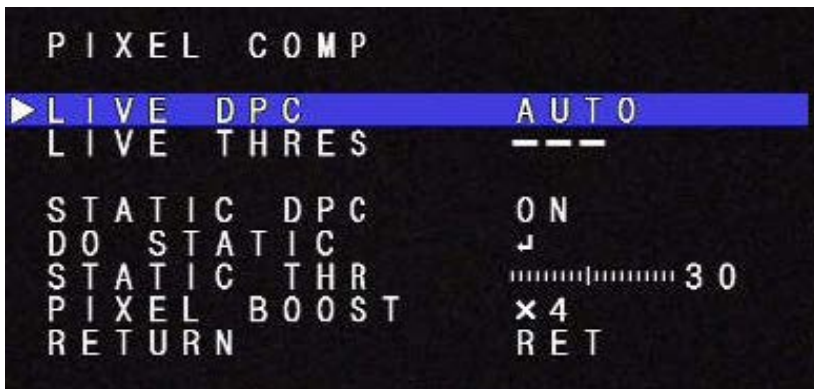
LIVE DPC compensates the defective pixels in real time where pixel amplitude exceeds the threshold.

AUTO - Enables LIVE DPC and dynamically compensates the defective pixels whose amplitude exceeds the threshold calculated according to AGC. At low light, more defective pixels are compensated because the threshold becomes lower due to high AGC.

ON - Enables LIVE DPC and compensates the defective pixels whose magnitude exceeds the threshold by set level.

OFF - Disables LIVE DPC.

**Note: High setting of LEVEL in LIVE DPC reduces the sharpness**



#### STATIC DPC

Detects the defective pixels with lens closed and saves the data for compensation

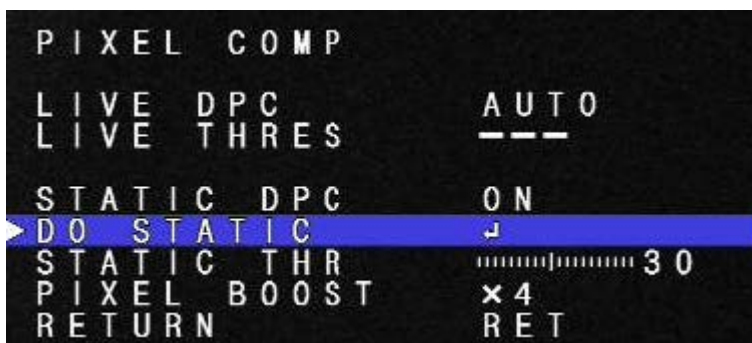
ON -Enables the compensation for the detected defective pixels.

OFF - Will not apply the compensation.



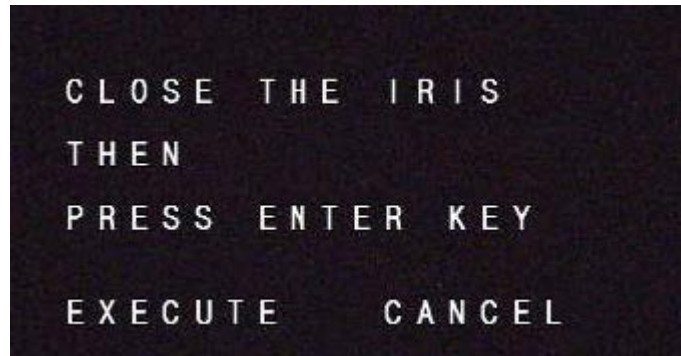
#### DO STATIC

Camera closes the lens automatically and detects the defective pixels.



**Note: Lens cap is highly recommended because the iris of some lens do not close perfectly.**

After covering the lens click ENTER then click ENTER on Execute screen



#### STATIC THR

For white dots (noise) caused by a defective pixel exceeding the levels will be compensated. The lower the setting the more pixels will be compensated up to 1024 starting from top to bottom.



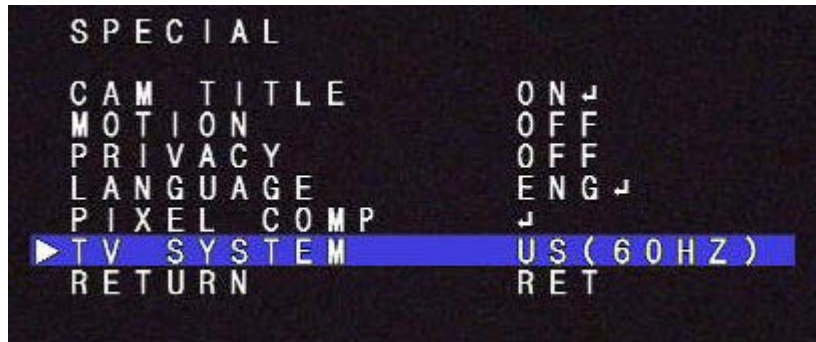
#### PIXEL BOOST

It is easier to detect defective pixels with PIXEL BOOST, but the higher the level the more noise might be detected by mistake and give a false reading.



#### TV SYSTEM

Select between US (NTSC 60Hz) or EU (PAL 50Hz)



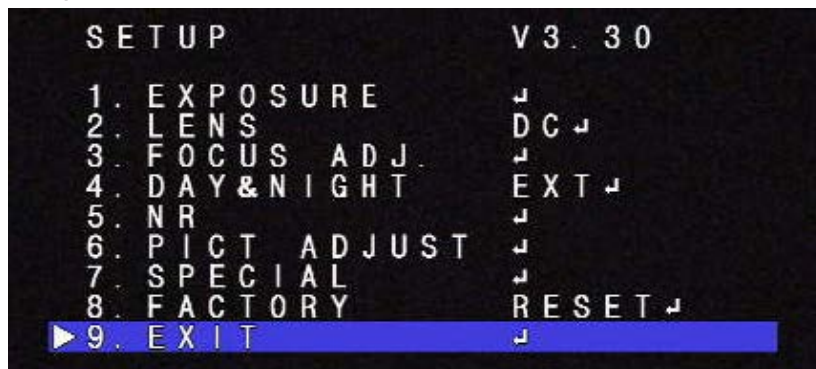
Factory

Defaults the camerasettings (Not the network settings)



EXIT

Exits the Set up menu

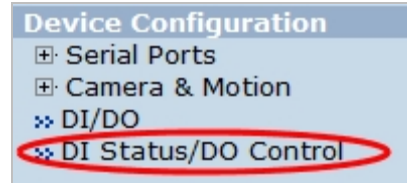
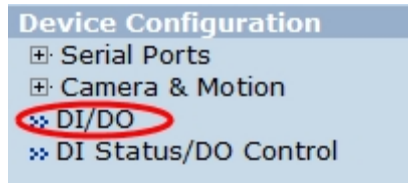


**14.5. DI (Sensor Input) / DO (Alarm Output)**

Select **DI/DO** from **Device Configuration** menu to name and configure Sensor Input and Alarm Output. After configuring, select **DI Status/DO Control** on Device Configuration menu to manually control **DO** (Alarm Output) and check status of **DI** (Sensor Input).

DI/DO Setup

DI/DO Control



DI/DO functionality can be set to either Normal Open or Normal Closed type as follows.

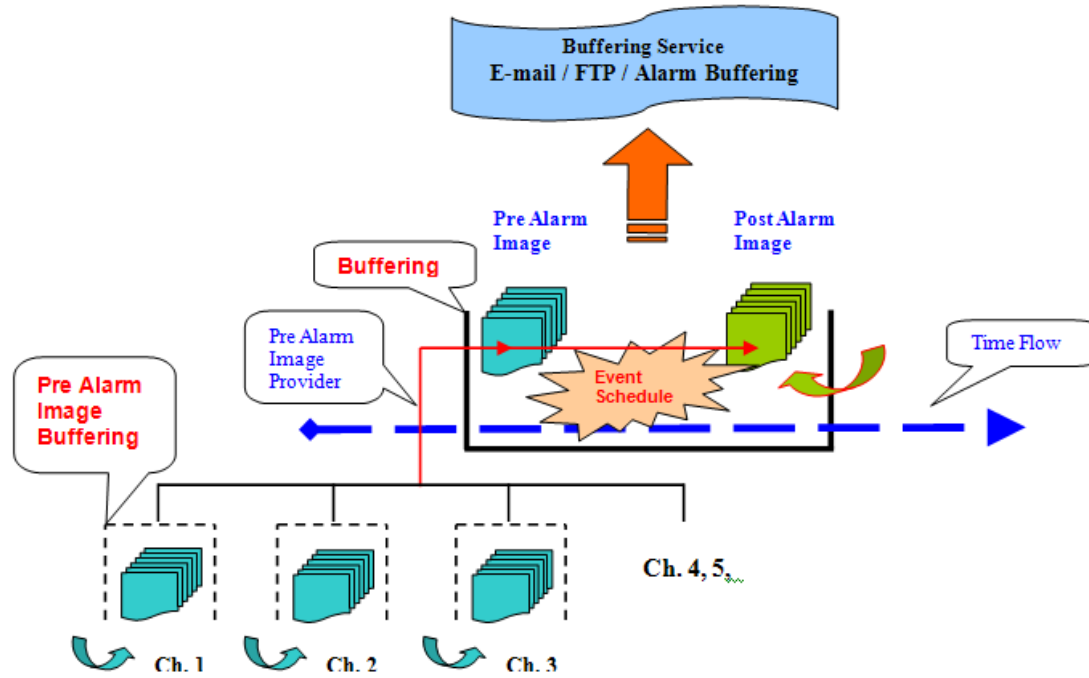
- **Normal Open Type:** Normal is **OPEN**, and goes **CLOSED** when triggered by an event.
- **Normal Close Type:** Normal is **CLOSED**, and goes **OPEN** when triggered by an event.

*Note: Make sure the type of the sensor and use it correctly to the type. If a Sensor Input is not used, it must be set to Normal Open Type to avoid a false input.*

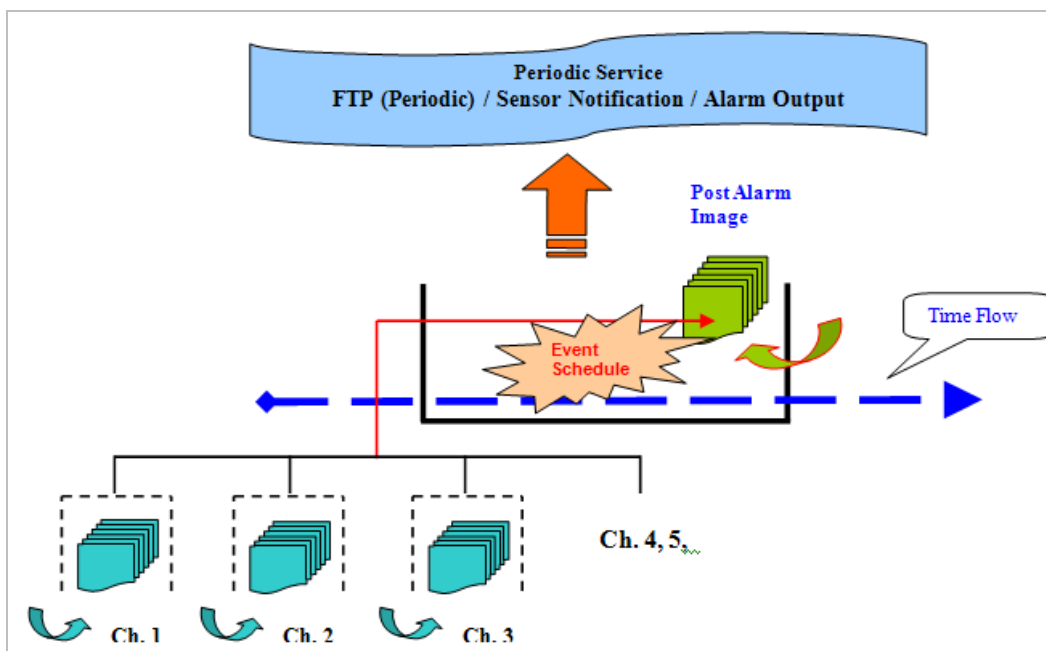


## 15. Advanced Configuration

There are two types of advanced service, one is **Buffered Service** and the other is **Periodic Service**. In Buffering Service, a series of images are continuously being stored in a buffer memory of the camera/server for a certain period of time. When the camera/server is triggered by an event or schedule, the images or alarm status just before and after the event/schedule are reported to you by email or buffered FTP services.

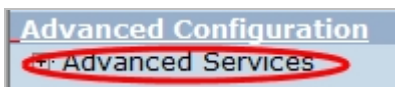


In Periodic Service, only the image, alarm/sensor status after an event/schedule is reported to you upon the server being triggered.



### 15.1. Advanced Services

Pre-Alarm buffer size and buffering speed can be defined here.



- **Pre-Alarm Buffer Size:** You can set the buffer size which will store the images before event. The unit is in frame, and each channel can be set with different values. The total number of frames for Pre-Alarm Buffer and Post-Alarm Buffer is limited to 10 frames.

Quick Configuration	<p><b>Advanced Services</b></p> <p>Total pre-alarm buffer size : <b>5600</b> kb Current used buffer size : <b>5</b> frames</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Ch 1</th> <th style="text-align: center;">Ch 2</th> <th style="text-align: center;">Sum</th> </tr> </thead> <tbody> <tr> <td>Pre-Alarm Buffer Size</td> <td style="text-align: center;">5 (frames)</td> <td style="text-align: center;">0 (frames)</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Pre-Alarm Speed</td> <td style="text-align: center;">fastest ▾</td> <td style="text-align: center;">Select Spe ▾</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"><input type="button" value="Save"/></p> <p><b>Notice :</b> Pre-alarm buffer size for each camera will be applied for E-mail, and FTP(Buffered) service. Please click to "Save" button to apply new changes.</p>		Ch 1	Ch 2	Sum	Pre-Alarm Buffer Size	5 (frames)	0 (frames)	5	Pre-Alarm Speed	fastest ▾	Select Spe ▾	
		Ch 1	Ch 2	Sum									
Pre-Alarm Buffer Size		5 (frames)	0 (frames)	5									
Pre-Alarm Speed		fastest ▾	Select Spe ▾										
System Configuration													
Network Configuration													
Device Configuration													
Advanced Configuration													
Advanced Services													
Recording Configuration													
Utilities													

- **Pre-Alarm Speed:** You can set the buffering speed. If it's set to Fastest, the server will store images as fast as it can. Each channel can be set with different values.

This configuration applies to E-mail and FTP(Buffered), and click **Save** button to apply changes.

» E-mail	Configuration of E-mail service to send pre-post alarm images.
» FTP(Buffered)	Configuration of ftp service to send pre-post alarm images.
» FTP(Periodic)	Configuration of ftp service to send recent images periodically according to service conditions.
» Sensor Notification	Configuration to notify sensor status to predefined IP address.
» Alarm Output	Configuration of alarm output duration according to service conditions.

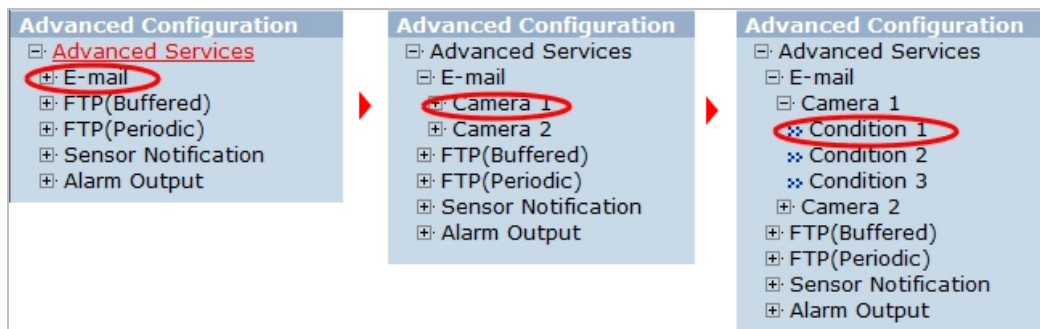
      

- **E-mail:** Set up Email Service configuration
- **FTP (Buffered):** Set up FTP (Buffered) Service configuration
- **FTP (Periodic):** Set up FTP (Periodic) Service configuration



### 15.1.1. E-mail Service Configuration

Email configuration is set up here for Alarm in case any event occurs.



**E-mail Service Configuration**

Please click the below link to configure E-mail service for each camera.

[» Camera 1](#)      [» Camera 2](#)

Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
SMTP server address	<input type="text" value="smtp.gmail.com"/>
SMTP Port	<input type="text" value="465"/> (Default:25, 0 ~ 65535)
Authentication Login	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
User ID	<input type="text" value="xxxxx@xxxxx.com"/>
Password	<input type="password" value="....."/>
Sender	<input type="text" value="xxxxx@xxxxx.com"/>
1st Recipient	<input type="text" value="xxxxx@xxxxx.com"/>
2nd Recipient	<input type="text" value="xxxxx@xxxxx.com"/>
3rd Recipient	<input type="text" value="xxxxx@xxxxx.com"/>

**Notice :** This service is valid for M-JPEG only.

Item	Description
Camera 1~2	Select a channel to be configured for email notification
Service	Select <b>Enable</b> in order to use this service
SMTP server address	Enter SMTP server's address for sending email.
Authentication Login	Select <b>Enable</b> if SMTP server requires ID and password
User ID	Enter User ID to log in to SMTP server
Password	Enter Password to log in to SMTP server
Sender	Enter email address of the sender
1st Recipient	Enter the email address of the first recipient
2nd Recipient	Enter the email address of the second recipient
3rd Recipient	Enter the email address of the third recipient

Click **Save** button to apply the change. If you don't want to change, click **Back** button.

**E-mail Service Setup for Each Channel**

For each channel, the following items can be configured for email service: Condition, Post-Alarm Buffer Size, and Post-Alarm speed. The content of text message and display style of DI value can be configured as well.

### E-mail Service Configuration at Camera 1

Please click below link to configure the service condition.

❖ Condition 1	[Not Used]
❖ Condition 2	[Not Used]
❖ Condition 3	[Not Used]

Maximum 10 pre-post alarm images can be transmitted.

Pre-Alarm Buffer Size	0 (frames)	❖ Check video buffer
Pre-Alarm Images	0	Post-Alarm Images 0
Pre-Alarm Speed	Select Speed	Post-Alarm Speed Select Speed
Subject	Message From IP Device![0,0]	

[?](#)

	Message	Value Format					
		NONE	INT	HEX	BIN	IPA	EVT
1	<input type="text"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="text"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="text"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="text"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Item	Description
Condition 1 ~ Condition 3	Select a condition for Email service to be activated.
Pre-Alarm Buffer Size	The Buffer size assigned for Pre-Alarm.
Check Video buffer	Click this link to go to Advanced Services for buffer setup.
Pre-Alarm Images	The number of image frames to store before Alarm
Post-Alarm Images	The number of image frames to store after Alarm
Pre-Alarm Speed	This field shows the speed of Pre-Alarm. Configuration can be done in Advances Services page.
Post-Alarm Speed	Select the speed of Post-Alarm. <b>Fastest</b> is the highest value.
Subject	Subject of the E-mail message to send.
1	Content of the first line in the email message.
2	Content of the second line in the email message.
3	Content of the third line in the email message.
4	Content of the fourth line in the email message
Value Format	Select the format for the Event or DI data to email. NONE: Don't Send, INT: Decimal, HEX: Hexadecimal, BIN: Binary, IPA: IP Address, EVT: Name of Event

After finishing setup, click **Save** button to apply. If you don't want to change, click **Back** button.

**Condition, Schedule & Event Configuration**

**Condition 1**

Service	E-mail			
Module ID	0			
Camera ID	1			
<input checked="" type="radio"/> <b>Enable</b> <input type="radio"/> <b>Disable</b>				
<input type="radio"/> Always <input checked="" type="radio"/> <b>Schedule Only</b> <input type="radio"/> Event Only <input type="radio"/> Schedule and Event				
<b>Schedule</b>				
Sun Mon Tue Wed Thu Fri Sat				
Week	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Time (hh:mm)	19	:	46	~ 19 : 46
<input type="checkbox"/> Date (mm/dd)	XX	/	XX	~ XX / XX
<b>Event</b>				
	1	2	3	4
Alarm Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Camera Connected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Camera Disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boot Finished	<input type="checkbox"/> Enable			
Serial Input	<input type="checkbox"/> Activated			

If you click on a **Condition** link, the **Advanced Service** windows is displayed as shown below. Alarm Service is activated only when the conditions in Advanced Services are met.

Item	Description
Service	This shows what service this condition is for.
Module ID	Module ID for current setup
Camera ID	Channel ID for current setup
Enable / Disable	Select <b>Enable</b> to use Condition, otherwise select <b>Disable</b> .
Always	This Condition applies all the time. (Schedule or Event is not usable)
Schedule Only	Use Week, Time, and Date in Condition parameter. If none of the weekdays are checked, it is activated every day.
Event Only	It is activated only when any of the following events occurs. (Sensor, Motion Detection, Camera Connection, Server Booting)

To save the setting, click **Save** button. If you want to cancel it, click **Back**.

15.1.2. FTP (Buffered) Service Configuration

### FTP(Buffered) Service Configuration

Please click the below link to configure FTP(Buffered) service for each camera.

※ Camera 1	※ Camera 2
Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Server Address	<input type="text"/>
Base Directory Name	<input type="text"/>
Base File Name	<input type="text"/>
User ID	<input type="text"/>
Password	<input type="text"/>
FTP Control Port	<input type="text"/> (Default:21, 0 ~ 65535)
Date Description Mode	American Style ▼
Connection Mode	<input checked="" type="radio"/> Active <input type="radio"/> Passive

?

Option	Directory Name	File Name
Server Name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Weekday	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Year	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Month	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Day	<input type="checkbox"/>	<input type="checkbox"/>
Hour	<input type="checkbox"/>	<input type="checkbox"/>
Minute		<input type="checkbox"/>
Sec		<input type="checkbox"/>
Sequence		<input type="checkbox"/>
Camera Number	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Back
Save
Make Directory

**Notice :**

- This service is valid for M-JPEG only.
- If the value of the FTP Control Port is 0, it will be set using by system configuration. It is usually same as port number 21.
- The following are values of Date Description Mode.  
 American Style -> Feb28th2009  
 European Style -> 28thFeb2009  
 ISO Standard -> 20090228

Item	Description
Camera 1 - Camera 2	Select which channel to set up for FTP (Buffered).
Service	Select <b>Enable</b> to use the FTP (Buffered) service. Otherwise select <b>Disable</b> .
Server Address	FTP Server Address.
Base Directory Name	The directory in FTP server where the data will be uploaded. (You should make the directory in the FTP server before using the service.)
Base File Name	The base file name of the data to be uploaded in FTP server.

User ID	Enter a User ID to log in to FTP server.
Password	Enter the Password for the user ID to log in to FTP server
FTP Control Port	Port number for FTP server (Normally 21 is used)
Date Description Mode	Select Date Display Style: American, European or ISO Standard
Connection Mode	Select connection mode for FTP server
Server Name	If <b>Directory Name</b> is checked, new directory is created with server name. If <b>File Name</b> is checked, new file is created with server name.
Weekday	If <b>Directory Name</b> is checked, new directory name is created with weekday. If <b>File Name</b> is checked, new file name is created with weekday.
Year	If <b>Directory Name</b> is checked, new directory name is created with Year. If <b>File Name</b> is checked, new file name is created with Year.
Month	If <b>Directory Name</b> is checked, new directory name is created with month. If <b>File Name</b> is checked, new file name is created with month.
Day	If <b>Directory Name</b> is checked, new directory name is created with day. If <b>File Name</b> is checked, new file name is created with day.
Hour	If <b>Directory Name</b> is checked, new directory name is created with hour. If <b>File Name</b> is checked, new file name is created with hour.
Minute	If checked, new file name is created with minute.
Sec	If checked, new file name is created with second.
Sequence	If checked, new files are created starting from 0, with increment of 1.
Camera Number	If <b>Directory Name</b> is checked, new directory is created with camera number. If <b>File Name</b> is checked, new file is created with camera number.

To create a directory with the options shown above, click **Make Directory** button. After finishing the configuration, click **Save** button to apply the change and continue to the next page. Clicking **Back** button will cancel the changes and go back to the previous page. (This service is available only in M-JPEG mode.)

**FTP (Buffered) Service Configuration at Camera 1**

**FTP(Buffered) Service Configuration at Camera 1**

Please click below link to configure the service condition.

<b>Condition 1</b>	[M1][ ]
<b>Condition 2</b>	[Not Used]
<b>Condition 3</b>	[Not Used]

Maximum 256 pre-post alarm images can be transmitted.

<b>Pre-Alarm Buffer Size</b>	5 (frames)	<b>Post-Alarm Images</b>	0 frames	<b>Post-Alarm Speed</b>	Select Speed ▾
<b>Pre-Alarm Images</b>	0 frames	<b>Post-Alarm Images</b>	0 frames	<b>Pre-Alarm Speed</b>	fastest ▾

**Notice** : If pre-alarm buffer size is not configured, pre-alarm is not served.  
Number of pre-alarm images must be less than pre-alarm buffer size.

Item	Description
Condition 1 ~ Condition 3	Select a condition for FTP (Buffered) service to be activated. Up to 3 conditions can be set.
Pre-Alarm Buffer Size	The Buffer size assigned for Pre-Alarm.
Check Video buffer	Click this link to go to Advanced Services for video buffer setup.
Pre-Alarm Images	The number of image frames to store before Alarm.
Post-Alarm Images	The number of image frames to store after Alarm.
Pre-Alarm Speed	This field shows the speed of Pre-Alarm. Configuration can be done in Advances Services page.
Post-Alarm Speed	Select the speed of Post-Alarm. <b>Fastest</b> is the highest value.

After finishing setup, click **Save** button to apply. If you don't want to change, click **Back** button.

### 15.1.3. FTP (Periodic) Service Configuration

**Advanced Configuration**

- [-] Advanced Services
  - [+] E-mail
  - [+] FTP(Buffered)
  - [+] **FTP(Periodic)**
  - [+] Sensor Notification
  - [+] Alarm Output

**FTP(Periodic) Service Configuration**

Please click the below link to configure FTP(Periodic) service for each camera.

⌘ Camera 1
⌘ Camera 2

Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
Server Address	<input type="text"/>	
Base Directory Name	<input type="text"/>	
Base File Name	<input type="text"/>	
User ID	<input type="text"/>	
Password	<input type="text"/>	
Sequence Modulo	<input type="text" value="1"/>	
FTP Control Port	<input type="text" value="0"/>	(Default:21, 0 ~ 65535)
Date Description Mode	American Style	
Connection Mode	<input checked="" type="radio"/> Active <input type="radio"/> Passive	

?

Option	Directory Name	File Name
Overwrite		<input type="checkbox"/>
Server Name	<input type="checkbox"/>	<input type="checkbox"/>
Weekday	<input type="checkbox"/>	<input type="checkbox"/>
Year	<input type="checkbox"/>	<input type="checkbox"/>
Month	<input type="checkbox"/>	<input type="checkbox"/>
Day	<input type="checkbox"/>	<input type="checkbox"/>
Hour	<input type="checkbox"/>	<input type="checkbox"/>
Minute		<input type="checkbox"/>
Sec		<input type="checkbox"/>
Sequence		<input type="checkbox"/>
Camera Number	<input type="checkbox"/>	<input type="checkbox"/>

Back Save Make Directory

- Notice :**
- This service is valid for M-JPEG only.
  - If the value of the FTP Control Port is 0, it will be set using by system configuration. It is usually same as port number 21.
  - The following are values of Date Description Mode.  
 American Style -> Feb28th2009  
 European Style -> 28thFeb2009  
 ISO Standard -> 20090228

Item	Description
Camera 1 - Camera 2	Select which channel to set up for FTP (Periodic) service
Service	Select <b>Enable</b> to use the FTP (Periodic) service. Otherwise select <b>Disable</b> .
Server Address	FTP Server Address.
Base Directory Name	The directory in FTP server where the data will be uploaded. (You should make the directory in the FTP server before using the service.)
Base File Name	The base file name of the data to be uploaded in FTP server.
User ID	Enter a User ID to log in to FTP server.
Password	Enter the Password for the user ID to log in to FTP server
Sequence Modulo	Maximum number used in sequential file name
FTP Control Port	Port number for FTP server (Normally 21 is used)
Date Description Mode	Select Date Display Style: American, European or ISO Standard
Connection Mode	Select connection mode for FTP server
Overwrite	If checked, new file overwrites the existing file with the same name.
Server Name	If <b>Directory Name</b> is checked, new directory is created with server name. If <b>File Name</b> is checked, new file is created with server name.
Weekday	If <b>Directory Name</b> is checked, new directory name is created with weekday. If <b>File Name</b> is checked, new file name is created with weekday.
Year	If <b>Directory Name</b> is checked, new directory name is created with year. If <b>File Name</b> is checked, new file name is created with year.
Month	If <b>Directory Name</b> is checked, new directory name is created with month. If <b>File Name</b> is checked, new file name is created with month.
Day	If <b>Directory Name</b> is checked, new directory name is created with day. If <b>File Name</b> is checked, new file name is created with day.
Hour	If <b>Directory Name</b> is checked, new directory name is created with hour. If <b>File Name</b> is checked, new file name is created with hour.
Minute	If checked, new file name is created with minute.
Sec	If checked, new file name is created with second.
Sequence	If checked, new files are created starting from 0, with increment of 1.
Camera Number	If <b>Directory Name</b> is checked, new directory is created with camera number. If <b>File Name</b> is checked, new file is created with camera number.

To create a directory with the options shown above, click **Make Directory** button. After finishing the configuration, click **Save** button to apply the change and continue to the next page. Clicking **Back** button will cancel the changes and go back to the previous page. (This service is available only in M-JPEG mode.)



**FTP (Periodic) Service Configuration for each channel**

**Notice :** FTP interval is the time interval between each image upload service. If you put the number, the last numeric digit will be truncated to zero. For example, if you type 154 or 17, it becomes 150msec and 10msec. If the number is lower than 10, FTP interval becomes zero and FTP service is executed without any time interval.

Item	Description
Condition 1 ~ Condition 3	Select a condition for FTP (Periodic) service to be activated. Up to 3 conditions can be set respectively.
FTP interval (msec)	Select the speed of images to send in FTP(Periodic) service

After finishing setup, click **Save** button to apply. If you don't want to change, click **Back** button.

**16. Recording Configuration for Cameras with SD card**

Some versions of VITEK IP cameras will have a microSD or a full SD Card. Those models can record and playback video from the SD card if installed. Vitek IP cameras can support cards up to a 32GB. (Only use quality class 10 SD cards)

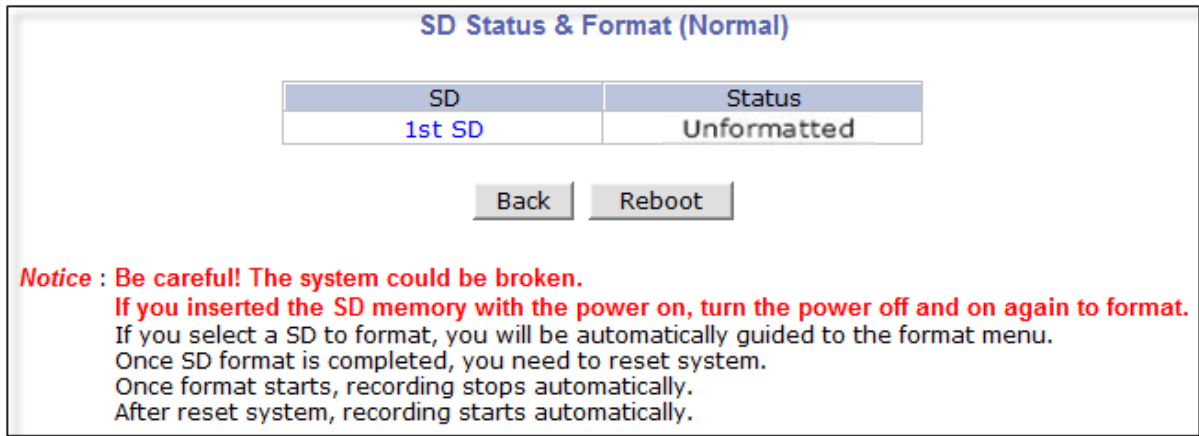
**16.1. SD/ MicroSDCard Configuration**

If a SD card is not present in the slot already, power down the VITEK IP camera before inserting an SD card. Make sure to turn the power on after inserting the SD card. Open a web browser, type in the IP address of the VITEK camera. Log in as **Admin**, Enter **Recording Configuration** menu, and then click on **SD Configuration** then click on **SD Information**, the card's format information will be displayed

If entire SD information is showing "-NONE-" this means SD card is not formatted, in this case click

*Note: Be sure to turn off the device before installing a SD card. Otherwise, the SD card may become defective. Always check the recommended type of SD card because non-conforming SD cards can cause abnormal behavior of the system.*

back button followed by clicking SD Status & Format

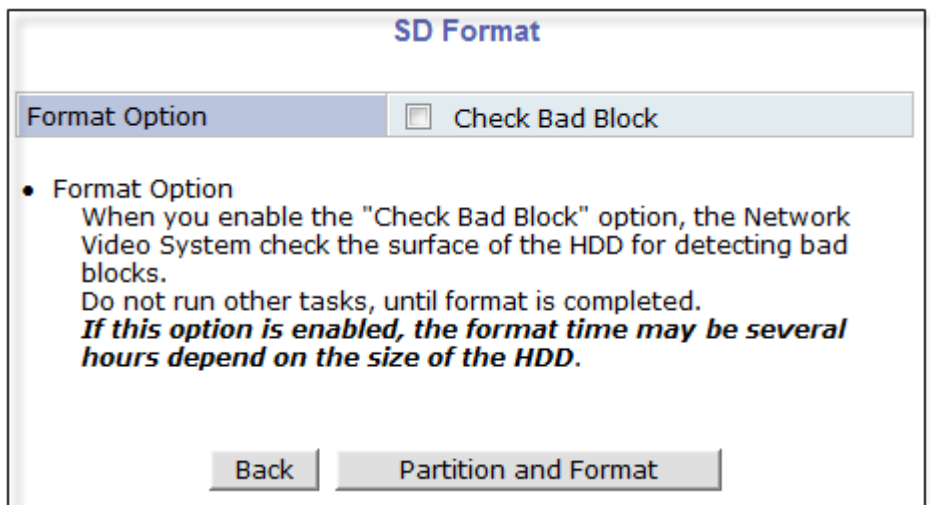


SD	Status
1st SD	Unformatted

Back Reboot

**Notice :** Be careful! The system could be broken.  
If you inserted the SD memory with the power on, turn the power off and on again to format.  
If you select a SD to format, you will be automatically guided to the format menu.  
Once SD format is completed, you need to reset system.  
Once format starts, recording stops automatically.  
After reset system, recording starts automatically.

Click on "1<sup>st</sup> SD" and the following screen will be displayed



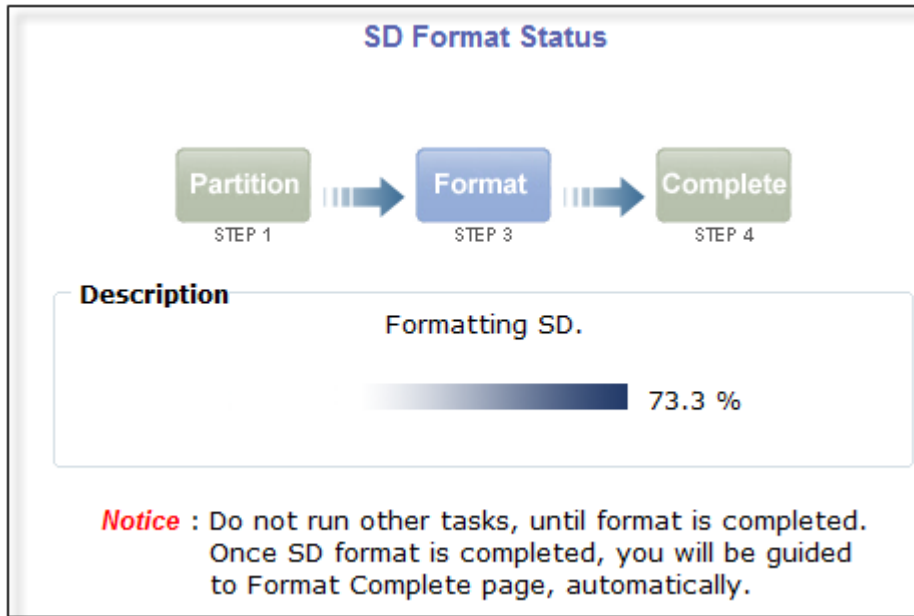
SD Format

Format Option  Check Bad Block

- Format Option  
When you enable the "Check Bad Block" option, the Network Video System check the surface of the HDD for detecting bad blocks.  
Do not run other tasks, until format is completed.  
**If this option is enabled, the format time may be several hours depend on the size of the HDD.**

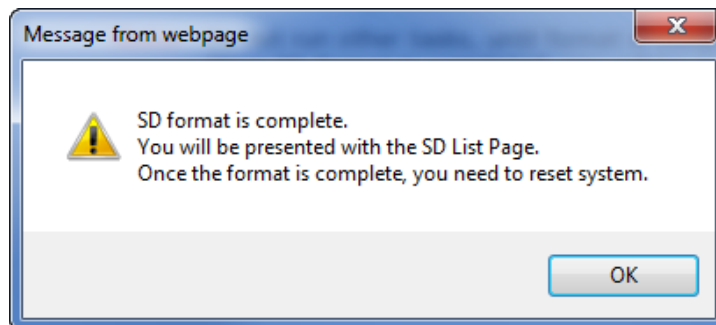
Back Partition and Format

Read format option on screen and then click **Partition and Formata** pop up screen will display asking if you want to do a "Partition and formatting" click OK to continue or Cancel to stop. After clicking OK the following screen will be displayed

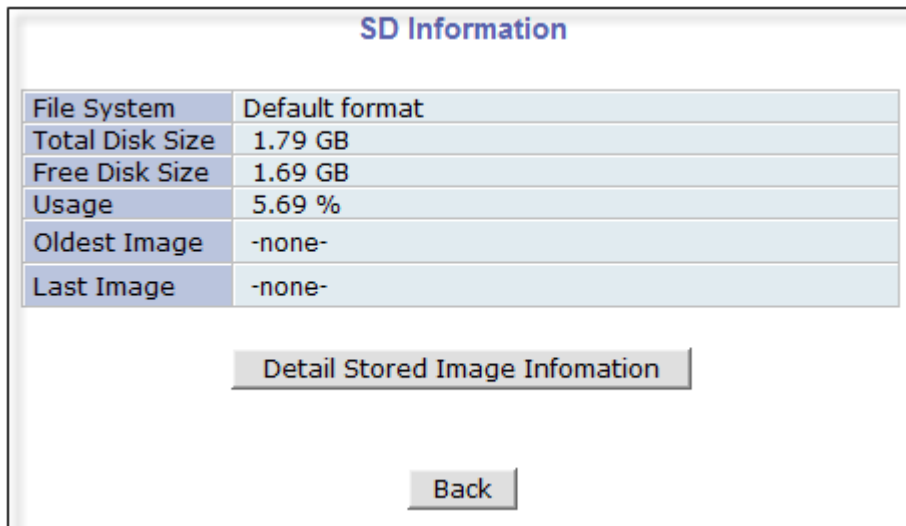


Note: if program is terminated during the "Format" process SD Card might be damaged

After formatting is completed the following screen will be displayed



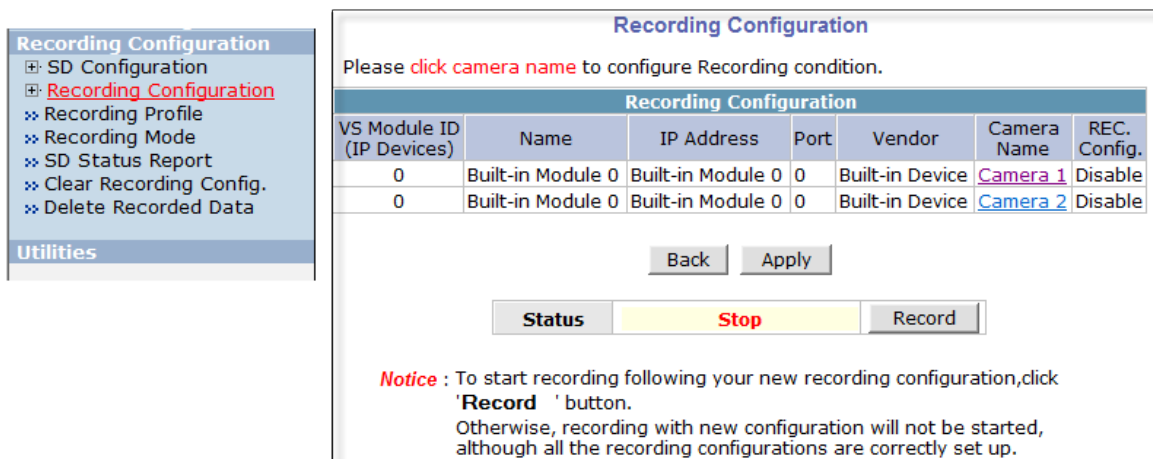
Click OK and you will be brought back to the "**SD Status & Format screen**" click on "Reboot" wait approximately 30 seconds and log back into the **Admin** screen. Open up "**Recording Configuration**" menu and click on "**SD Configuration**" then click on "**SD Information**" and the following screen will be displayed showing SD card info



### 16.2. Recording Configuration with SD card

Each camera has 2 streams (referred as Camera 1 / Camera 2 (see image below)) which can be configured for recording options in this section. Configuration items include motion detection recording, 24-hour continuous recording, event-driven recording, etc.

You can find out the list of streams (camera 1 / camera 2) with recording capability by clicking **Recording Configuration on the left side of your screen**. For example, you will see 2streams (camera 1 / camera 2) from the list of **VS Module ID (IP Devices)**.



Below is an example of configuring the motion detection-triggered recording. It starts by clicking **Recording Configuration** and clicking on [Camera1](#), the following screen will be display.

### Recording Configuration (VS Module ID 0, Camera 1)

※ Display current recording configurations  
Please click below link for the recording configuration.

※ Condition 1 [Not Used]  
 ※ Condition 2 [Not Used]  
 ※ Condition 3 [Not Used]  
 ※ Condition 4 [Not Used]

	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

	1	2	3	4		1	2	3	4
Alarm Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Camera Connected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Camera Disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Input Data	<input type="checkbox"/>								

■ Always   
 ■ Schedule   
 ■ Schedule and Event

Recording Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable		
Server Module ID	0	Camera Number	1
Camera Name	Camera 1		
Pre-Alarm Images	0	Post-Alarm Images	0
Pre-Alarm Speed	fastest	Post-Alarm Speed	fastest

**Notice :** It is recommended using MJPEG compression to use Pre-Alarm and Post Alarm service. If MPEG4 or H.264 video compression is selected, only I Frame will be recorded.

Select Condition 1 and the following window will be display.

### Condition 1

Service	Recording
Module ID	0
Camera ID	1

Enable   
  Disable

Select Mode

Always  
 Schedule Only  
 Event Only  
 Schedule and Event

#### Schedule

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Week	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time (hh:mm)	<input type="checkbox"/> XX : XX ~ XX : XX						
Date (mm/dd)	<input type="checkbox"/> XX / XX ~ XX / XX						

#### Event

	1	2	3	4
Alarm Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Input Data	<input type="checkbox"/>			
Camera Connected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Camera Disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Notice :** Motion Detection can be set at  
 Device Configuration -> Camera & Motion -> Motion Detection

Alarm Sensor can be set at  
 Device Configuration -> DI/DO

Enable / Disable

By clicking on **Enable** you will be able to select your mode (Always, Schedule only etc). in this example we will be selecting "**Event Only**".

<b>Enable</b> <input checked="" type="radio"/>	<b>Disable</b> <input type="radio"/>
Select Mode	
<input type="radio"/>	Always
<input type="radio"/>	Schedule Only
<input checked="" type="radio"/>	Event Only
<input type="radio"/>	Schedule and Event

### Schedule

Under **Schedule** you can select time and date for motion recording if left blank motion recording will be 24hrs, 7 days a week. In this example we will be leaving it blank (24/7).

Schedule							
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Week	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Time (hh:mm)	XX : XX ~ XX : XX						
<input type="checkbox"/> Date (mm/dd)	XX / XX ~ XX / XX						

### Event

Under **Event** click *Motion Detection* (stream 1 / stream 2). Click on Save to finish.

Event				
	1	2	3	4
Alarm Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Input Data	<input type="checkbox"/>			
Camera Connected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Camera Disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

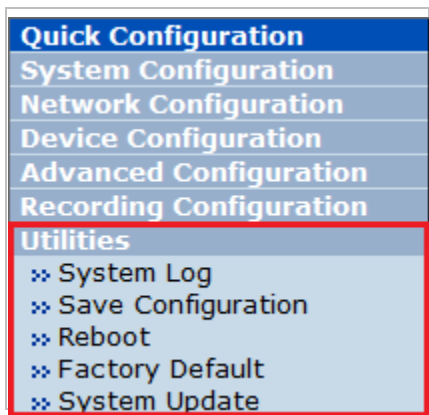
**Notice :** Motion Detection can be set at  
Device Configuration -> Camera & Motion -> Camera

Alarm Sensor can be set at  
Device Configuration -> DI/DO

## 17. Utilities

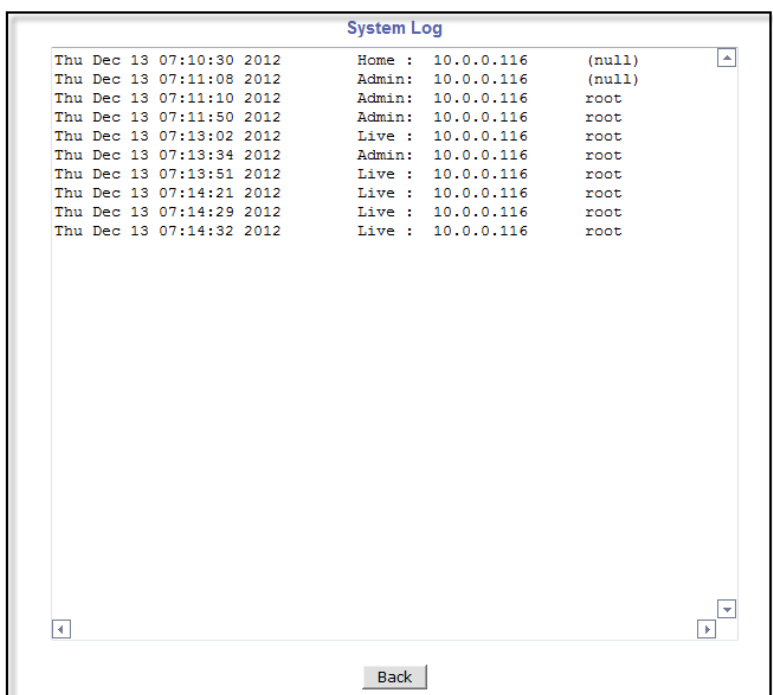
In **Utilities** part of the Admin menu, you can view the **System Log** file, **Save Configuration**, **Reboot**, **FactoryDefault** and **System Update**.





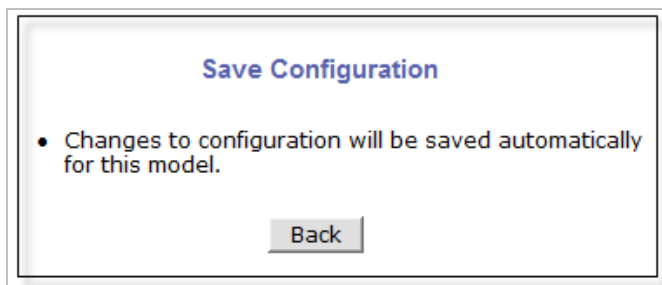
### 17.1. System Log

System log file provides you the information about when and who access' the contents of VITEKCameras such as HTTP file or CGI programs. In each line, log data consists of date, time, category, IP address, user ID.



### 17.2. Save Configuration

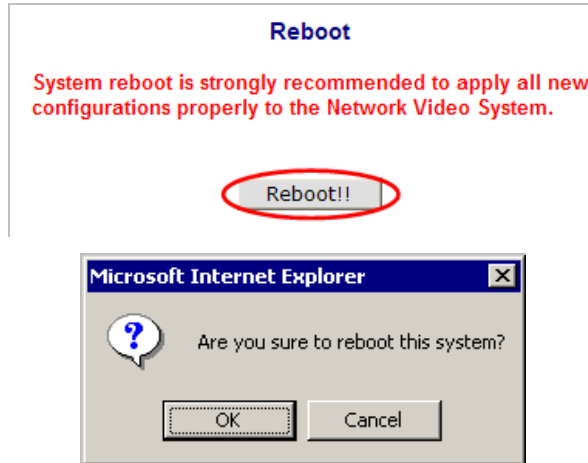
VITEK cameras save the configurations after every step.



### 17.3. Reboot

It is recommended to reboot the system after making changes to the configuration. To reboot, click **Reboot** on Utilities menu. A screen will display to confirm a system reboot, click ok to continue.

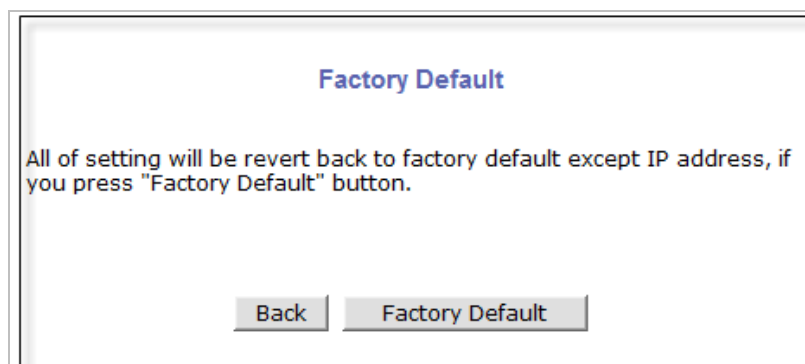
Windows Internet Explorer will ask to close the webpage, click Yes.

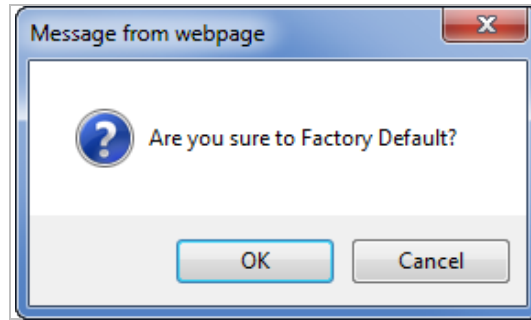


### 17.4. Factory Default

When required to restore the configuration of a Camera to factory default conditions, Network configuration is not affected by this action.

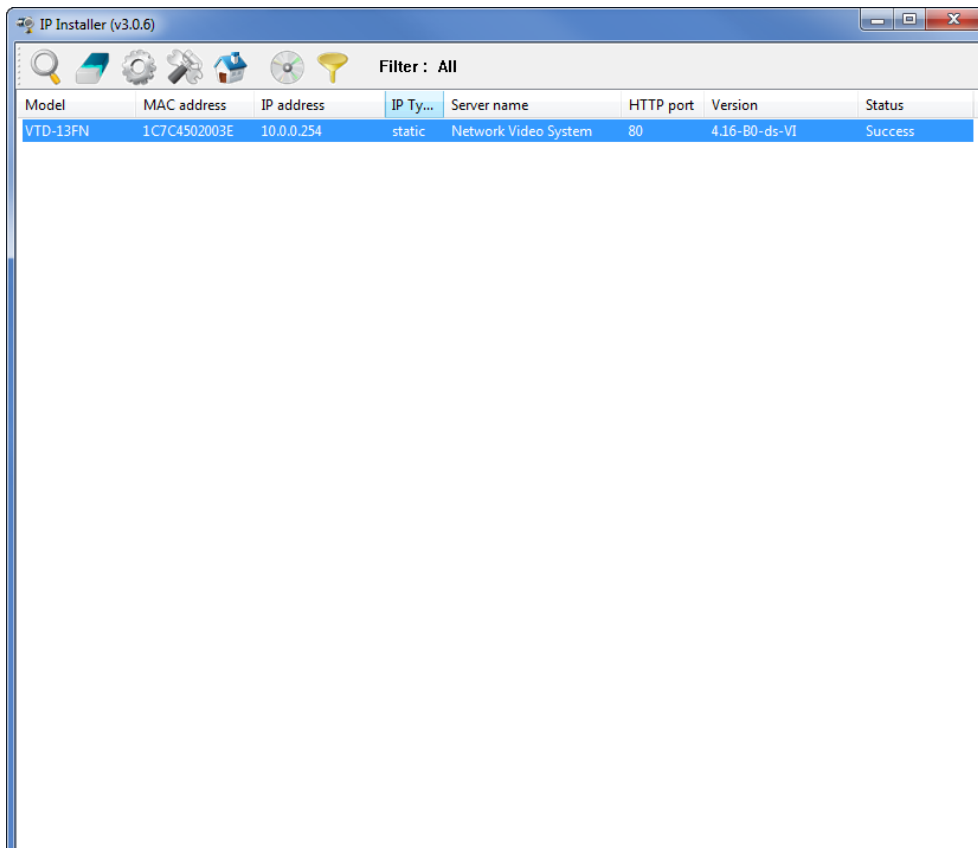
Click **Factory Default** on Utilities menu. A confirmation screen will be displayed as shown. Click **Factory Default** button, otherwise click **Back** button to cancel it. The second confirmation screen will appear. Click **OK** button to restore the factory default condition right away. If you click **Cancel**, web browser will go back to the previous screen without any change made.



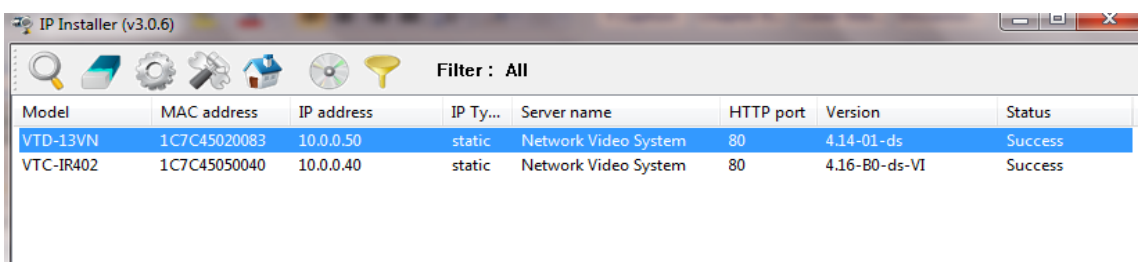


## 17.5. System Update

**\*\* Is Highly Recommended to Use the IP Installer Program for This Process \*\***



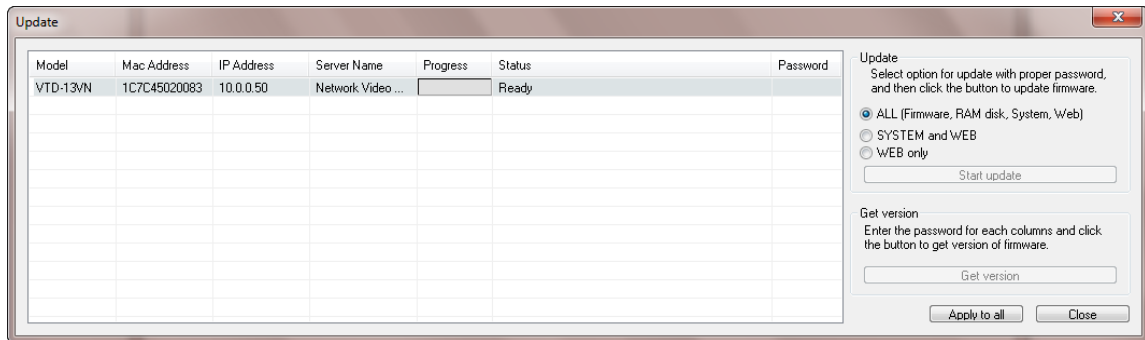
Once IP devices are searched and shown on the screen as functioning successfully, you can update the firmware of them using the "IP Installer" program. To do that, first check the firmware version of the device, which you can find on the IP Installer window.





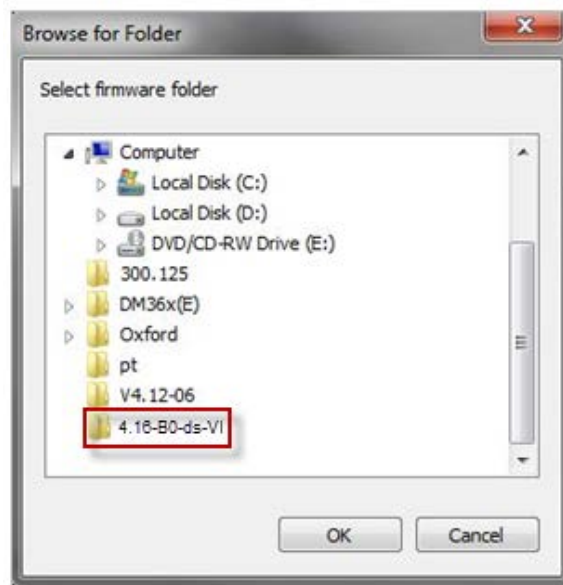
In the above picture, the firmware version of this product is 4.14-01-ds while the latest firmware version available is 4.16-B0-ds-VI as you can see at Vitek's homepage (<http://www.vitekctv.com/Downloads.asp>). If you decide to update the firmware, first create a folder on your computer for the update firmware, than download the latest firmware to that folder.

Then select the IP device to be updated on IP Installer window, then click **Update Firmware** button from the toolbar. The following window will be displayed.

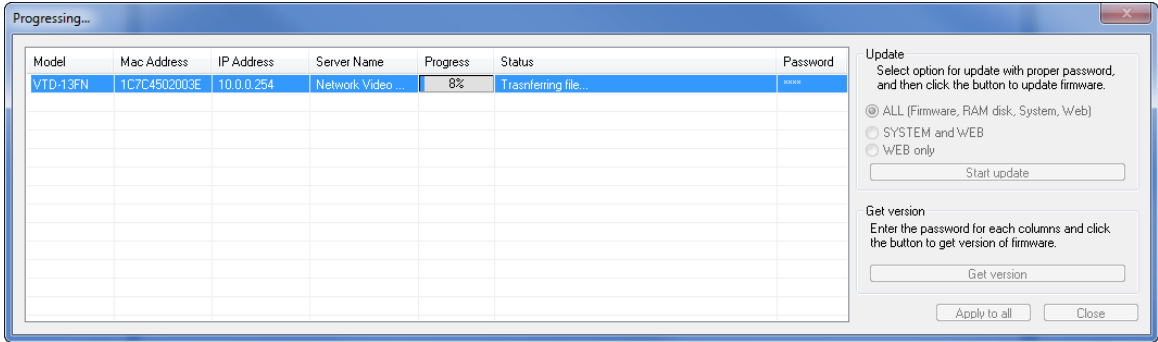


You may find the **Password** field is empty on the window shown above. If so, click the Password field of the IP device and enter the proper password for the device. You are not allowed to update the firmware if the correct password is not provided.

After the password is entered, the **Start Update** button will be enabled now. Click the button to see the following window for selecting the folder where the file has been saved. Highlight the folder than clickOK.



After clicking OK the following window will be displayed.



**Note:** Do not CLOSE window until completed, to avoid permanent damage to the camera.

## 18. ENVI Series Viewer

### 18.1. Introduction

ENVI Series Viewer is an ActiveX program for Internet Explorer web browser, which enable users to control video and audiofunctions of network video devices over the TCP/IP network. ENVI Series Viewer works with EN-V-R network video software, Vitek Network Video Servers, Network Video Recorders, and Network Cameras to show real-time live video images and enables users to control audio, Relay Output, and PTZ functions. (Supported cameras)

### 18.2. Key Features

- Displays live video streams transmitted from Vitek Cameras / Servers
- Plays audio transmitted from VitekCameras / Servers (supported cameras)
- Transmits audio from PC with ENVI Series Viewer to VitekCamera / Servers
- Stores live video screen as image files
- Stores live video streams as video files
- Controls Relay Output of VitekCameras / Servers (supported cameras)
- PTZ Controls (supported cameras)
- Supports the group mode to see specific channels (for Network Video Recorders only)
- Displays live videos in full screen mode
- Supports Flexible Extra System

### 18.3. System Requirement for PC

For best quality and performance, your computer needs to meet the minimum requirement as below.

- OS: Microsoft Windows XP Pro, Windows 7
- CPU: Intel Pentium 4, 2 GHz (Dual-Core or faster is recommended)
- System RAM: 2GB
- Video Card: 256MB Ram, 1024x768 Resolution
- 100 Mbps Network Adaptor

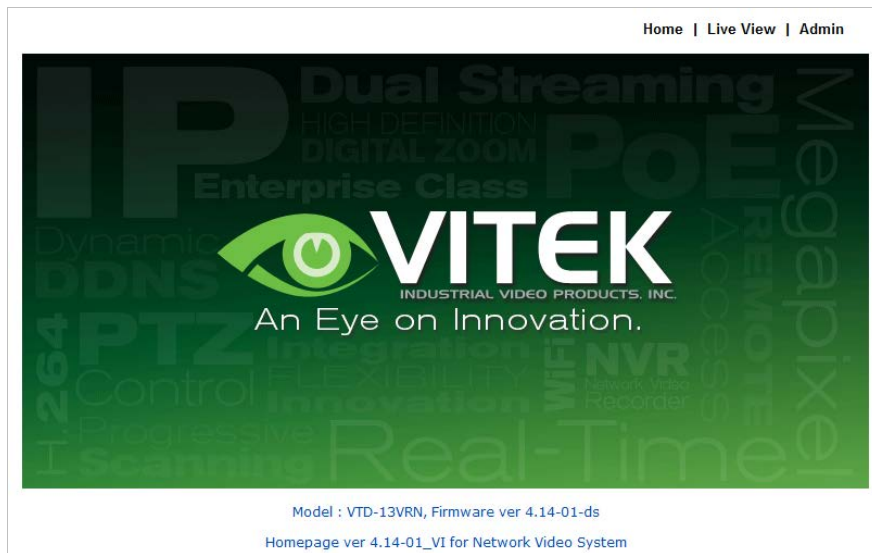
## 19. Installing and Uninstalling

### 19.1. Installing ENVI Series Viewer

Connect to the Vitek Camera/Server using Internet Explorer, and click Live View on the main page. Then ENVI Series Viewer will be automatically downloaded and installed. If an Internet connection is not available, it's possible to manually install the program file in advance (from supplied CD) and connect to the Vitek Camera / Server later.

#### 19.1.1. Installing on Web Browser

Click 'Live View' after access to Vitek® Server on Internet Explorer.

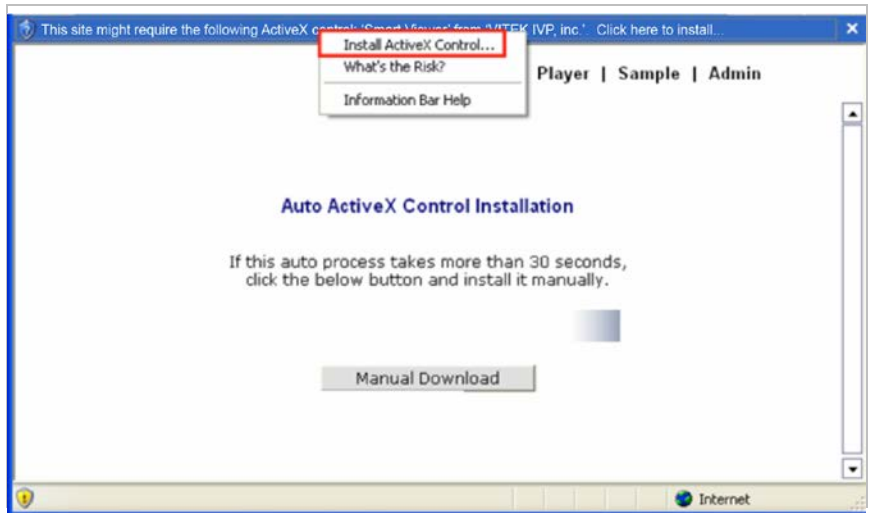


If you're using Windows XP Service Pack 2 or later, the Information message will show up as seen below. Click the Information message.

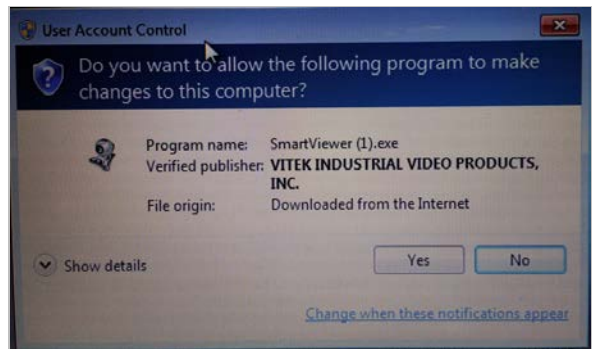


If the Information message doesn't come up due to the problems like network failure, you can start the manual installation as shown in the next section.





Click the **Install ActiveX Control**, and the pop-up window will be displayed as above. Click the **Install** button.



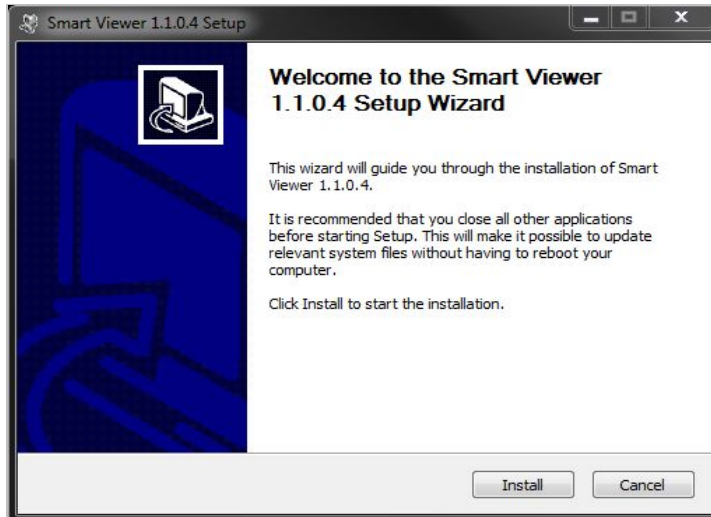
Click **“YES”** to allow program to run.

After the installation is successfully completed, ENVI Series Viewer window will be displayed.

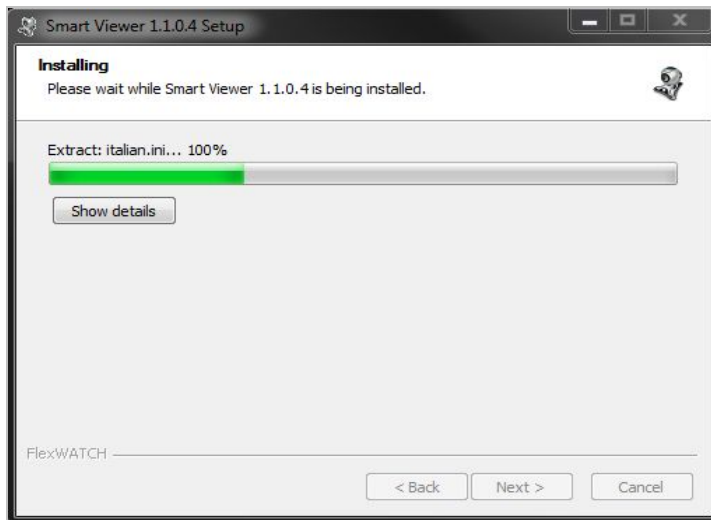


### 19.1.2. Manual Installation

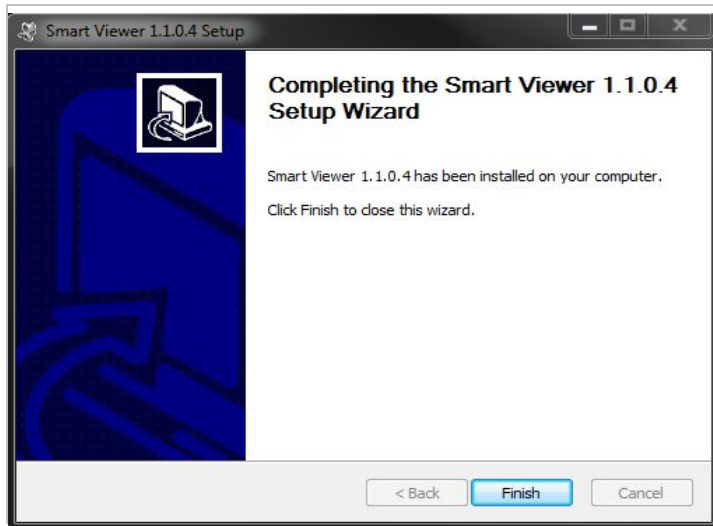
When an Internet connection is not available or having some difficulties, you can manually install from the supplied CD using ENVI Series Viewer program file. Execute the downloaded file, and you will see the ENVI Series Viewer Setup Wizard window as shown below. Click the **Install** button to start installing.



The following window will be displayed during the installation.



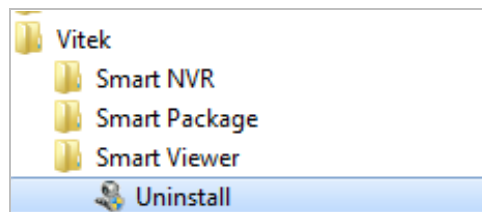
After installation is successfully completed, the following window will be displayed. Click the **Finish** button.



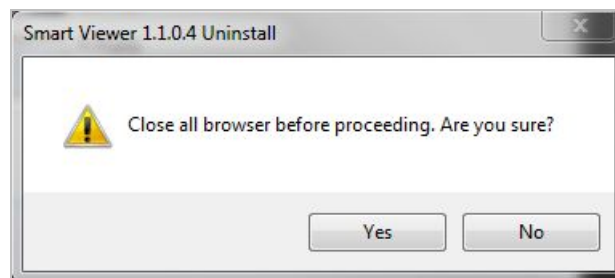
## 19.2. Uninstalling ENVI Series Viewer

There are two ways to uninstall ENVI Series Viewer program from your computer. Before uninstalling, close all the Internet Explorer windows.

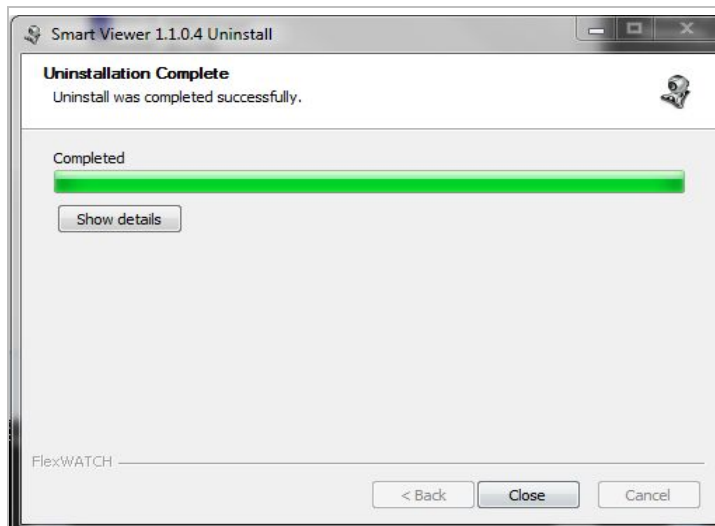
### 19.2.1. Uninstalling with Program Menu



Click **Uninstall** and the following window will be shown. Click the **Yes** button.

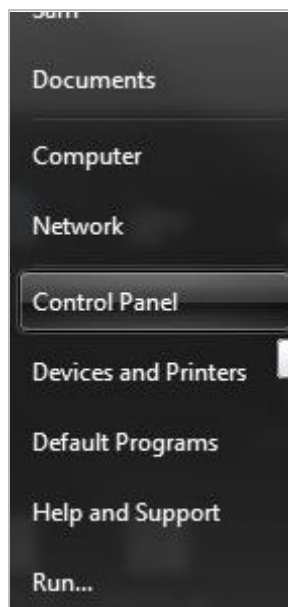


If the uninstall is successful, the following window will be displayed. Click **CLOSE** to finish.

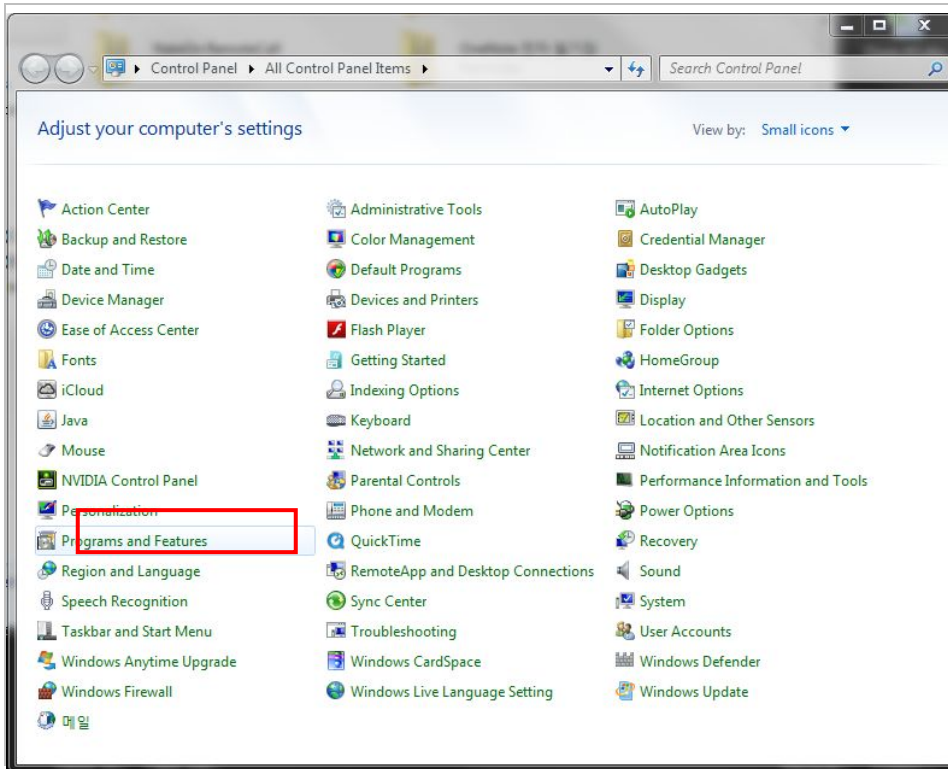


### 19.2.2. Uninstalling on Control Panel

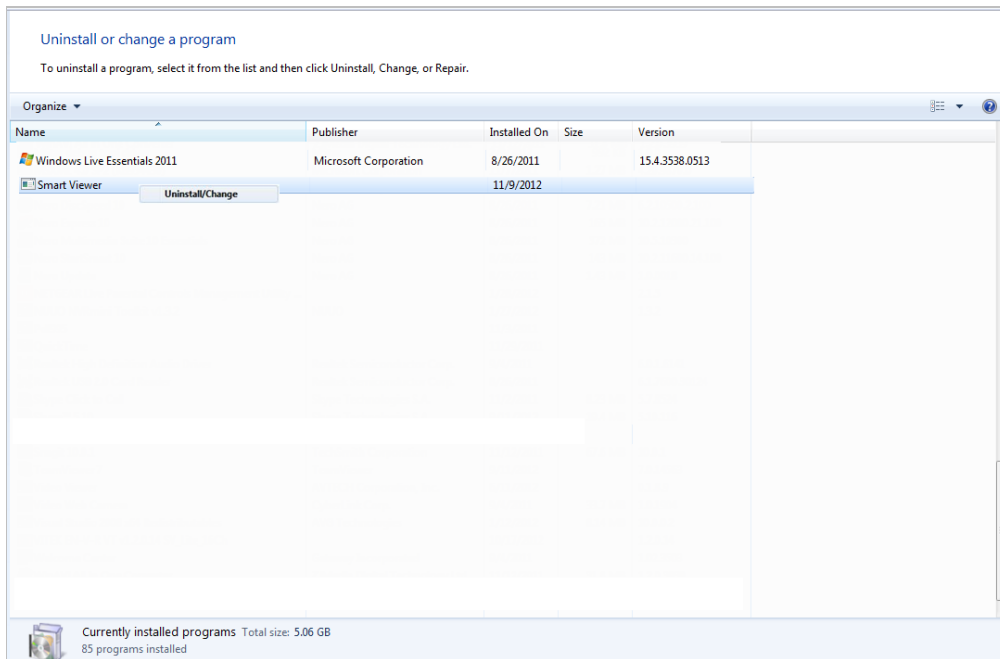
Click **Start** button on the screen, then select the **Control Panel**.



In the Control Panel window, double-click the **Add or Remove Programs** icon.



You will see the **Currently installed programs** list. Click **ENVI Series / (Smart Viewer)** button,



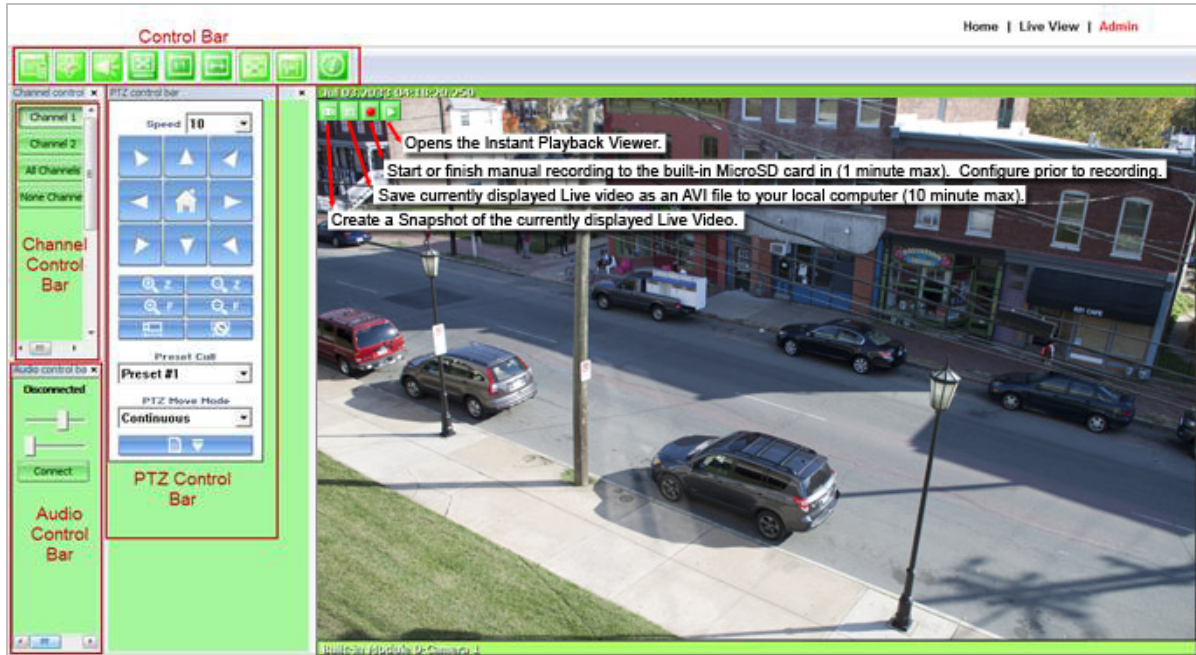
You will see the **Uninstall or change a program** list. Click **ENVI Series / (Smart Viewer)** button, and then right click **Uninstall /Change** button. Then, it will start uninstalling the program.

## 20. Starting ENVI Series Viewer

Once ENVI Series Viewer is installed in your computer, you can start it by connecting to the Vitek Camera / Server using Internet Explorer and select **Live View** on the main menu.

The appearance of ENVI Series Viewer window varies depending on what type of Vitek Server is connected (Network Video Server, Network Camera, or Network Video Recorder).

- ENVI Series Viewer window for Network Video Server or Network Camera



### 20.1. Control Bar



Displays and hides Channel control bar



System Information Display



Displays and hides PTZ control bar



Displays and hides Audio control bar



Display image by aspect ratio



Displays image normal screen



Display Enhancer on/off (uses more CPU)





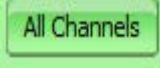

Display Full / Normal screen



Displays image in original size

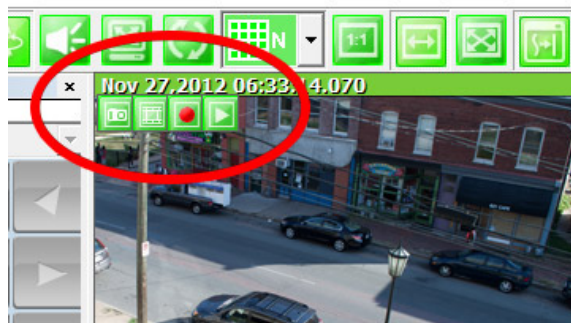


20.2. Channel Control Bar

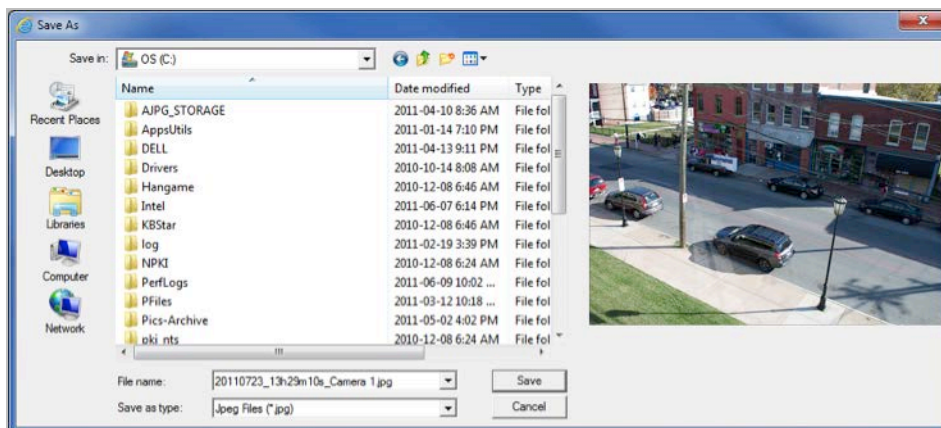
	Displays or hides live view video from channel 1
	Displays or hides live view video from channel 2
	Displays or hides live view video from ALL channels
	No Display

20.3. OSD Channels Buttons

20.3.1. Saving as Image File



In ENVI Series Viewer, Live video currently displayed can be captured and saved as an image file either in JPEG or BMP format. Select the live view video you want saved, and click **Snapshot** button on **OSD Channel Buttons**. The following window will be displayed.



In this dialog box, you see the captured image to be saved. Enter the folder and file name, and click the **Save** button, then the image will be saved with the name you entered.

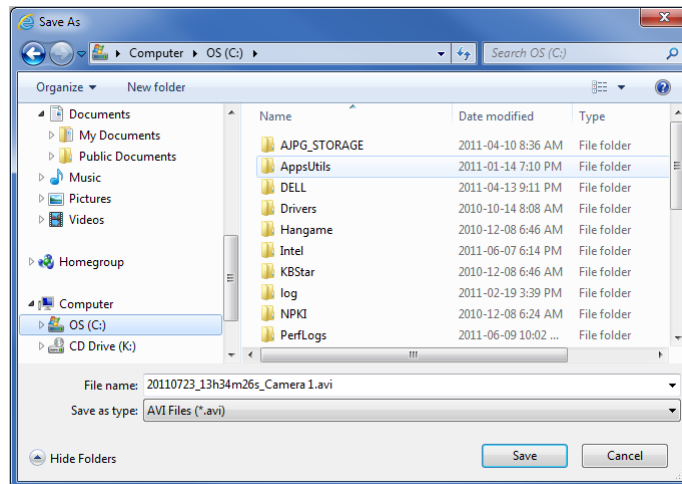
*Note: If live view video is in MJPEG format, the image will be saved as a JPEG file. If the video is in MPEG-4 or H.264 format, it will be saved in BMP format.*



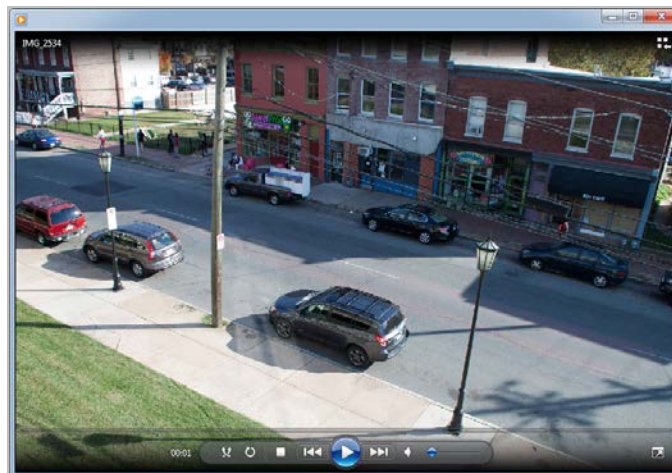


### 20.3.2. Saving as Video File

In ENVI Series Viewer, Live video currently displayed can be captured and recorded as a video file in AVI format. Select a live view you want to save, and click **RecAvi** button on **OSD ChannelButtons**. Clicking it again will stop recording. Max duration is 10 minutes and recording will be stopped after 10 min if left un-clicked.



In video files recorded from M-JPEG format video, the time information file will be generated in SMI subtitle format, which puts time stamp every second. When you play back the recorded video, the time stamp will be displayed as a subtitle on the video screen as shown in the picture below. (Upper left)



*Note: When you play back videos recorded from MPEG-4 or H.264, proper CODEC's may be required.*

### 20.3.3. Manual Recording



To manual record from networkcameras with built-in local storage (SD Card), live video can be

## ENVI Series: VTC-IR40-N

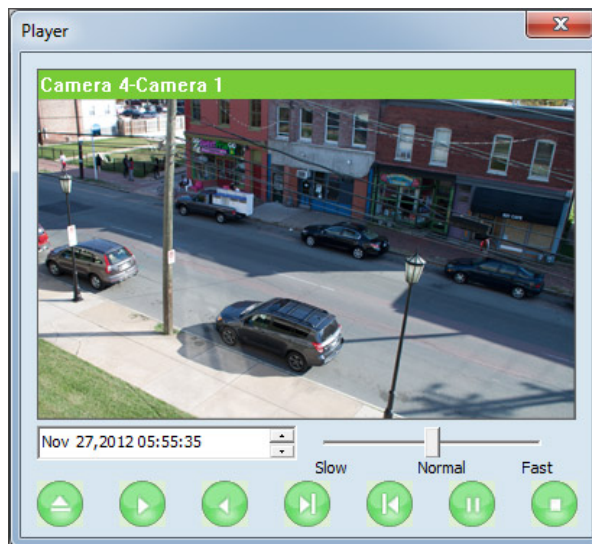
recorded to the SD Card by clicking this button. The recorded video can be viewed by **Instant Playback** feature of OSD Channel Buttons or by running ENVI Series Player program. To finish, click the icon again. *Max duration is 1 minute* and recording will be stopped after 1 minute.



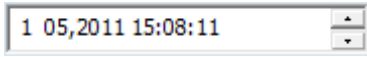
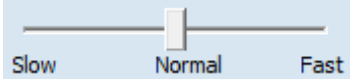







### 20.3.4. Instant Playback



For network cameras with local storage (SD Card), Instant Playback is supported. Clicking the Instant Playback button from the OSD menu will open the window below.

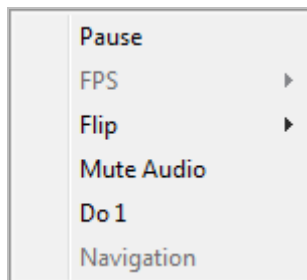


Instant playback will scan the video data up to 1 min before it was executed. And scanned data will be played automatically

	Set the beginning of video data. Instant playback will scan 1 min after this.
	Se the playback speed.
	Begin searching data
	Playback
	Reverse playback.
	1 frame playback
	1 frame reverse playback
	Pause
	Stop

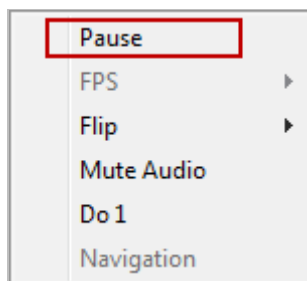
#### 20.4. Extended Features

When you click the right mouse button on the Live View Window, a pop-up menu will appear for extended features as shown below.



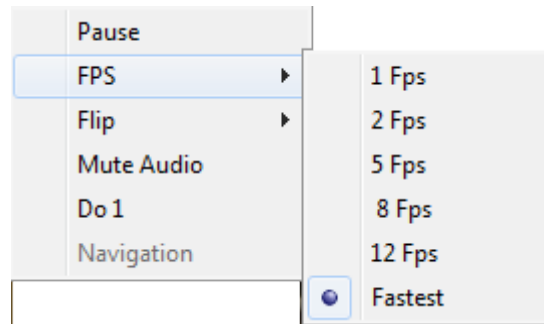
##### 20.4.1. Pausing Live Video

Click the **Pause** button to stop and resume live view video.



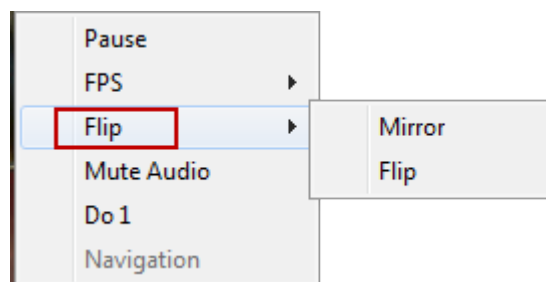
##### 20.4.2. FPS Control

FPS (Frame per Second) can be controlled only in MJPEG mode. In MPEG4 and H.264 video mode, FPS control is not supported.



### 20.4.3. Flip Control

Flip Control: The horizontal view of the image can be changed using the (mirror) function. The vertical view of the image can be changed using the (flip) function.

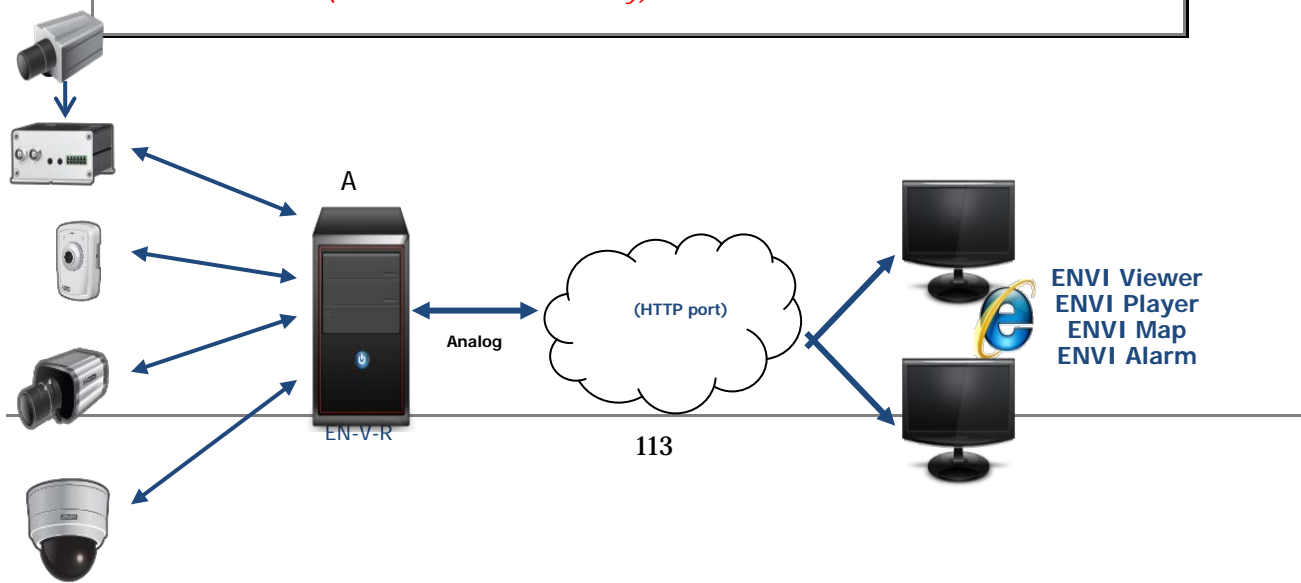


## 21. EN-V-R: Introduction

This User's manual explains how to set up EN-V-R software in your PC. EN-V-R is the integrated system software for video security applications, which runs on Microsoft's Windows-based computers. Some of major features of EN-V-R are listed below.

- Provides main features of Liveview, Playback, Record, Backup
- Event, motion, scheduled recording & conditional playback
- Motion-JPEG, MPEG-4, H.264 stream supported
- Supports various vendors' IP devices (Multi Vendor Version only) for recording and retransmission of video, voice, and data
- Supports Megapixel cameras (up to 3M pixels)
- Users can connect to EN-V-R via web browsers to access live video, Audio, and data, and search for video to play back
- Up to 128 channels supported for cameras

*Note: A product-key is required for proper installation of EN-V-R program. You can still install EN-V-R in 10-working day trial mode if a product-key is not entered during installation. (Multivendor software only)*



## 22. Requirements for Installation

### 22.1. EN-V-R Versions

EN-V-R is supplied to customers in different versions for each appropriate application. Users will need to choose the right versions for their needs.

Version Types	Register Channels	Time Restriction	Recording Channels	Retransmission Streams	Support Other vendors	Max Recoding Capacity
Evaluation	128	10 days	128	256	Yes	160 TB
Free	16	N/A	16	64	No	160 TB
Multivendor	9	N/A	9	36	Yes	160 TB
	16	N/A	16	64	Yes	160 TB
	32	N/A	32	128	Yes	160 TB
	64	N/A	64	256	Yes	160 TB
	128	N/A	128	512	Yes	160 TB

### 22.2. System Requirement for PC

For best quality and performance, your computer needs to meet the minimum requirement as below.

- Microsoft Windows XP Pro, Windows 7 Pro or higher, Video Card(256MB Ram, 1024x768 or higher)

Compression	# of Channels	Resolution	Recommended CPU	Memory
H.264	16 Channels	D1	Intel Core2Duo T5200	1.0GB
		720P	Intel Core2Duo E7550	1.5GB
		1080P	Intel Core i-5-2500S	2.0GB
	32 channels	D1	Intel Core2Duo E6700	1.0GB
		720P	Intel Core i-5 750	2.0GB
		1080P	Intel Core i-7 970	4.0GB
	64 channels	D1	Intel Core i-5 661	1.5GB
		720P	Intel Xeon X5660	4.0GB
		1080P	Intel Xeon X5680 Dual CPU	4.0GB
	128 channels	D1	Intel Xeon X5507 Dual CPU	4.0GB
		720P	Intel Xeon X5670 Dual CPU	6.0GB
		1080P	Intel Xeon E7-4850 Dual CPU	6.0GB
Motion-JPEG	16 Channels	D1	Intel Core2Duo E6700	1.0GB

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		720P	Intel Core i-5 460M	1.5GB
		1080P	Intel Core i-5 -2500	3.0GB
	32 channels	D1	Intel Core i-5 661	1.5GB
		720P	Intel Core i-5 -2400S	2.0GB
		1080P	Intel Xeon X5590 Dual CPU	4.0GB
	64 channels	D1	Intel Core i-5 -2500	3.0GB
		720P	Intel Xeon X5550 Dual CPU	4.0GB
		1080P	Intel Xeon E7-4850 Dual CPU	6.0GB
	128 channels	D1	Intel Xeon X5687 Dual CPU	4.0GB
		720P	Intel Xeon X5690 Dual CPU	6.0GB
		1080P	Intel Xeon E7-4850 Dual CPU	6.0GB

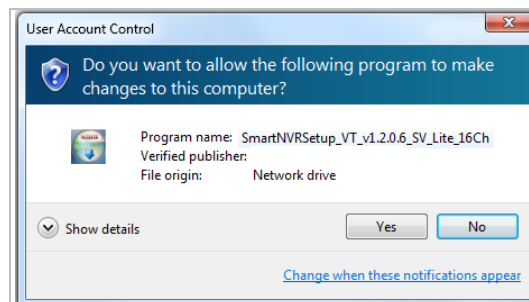
*Note: Above PC requirements are based on running EN-V-R program only. If other software needs to run along with EN-V-R at the same time, you may need additional performance level for your PC. It is recommended to check actual performance and disk capacity before selecting a PC for EN-V-R.*

## 23. Installing EN-V-R



After downloading EN-V-R, double click EN-V-R Setup icon to start installation. The following window will be displayed on the screen. Before installing, check the version of the EN-V-R which is shown on the window.

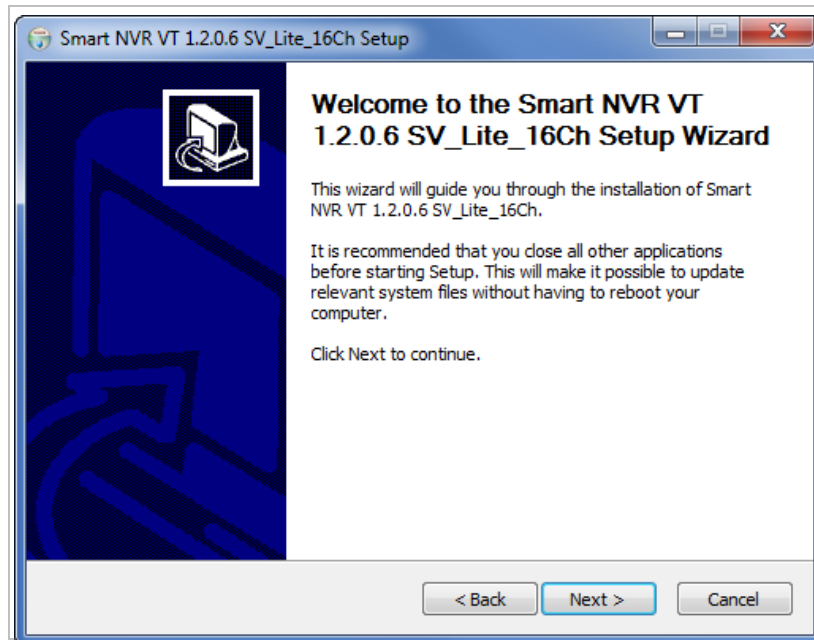
You may encounter the following security warning. To continue installing the program, click **Yes** button.



Then select language for installation.

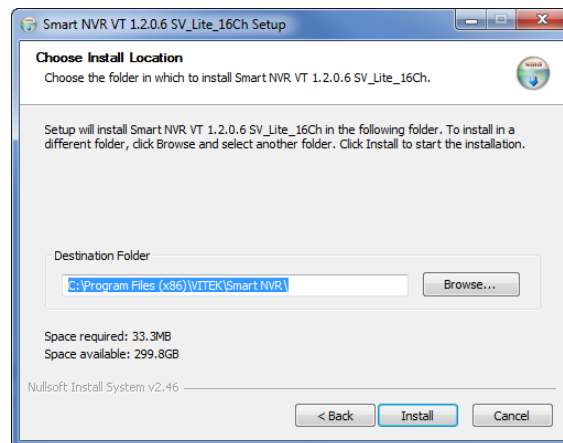


You will see the below window, then click **Next** button.

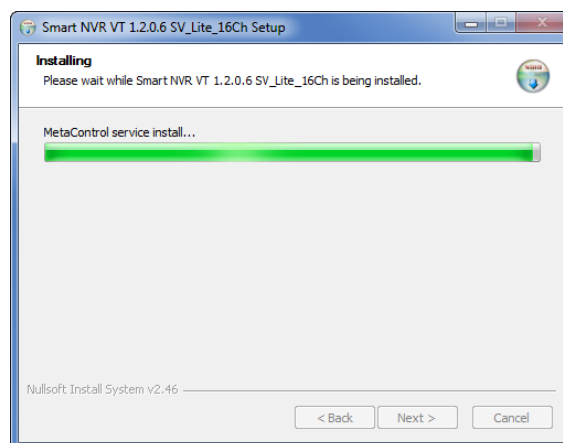


The default location for installation is **C:\Program Files\Vitek**. It is recommended to install in this folder, but if you want to change it to another location, click **Browse** button to choose a proper path.

Now click **Install** button.

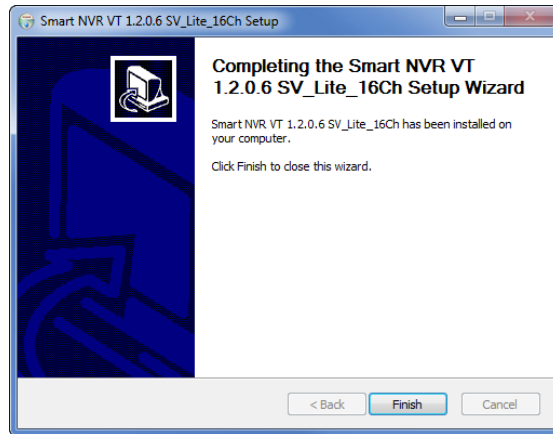


You will see the progress of copying install files to the hard drive as shown below, once is completed click on NEXT.

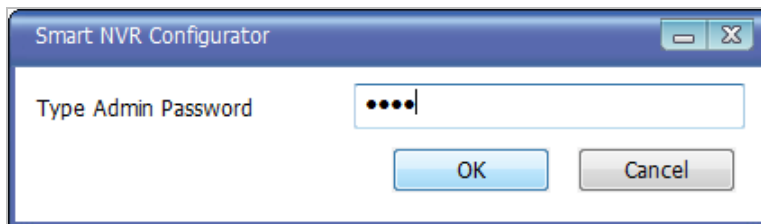


Click Finish to complete the Installation.



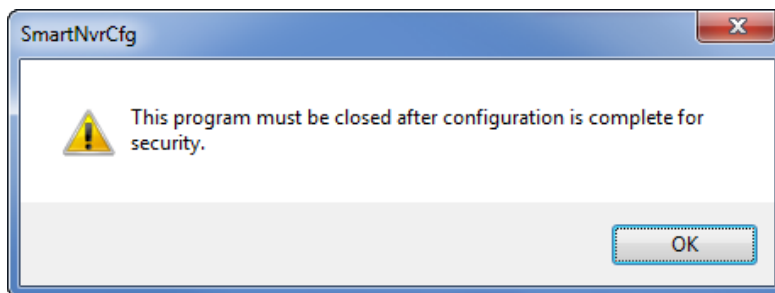


After installing EN-V-R program for the first time, it needs to be configured before use, so it automatically executes the configuration program, which is called **EN-V-R Configurator**.

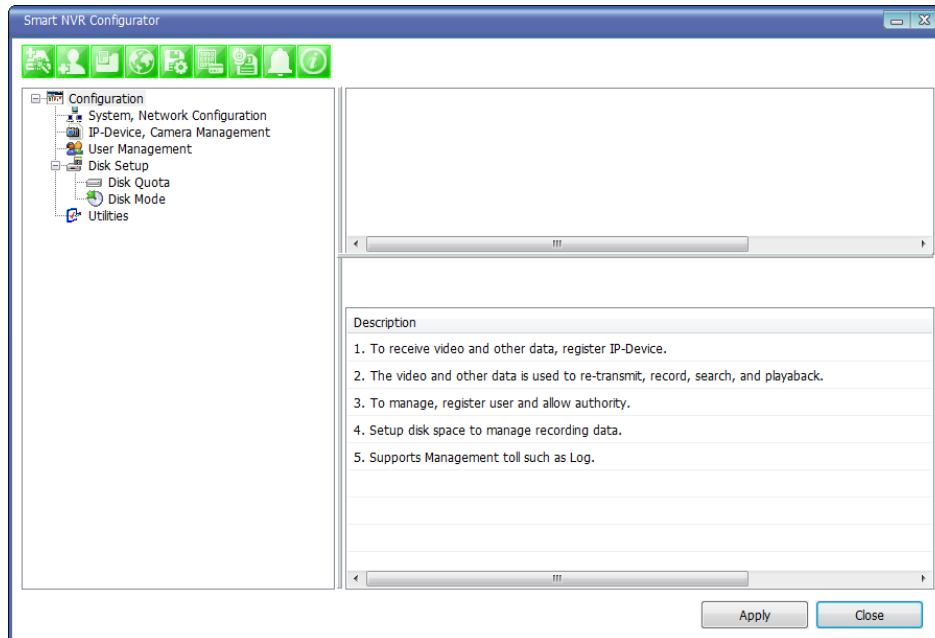


Enter the proper Admin Password. The default password is **root**.

The following screen will be displayed, click OK to continue.



Now you will see **EN-V-R Configurator** window on the screen.



For more information about the EN-V-R Configurator program, refer to **Section 26. Starting EN-V-R Configurator** on page 121.

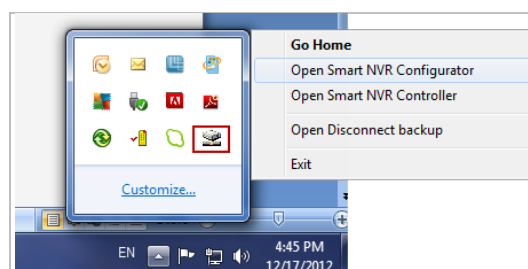
## 24. Uninstalling EN-V-R

### 24.1. Closing Active EN-V-R

If you need to uninstall EN-V-R, first you need to make sure EN-V-R program is not running on your computer by checking the system icon. As you see on the following picture, you can easily find out if EN-V-R service running.



If EN-V-R is not running, you can go ahead to the next section of uninstalling the program. If EN-V-R is active, place the mouse pointer on the EN-V-R icon, and click the right mouse button. You'll see the pop-up menu. Select **Exit**.



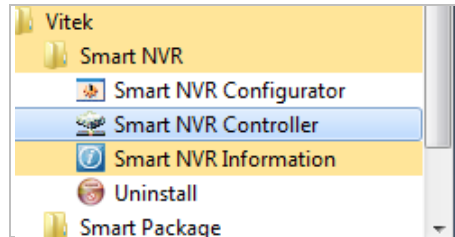
## ENVI Series: VTC-IR40-N

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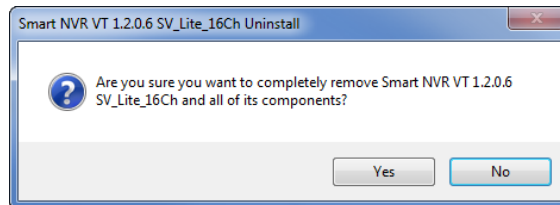
Then the EN-V-R icon disappears, and you know that EN-V-R is no longer running on your computer. Now you're ready to start uninstalling.

### 24.2. Executing Uninstaller

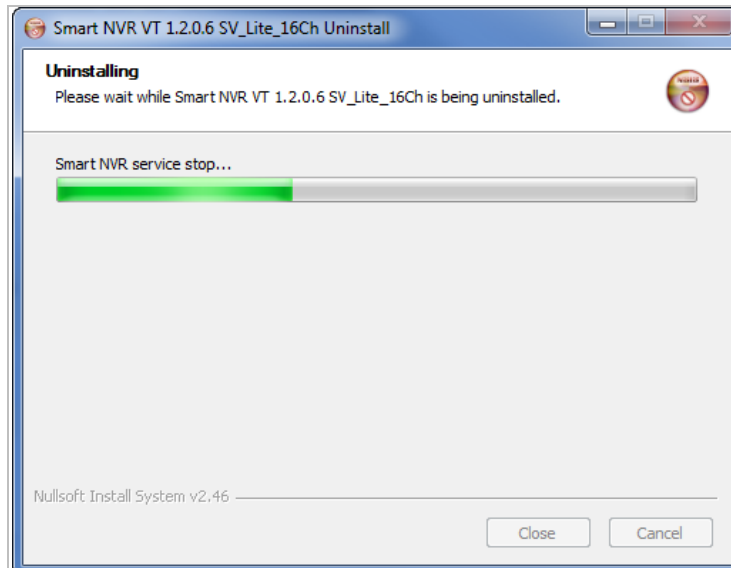
To start uninstalling, click **Start >All Programs >Vitek>EN-V-R>Uninstall**.



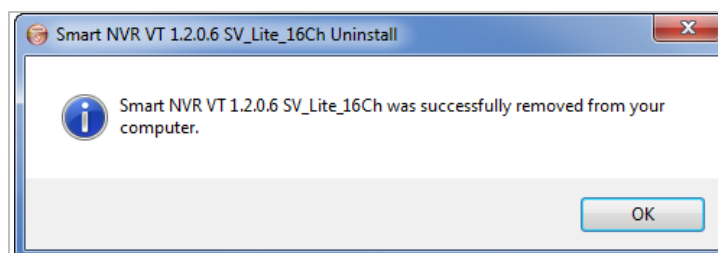
When the following window appears, click **YES** button.



The progress of uninstalling is displayed.



After all the install files are deleted, the following window will be displayed. Click **OK** button on the following window to complete the uninstalling.



## 25. Components of EN-V-R Program

EN-V-R consists of three programs, (*EN-V-R Service, EN-V-R Configurator, and EN-V-R Controller*).

### 25.1. EN-V-R Configurator

EN-V-R Configurator is used to set up various parameters and conditions of EN-V-R Service. Users can register, modify, and delete IP devices and users with this program. It also provides configuring tools for recording, alarm, event, and other functions.

### 25.2. EN-V-R Service

EN-V-R program is a Windows service and runs in a background mode, which means that it is not shown on the Windows desktop. EN-V-R receives video, audio, alarm, even data from IP devices over the network, and then it can record the data on the hard drive or retransmit to users. Starting, terminating and restarting of EN-V-R program can be done by using EN-V-R Configuration or EN-V-R Controller.

### 25.3. EN-V-R Controller

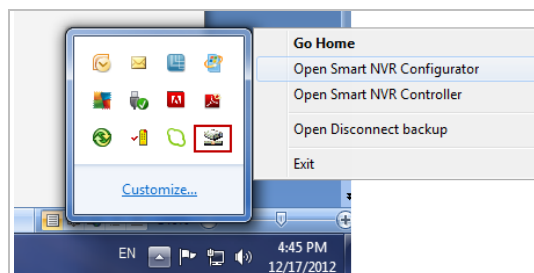
EN-V-R Controller program is used to start or stop the EN-V-R service.

### 25.4. EN-V-R System Tray Menu

After you finish installing EN-V-R, you will find the EN-V-R icon on the system tray, which is located right, bottom part of the Windows desktop.

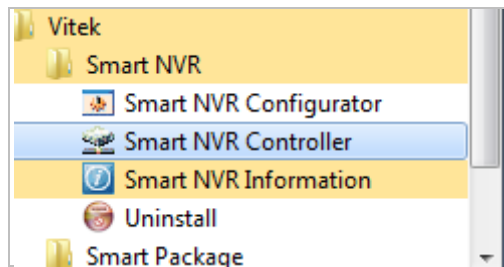


Move the cursor over the icon, and right click. The following pop-up menu will show. You can open EN-V-R Configurator or EN-V-R Controller program from this menu, or you can go to the Home page of the EN-V-R program for live view or playback.

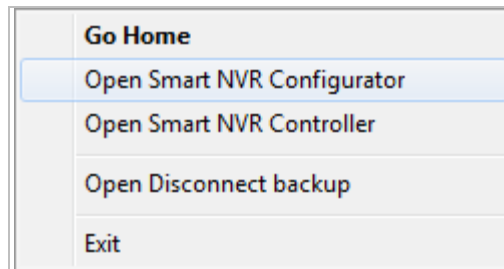


## 26. Starting EN-V-R Configurator

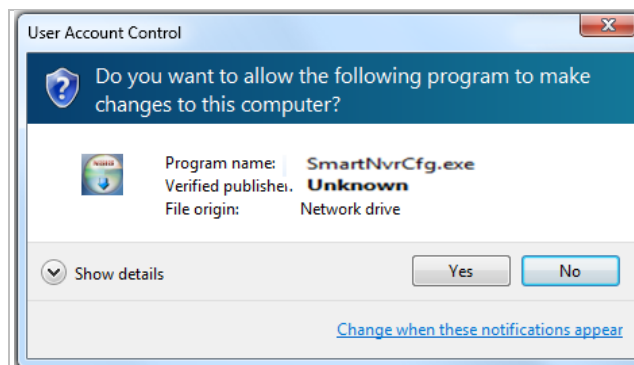
EN-V-R Configurator starts automatically right after installation is completed; you may also click the EN-V-R icon on the Windows desktop.



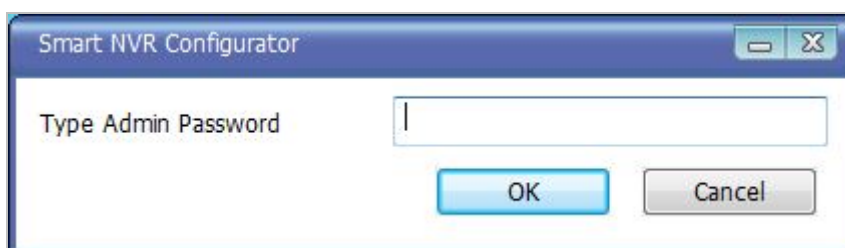
If EN-V-R program is already running in background, you may also select the EN-V-R icon on the system tray by clicking right button of the mouse.



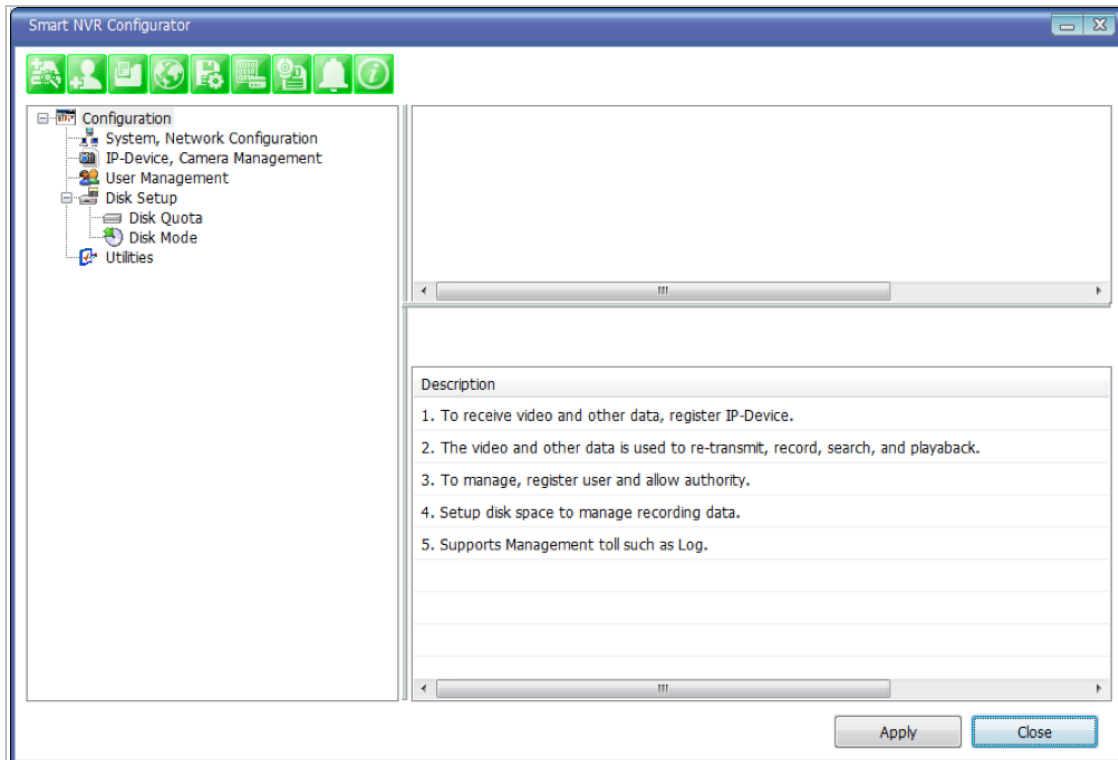
You may encounter the security window as below. Click **Yes** button to continue.



Once EN-V-R program starts, a log-in window will be displayed as below. Type in the proper admin password and click the **OK** button. The default admin / password is **root**.



Now EN-V-R Configurator window will be displayed.



## 27. Quick Start Guide

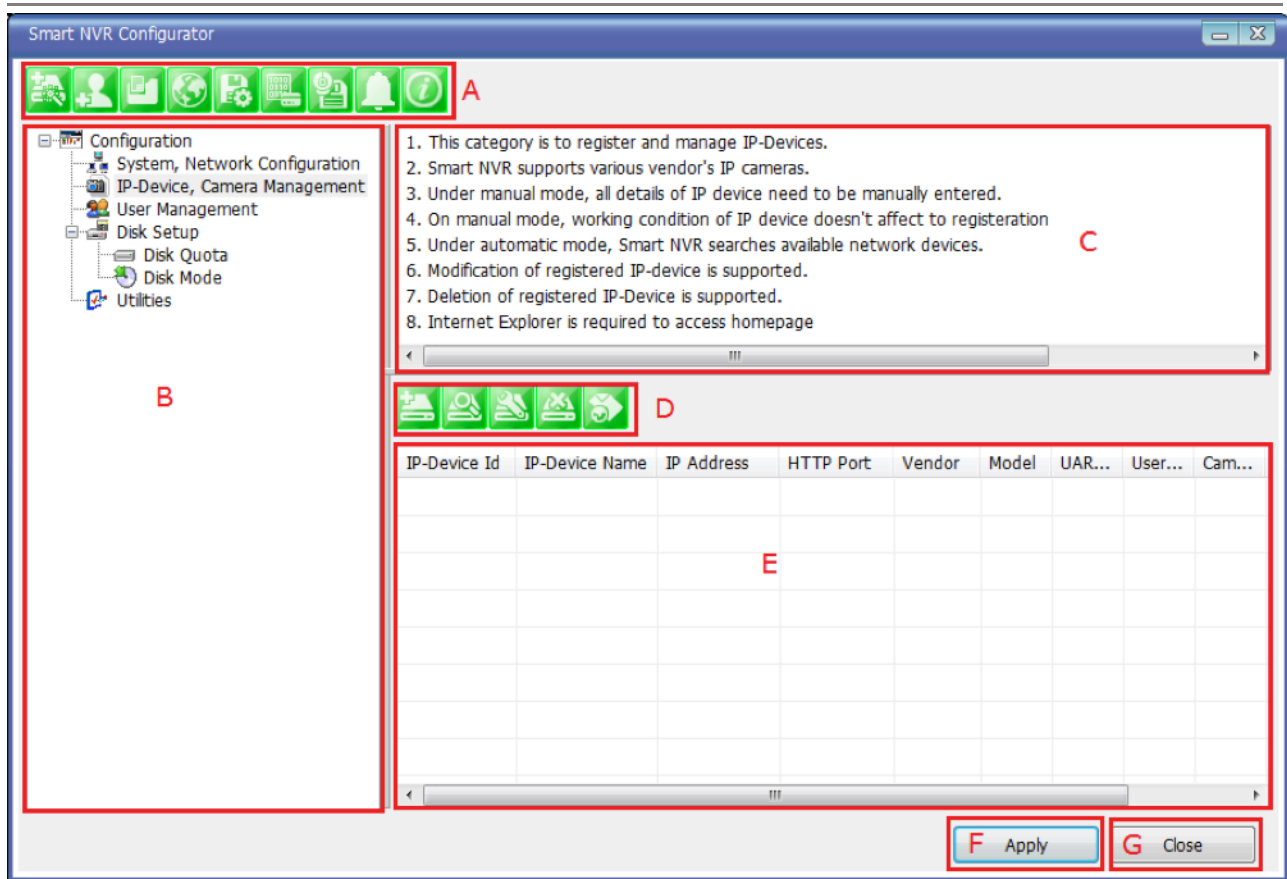
EN-V-R is full-functioning Network Video Recorder software that runs on your PC. When started for the first time after EN-V-R is installed, there is no IP devices connected.

To add a camera to the EN-V-R you must **register** the camera first. Then EN-V-R knows what IP devices they are, how to connect to them, and how to use them. That way, you will be able to control EN-V-R for recording, live viewing, etc.

### 27.1. EN-V-R Configurator User Interface

The following picture shows the main window of EN-V-R Configurator program.

**ENVI Series: VTC-IR40-N**

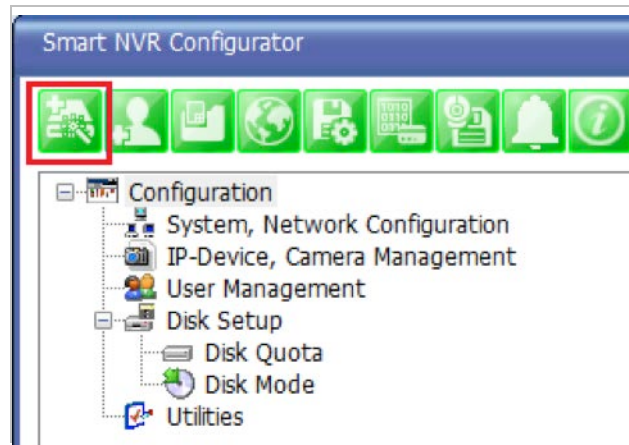


Items	Descriptions
A Main Toolbar	Frequently-used menu items are shown on this toolbar.
B Configuration Menu tree	Configurable categories are shown as a menu tree style.
C Configuration Menu Description	Descriptions and usages of the selected category are displayed.
D Sub-Menu Toolbar	Menu items for the selected category are shown. (Note: This toolbar is displayed only when any top menu item is selected from the menu tree.)
E Device List	IP cameras Information
F Apply Button	Click this button to apply the changed values.
G Close Button	Click this button to exit EN-V-R Configurator program.

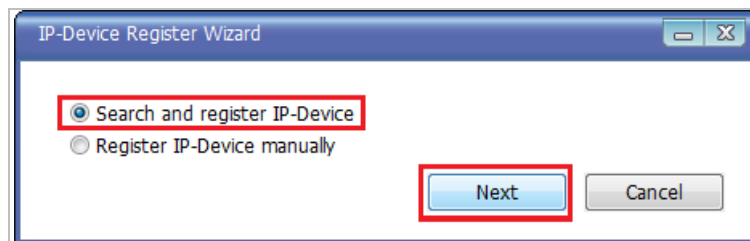
**27.2. Searching for IP Devices**

Click the first button on the Main Toolbar.

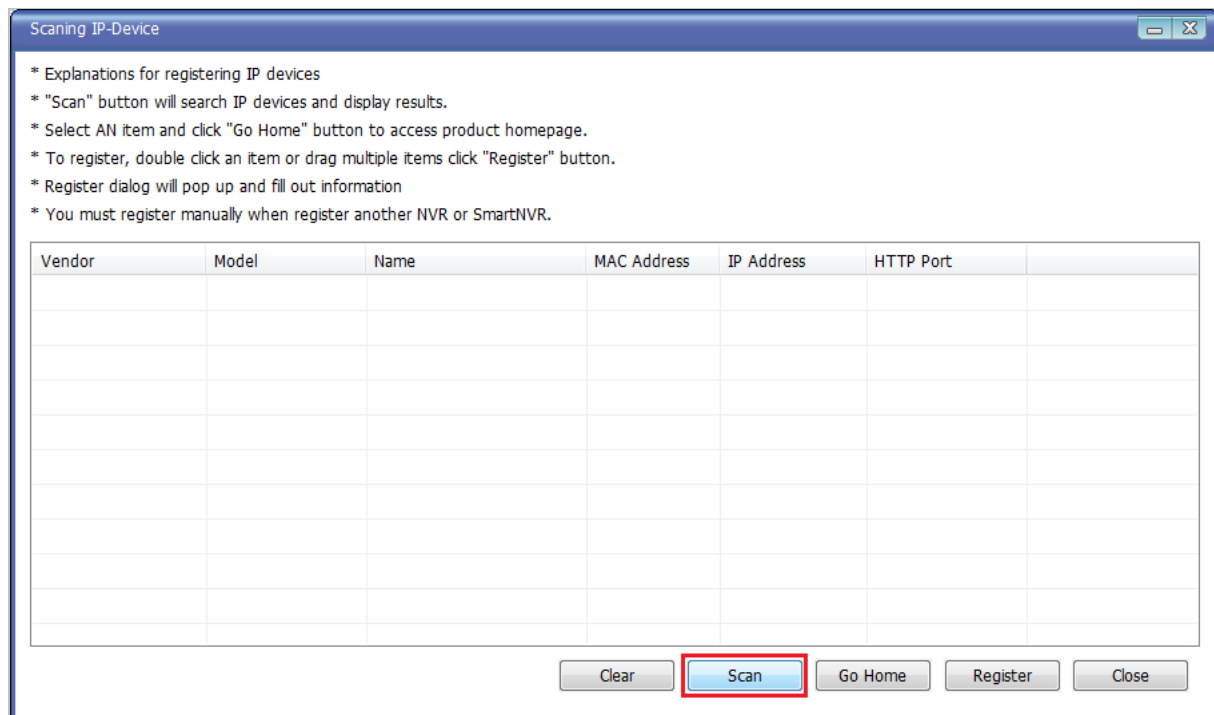




You are now given a choice to register the IP devices by "search and register or manually". To make it easy, choose **Search and register IP-Device** in this stage, and click **Next** button.

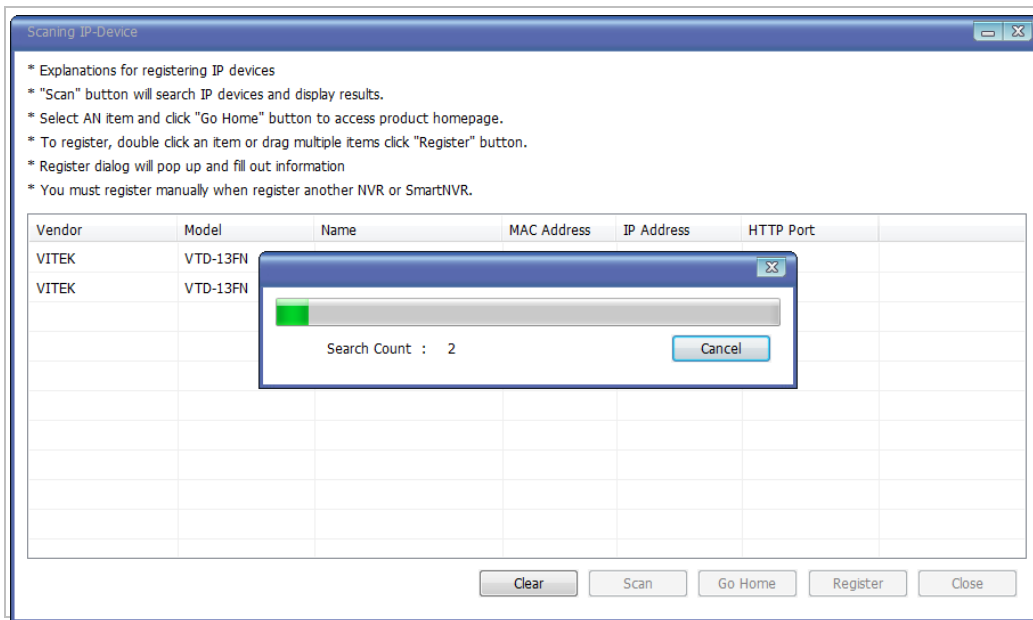


On the following window, click **Scan** button.



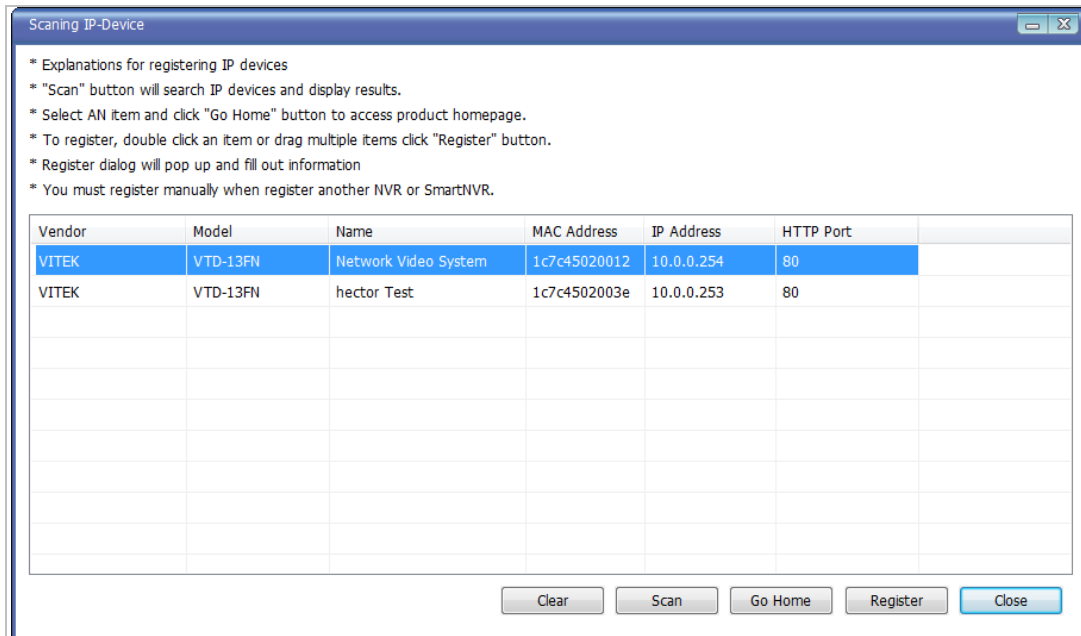
The searching for IP devices is started. As the detected IP devices are being listed. Wait until searching is finished. If you click **Cancel** button in the middle of searching, the EN-V-R will retain only the IP devices found until that moment.

## ENVI Series: VTC-IR40-N

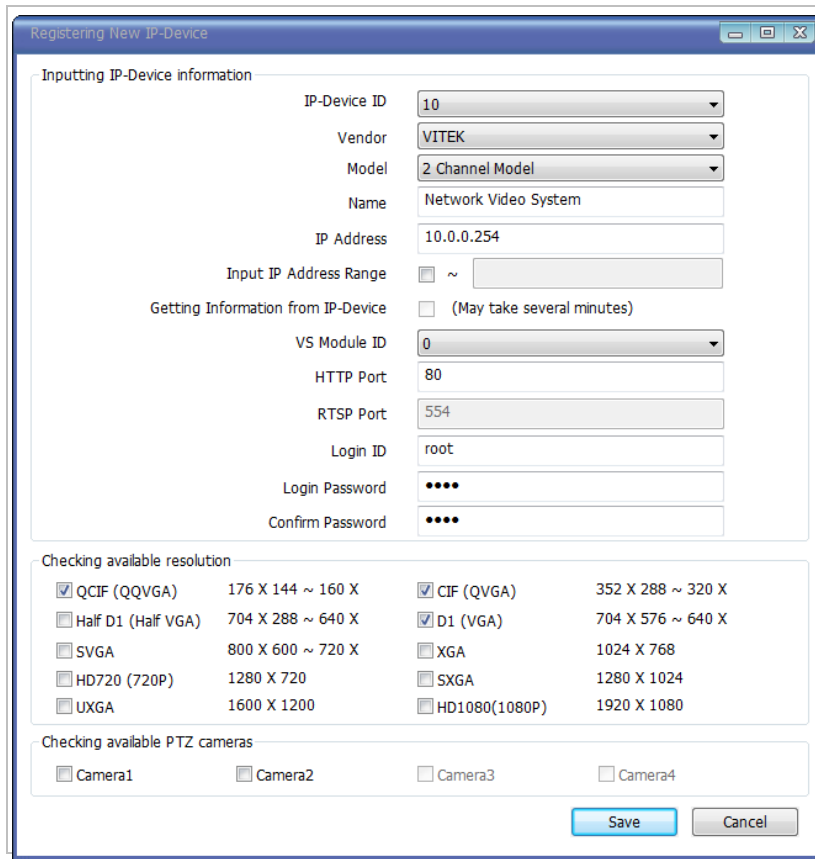


### 27.3. Registering IP Devices

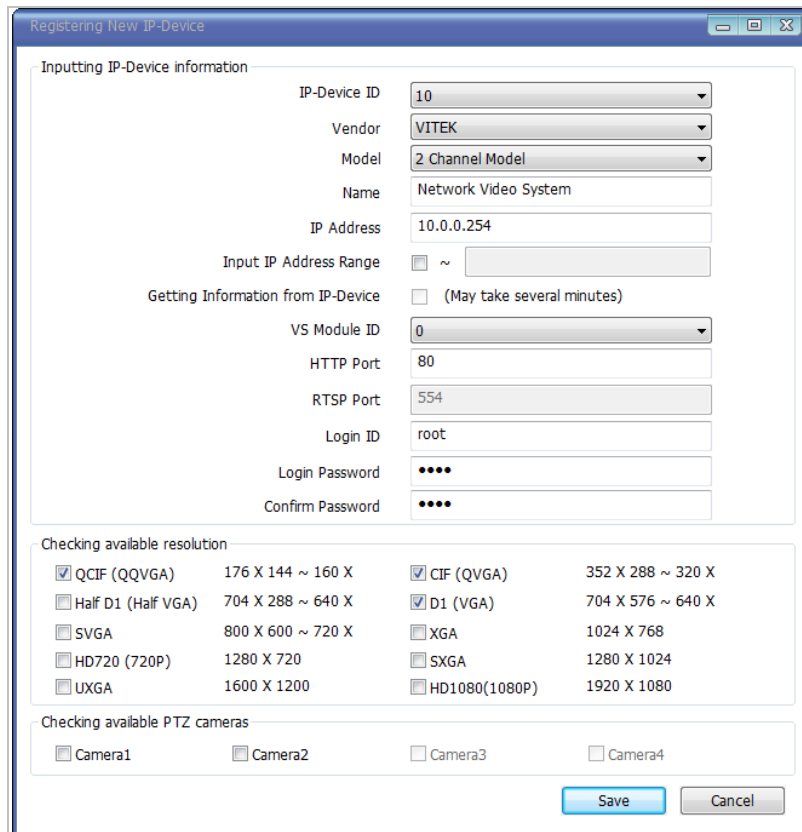
After scanning is finished, you have a list of IP devices found on your network. Next step is registering them. Double click the IP device you want to register or you may highlight it and then click **Register** button. In this example, the first one is chosen to register.



The next window shows up and it's for entering the network parameters and camera resolutions of the IP device you've chosen. You may need to enter the **Login ID** and **Password** here. Click **Save** to finish registering it.

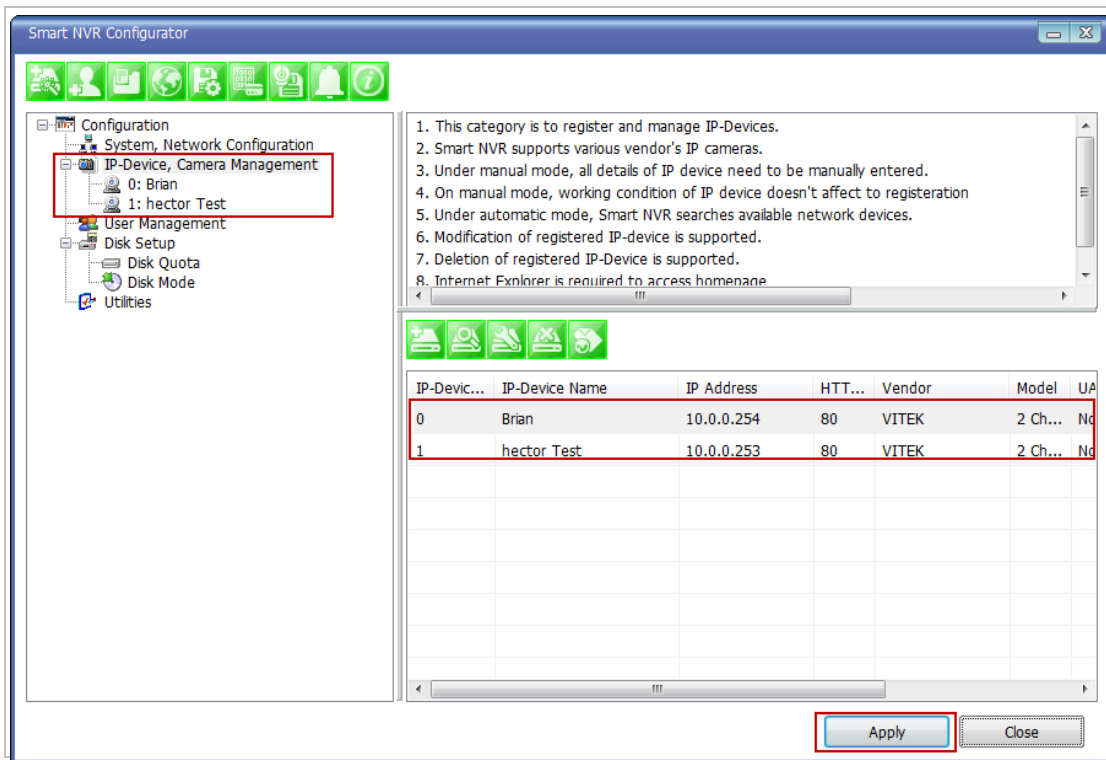


Click on Save after configuring IP device (camera)

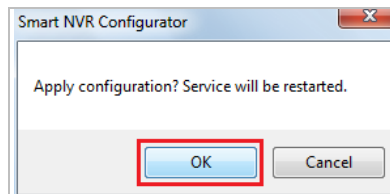


Click Apply after registering one or more IP devices (cameras).The image below represents the configurator with multiple IP devices registered.

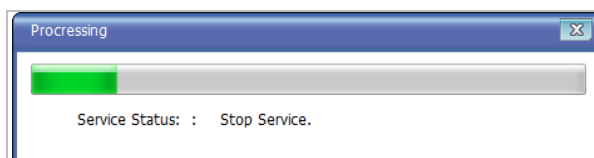
## ENVI Series: VTC-IR40-N



After clicking **Apply**, the program will ask you to confirm it. Then click **OK**



EN-V-R service is being stopped momentarily, and then it will start running again.



### 27.4. Viewing Live Video

Once the network and cameras are set up, it is necessary to check if EN-V-R is functioning by viewing the live video from those devices.

To view the EN-V-R home page, click the Go NVR Home button on the main toolbar.



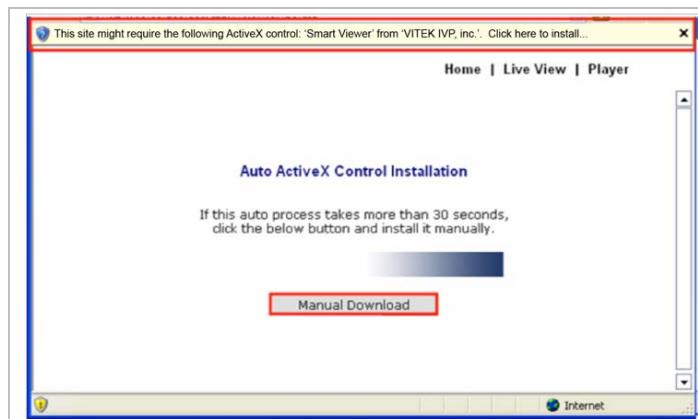
Below is an image of the EN-V-R home page.



Click **Live View** on top right part of the window to see the live video from registered IP devices (cameras)

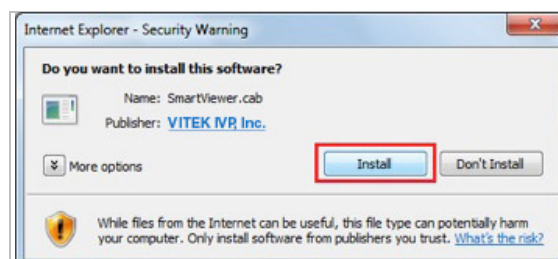
Home | **Live View** | Player

If this is the first time you are using VitekLive View feature, the web browser may ask you to allow installing of an ActiveX program. Click **Install** to continue.



In some cases there is no response from the web browser, you may need to install the ActiveX manually by clicking **Manual Download**.

When you see the following security warning, click **Install**.

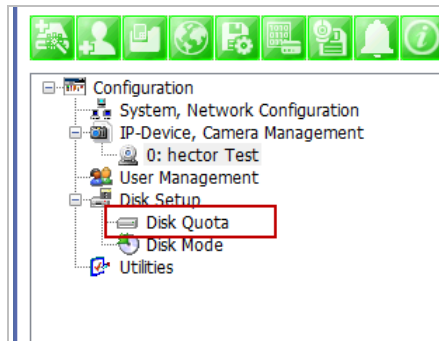


### 27.5. Recording Video

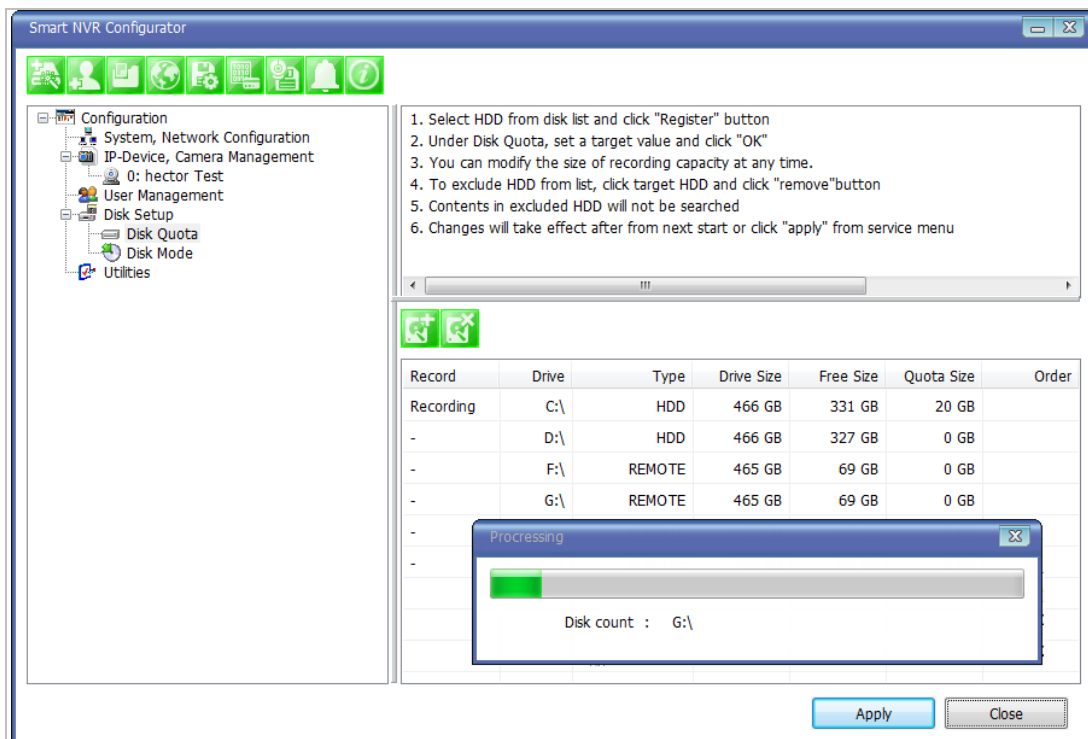
The essential feature of EN-V-R is recording the video from IP devices.

Before starting the recording, it is required to prepare the hard drive of your PC where EN-V-R program is running.

Click **Disk Quota** on the Menu tree.



The hard drive will be ready to start recording video after the progress window is done counting drives. It shows the target drive (s), total capacity, available size and quota for recording.



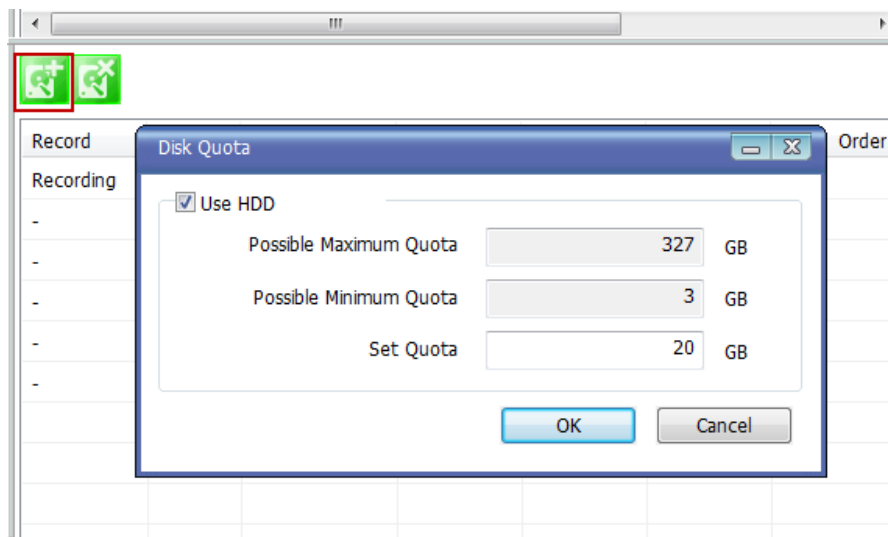
You are able to change the setting by highlighting the drive then clicking the first icon of the sub-menu Toolbar.

Use HDD (to use this HDD for recording)

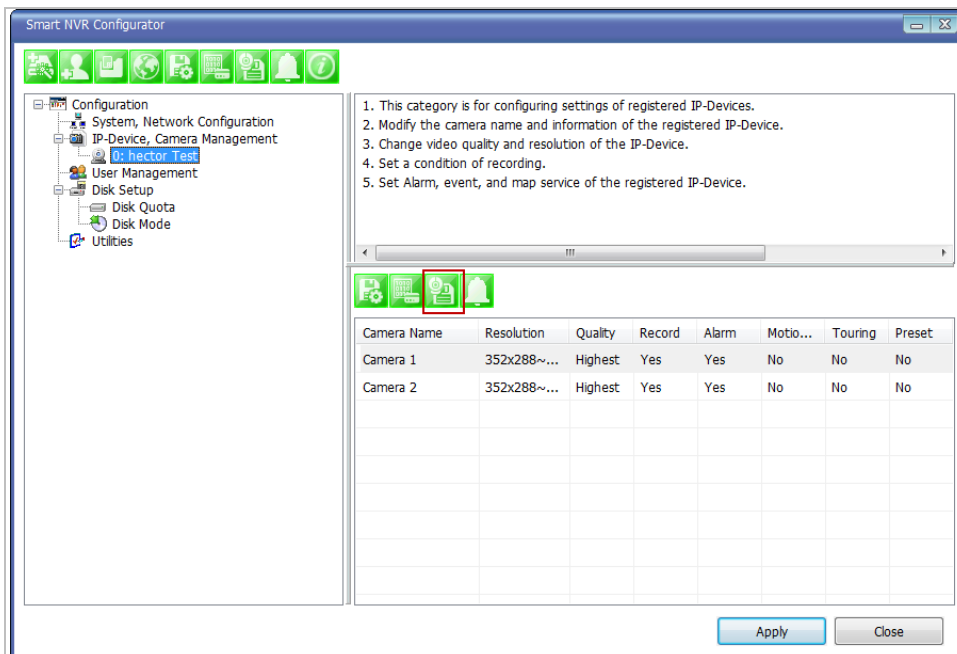
Possible Maximum Quota (the available of free space on your HDD)

Possible Minimum Quota (the minimum amount required)

Set Quota (desired amount of HDD to be use for recording)



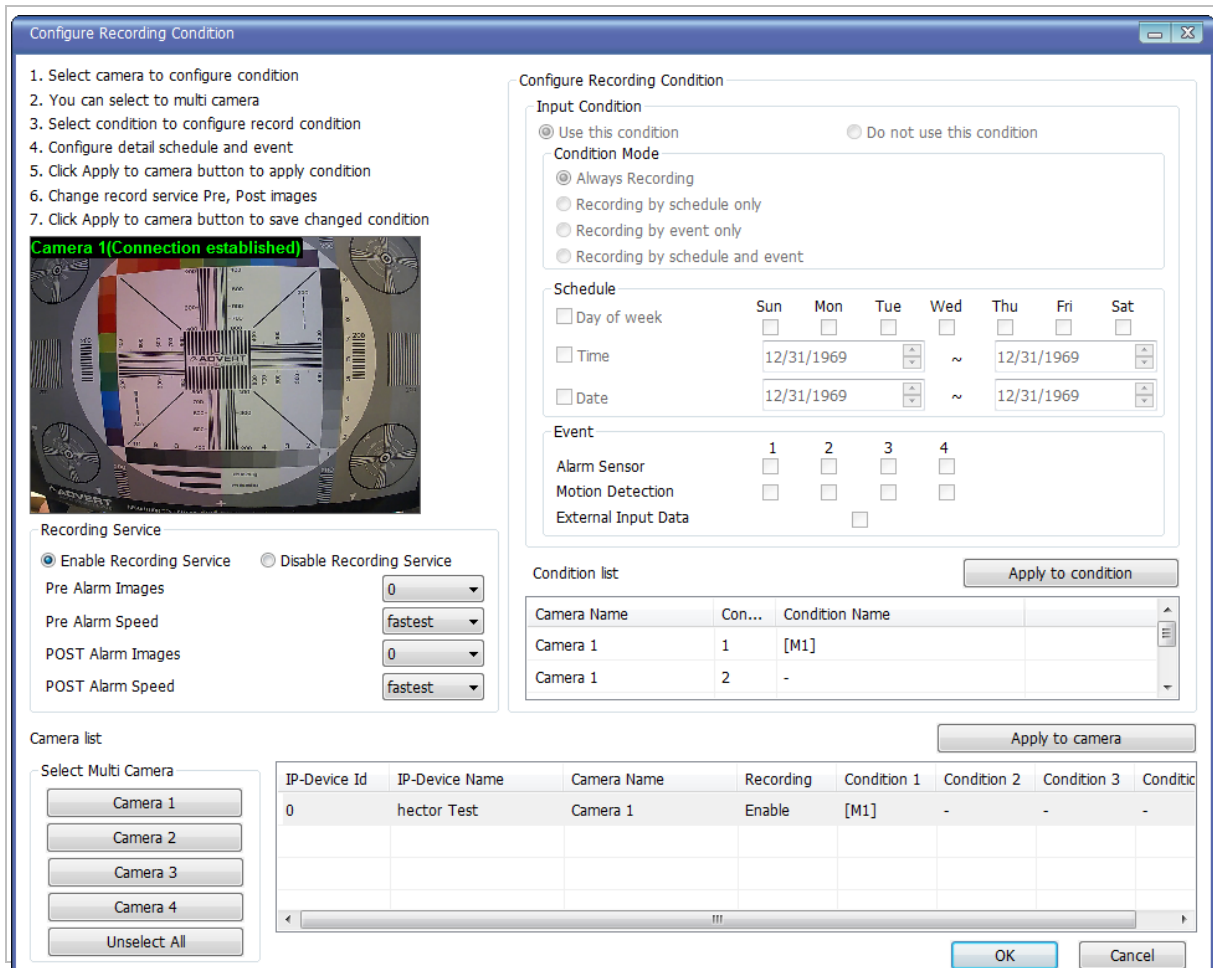
To set up the recording feature, select an IP device from the Menu tree on the left pane. The device information will be shown on the right pane. Click the button for recording configuration on the sub-menu Toolbar as shown below.



Now you will see **Configure Recording Condition** window as below.



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The recording feature is already enabled and recording conditions are configured in default settings. In the example shown above, you can see that Camera 1 of Device 0 will record video only when motion is detected. Click **OK** to use this Recording Conditioned.

To change recording condition high light camera 1 under condition list (A)

Select the type of Recording under Condition Mode (B)

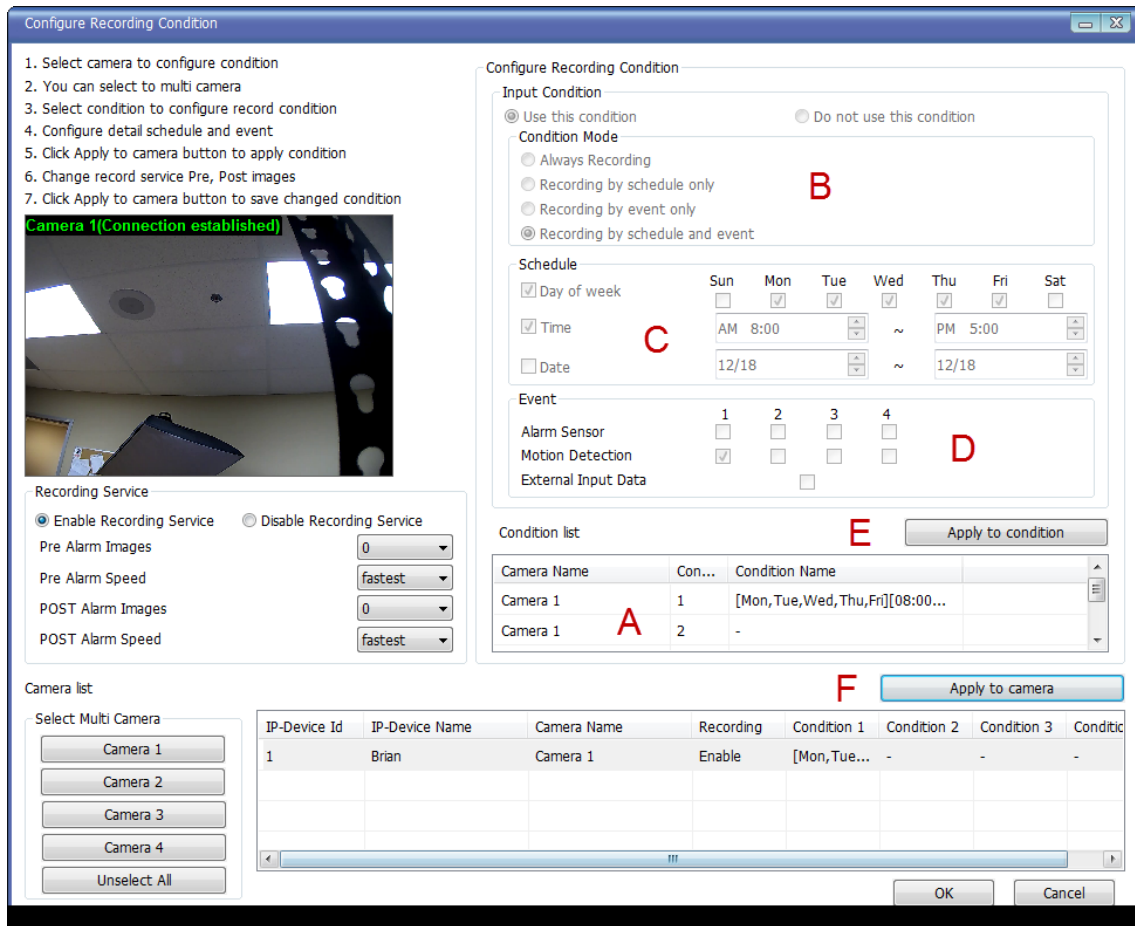
If schedule recording is enabled, the schedule section will be available to configure (C)

If Event is selected the event section will be available to configure (D)

After conditions are selected click **Apply to condition**(E)

After apply to condition click **Apply to camera**(F)

Click **OK** when done.

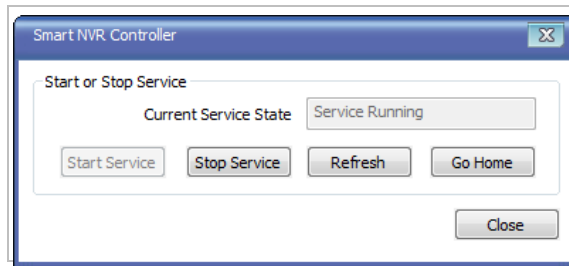


Now that the configuration is done, you need to start the EN-V-R service program. Select Start > All Programs > Vitek > smart NVR > Smart NVR controller.

You will find the EN-V-R icon on the system tray, which is located right, bottom part of the Windows desktop.



Move the cursor over the icon, and right click. The following pop-up menu will show. You can open EN-V-R Configurator or EN-V-R Controller program from this menu, or you can go to the Home page of the EN-V-R program for live view or playback.



You can find out from this window that the service is running at that moment. If not, click **Start Service** button to run. Once EN-V-R service is started, the video sent from the configured camera will be recorded according to the recording condition.

## 28. ENVI Smart Player

### 28.1. Introduction

Smart Player is an ActiveX program for Internet Explorer Web browser, which enables users to search and play back recorded video in Network Video Servers and other devices with built-in recording capabilities. The Searching and playback of video is refined by condition, schedule, and event.

Smart Player can be run in SmartNVR network video software for PC and network cameras equipped with SD card as well as standalone NVR (Network Video Recorder) devices.

### 28.2. Key Features

- Transforming recorded video into AVI, FJP&IDX, formats
- Supports Printing of video
- Playing Audio from recorded video
- Group Searching from recorded video
- Supports Full Screen Mode

### 28.3. System Requirement for PC

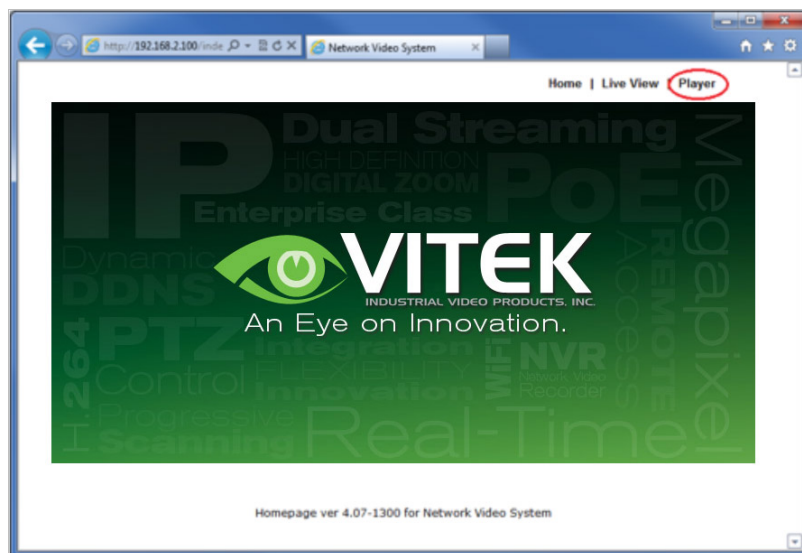
For best quality and performance, your computer needs to meet the minimum requirement.

- OS: Microsoft Windows XP Pro, Windows 7 Pro, Windows 8 PC
- CPU: Intel Pentium 4, 2 GHz (Dual-Core or faster is recommended)
- System RAM: 2GB
- Video Card: 256MB Ram, 1024x768 Resolution
- 100 Mbps Network Adaptor

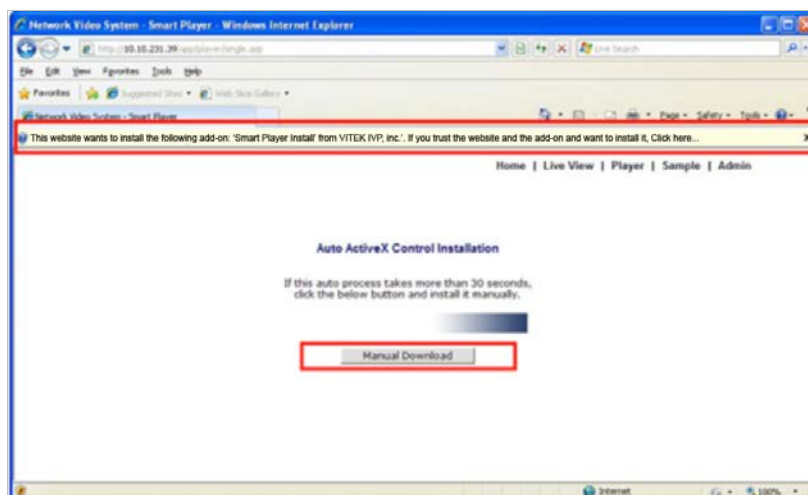
## 29. Installing and Uninstalling

### 29.1. Installing Smart Player

Connect to the Vitek Camera / Server / NVR on Internet Explorer, and click **Player** on the main page.



If you're using Windows XP Service Pack 2 or later, it may ask you to install ActiveX. Click the message bar, then click on the Install ActiveX control...



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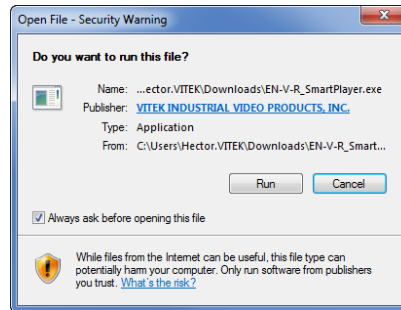
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After the installation is successfully completed, **Smart Player** window will be displayed.

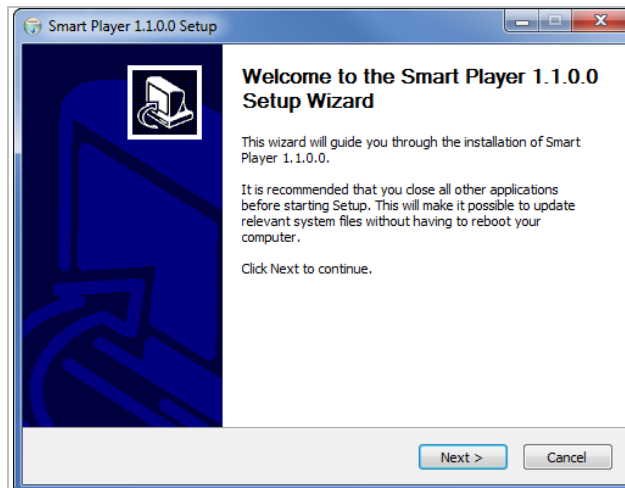
### 29.1.1. Manual Installation

When an Internet connection is not available or having some difficulties, you can manually download and install the Smart Player program file prior to setup, visit <http://www.vitekccctv.com/Downloads.asp>. You may also install from the provided CD. Execute the downloaded file, and you will see the Smart Player Setup Wizard window.

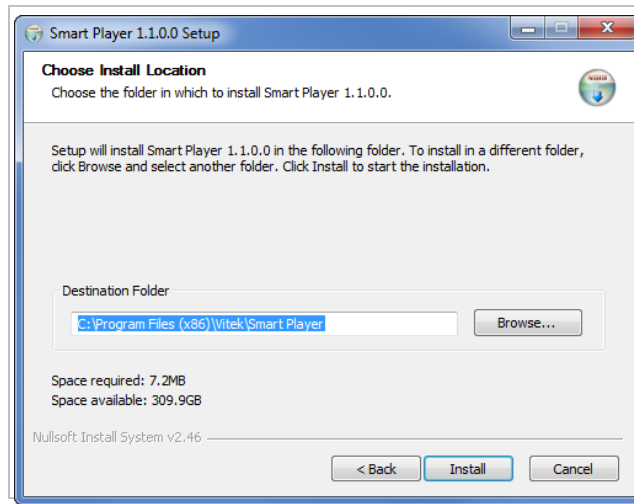
Click **Run** to start installing.



The following window will appear. Click **Next**.



The following window will be displayed. Click **Install**



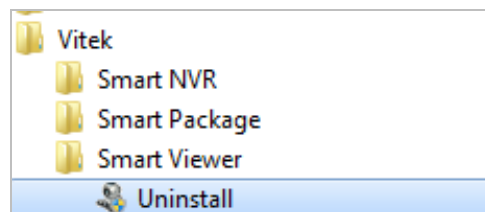
After installation is successfully completed, the following window will be displayed. Click **Finish**.



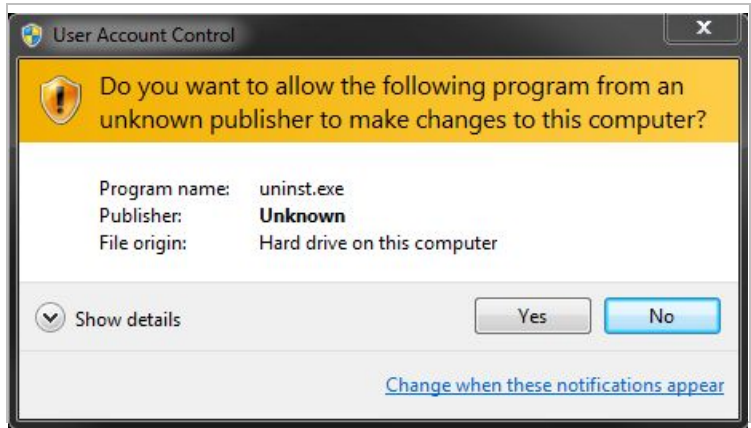
## 29.2. Uninstalling Smart Player

Before uninstalling, close all the Internet Explorer windows.

### 29.2.1. Uninstalling on Program Menu

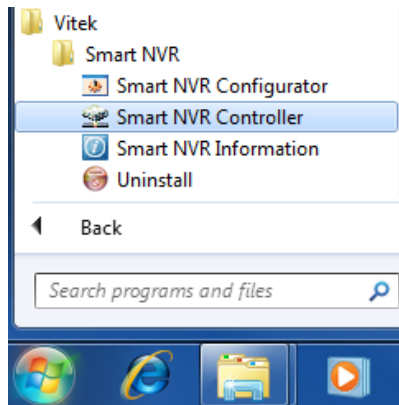


Click **Uninstall** and the following window will be shown. Click the **Yes** button.

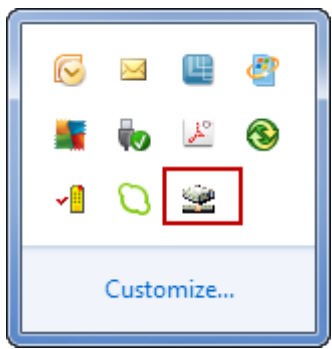


### Live View & Play Back

To live view and play back your cameras, go to **Start** menu, **All Programs**, **Vitek Folder**, Click on **Smart NVR Controller**, as shown below.

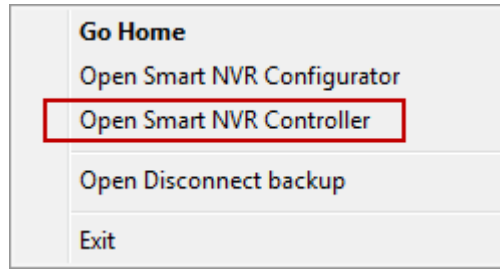


Look for icon on right side of taskbar as shown below (windows XP and windows 8 might show it different). Right click icon.

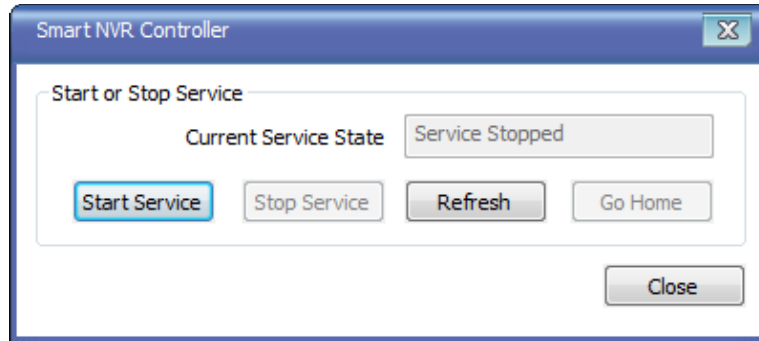


The following window will display. Click on **Open Smart NVR Controller**.

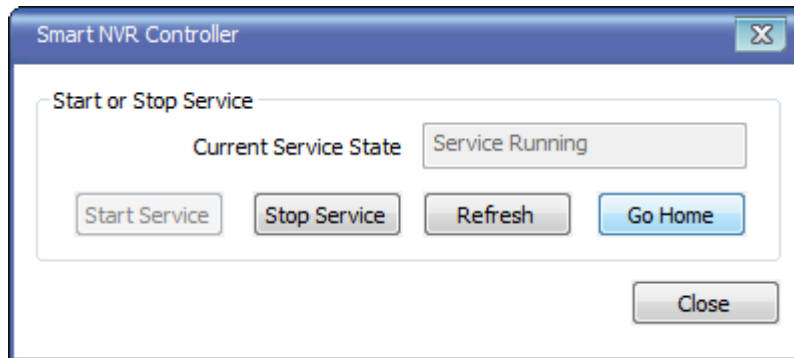




Click on **Start Service** to run the program.



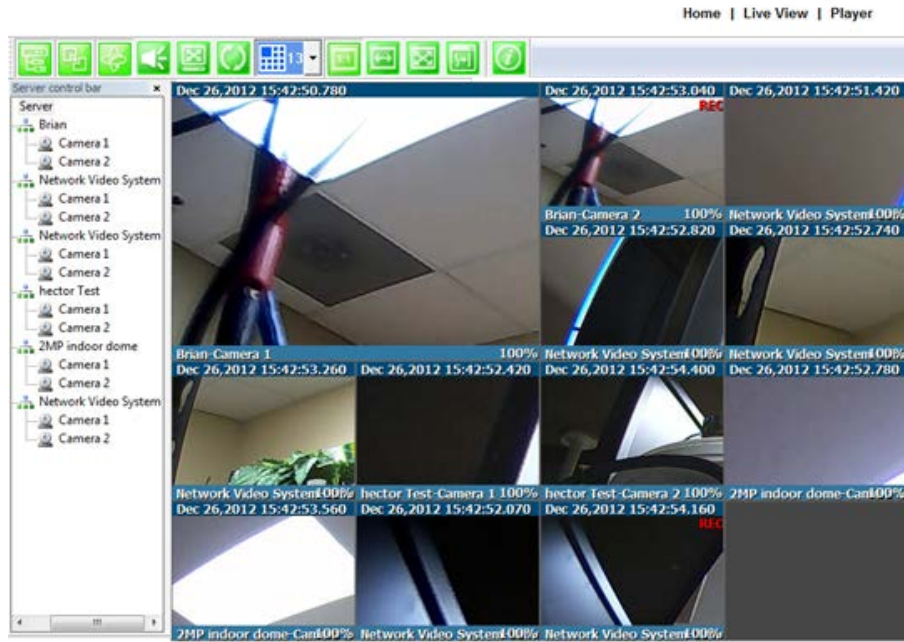
Click on **Go Home** to view Smart Player Home Page



Click on **Live View**

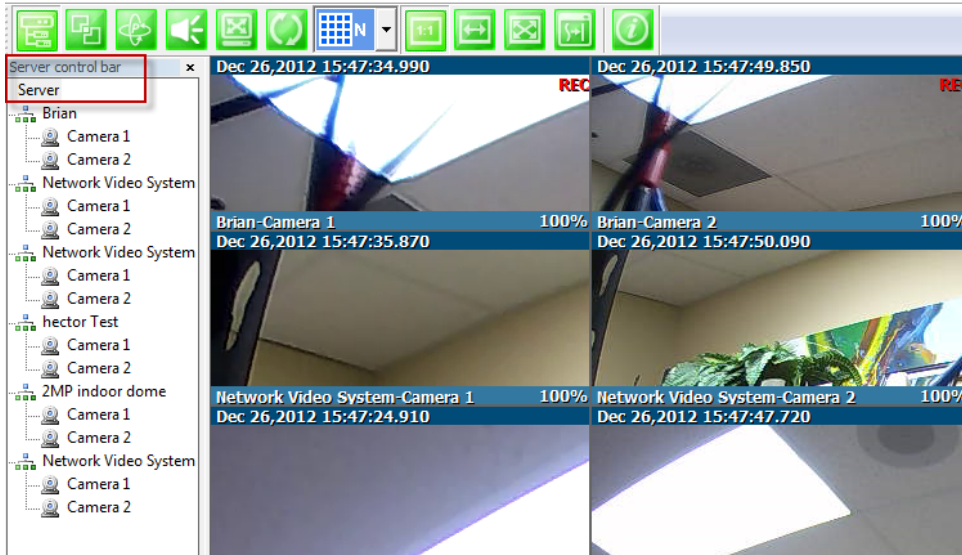


The following screen will be display were you can configure your live view.



### Server Control Bar

Allows you to view cameras / servers that are registered in the system. Toggle On/Off



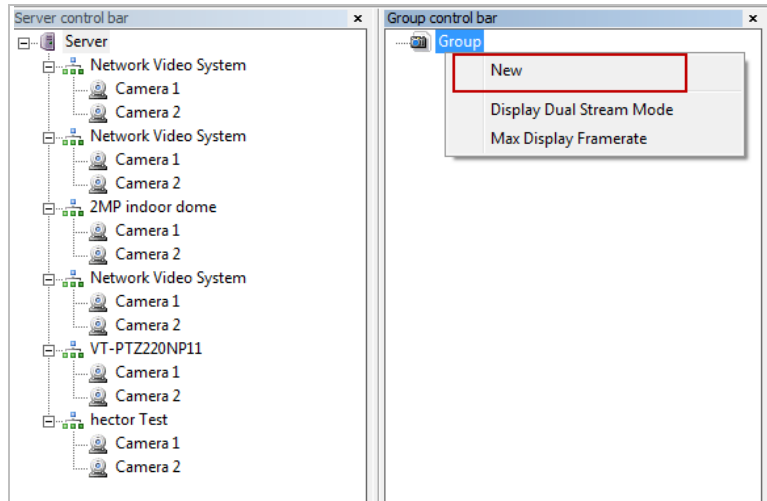
### Group Control Bar



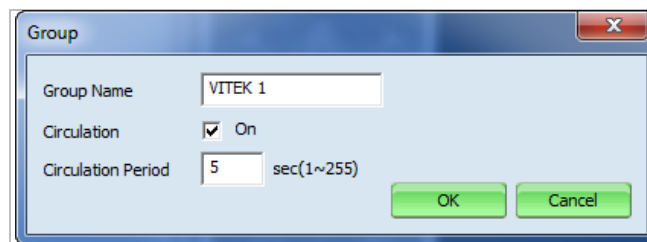
In order to view video, cameras must be assigned to a group, in this section you create groups with cameras you want to view.

Create Group

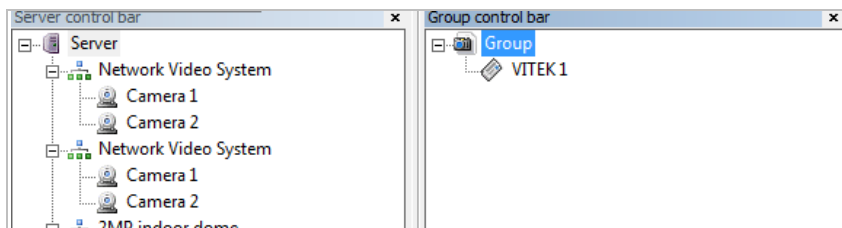
In order to create a group in **Group Control Bar**, right click on **Group**, another window will appear then select **New**.



The following window will be displayed. Type in the group name, check "Circulation" to allow sequencing, input dwell time for "Circulation" and click **OK**.

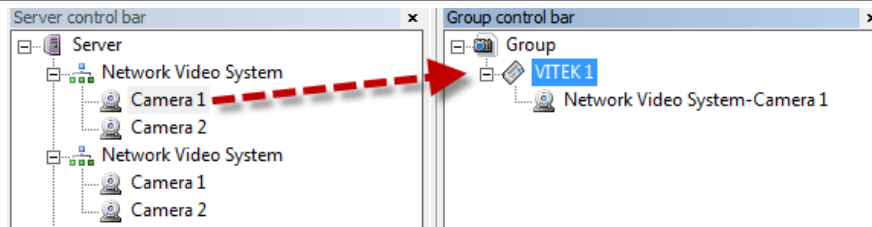


A new group with the assigned name will be created as shown below.



To add cameras to the new group, drag from server control bar and drop on newly created group. You can create multiple groups and add multiple cameras in each group.

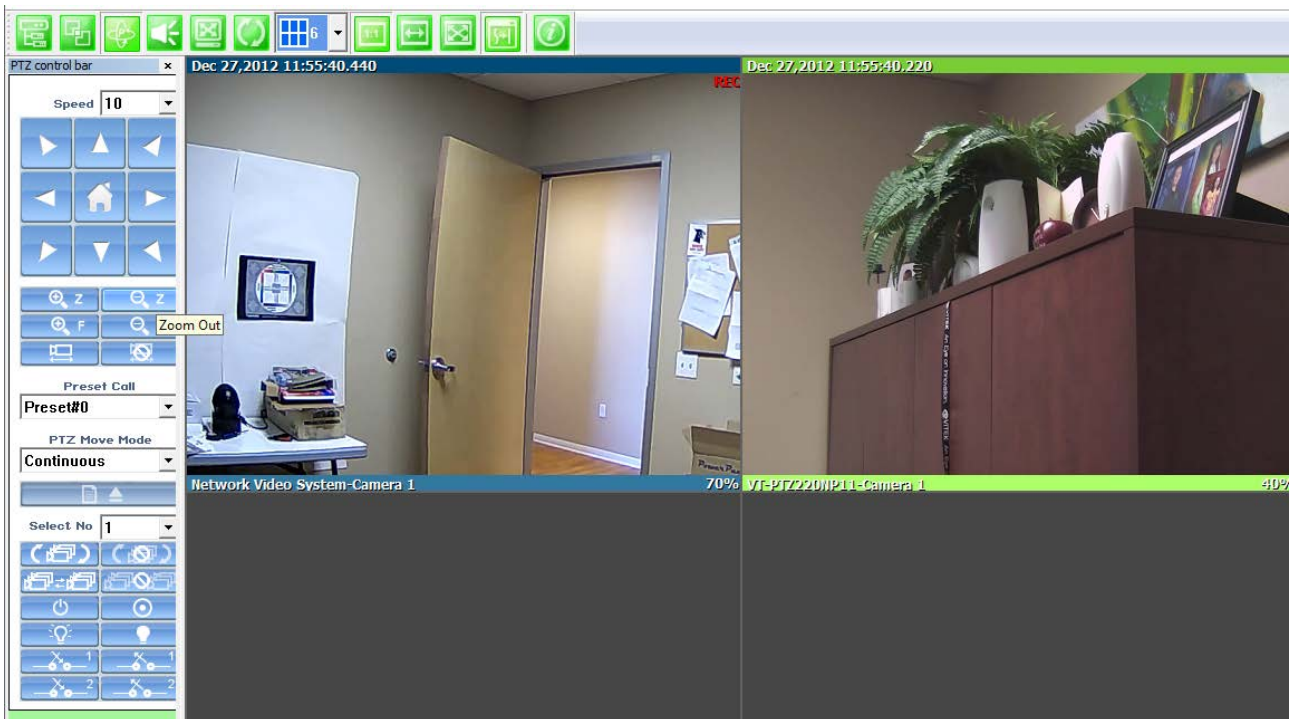
## ENVI Series: VTC-IR40-N



### PTZ control Bar



In this section you will be able to control PTZ's connected to the system.

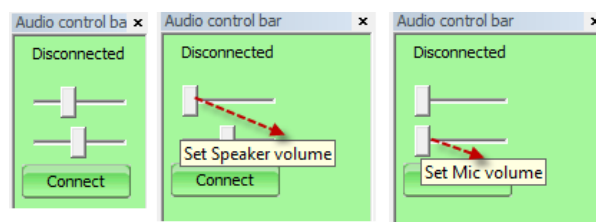


### Audio Control Bar



Controls Speaker and Mic volume.

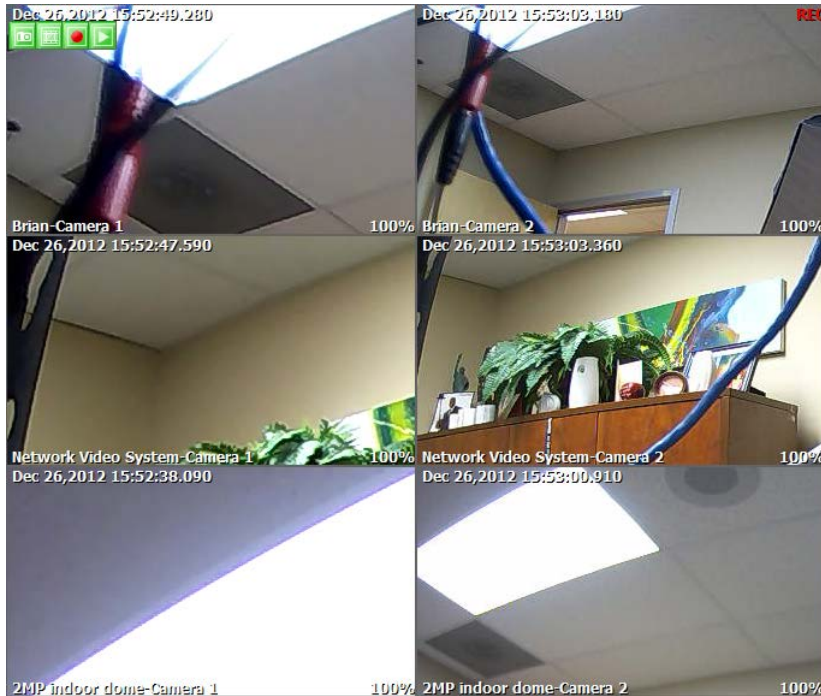
When audio is available click on **Connect** and adjust speaker and mic levels, when done click **Disconnect**.



Full/Normal Screen



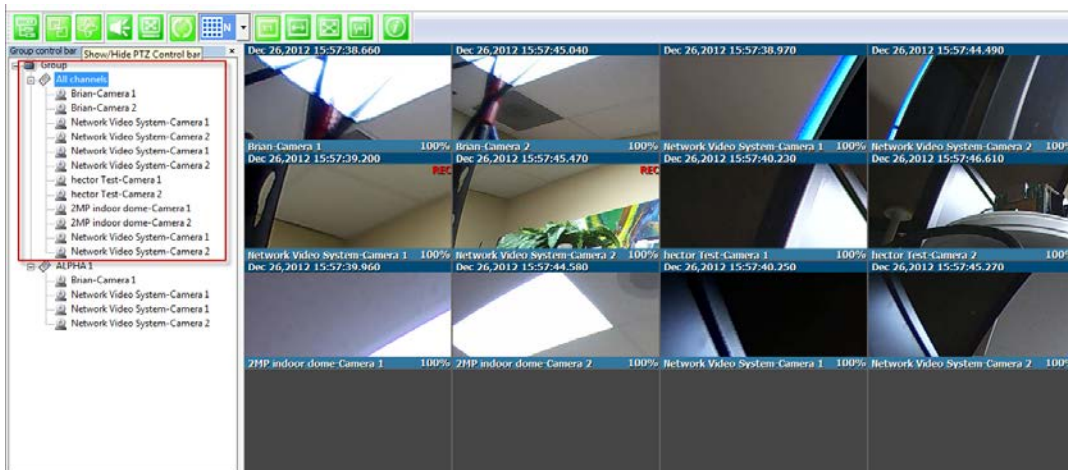
Select full screen as seen below, to return to normal press **Escon** your keyboard.



Group Circulation

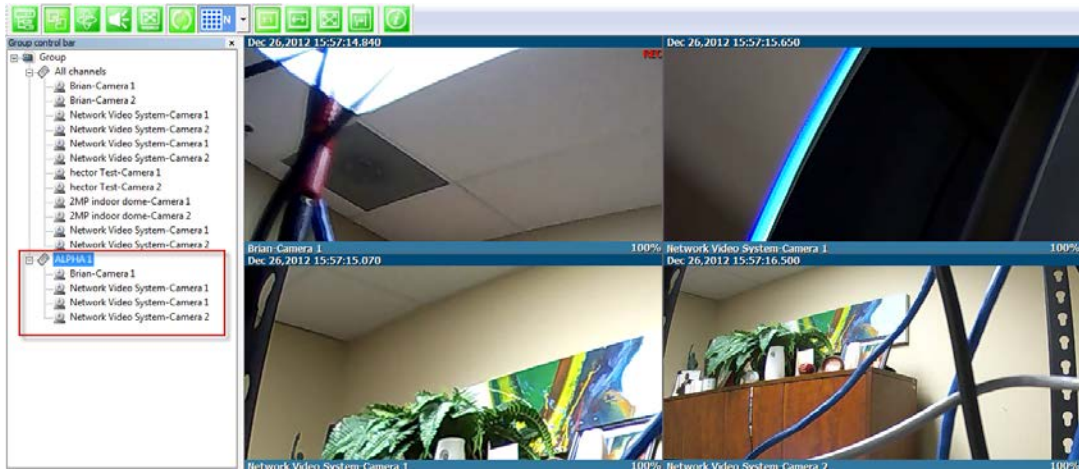


Start sequencing between groups.





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Layout settings



You can change the screen layout between 1,2,4, etc.

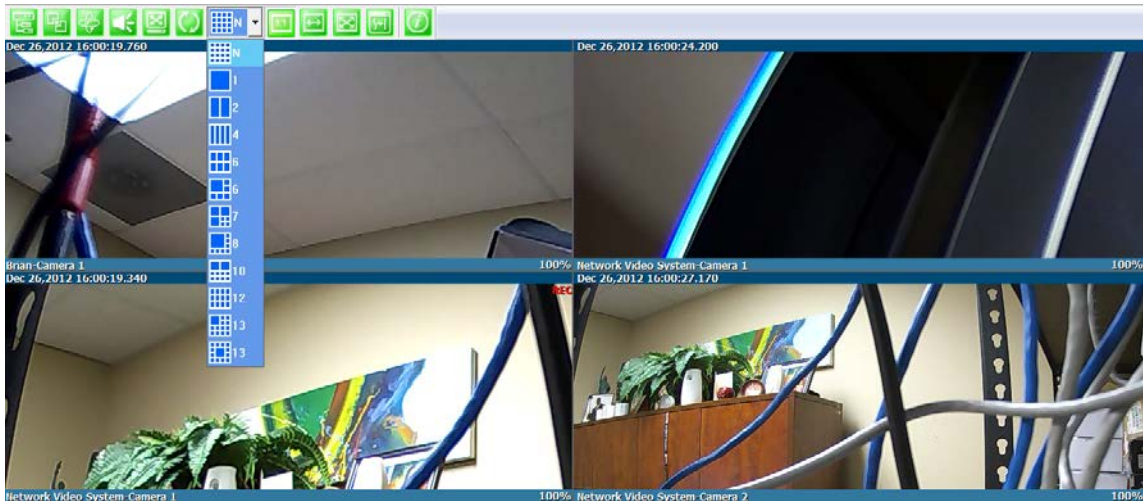
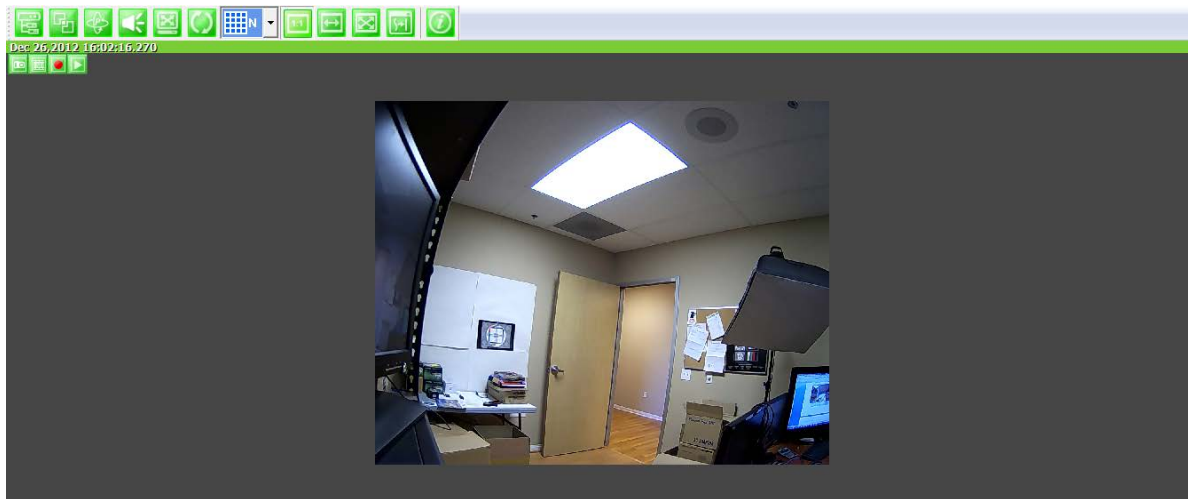


Image in Original Size



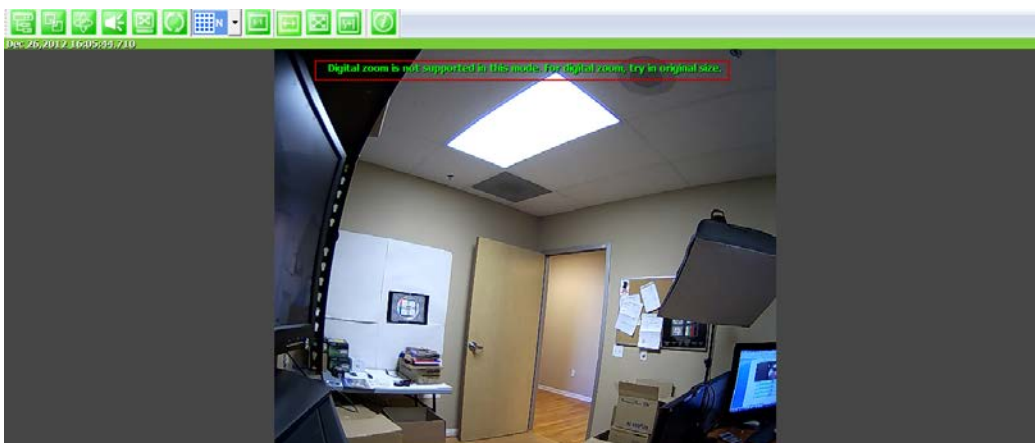
This allows for digital zoom.



Draw Image by Maintaining Aspect Ratio



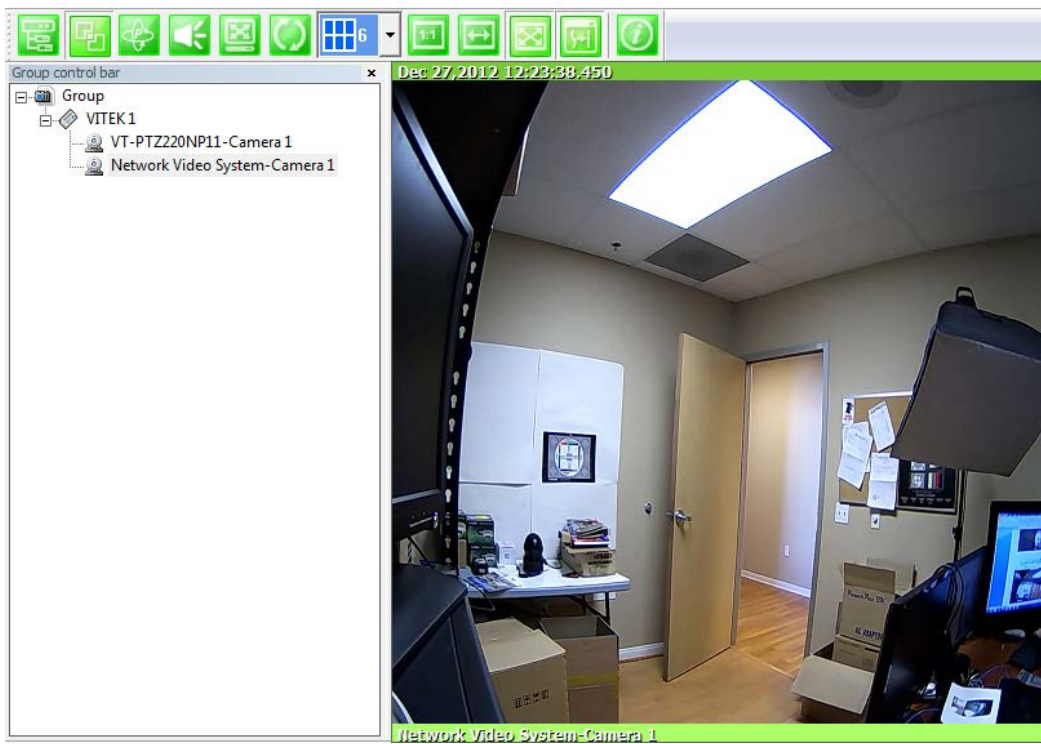
Maintains the aspect ratio of the camera



Draw Image by Filling the Screen



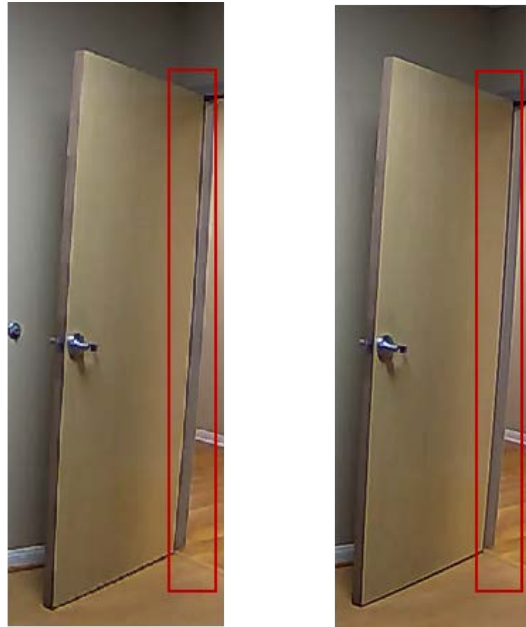




Enhanced Draw Mode On/Off.

Enhance image for a better reproduction.

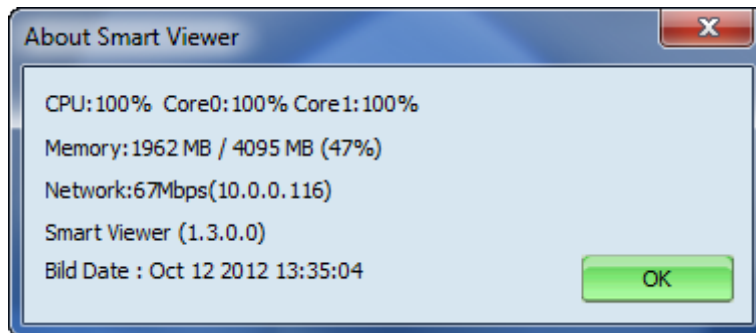




About Smart Viewer

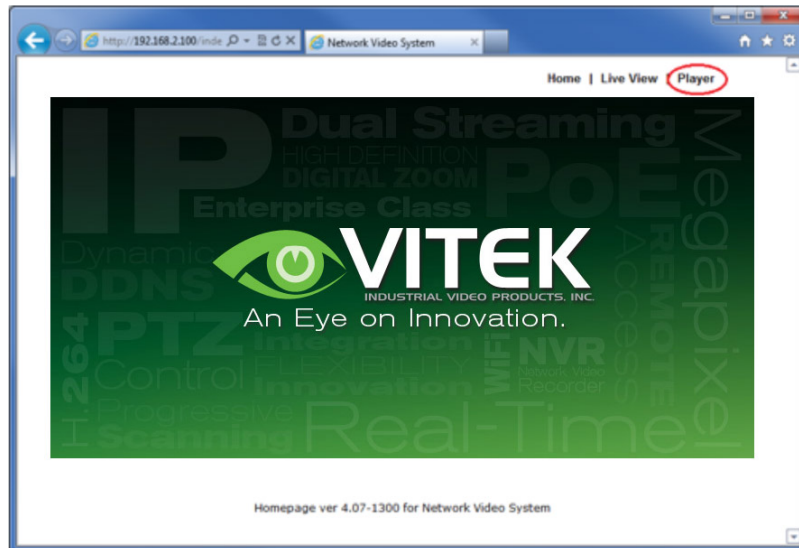


You can see the status of the Smart Viewer

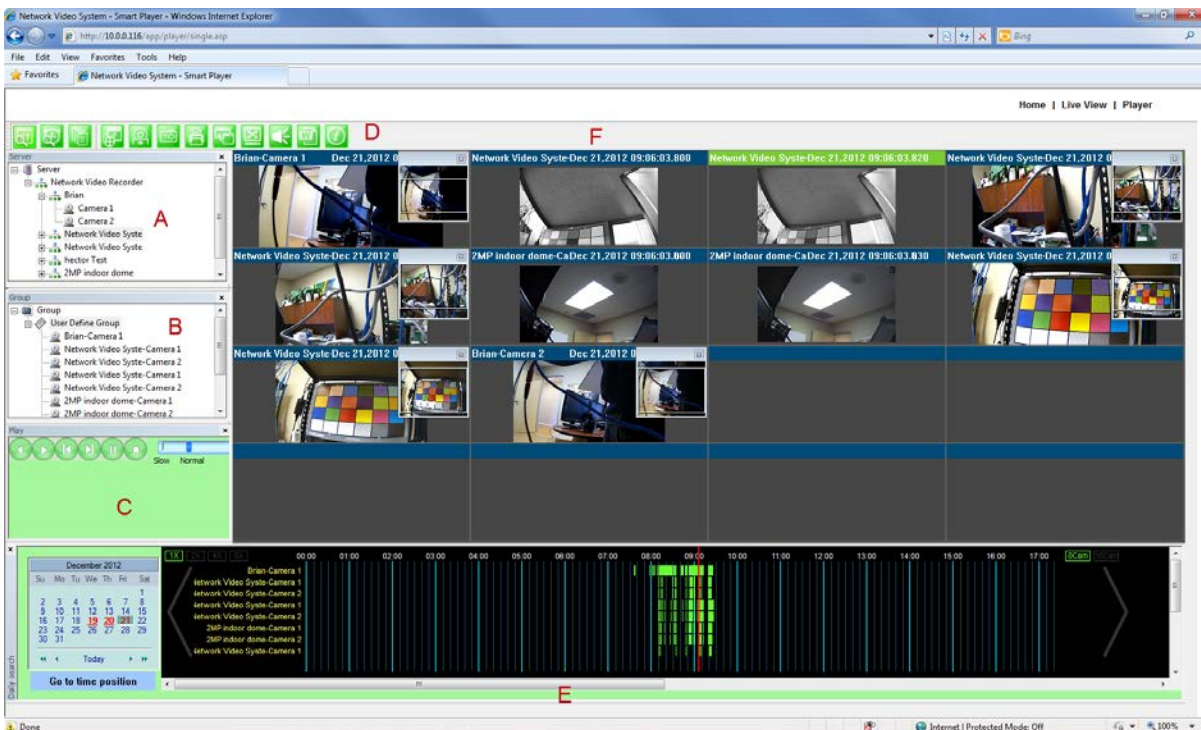


### 30. Configuring & Viewing Player

From the Home Screen click on **Player**



### 30.1. Main Window View



**Note:** The appearance of Smart Player window may vary depending on version and type of Vitek device you're using. This user's manual is based on general display screen.

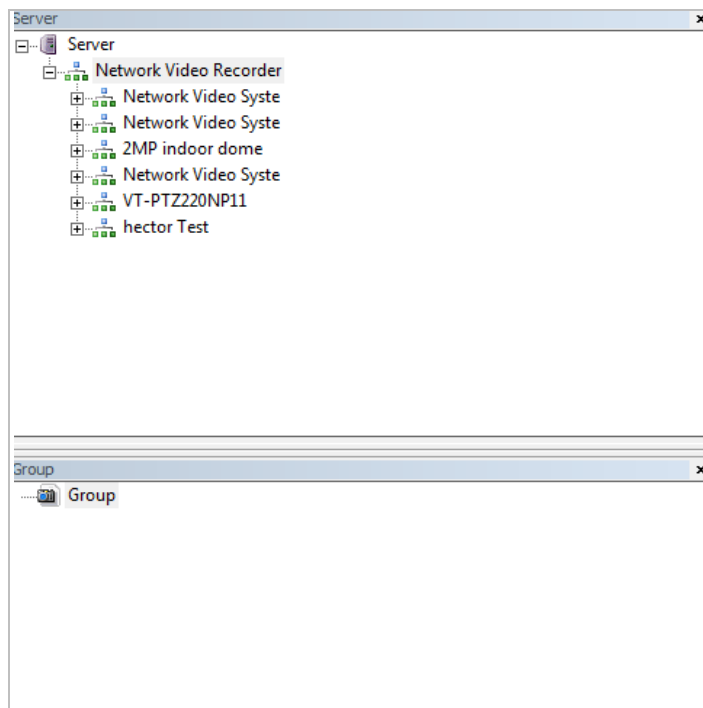
Server Control  
Bar A

Allows you to view cameras / servers that are registered in the system.

Group Control Bar <b>B</b>	You can compose a new group by dragging&dropping servers, modules, and cameras into a group. Grouping provides search function of recorded video from cameras.
Playback Control Bar <b>C</b>	Users can use this bar for functions such as forward/reverse play, previous frame, next frame, pause, stop, playback speed.
Control Tool Bar <b>D</b>	Users can change search mode between calendar, condition, and data. It also provides additional features such as backup and snapshot.
Time Line Control Bar <b>E</b>	Search condition (calendar, condition, and data) can be refined in this bar.
Display screen <b>F</b>	This screen shows multiple numbers of recorded videos.

### 30.2. Connecting to NVR Player

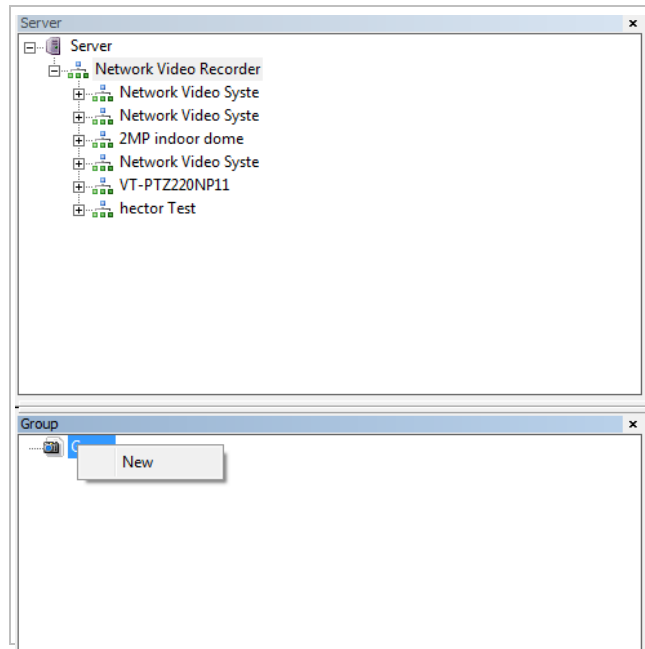
In order to playback video, cameras must be assigned to a Group, in this section you create groups with cameras you want to playback. Playback directly from cameras with SD card installed will have "Group" automatically created and the camera assigned to that "Group"



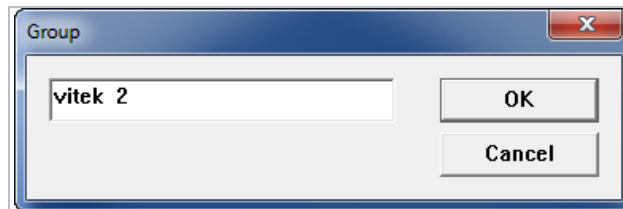
### 30.3. Creating a Group

In order to generate a group in Group Control Bar, right click on **Group**, another window will appear then select **New**.

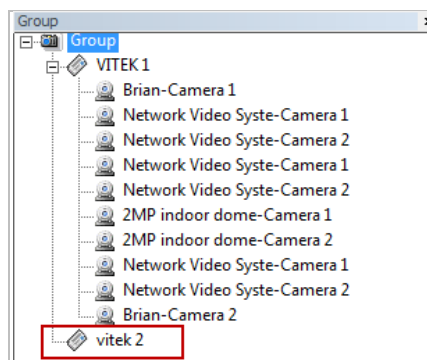
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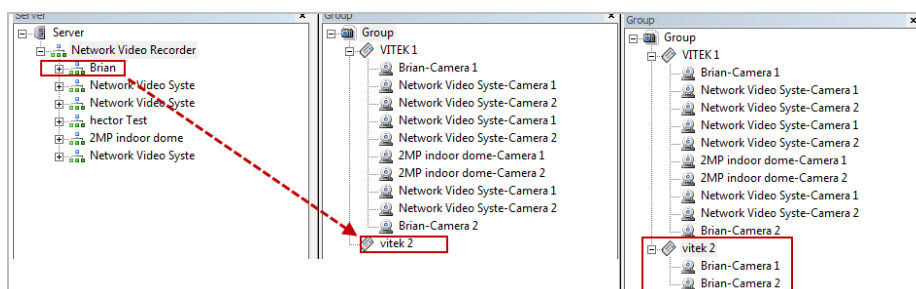
The following window will be displayed. Type in the group name and click **OK**.



A new group with the assigned name will be created as shown below.

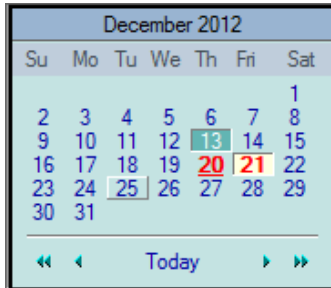


To add a camera to the new group, drag and drop from the server tree to the newly created group.



### 31. Searching Video

Make sure you have recorded video on the calendar (recorded video shows in red).

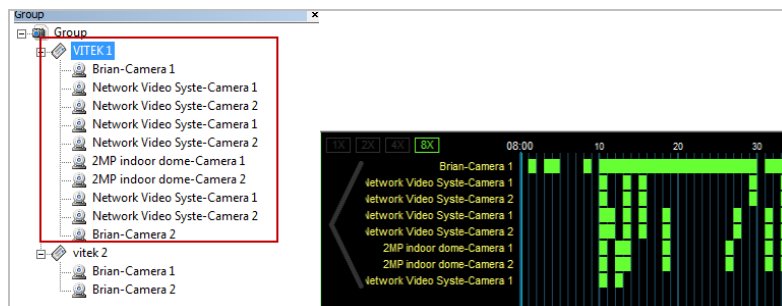


There are three choices in searching recorded video - Day Search, Condition Search, and Data Search. Make sure that Camera / Server Connection and Creating Group have been performed before you search recorded video.

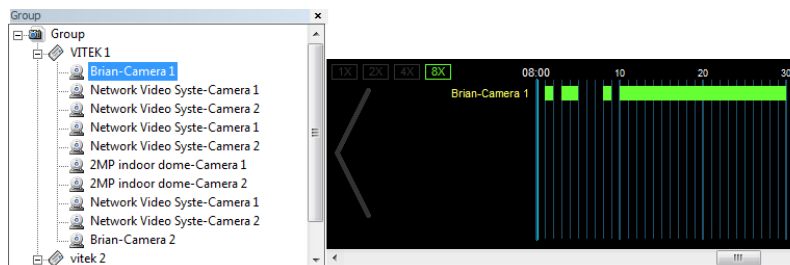
#### 31.1. Searching Video

To search and playback video, Smart Player requires one or more groups to exist. If a search is executed on the basis of a selected group, a search will be performed on all the cameras in that group. If a search is executed on the basis of a single camera, the search will be performed only from that camera.

For example, if you select a group and start searching; the search from that group will be displayed



If you only select "Brian-Camera 1", the searching will be performed only on the video from that.



#### 31.2. Daily Search



Select date from calendar than select time from the time bar.

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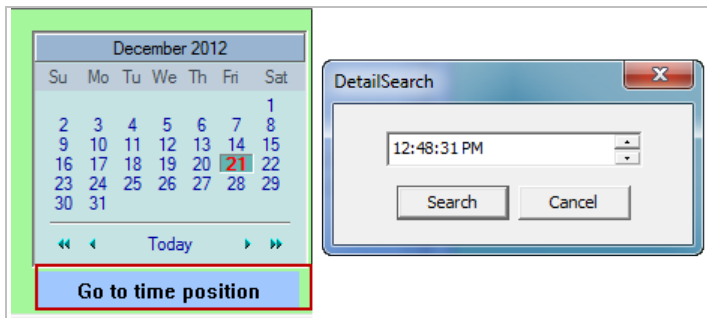


**31.2.1. Search Mode**

By clicking a date in red on the calendar, the time frame recorded is shown.

**31.2.2. GO to Time Position**

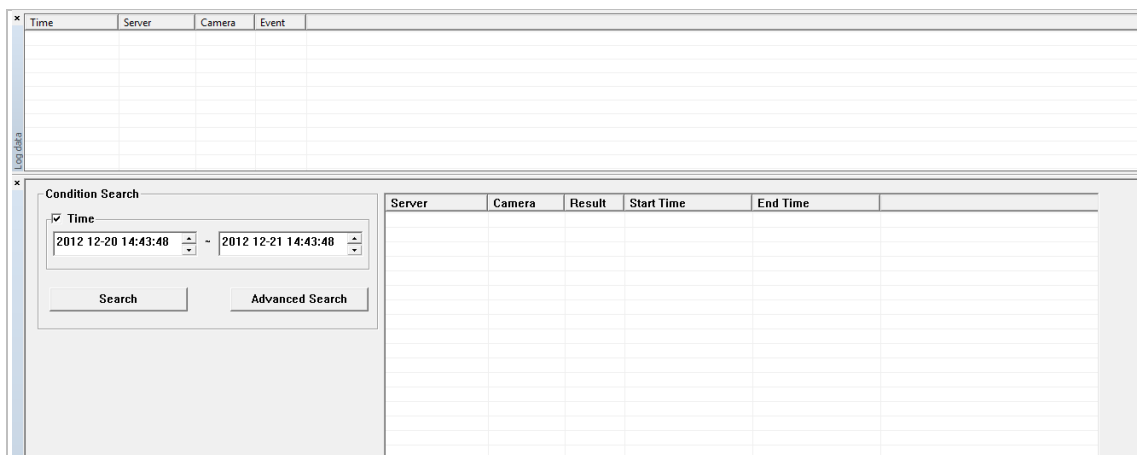
To go to specific time click on "Go to time position" than input time and click search.



**31.3. Condition Search Mode**



In this mode, you can search for video on the basis of combination of 3 different conditions, which are Time, Motion, and Sensor. Initially only Time condition is available for searching, and you need to enter **Advance Search** mode to utilize Motion and Sensor state if necessary.



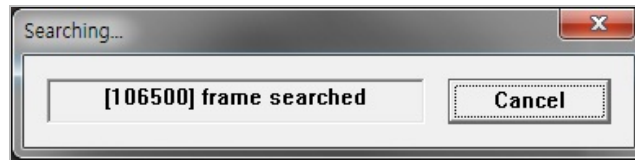
**Search**

Select time and date from beginning to end of search criteria. Then click **Search**.

The following window will be displayed to inform you of the search progress. If any results are found, the



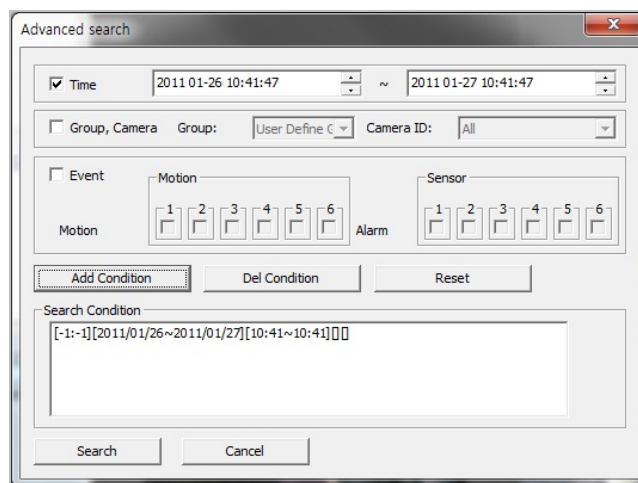
video will start playing back right after searching is completed.



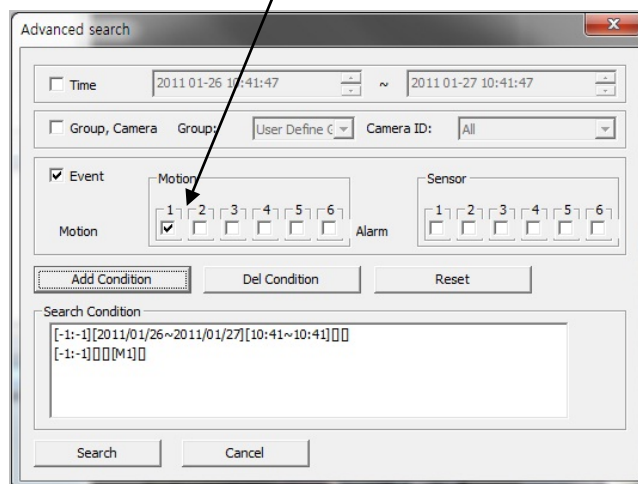
### 31.3.1. Advanced Search Mode

In Advance Search Mode you can select which conditions to search from (Time, Event, etc)

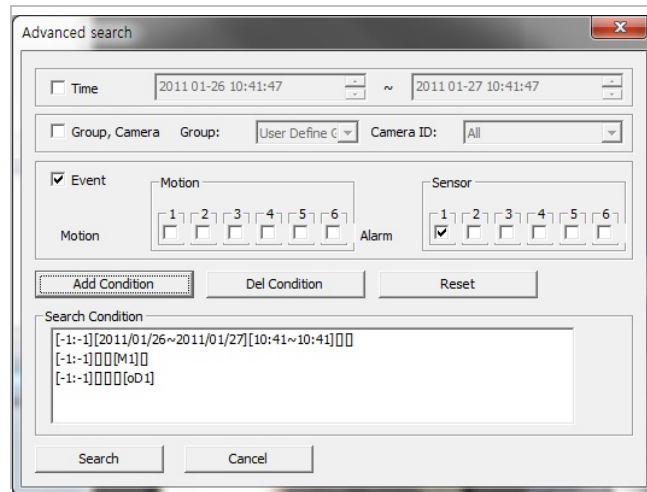
First, select **Time** checkbox, and choose the desired time frame (Start date and time ~ End date and time), and then click **Add Condition** button to add to **Search Condition**.



Now select **Event** checkbox, and choose **Camera 1** from **Motion**, and then click **Add Condition** button to add to **Search Condition**.

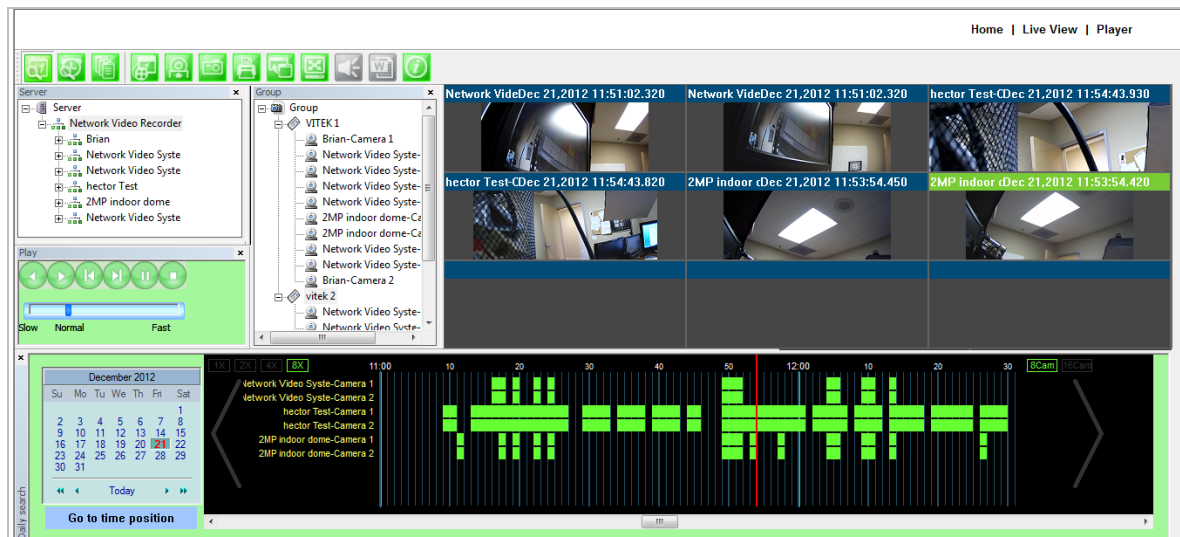


Next, select **Event** checkbox, choose Sensor 1, and then click **Add Condition** button to add the Sensor condition to **Search Condition**.



Now that all the conditions have been configured, click **Search** button to start searching. Any video data which meets at least one of the conditions in **Search Condition** list will be shown as the results.

## 32. Video Playback Controls



Play Reverse





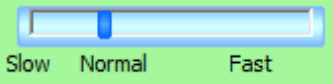
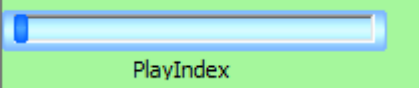
Play Forward



Pause



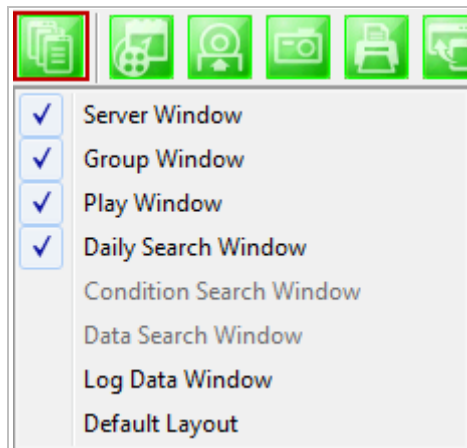
Stop

	Back to Previous Frame
	Go to Next Frame
	Playback Speed Control
	Player Path Control (only for condition search mode)

### 33. Extra Features

#### 33.1. Window Control

Users can open or close control windows.



#### 33.2. Recording Period

You can view the starting and ending date of a recorded channel.



Record time is displayed as shown below.

Server	Camera	Start Time	End Time
Brian	Camera 1	12/21	12/26
Brian	Camera 2	12/21	12/26
Network Video Syste	Camera 1	12/21	12/26
Network Video Syste	Camera 2	12/21	12/26
Network Video Syste	Camera 1	12/21	12/26
Network Video Syste	Camera 2	12/21	12/26
hector Test	Camera 1	12/21	12/26

### 33.3. Backup

There are two backup formats IDX and AVI.

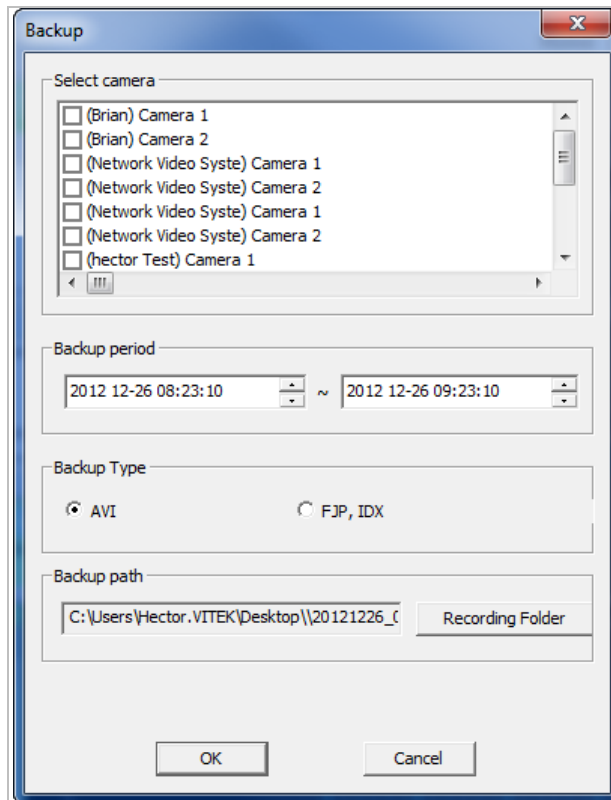
---

.IDX	Default video file format used by Vitek
.AVI	Video file format supported by Microsoft Windows

---



When the **Backup** button is clicked, the following window is displayed as below.

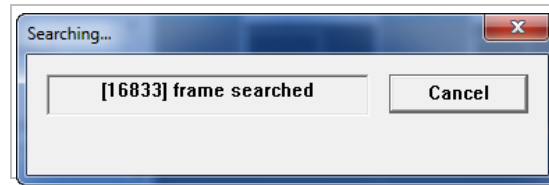


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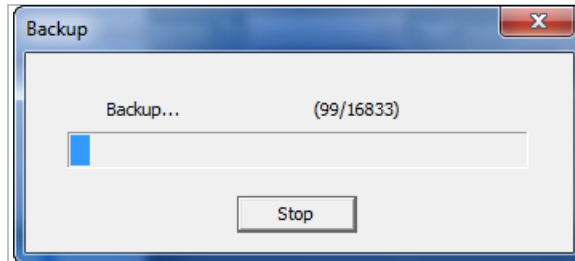
Select Camera	Check the camera to backup. For <b>AVI</b> backup, only one camera is permitted. For <b>FJP, IDX</b> , multiple backup is allowed.
Backup Period	Select the time frame (Start date and time ~ End date and time) to backup.
Backup Type	Select either <b>AVI</b> or <b>FJP, IDX</b> format.
Backup Path	Select the HDD path where the backup file will be saved.

---

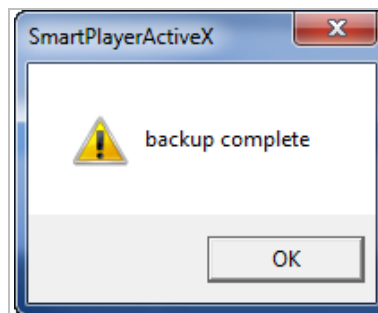
After selecting the parameters, click **OK** then the following window will display.



After searching is finished, backup operation will start.



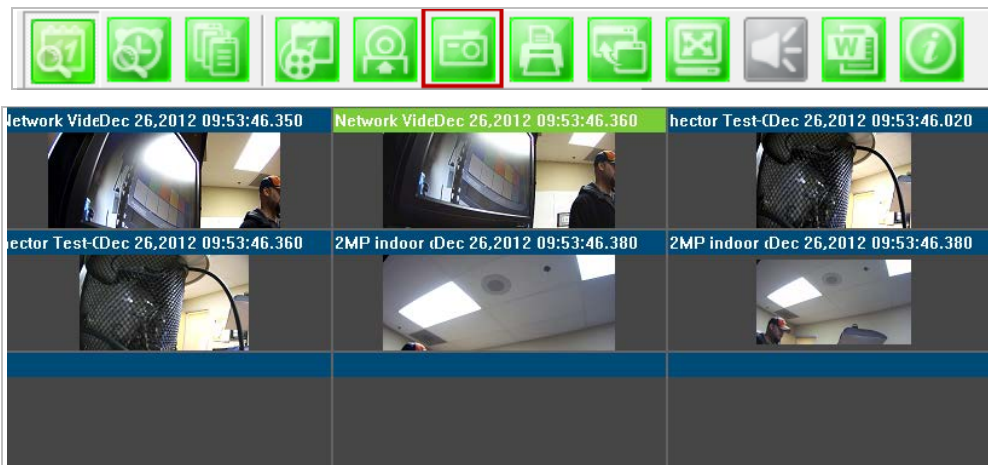
When backup is completed, the following window will appear. Click **OK** button.



*Note: For AVI file backup, only one camera is allowed. For IDX backup, multiple cameras are allowed.*

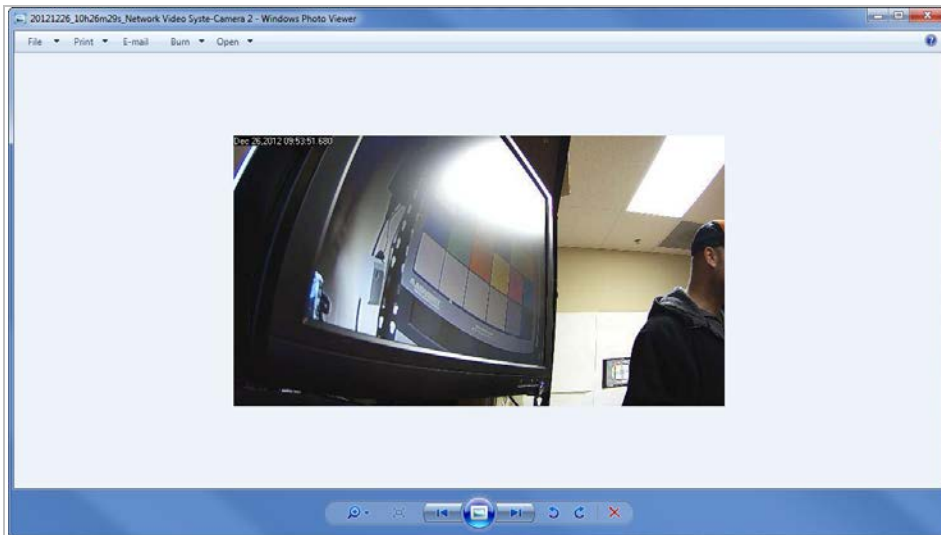
### 33.4. Snapshot

Choose the camera currently being played or paused, click **Snapshot** button. Then a snapshot file will be saved in a designated path.



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The below picture is a result of snapshot from the above window.



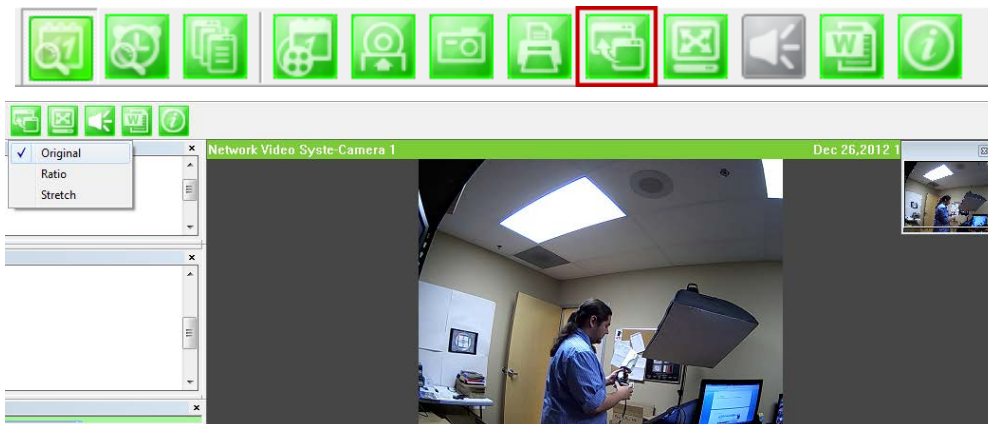
### 33.5. Print

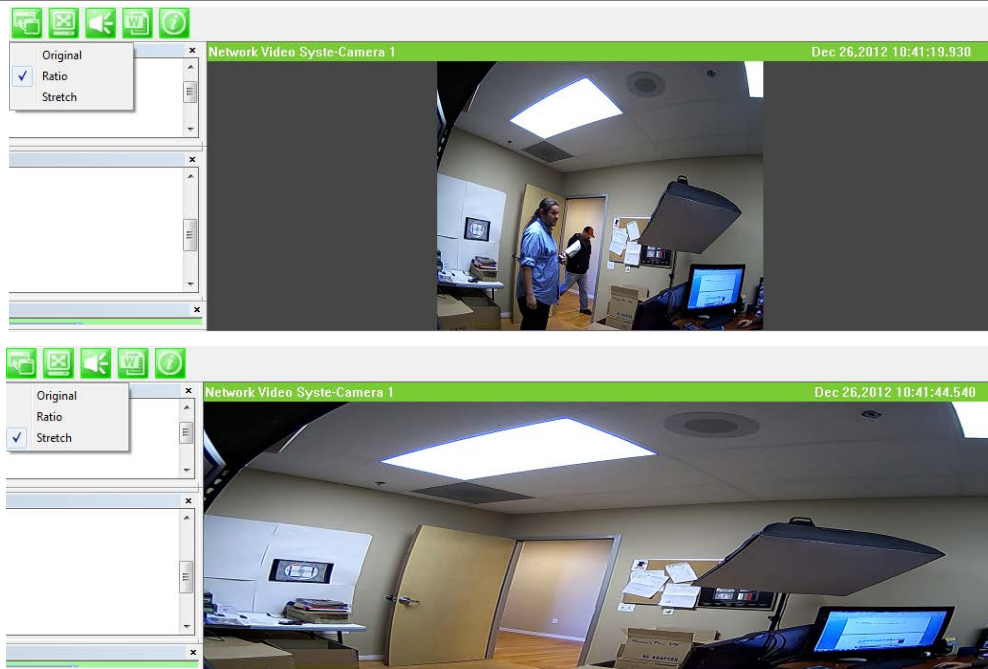
Choose the camera currently being played or paused, then click **Print** button. Then the image of the selected camera will be sent to your default printer.



### 33.6. Ratio Display

You have three options to view videos, which are **Original**, **Ratio**, and **Stretch**.



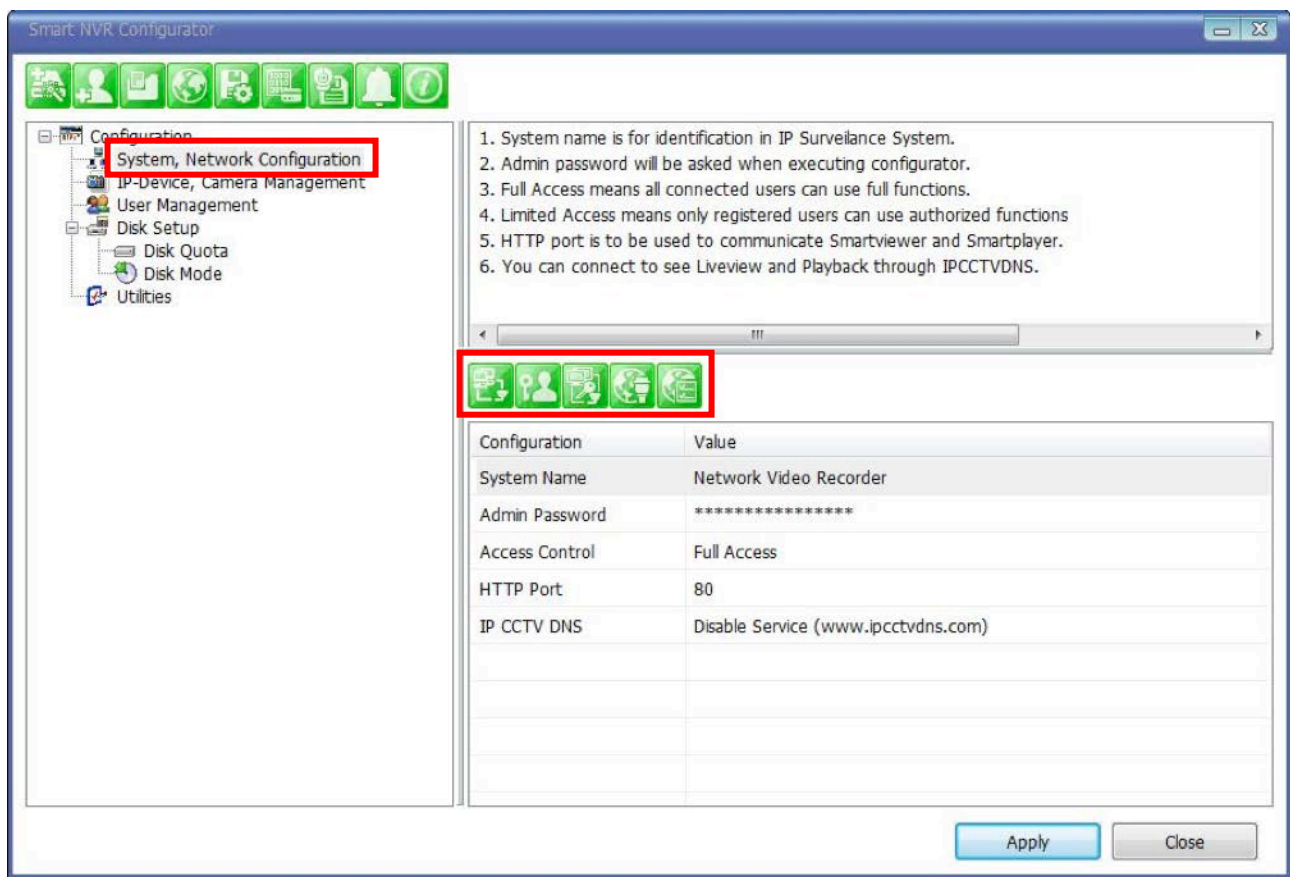







## 34. EN-V-R Configuration

### 34.1. System, Network Configuration

General system and network properties of EN-V-R program can be set up in this section. To start, select **System, Network Configuration** from the menu list.



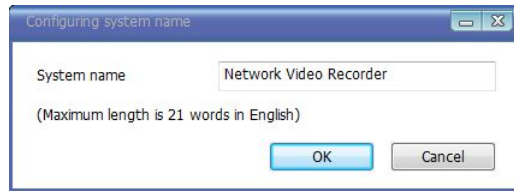


Items	Descriptions
 System Name Setting	Enter the system's name.
 Set up Admin password	Modify the password for Admin.
 Access Control	Configure the access privileges of users.
 HTTP Port Assign	Assign an HTTP Port for EN-V-R Service.
 Configure IP-CCTV DNS	Configure IP-CCTV DNS for EN-V-R Service

### 34.1.1. Configuring System name



To name the system, click configuring system name, the following window will be displayed. Change the name as desired.

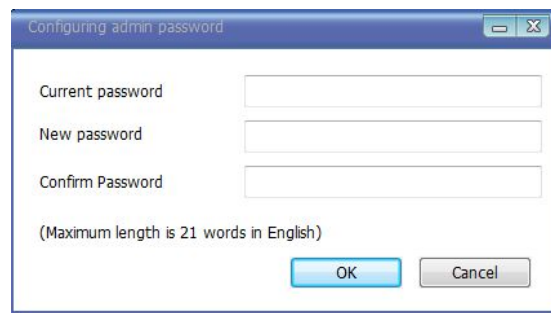


Items	Descriptions
System name	Type in a System name.
OK	Click this button to apply the entered System Name.
Cancel	Click this button to discard the configured System name.

### 34.1.2. System, Network Configuration - Admin password



To assign Password for the admin, click **System, Network Configuration** on the menu tree. Click configure admin password

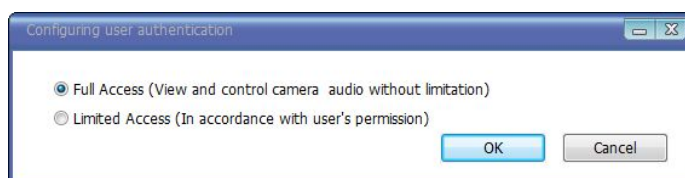


Items	Descriptions
Current password	Enter the Current password.
New password	Enter a new password to use.
Confirm Password	Enter the new password again to confirm.
OK	Click this button to apply the changed password.
Cancel	Click this button to discard the change.

### 34.1.3. System, Network Configuration - Access Control



To configure User Access Control, click **System, Network Configuration** on the menu tree. Click configure access control



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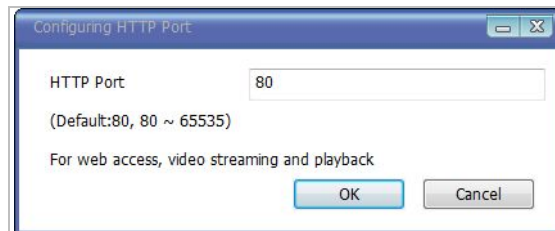
Items	Descriptions
Full Access	Set Full Access for the user. Anyone can connect to the EN-V-R without authentication, and be allowed live view, audio, PTZ, playback.
Limited Access	Set Limited Access for the user. Only the users with proper permission to the camera can access it.
OK	Click this button to apply the change.
Cancel	Click this button to discard the change.

---

### 34.1.4. System, Network Configuration - HTTP Port



To configure HTTP port to use, click **System, Network Configuration** on the menu tree. Then click Change HTTP Port



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Items	Descriptions
HTTP Port	Enter a HTTP Port to use in the EN-V-R Service. (Default is 80)
OK	Click this button to apply the changed HTTP port number.
Cancel	Click this button to apply discard the changed port number.

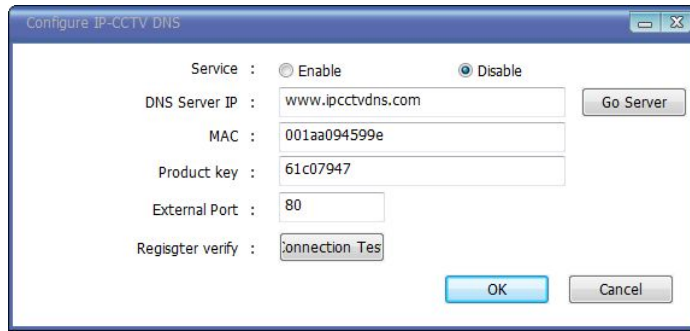
---

*Note: If a firewall is enabled in your Windows, you should set the above HTTP port number to be allowed in your computer.*

### 34.1.5. System, Network Configuration - IP-CCTV DNS



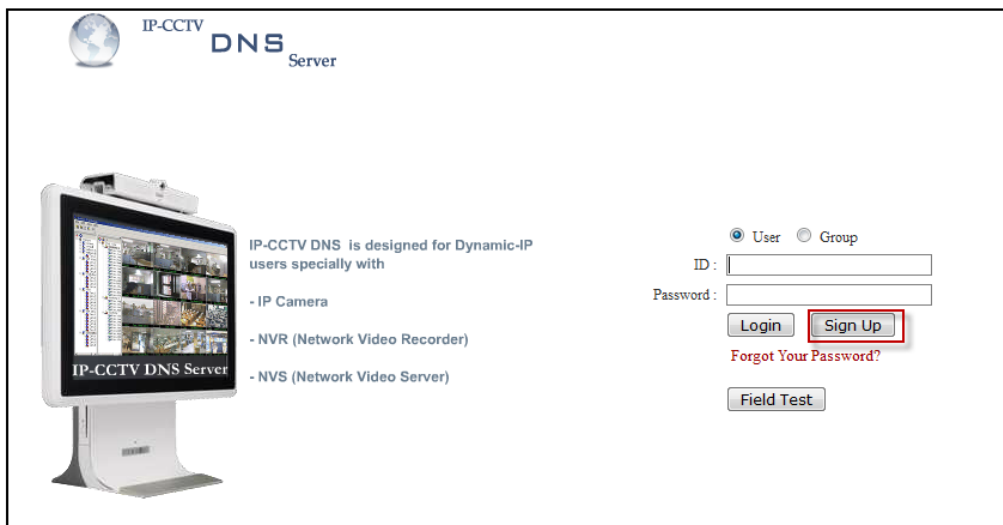
To configure IP CCTV-DNS, click **System, Network Configuration** on the menu tree. Click Configure IP-CCTV-DNS



Items	Descriptions
Service	Set to use IP CCT DNS or not.
DNS Server IP	Vitek IP CCTV DNS address already entered.
Go Server	Directs to Vitek IP CCTV DNS server
MAC	MAC address of EN-V-R already entered
Product Key	Product Key of EN-V-R already entered
External Port	Enter an external HTTP Port to use for IP CCTV DNS service. (Default is 80)
Register verify	Click to test the connection with IP CCTV DNS server after setting is done in IP CCTV DNS server.
OK	Click this button to apply the changed IP CCTVV DNS settings.
Cancel	Click this button to discard the changed IP CCTV DNS settings

### 35. IP-CCTVDNS Registration

To register your camera / server please visit <http://www.ipcctvdns.com>



If this is your first visit your need to **Sign Up** if you abide by the Agreement, click on "I Agree" than on the NEXT button as shown below.

The screenshot shows the 'Sign Up' page for the IP-CCTV DNS Server. At the top left is the logo 'IP-CCTV DNS Server'. Below the logo is the heading 'Sign Up' and a sub-heading 'Agreement'. The main content area is a large box titled 'IP-CCTV DNS Service Agreement' containing two numbered terms:

1. If no access more than three months, IP-CCTV DNS's administrator may delete or edit the registered information at discretion.
2. By the extension of any new value-added features at IP-CCTV DNS, a few of them may become pay services.

Below the agreement box are two radio buttons: 'I Agree' (which is selected) and 'I do not Agree'. At the bottom center is a 'Next' button.

Fill out the requested information as shown below and click on **Apply**.

The screenshot shows the 'Sign Up' page for the IP-CCTV DNS Server, specifically the 'Membership' section. The form contains the following fields:

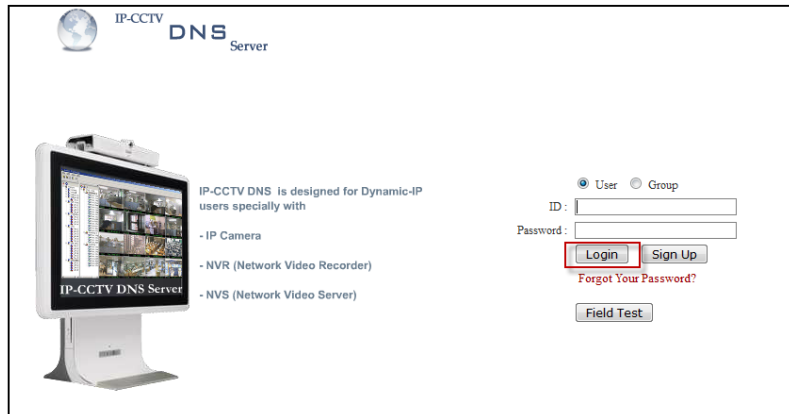
ID [E-Mail] *	vitek@vitekctv.com	check
Password *	.....	
Confirm Password *	.....	
Name *	VITEK	
Company	VITEK	
Telephone *	6612948043	
Mobile Phone	6612948043	
Address	28492 Cosntellation Rd Valencia CA 91355	
Country *	Los Angeles (USA)	
Description		

At the bottom of the form are 'Apply' and 'Reset' buttons.

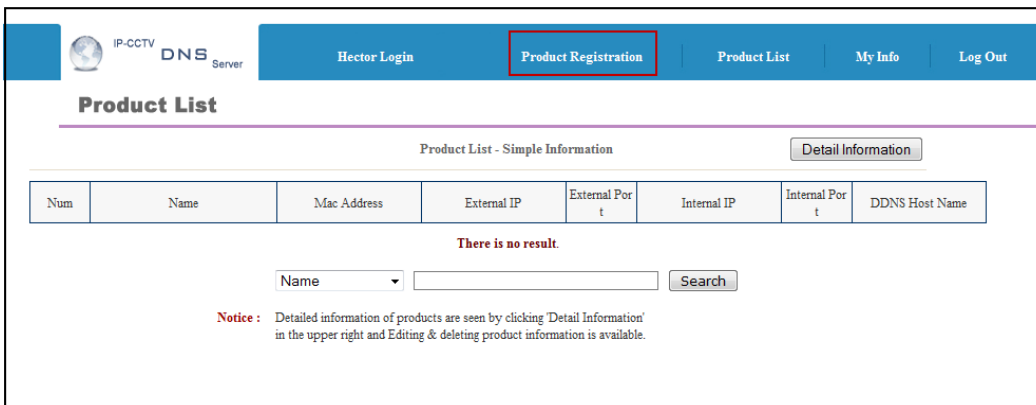
The following screen will confirm that your Membership has been completed successfully, that click **OK**.

The screenshot shows a simple confirmation dialog box with a light gray background. The text inside reads 'It has been completed successfully.' At the bottom center is an 'OK' button.

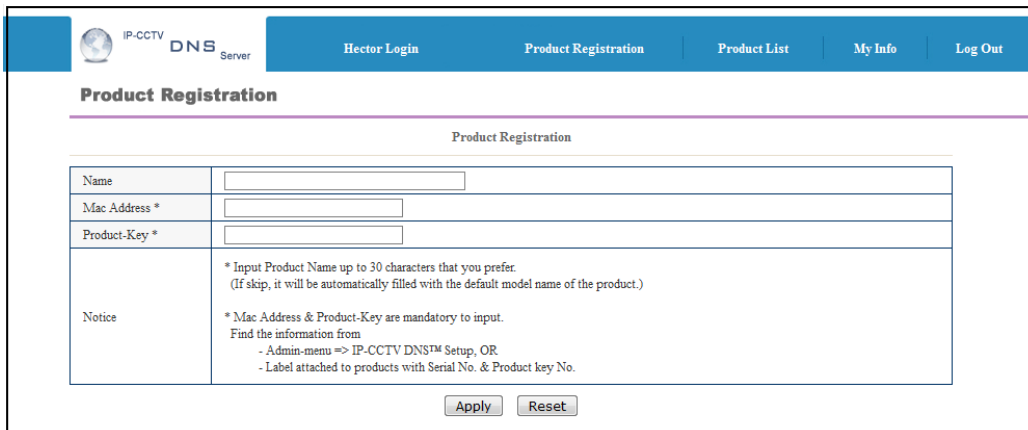
You will be brought back to the main page of the IPCCTVDNS website; in this case you need to **Login** with the information previously created.



To register your first product, click on **Product Registrations** as shown below.



Enter the requested information (The name of your camera, the Mac Address and product Key) as shown below.

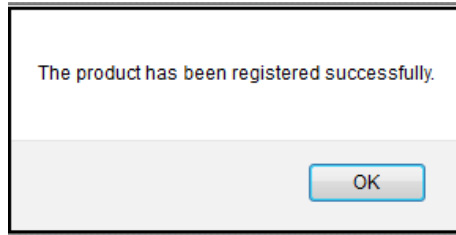


Note that the Mac Address and the product Key will be available under the [Network Configuration >> IP-CCTV DNS setup](#) in the camera menu. Please see image below.

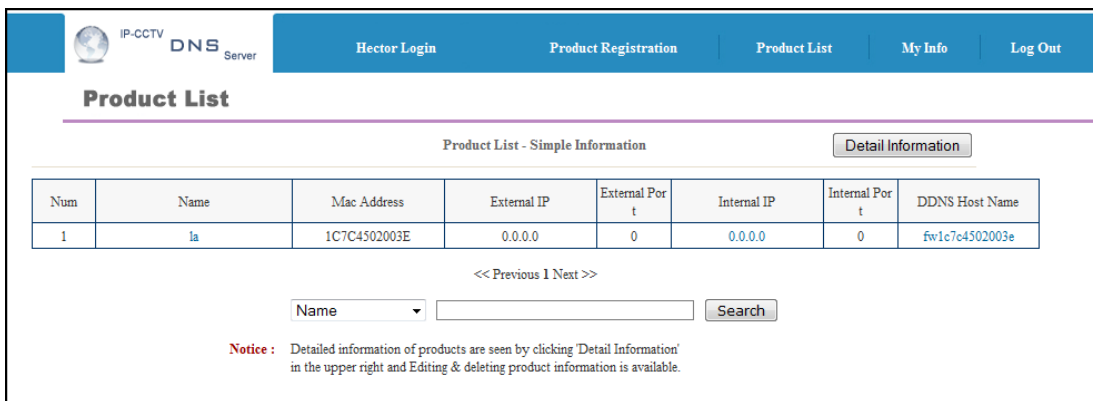
**IP-CCTV DNS™ Setup**

Service	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
DNS Server IP	<input type="text" value="www.ipcctvdns.com"/> <input type="button" value="Go"/>
Mac Address	1C7C4502003E
Product-Key	01FBA6C8
IP-CCTV DNS Registration verification	<input type="button" value="Confirm"/>

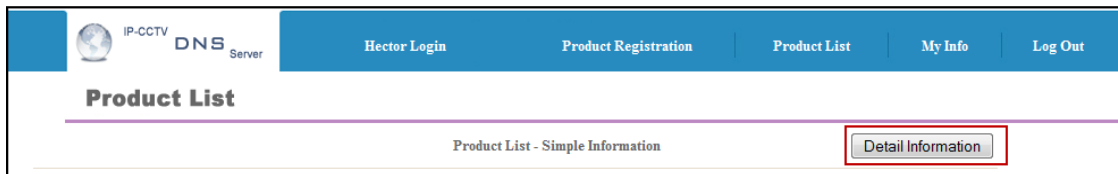
A window will pop up confirming that your product has been registered successfully, click on **OK**.



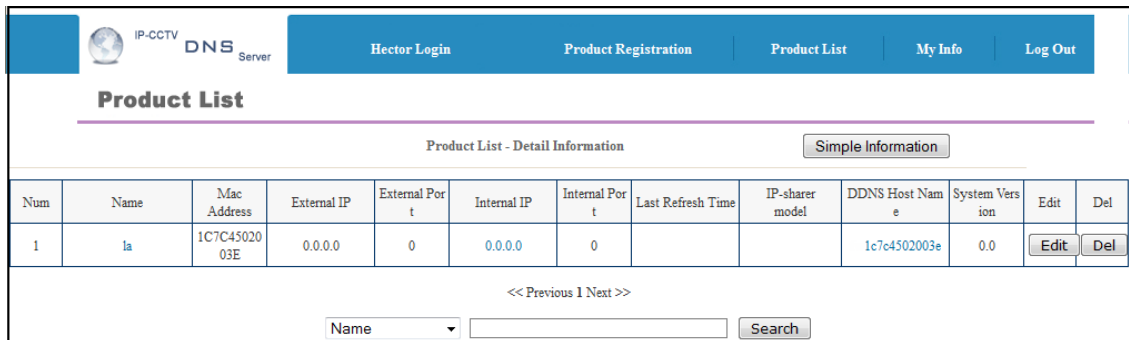
You will be directed to the *Product List* page where you will be able to see your recent camera registration.



By clicking the **Detail Information** tab you will be allow edit DDNS Host Name



Click Edit to change the DDNS Host Name.



Type in desired host name than click **Apply**.



A window will pop up asking if you really want to apply the new configurations, to continue click **OK**.

A window will pop up confirming that the product information has been modified successfully, click **OK**.

Click under **Product List** to view your changes

Your camera with the new DDNS Host name will be displayed.

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The screenshot shows the 'Product List' page of the VITEK IP-CCTV DNS Server. The page has a blue header with navigation links: 'Hector Login', 'Product Registration', 'Product List', 'My Info', and 'Log Out'. Below the header, the title 'Product List' is displayed. There are two tabs: 'Product List - Simple Information' (selected) and 'Detail Information'. A table lists the product information:

Num	Name	Mac Address	External IP	External Port	Internal IP	Internal Port	DDNS Host Name
1	la	1C7C4502003E	0.0.0.0	0	0.0.0.0	0	vitek1sttest

Below the table, there are navigation links '<< Previous | Next >>' and a search form with a 'Name' dropdown, an input field, and a 'Search' button.

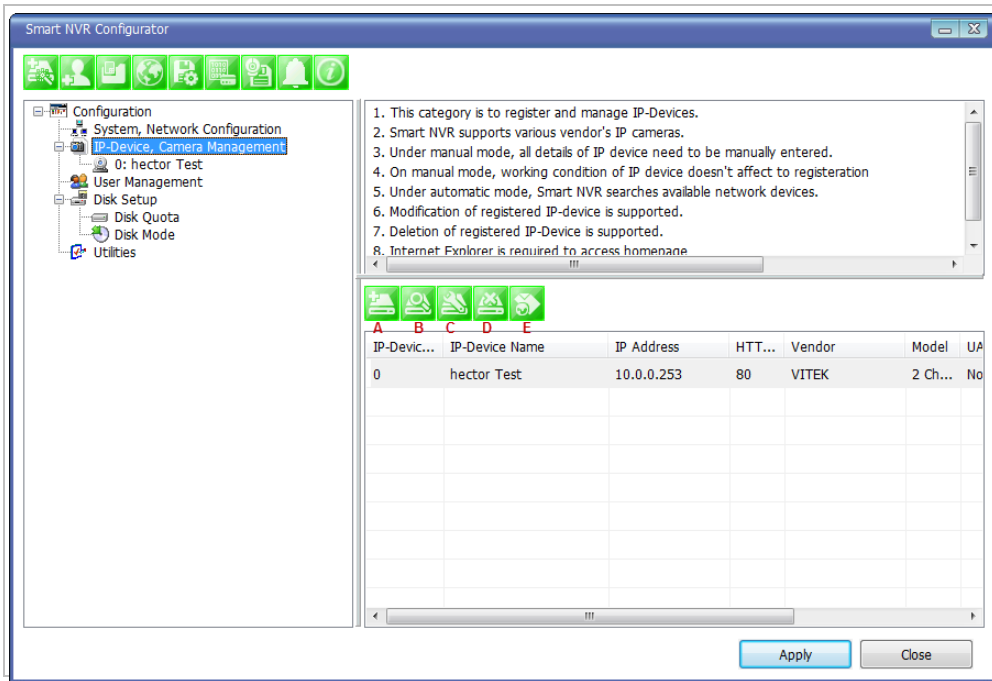
Your camera is now registered and ready for use.






The screenshot shows a web browser window with the address bar containing 'http://www.vitek1sttest.ipcctvdns.com/'. The browser's menu bar includes 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. The page content features the VITEK logo with the tagline 'An Eye on Innovation.' and the text 'INDUSTRIAL VIDEO PRODUCTS, INC.'. Below the logo, there is a green background with various technical terms like 'Dual Streaming', 'Enterprise Class', 'Real-Time', and 'Megapixel'. At the bottom of the page, the following information is displayed:

Model : VTD-13FN, Firmware ver 4.16-B0-ds-VI  
Homepage ver 4.16-B0\_VI for [Network Video System](#)

## 36. IP-Device Registration

You will see how to manage IP devices in this section, which includes registering, modifying, and deleting IP devices. To start managing IP devices, select **IP-Device, Camera Management** from the menu list.



Items	Descriptions
 A IP-Device Manual Registration	Register IP-Devices manually by users.
 B IP-Device Automatic Registration	Scan and register IP-Devices automatically by the program.
 C IP-Device Modification	Modify the information of registered IP-Devices.
 D IP-Device Deletion	Delete IP-Devices previously registered.
 E IP-Device Homepage	Go to the homepage of the IP-Device.

### 36.1. IP-Device Registration (Manual)



To manually register an IP-Device, click **IP-Device, Camera Management** on the menu tree. Click Register IP device manually.

Item	Description
A	IP-Device ID
	Select the IP-Device ID to register.

Select the Vendor name of the IP-Device to register. Click the pull-down list, and choose a proper vendor name from the list.

B Vendor

- None
- VITEK**
- Panasonic MJPG
- Axis MJPG
- Mobotix MJPG
- Vivotek MJPG
- IQinVision MJPG
- Arecont MJPG
- Appro MJPG
- Axis MPEG4
- Acti
- Truen H264
- Arecont H264
- Vivotek MPEG4
- Vivotek H264
- AVTech MJPG
- AVTech MPEG4
- AVTech H264
- Axis H264
- 3S MJPG
- 3S H264

C	Model
	Select the total number of channels (streams) the IP device has. Click the pull-down list, and choose proper one from the list.

IP-Device ID: 1  
 Vendor: VITEK  
 Model: 1 Channel Model

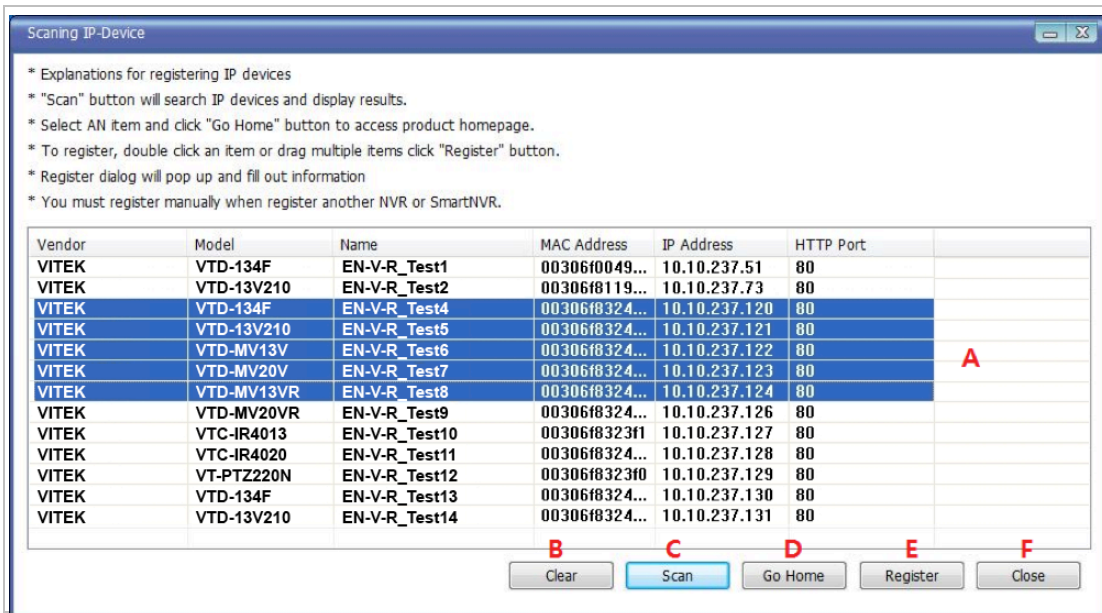
<b>D</b>	Name	Type in the name of the IP-Device.
<b>E</b>	IP Address	Type in the IP Address to use with the IP-Device. IPCCTVDNS or URL addresses are also supported. (If Input IP Address Range box is checked, then the starting address of the range will be selected.)
<b>F</b>	Input IP Address Range	Enter the last IP address of the range.
<b>G</b>	Getting Information from IP-Device	Check this box if the information from IP-Device needs to be acquired.
<b>H</b>	VS Module ID	Select the VS Module ID. Enter 0 for non-Vitek IP devices. Vitek products can be set to 0 to 15, and default is 0.
<b>I</b>	HTTP Port	Enter the HTTP Port to use with the IP-Device. (Default is 80)
<b>J</b>	RTSP Port	Enter the RTSP Port (Default is 554)
<b>K</b>	Login ID	Type in the Login ID to use. (Default is root)
<b>L</b>	Login Password	Type in the Login Password to use for the Login ID. (Default is root)
<b>M</b>	Confirm Password	Type in the same password to confirm. (Default is root)
<b>O</b>	Checking available resolution	Select the Video Resolution for the device. <i>Not used, all resolution is done at camera level</i>
<b>P</b>	Checking available PTZ camera	Checkboxes to choose if PTZ is supported on the IP device.
<b>Q</b>	OK	Click this button to apply the configured values.
<b>R</b>	Cancel	Click this button to discard the configured values.

**36.2. IP-DeviceRegistration (Automatic)**



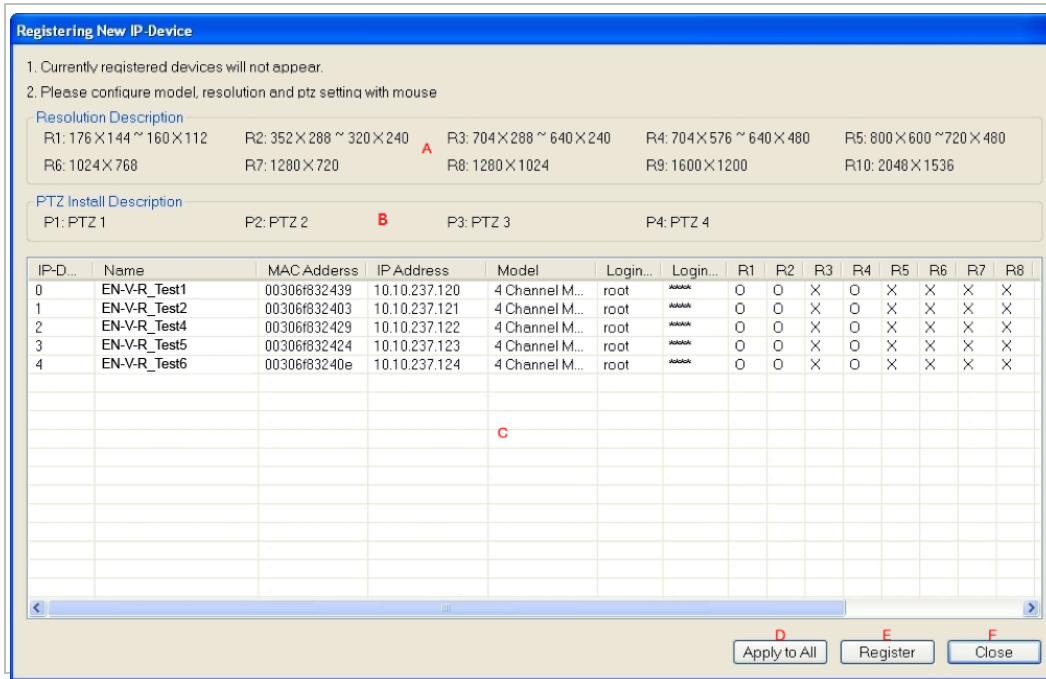
To register an IP-Device by automatic scanning, click **IP-Device, Camera Management** on the menu tree. Then Click Scan available IP devices and register

**ENVI Series: VTC-IR40-N**



Items	Descriptions
A IP-Device list	This list shows the IP devices found during the scan process. If you need to select multiple IP devices at the same time, drag your mouse over the devices or keep pressing CTRL or SHIFT key while clicking the IP devices.
B Clear	Clear the scanned IP Devices from the list.
C Scan	Start scanning for IP Devices on the network.
D Go Home	Go to the home page of the IP device selected from the list.
E Register	Go to the registration window for the IP Device selected.
F Close	Cancel the registration of the IP device and exit the window.

When you click the **Register** button after selecting more than one IP devices on the scanned device list, the following window will be displayed. You can register those IP devices to your EN-V-R in this window.



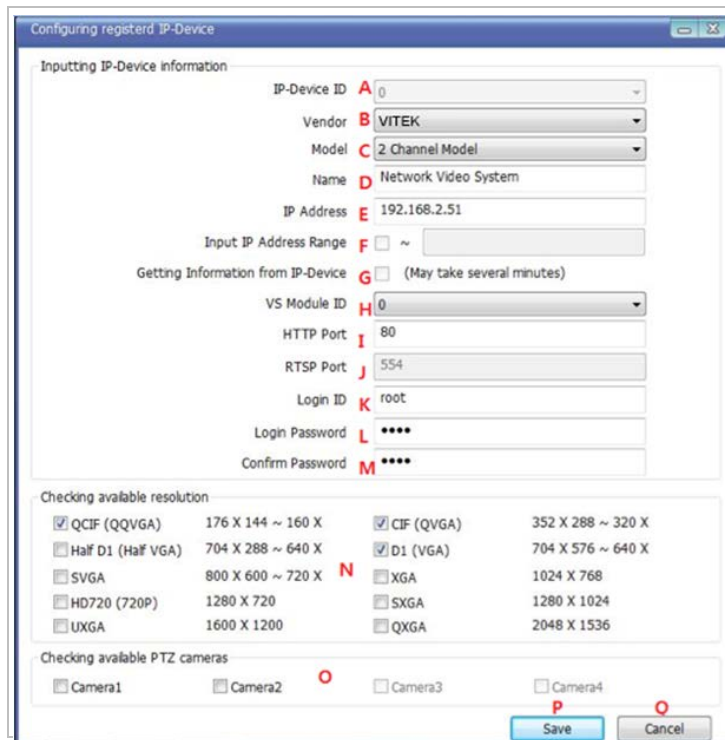
Items	Descriptions
A	Resolution Description Descriptions of the image resolution modes in the IP-Device list.(R1, R2, R3, R4, R5, R6, R7, R8, R9, R10)
B	PTZ Install Description Descriptions of the PTZ numbers in the IP-Device list. (P1, P2, P3, P4)
C	IP-Device list IP-Device list to select from.
D	Apply to All Click this button to copy the information of a selected IP-Device to all other devices.(Only Model, Login ID, and Login Password will be copied.)
E	Register Click this button to confirm and save the registered IP-Device added.
F	Cancel Click this button to cancel IP-Device registration.

**IP-DeviceModification**




To modify an IP-Device registration, Click Modify registered IP-Device





Items	Descriptions
A	IP-Device ID IP-Device ID is displayed. (not allowed to modify)
B	Vendor Select the Vendor of the device.
C	Model Select how many channels the device support.
D	Name Change the Name as required.
E	IP Address Enter the IP Address to use with the selected device.
F	Input IP Address Range (not allowed to modify)
G	Getting Information from IP-Device (not allowed to modify)
H	VS Module ID Select the VS Module ID. Enter 0 for non-Vitek IP devices. Vitek products can be set to 0 to 15, and default is 0.
I	HTTP Port Enter the HTTP Port to use with the IP-Device. (Default is 80)
J	RTSP Port Enter the RTSP Port (Default is 554)
K	Login ID Type in the Login ID to use. (Default is root)
L	Login Password Type in the Login Password to use for the Login ID. (Default is root)
M	Confirm Password Type in the same password to confirm. (Default is root)
N	Checking available resolution Select the Video Resolution for the device. <i>Not used, all resolution is done at camera level</i>
O	Checking available PTZ camera Checkboxes to choose if PTZ is supported.
P	OK Click this button to apply the changed values.

 Cancel      Click this button to discard the changed values.

### 36.3. IP-DeviceDeletion



To delete a registered IP-Device, click **IP-Device, Camera Management** on the menu tree in the left pane. Then select an IP device to be deleted from the list. Click Remove IP-Device registration

### 36.4. IP-DeviceHomepage

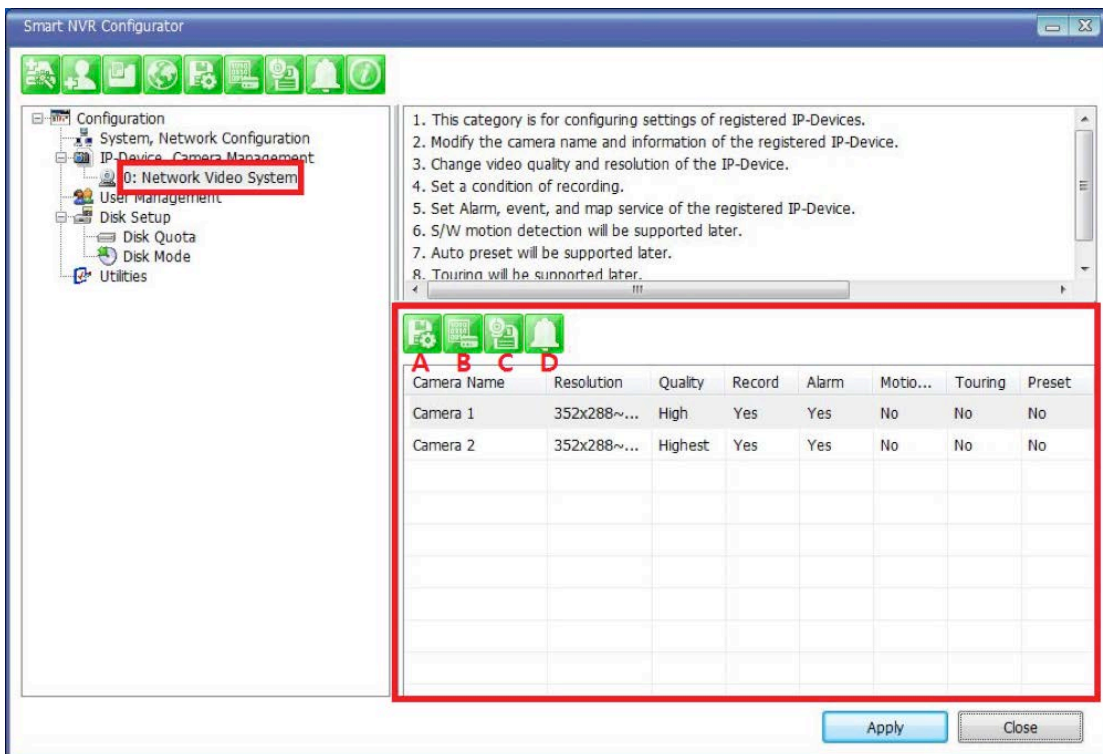


To go to the home page of an IP-Device, click the **IP-Device, Camera Management** on the menu tree. Then select the IP device. Click Go to IP-Device homepage

### 36.5. Camera Management

In this section, you will see how to manage the device information, video resolutions, recording configuration, and alarm event configuration. Firstly, select a camera name under **IP-Device, Camera Management** on the menu tree.





When you select **IP-Device, Camera Management** on the menu tree, it will show the **Camera Management** sub-menu. You can configure cameras here. The following picture shows when you selected an IP-device in the menu tree. The sub-menu toolbar changes accordingly to your selection.



Items

Descriptions

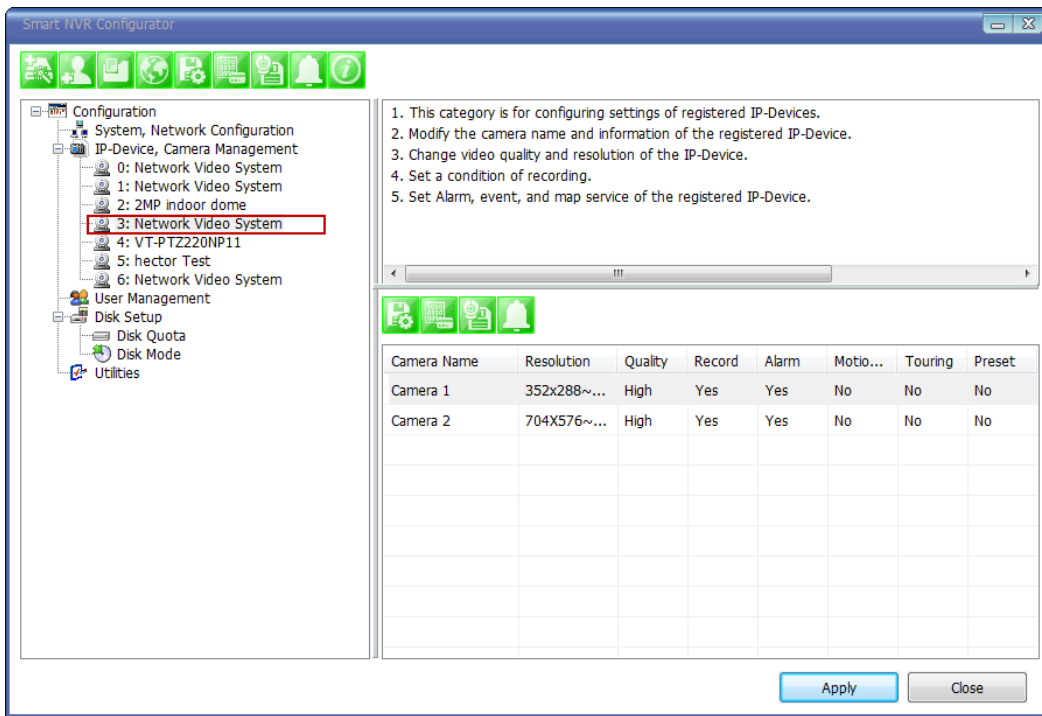
**ENVI Series: VTC-IR40-N**

	<b>A</b> Camera Information	Configure Information of the selected camera.
	<b>B</b> Resolution and Quality	Choose the resolution and quality of cameras.
	<b>C</b> Recording Conditions	Set up recording conditions.
	<b>D</b> Alarm and Map service settings	Configure Alarm and Map service functions.

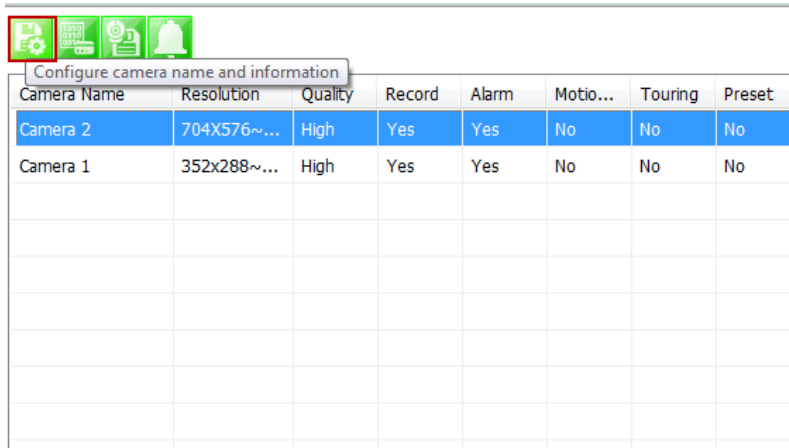
**36.5.1. Configure Camera Name and Information**



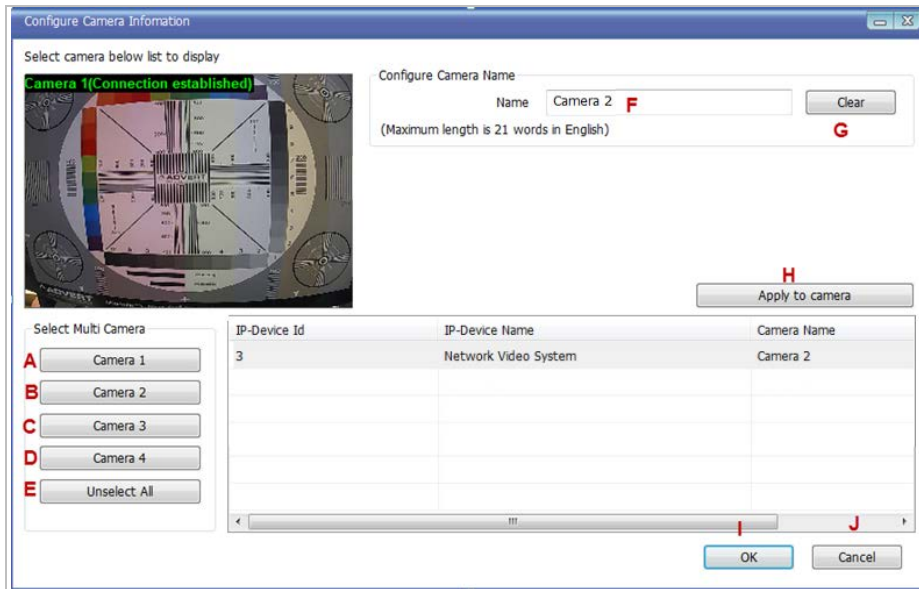
From the configuration list, select a camera to be assigned with a name.



Then click on camera1 or camera 2, and then click Configure Camera Name and Information



The below image will be display, enter name (F), then click **Apply to camera(H)**, then **OK**.

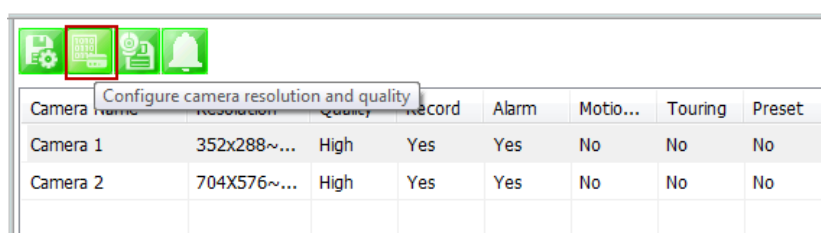


Items		Descriptions
A,B,C,D	Camera Selection	Select one or more cameras for name assignment by clicking buttons.
E	Unselect All	Clear the device list which shows the selected cameras.
F	Name	Type in a camera name.
G	Clear	Clear the camera name field.
H	Apply to Camera	Apply the changed camera name to the system.
I	OK	Click this button to confirm the change and close the window.
J	Cancel	Click this button to cancel the change and close the window.

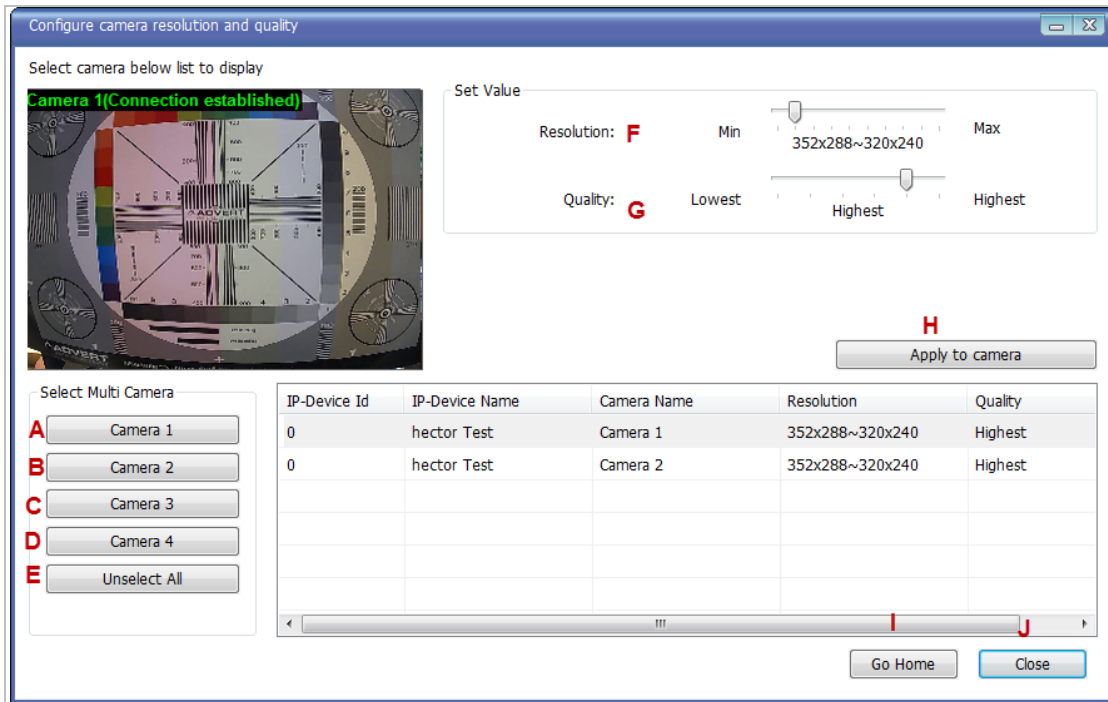
### 36.5.2. Camera Resolution, Quality



To configure a camera's resolution and video quality,select a camera to configure and click **Configure camera resolution and quality**



The below image will be display, adjust resolution (F), then click **Apply to camera(H)**, then **OK**

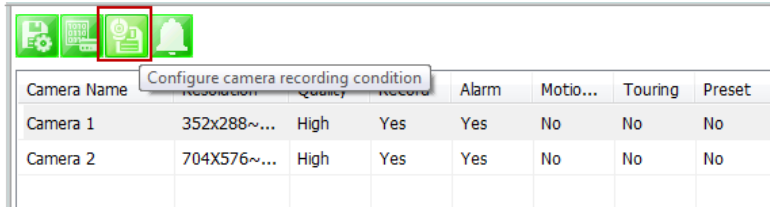


	Items	Descriptions
A,B,C,D	Camera Selection	Select one or more cameras by clicking buttons.
E	Unselect All	Clear the device list which shows the selected cameras.
F	Resolution	Select the video resolution.
G	Quality	Select the video quality.
H	Apply to Camera	Apply the selected video resolution and quality to the system.
I	Go Home	Go to the homepage of the product.
J	Close	Close and exit the window.

### 36.5.3. Configure Camera Recording Condition

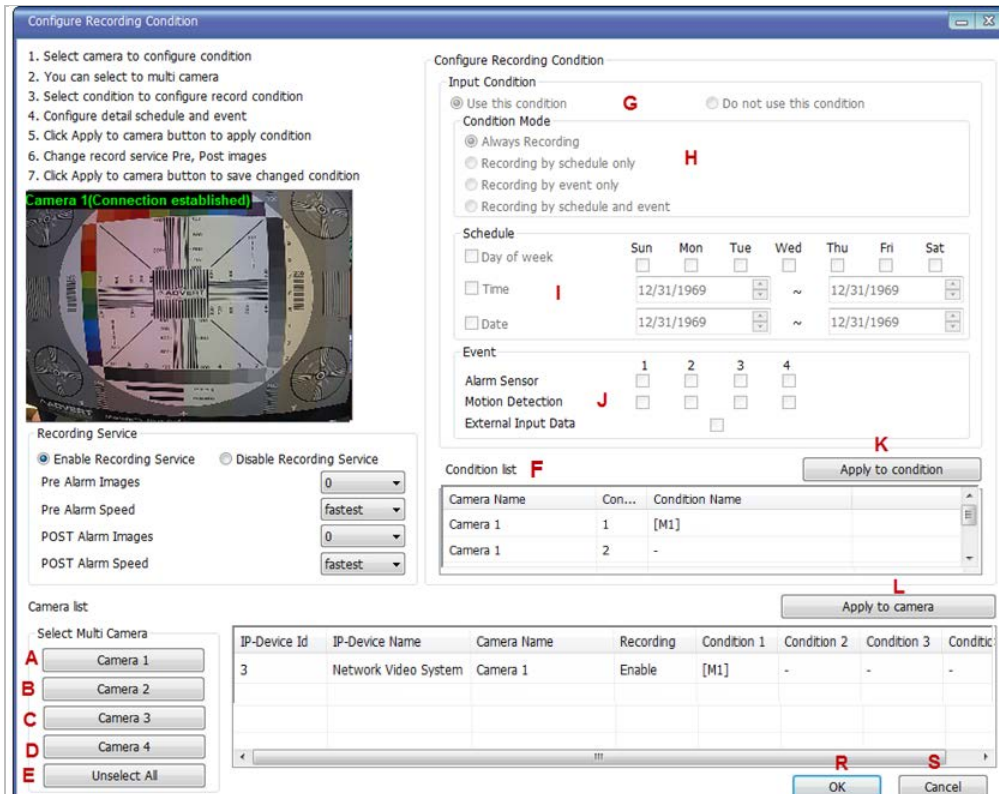


To configure recording conditions, select a camera to configure, then click **Configure camera recording condition**



Camera Name	Resolution	Quality	Recording	Alarm	Motio...	Touring	Preset
Camera 1	352x288~...	High	Yes	Yes	No	No	No
Camera 2	704x576~...	High	Yes	Yes	No	No	No

The below image is where you adjust the recording parameters.



Item	Description	
A,B,C,D	Camera Selection	Select one or more cameras by clicking buttons.
E	Unselect All	Clear the device list which shows the selected cameras.
F	Condition List	Define the condition for recording to be started.
G	Condition to use	Decide whether to use the defined condition or not.
H	Condition Mode	Select the condition mode for recording.
I	Scheduling	Set up the schedule for recording.
J	Event setup	Set up the event to initiate recording.
K	Apply to Condition	Apply the configured schedule and event data to condition list.
L	Apply to Camera	Apply the condition to camera.
M	Enable Recording Service	Enable this to activate the recording. When this is not enabled, it won't be saved if a recording condition is set.

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<b>N</b>	Pre Alarm Images	Select pre-alarm images.
<b>O</b>	Pre Alarm Speed	Select pre-alarm speed.
<b>P</b>	Post Alarm Images	Select post-alarm images.
<b>Q</b>	Post Alarm Speed	Select post-alarm speed
<b>R</b>	OK	Click this button to confirm the change and exit the window.
<b>S</b>	Cancel	Click this button to cancel the all the changed made in this session.

To setup recording, first click camera under *Condition list*(F). This enables the Configure Recording Condition (G, H, I and J)

Camera Name	Con...	Condition Name
Camera 1	1	[M1]
Camera 1	2	-

Now you can select your *condition mode*(H). Under condition mode you have four choices always, schedule, event and schedule and event. (In this example we will record by event only)

Condition Mode

Always Recording  
 Recording by schedule only  
 Recording by event only  
 Recording by schedule and event

*Schedule:* To schedule time and date of recording (I). (When schedule is activated in condition mode)

Schedule

Day of week
 

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Time
 

AM 8:43	~	AM 8:43
---------	---	---------

Date
 

12/28	~	12/28
-------	---	-------

*Event:* Here you can select Alarm or Motion (J)

Event


	1	2	3	4
Alarm Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Input Data	<input type="checkbox"/>			

After completing your conditions selection click **Apply to condition**(K)

After apply to condition click **Apply to camera** (L), and then click **OK**(R)

When that screen closes click **Apply**





Camera Name	Resolution	Quality	Record	Alarm	Motio...	Touring	Preset
Camera 1	352x288~...	High	Yes	Yes	No	No	No
Camera 2	704x576~...	High	Yes	Yes	No	No	No

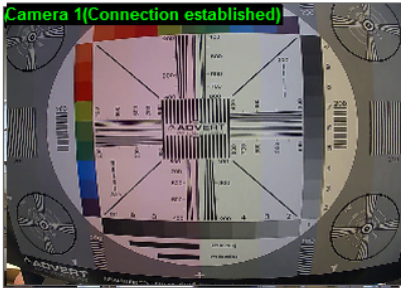
### 36.5.4. Alarm, Event Configuration



To configure the Alarm and Event features, select a camera to configure, and then click **Configure alarm, map service**

Configure Alarm, Event service

**Camera 1 (Connection established)**



**Check desired alarm**

- Enable alarm service
- Start recording
- Enable DO
- Disable DO
- Operating Preset mode
- Popup Window
- Touring Start
- Touring Stop

**Select Multi Camera**

- 
- 
- 
- 
-

Please select camera

**Check event want to service**

- Enable Event Service
- Start recording
- Stop recording
- Motion Start
- Motion Stop
- DI On
- DI Off
- Video Normal
- Video Lose
- IP-Device Network Connected
- IP-Device Network Disconnected
- Touring Start
- Touring Stop
- Enable DO
- Disable DO

IP-Device Id	IP-Device Name	Camera Name
0	hector Test	Camera 1
0	hector Test	Camera 2

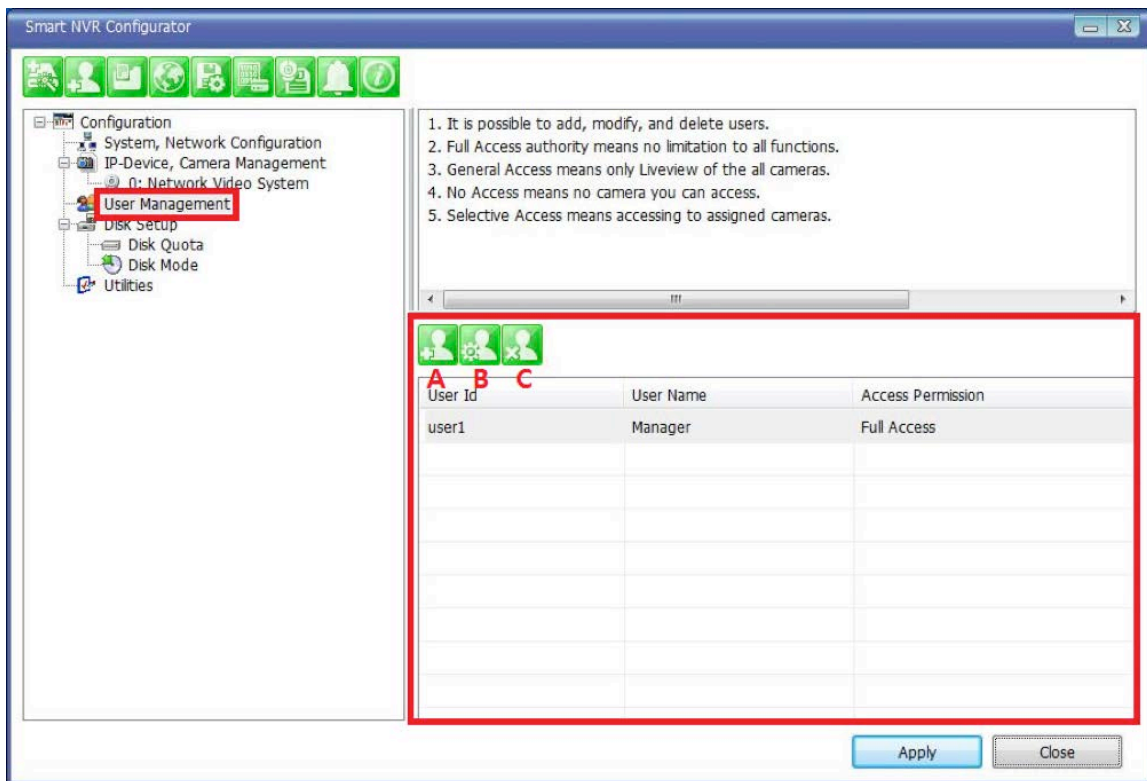
Item	Description




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<b>A,B,C,D</b>	Camera Selection	Select one or more cameras by clicking buttons.
<b>E</b>	Unselect All	Clear the device list which shows the selected cameras.
<b>F</b>	Alarm Service Setup	Put check marks on alarm types to use.
<b>G</b>	Event Service Setup	Put check marks on event types to use.
<b>H</b>	Apply to Camera	Click this button to apply the changes to the camera.
<b>I</b>	OK	Click this button to confirm the change and exit the window.
<b>J</b>	Cancel	Click this button to cancel the Alarm, Event configuration.

**36.6. User Management**

In this section, you will see how to manage user information. To start managing users, select **User Management** from the menu tree.



Items	Descriptions
 <b>A</b>	User Registration Register new users to the system.
 <b>B</b>	User Modification Change the information of existing users.
 <b>C</b>	User Deletion Remove the account of existing users.

### 36.6.1. User Registration



To register a new user, click the 1'st button on the tool bar in the sub-menu toolbar.

Items	Descriptions
A	User ID Enter a new User ID to register.
B	Password Enter the Password for the new user.
C	Confirm password Enter the same Password for confirmation.
D	Name Enter the name of the new user to be registered.
E	System resource access permission Choose the level of permission for System resource access. <ul style="list-style-type: none"> <li>• All channels access: Viewing all cameras, Alarm, PTZ, Audio, Searching</li> <li>• General access: Viewing all cameras only</li> <li>• No access: An user account without any access to cameras</li> <li>• Selective access: Access to only selected cameras and privileges.</li> </ul>
F	System Permission Eight different modules can be set. The setup can be made on Module, camera, alarm, PTZ, Audio, and Search respectively. Enabling each module gives accesspermission to it.
G	OK Click this button to apply the registration of the new user.
H	Cancel Click this button to cancel the registration process.

### 36.6.2. User Modification



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To modify a user's information, select the users name than click the second button on the submenutoolbar. The **User Registration** window will come up on the screen, make the necessary changes and click **OK** .

**36.6.3. UserDeletion**

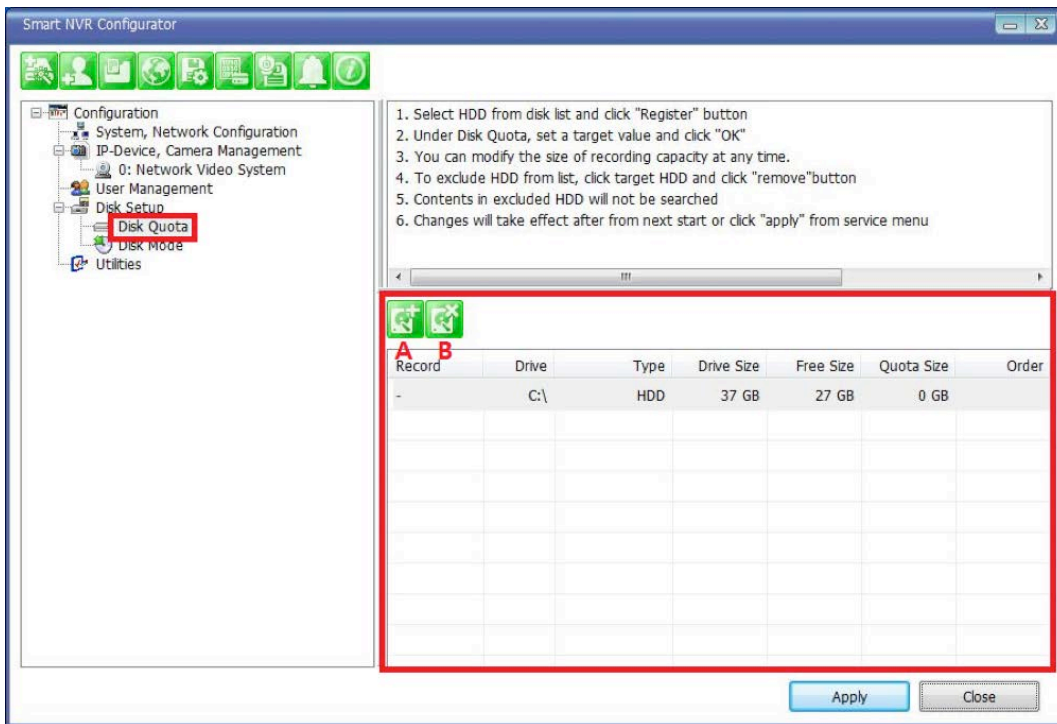




To delete an existing user, select the user name than click Remove Registered user account, another screen will pop up confirming to proceed with deletion, click **OK** to proceed .

**36.7. Disk Setup**

**36.7.1. Disk Setup**

When you click **Disk Setup** on the menu tree, it will show two sub-menu items. One is **Disk Quota**, and the other is **Disk Mode**. The following window shows the **Disk Quota** mode.



Items	Descriptions
 A Disk Quota Setup	Define the HDD for recording and configure the size of quota.
 B Disk Quota Deletion	Delete previously assigned disk quota.

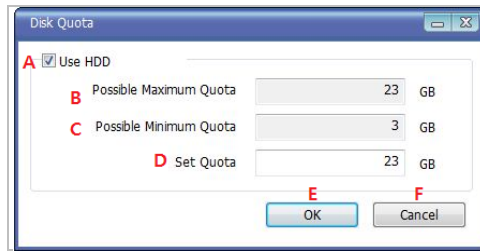
**36.7.2. Disk Quota Modification and Deletion**



When EN-V-R program is installed, all local drives are assigned as recording devices. To modify the disk quota for recording, click **Disk Quota** on the menu list, and select the drive to be modified.

To change the disk quota size, click the 1'st button on the sub tool bar, or double click the drive on the

device list. The following window will be displayed.

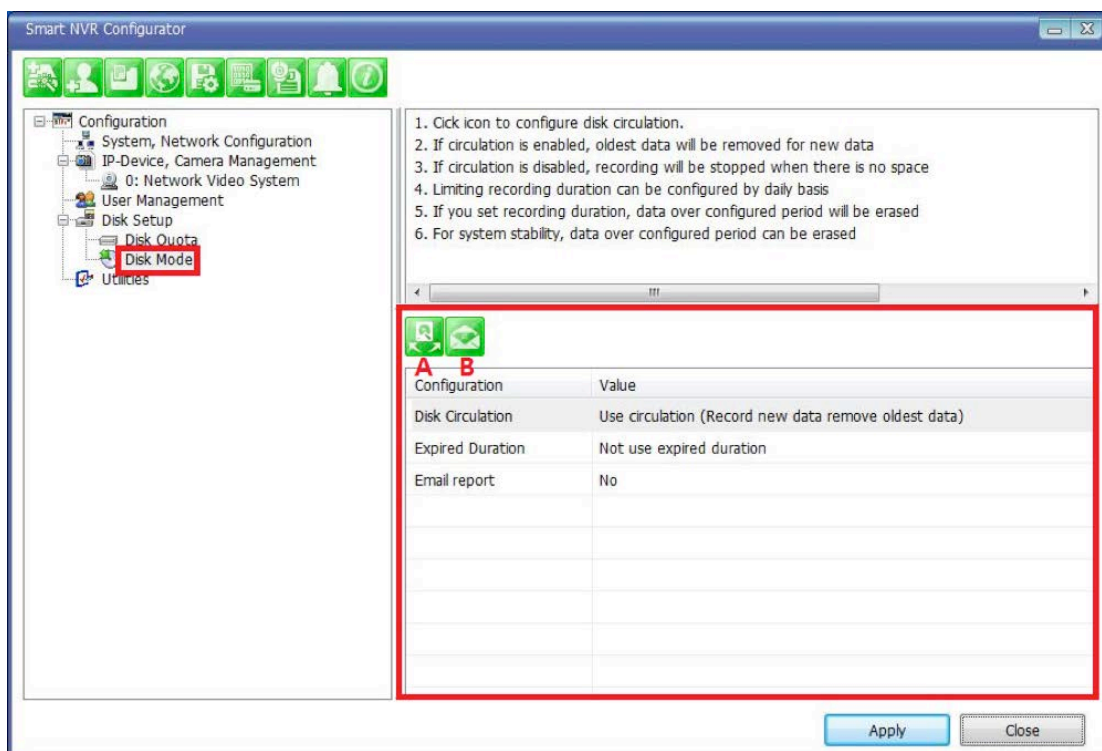




Item	Description
A	Use HDD Decide whether this HDD is to be used.
B	Possible Maximum Quota Display Possible maximum quota on this HDD.
C	Possible Minimum Quota Display Possible minimum quota on this HDD.
D	Set Quota Enter the desired size of disk quota for recording.
E	OK Click to apply the configured disk quota.
F	Cancel Click to cancel the disk quota configuration.

To delete the existing disk quota, click **Disk Quota** on the menu list. Then choose the drive quota to be deleted. Click the 2<sup>nd</sup> button on the sub tool bar.

### 36.7.3. Disk Mode Change

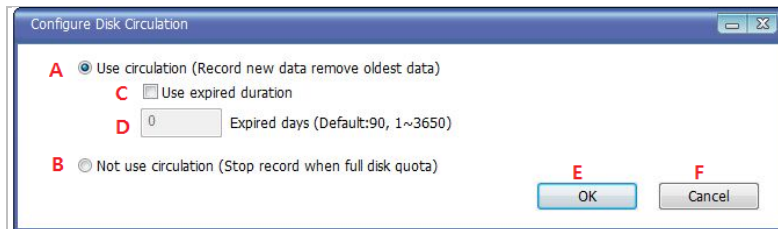
To modify the disk circulation style, click Disk Setup, and then **Disk Mode** on the menu tree.



Items	Descriptions
 <b>A</b> Disk Circulation Setup	Configure disk circulation type.
 <b>B</b> Disk Usage Report Setup	Configure email address for reporting.



Click the **Disk Circulation** in the list. The following window will be displayed.

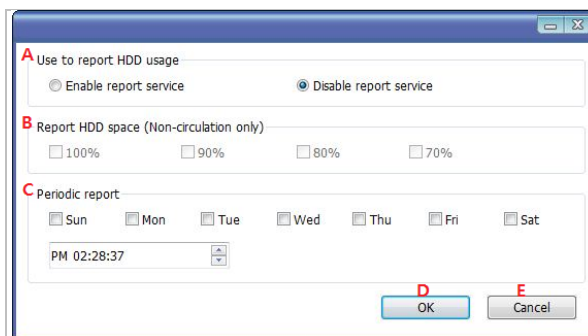


Item	Description
<b>A</b> Use circulation	Select this if disk circulation will be used.
<b>B</b> Not use circulation	Select this if disk circulation will not be used.
<b>C</b> Use expired duration	Decide whether the expiration will be used for recording. (This can be seen when "Use circulation" is selected.)
<b>D</b> Expired days	Enter the date when the recorded content will expire.
<b>E</b> OK	Click this to apply the Disk circulation settings.
<b>F</b> Cancel	Click this to Cancel Disk circulation settings.

Configure email reporting for disk usage



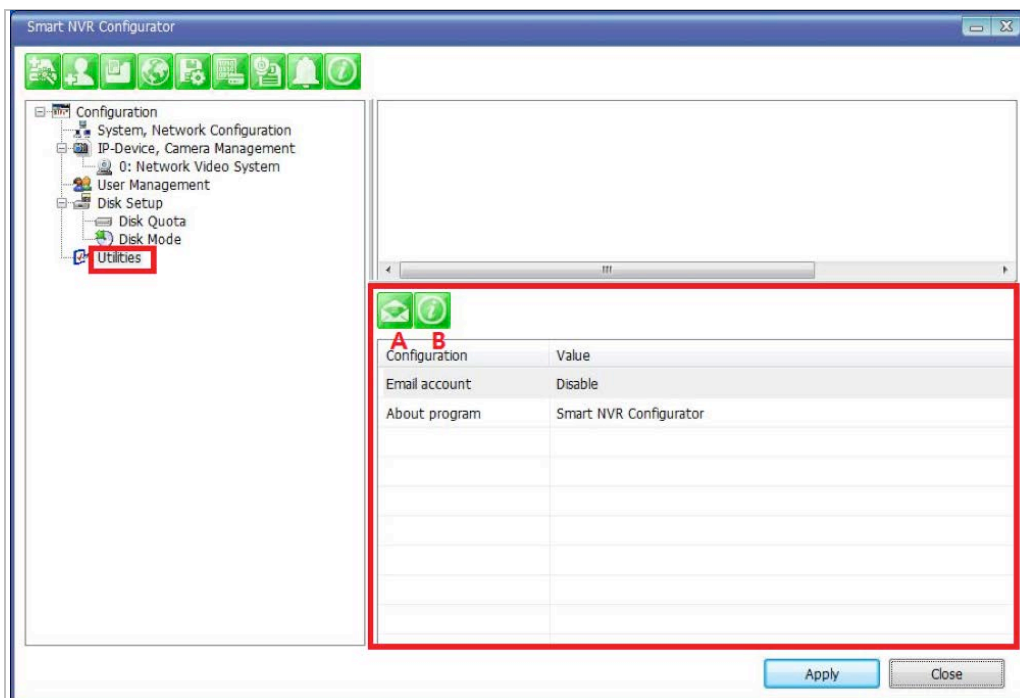
To modify the email notification behavior for hard disk recording.





Item	Description
A	Use to report HDD usage Choose whether to Enable or Disable the report service.
B	Report HDD space When disk circulation is not used, select the HDD size when it will be reported by email.
C	Periodic report Define when Periodic reports will be sent.
D	OK Click to apply the Email report settings.
E	Cancel Click to cancel Email report configuration.

### 36.8. Utilities

Select **Utilities** from the menu tree. You can perform two functions in **Utilities**, one is **Email Account Configuration** and the other is **About Program**.



Items	Descriptions
 A Email Account	Configure email account.
 B About Program	Display the information of EN-V-R program.

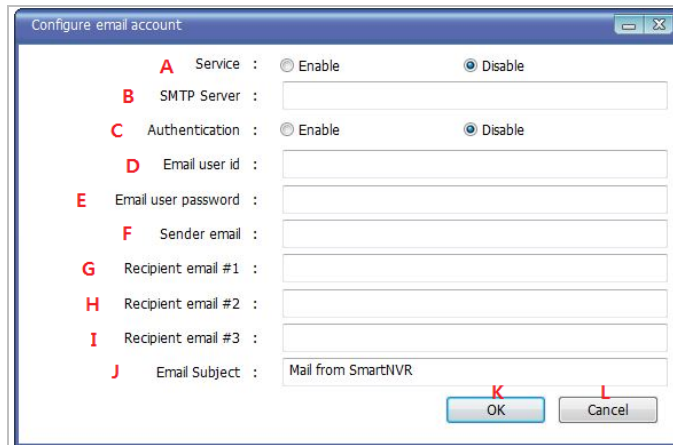
#### 36.8.1. Email accountConfiguration



Once an email account is registered here, you can receive email notification from the EN-V-R program upon certain events. To configure an email accounts, click **Utilities** on the menu tree. Click *Configure*



email account for mail service

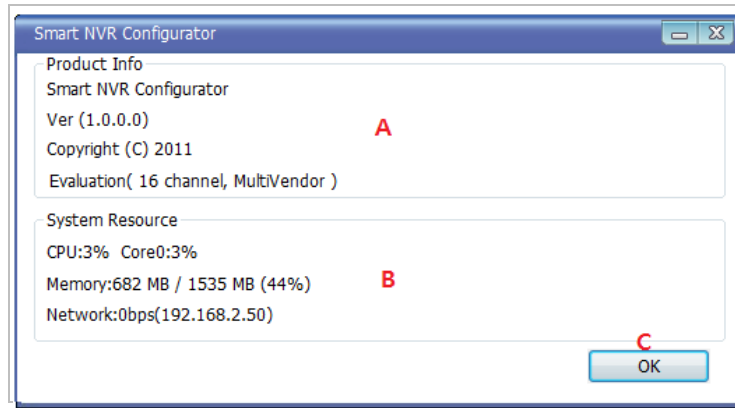


Item	Description
A	Service Decide whether to report HDD usage by email or not.
B	SMTP server Enter the address of SMTP server for sending email.
C	Authentication Decide whether to use Authentication.
D	Email user id Enter the sender's id for email account.
E	Email user password Enter the password of the sender's email account.
F	Sender email Enter the Sender's email address.
G,H,I	Recipient email #1,2,3 The email addresses of three Recipients to be notified.
J	Email subject Enter the title of the Email when it's sent.
K	OK Click to apply the Email account registration.
L	Cancel Click to cancel this configuration.

36.8.2. About Program



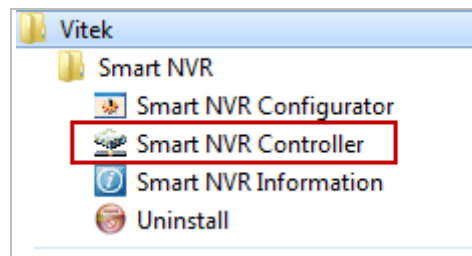
To displays the information of this program on the screen, Click *Information of this program*.



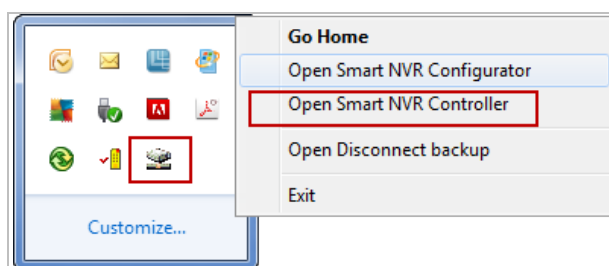
Items	Descriptions
A	About program Show the information about the EN-V-R running.
B	System Resource Displays the PC's system resource information.
C	OK Click this button to close the Window.

### 37. Using EN-V-R Controller

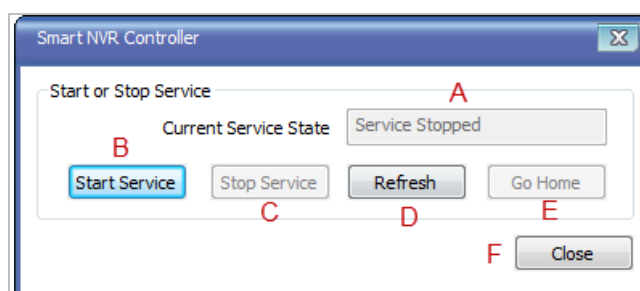
To open EN-V-R controller,click **Start >All Programs>Vitek>SMART NVR Controller**.



Smart NRV controller will be on the lower right part of the system tray. Then right click the icon a sub-window will display, click on Open Smart NVR Controller.



The following window will open



	Items	Descriptions
A	Current Service State	Shows whether EN-V-R Service is running or stopped.
B	Start Service	Click this button to start EN-V-R Service when it's stopped.
C	Stop Service	Click this button to stop EN-V-R Service when it's running.
D	Refresh	Refresh the Screen.
E	Go Home	Go to the EN-V-R's built-in webpage.
F	Close	Close the EN-V-R Controller window.

## 38. Connecting to EN-V-R

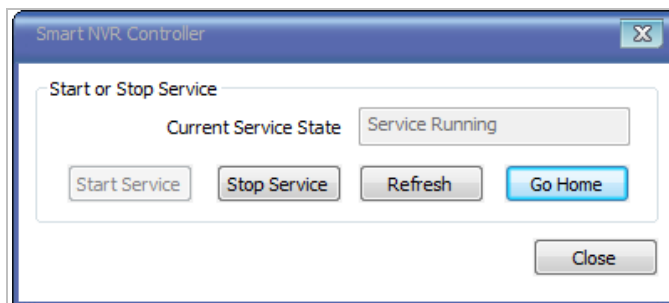
### 38.1. PC with EN-V-R installed

You can connect to EN-V-R in various ways as explained below.

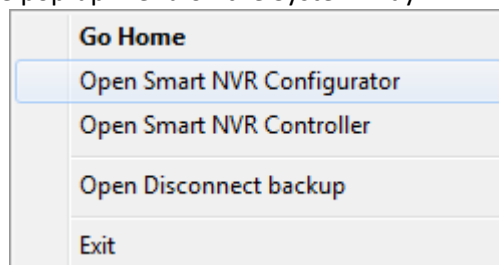
- Click **Go Home** in EN-V-R Configurator



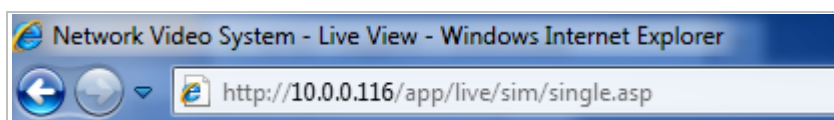
- EN-V-R Controller window.



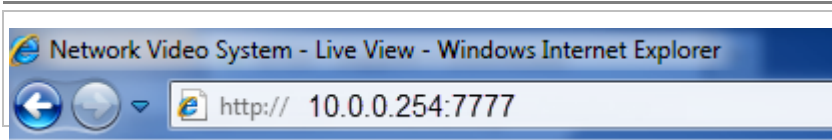
- Click **Go Home** from the pop-up menu on the System Tray.



- In Internet Explorer, enter the IP address of the computer that EN-V-R is running on.



- In case that the HTTP port for EN-V-R is not 80 (default), the port number should be entered together with the IP address. (the example below assumes HTTP port of 7777)



After you successfully connecting to the EN-V-R homepage, you will see the following window.

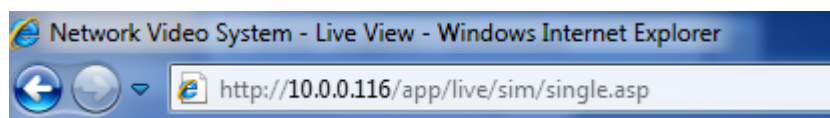


Items	Descriptions
A	Home Go to EN-V-R's homepage.
B	Live View Click this button to execute Live View program. You can use various features such as live view, audio transmission, PTZ control, unconditional recording, etc.
C	Player Click this button to search, record, and back up the video data sent from IP devices registered in EN-V-R.

**38.2. PC without EN-V-R**

- If your PC doesn't have EN-V-R program installed, type in the IP address of the PC where EN-V-R is running.

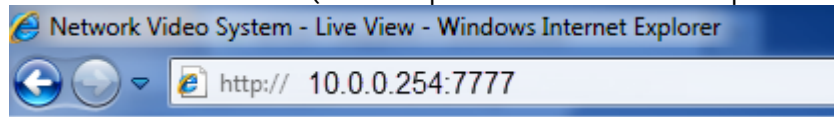
*Note: Refer to **Section 18 ENVI Series Viewer on page 101** for details on how to use ENVI Viewer program. Refer to **Section 28. ENVI Smart Player on page 133** for details on how to use ENVI Smart Player program.*



## ENVI Series: VTC-IR40-N

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- In case that the HTTP port for EN-V-R is not 80 (default), the port number should be entered together with the IP address. (the example below assumes HTTP port of 7777)



## **VITEK LIMITED PRODUCT WARRANTY**

VITEK products carry a three (3) year limited warranty. Digital recording and storage products are also warranted for 3 years except for the hard drives which carry their own independent factory warranty from the hard drive manufacturer. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is non-transferable and extends only to the original buyer or end user customer of a Vitek Authorized Reseller.

“Alpha Series by VITEK” products carry a three (3) year limited warranty. All other factors of the standard VITEK warranty will apply as stated above. \*\* Three Year “Alpha Series by VITEK” Warranty effective September 1st 2010. “Alpha Series by VITEK” products purchased prior to September 1st 2010 carry a one (1) year warranty.

\*\* Three Year Warranty on all products except Alpha Series became effective on April 1st 2009. Legacy Products purchased prior to April 1st 2009 carry a two (2) year warranty.

This warranty shall not apply to repairs or replacements necessitated by any cause beyond the control of VITEK, including but not limited to, acts of nature, improper installation, excess moisture, misuse, lack of proper maintenance, accident, voltage fluctuations, or any unauthorized tampering, repairs or modifications. This warranty becomes VOID in the event of alteration, defacement, or removal of serial numbers.

Within the first 6 months of purchase, VITEK will replace or credit any defective product at the request of the customer (subject to availability) with a new product that equals or exceeds the performance of the original product purchased.

Within the first 6 months of purchase, at its sole discretion, VITEK may issue an advance replacement for a defective product; however, all related costs including, but not limited to shipping and/or delivery charges will be the responsibility of the customer. If upon return inspection a product is determined to be in good working order or shows evidence of misuse, the customer will be responsible for full payment of the original product purchased as well as the replacement product.

Beyond the first 6 month period for the remainder of the warranty, VITEK'S responsibility shall be limited to repairing the defective product, including all necessary parts and related labor costs. At its sole discretion, VITEK may choose to either exchange a defective product or issue a merchandise credit towards future product purchases. Any replacement parts furnished in connection with this warranty shall be warranted for a period not to exceed the remaining balance of the original equipment warranty.

A Return Authorization number or “RA” number must be obtained prior to the return of any item for repair, replacement, or credit. VITEK requires that this “RA” number be clearly printed on the outside of the shipping carton to avoid refusal of said shipment. The Return Authorization number expires after 30 days. Products returned after the 30 day period will be subject to refusal. Shipping charges, if any, must be prepaid. A copy of the bill of sale (or invoice of purchase), together with a complete written explanation of the problem must accompany all returns.

Vitek makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a Vitek Authorized Reseller.

**CLASS A DIGITAL DEVICE (INDUSTRIAL & COMMERCIAL ENVIRONMENT)**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to CE and FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



28492 CONSTELLATION ROAD VALENCIA, CA 91355  
WWW.VITEKCCTV.COM | 888-VITEK-70

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