



- Highly Flexible and Scalable with 16, 32, 64, 128 channel versions
- Live view, playback, record, backup from multiple network cameras and video servers.
- Scheduled, Event-driven, Motion Detection & Forced recording
- Supports up to 160TB total hard drive space with multiple drives
- Control Pan/Tilt/Zoom functions Remotely
- Supports up to 3 MegaPixel cameras
- H.264 & MJPEG & MPEG-4 Streaming
- Microsoft Windows Based Software
- Multi vendor integration with Arecont, Axis, ACTi, Vivotek, and many more!

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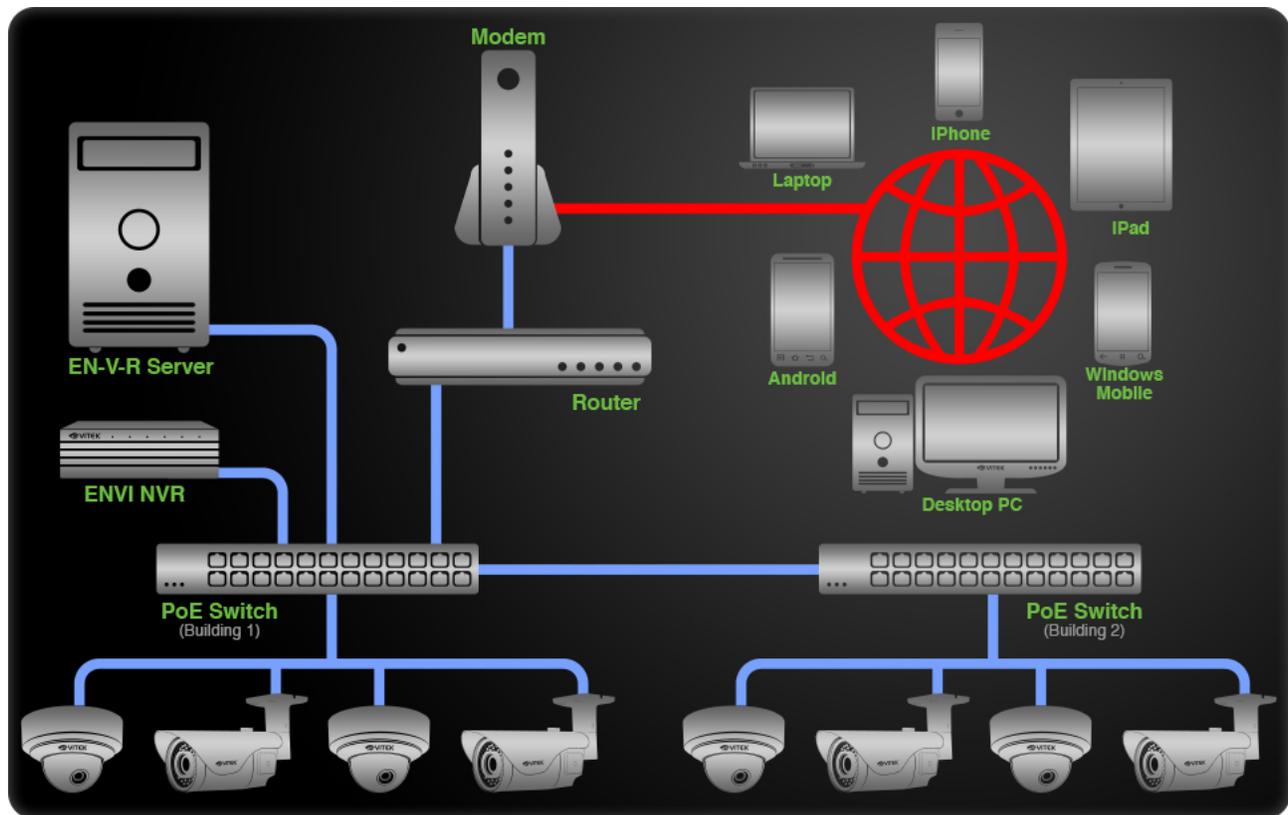
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## 1. About EN-V-R

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 Live view, Playback, Record, Backup
- Event, motion, scheduled recording & conditional playback
- Motion-JPEG, MPEG-4, H.264 stream supported
- Supports various vendors' IP devices for recording and retransmission of video, voice, and data
- Supports Megapixel cameras (up to 3M pixels)
- Users can connect to EN-V-R on web browsers to access live video, voice, 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.*



## 2. Requirements for Installation

### 2.1. 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 Recording 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

### 2.2. 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	D1	Intel Xeon X5507 Dual CPU	4.0GB

	channels	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
		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

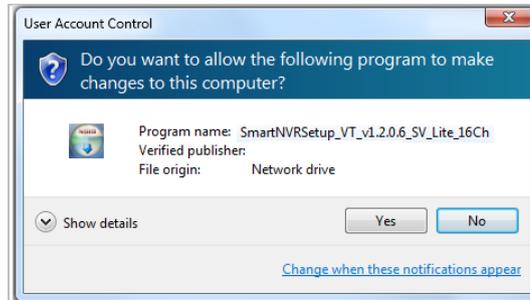
*Note: Above PC requirements are based on running EN-V-R program only. If other software needs to run along with EN-V-R at the same time, you may need additional performance level for your PC. It is recommended to check actual performance and disk capacity before selecting a PC for EN-V-R.*

### 3. 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.

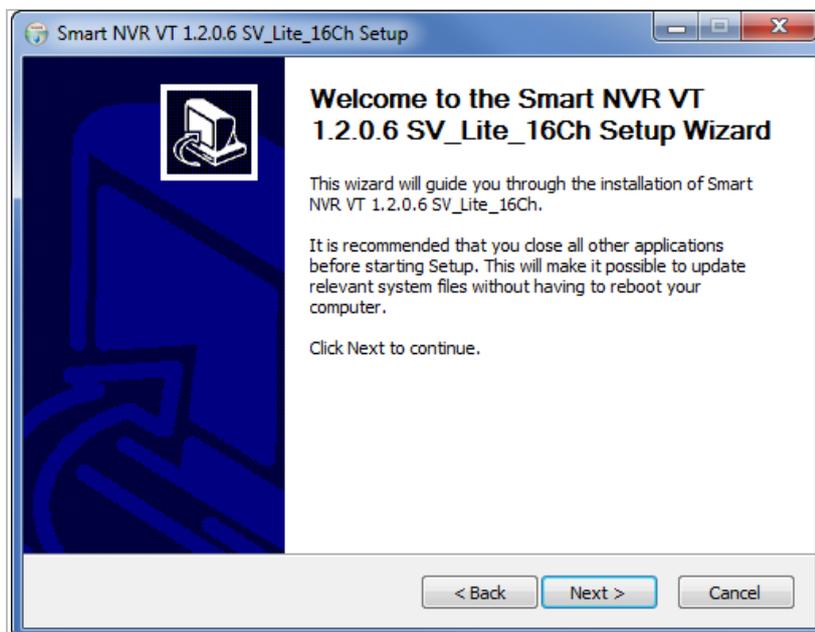
You may encounter following security warning. To continue installing the program, click **Yes** button.



Then select language for installation.

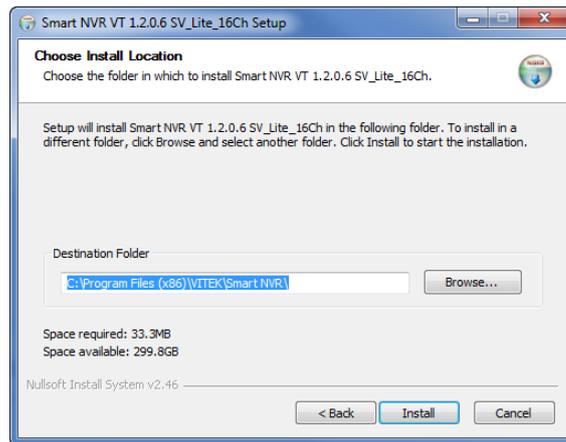


You will see the below window, then click **Next** button.

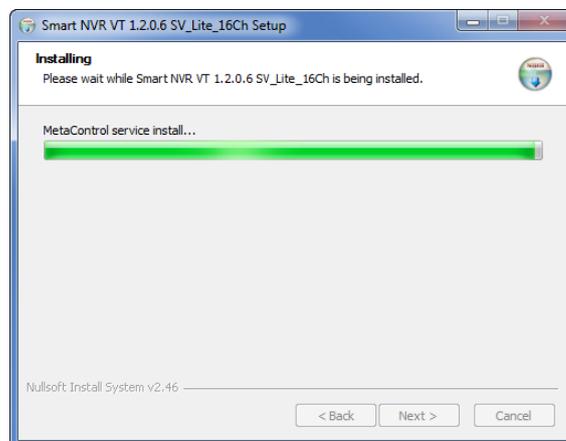


The default location for installation is **C:\Program Files\Vitek**. It is recommended to install in this folder, but if you want to change it to another location, click **Browse** button to choose a proper path.

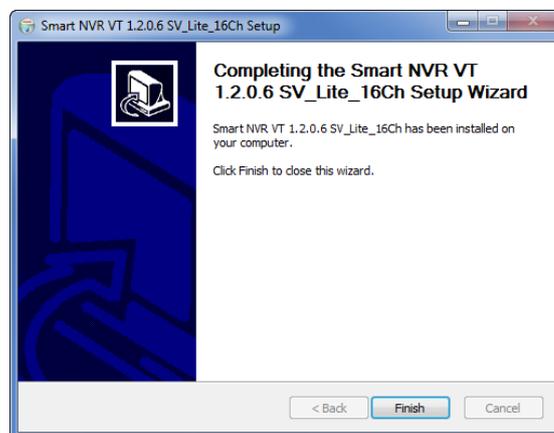
Now click **Install** button.



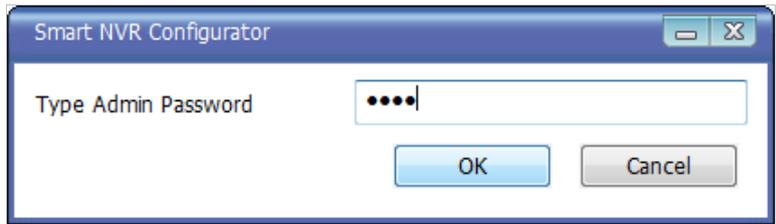
You will see the progress of copying install files to the hard drive as shown below, once is completed click on NEXT.



Click Finish to complete the Installation.

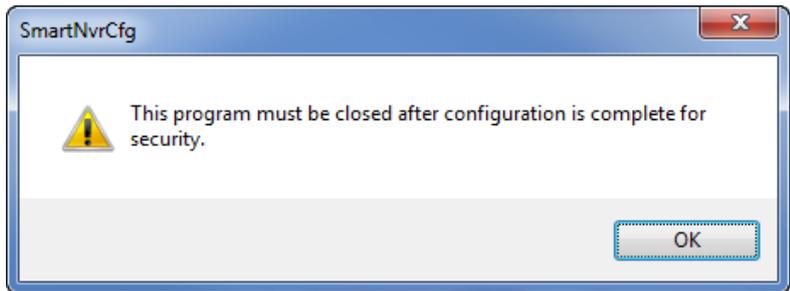


After installing EN-V-R program for the first time, it needs to be configured before use, so it automatically executes the configuration program, which is called **EN-V-R Configurator**.

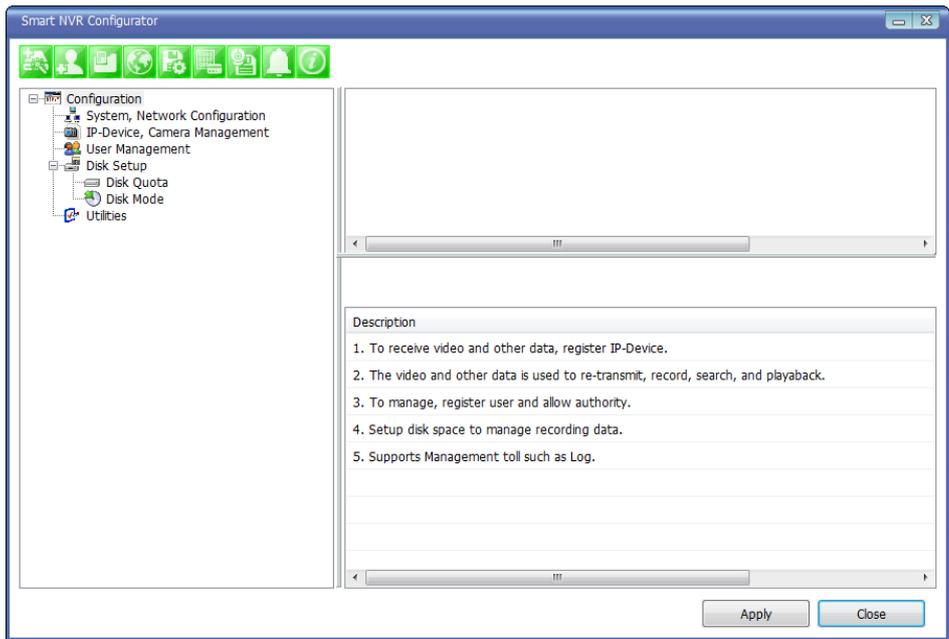


Enter the proper Admin Password. The default password is **root**.

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



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



To use EN-V-R Configurator program, please see Section 6 **Starting EN-V-R Configurator** section.

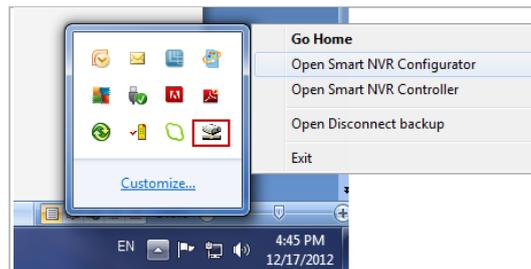
## 4. Uninstalling EN-V-R

### 4.1. 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.



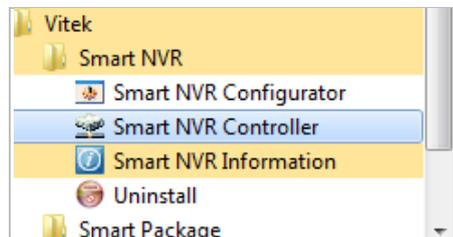
If EN-V-R is not running, you can go ahead to next section of uninstalling the program. If EN-V-R is active, place the mouse pointer on the EN-V-R icon, and click the right mouse button. You'll see the pop-up menu. Select **Exit**.



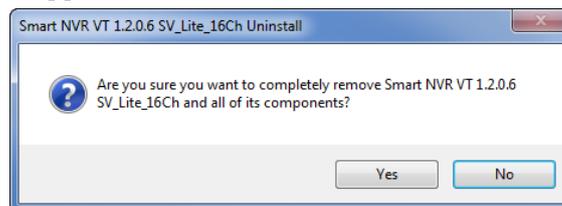
Then the EN-V-R icon disappears, and you know that EN-V-R is no longer running on your computer. Now you're ready to start uninstalling.

#### 4.2. Executing Uninstaller

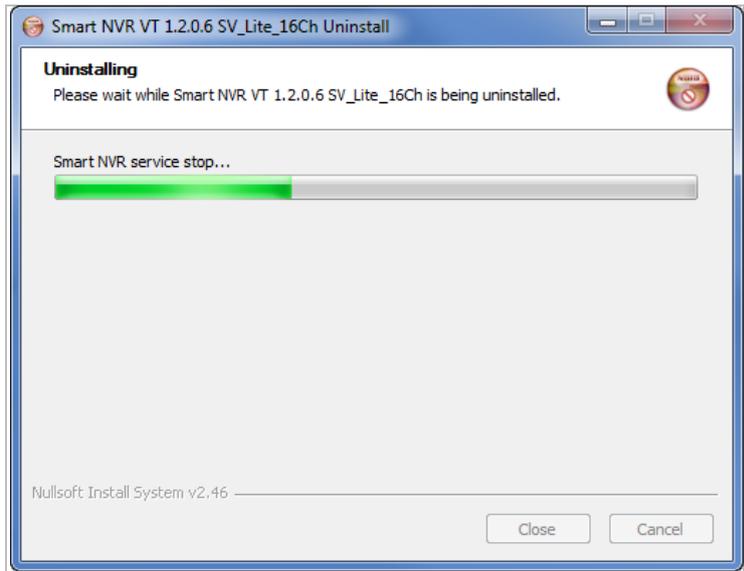
To start uninstalling, click **Start >All Programs >Vitek>EN-V-R>Uninstall**.



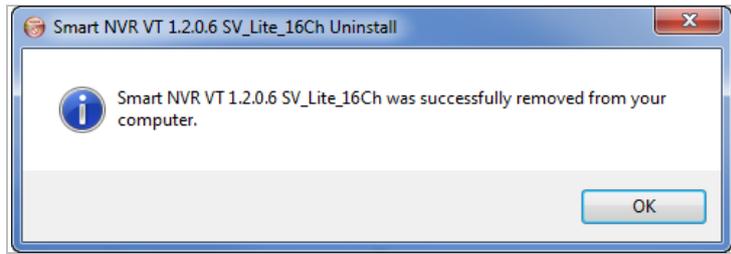
When the following window appears, click **YES** button.



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.



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

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

### 5.1. 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.

### 5.2. 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.

### 5.3. EN-V-R Controller

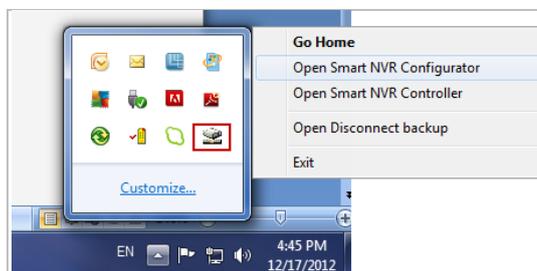
EN-V-R Controller program is used to start or stop the EN-V-R service.

### 5.4. 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.

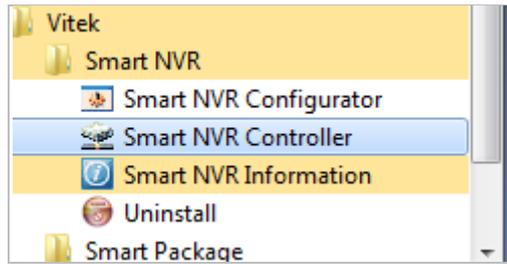


Move the cursor over the icon, and right click. The following pop-up menu will be shown. You can open EN-V-R Configurator or EN-V-R Controller program from this menu, or you can go to the Home page of the EN-V-R program for live view or playback.

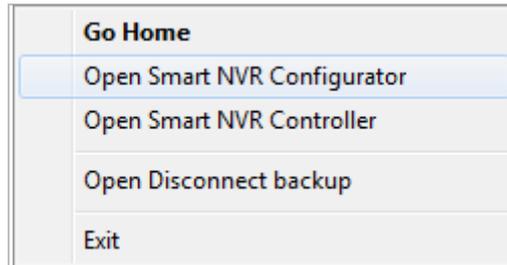


## 6. Starting EN-V-R Configurator

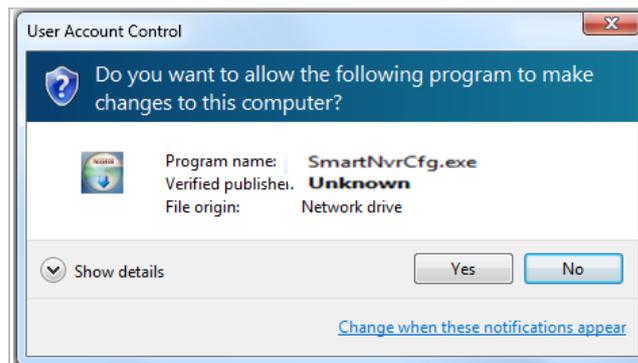
EN-V-R Configurator starts automatically right after installation is completed, you may also click the EN-V-R icon on the Windows desktop.



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.



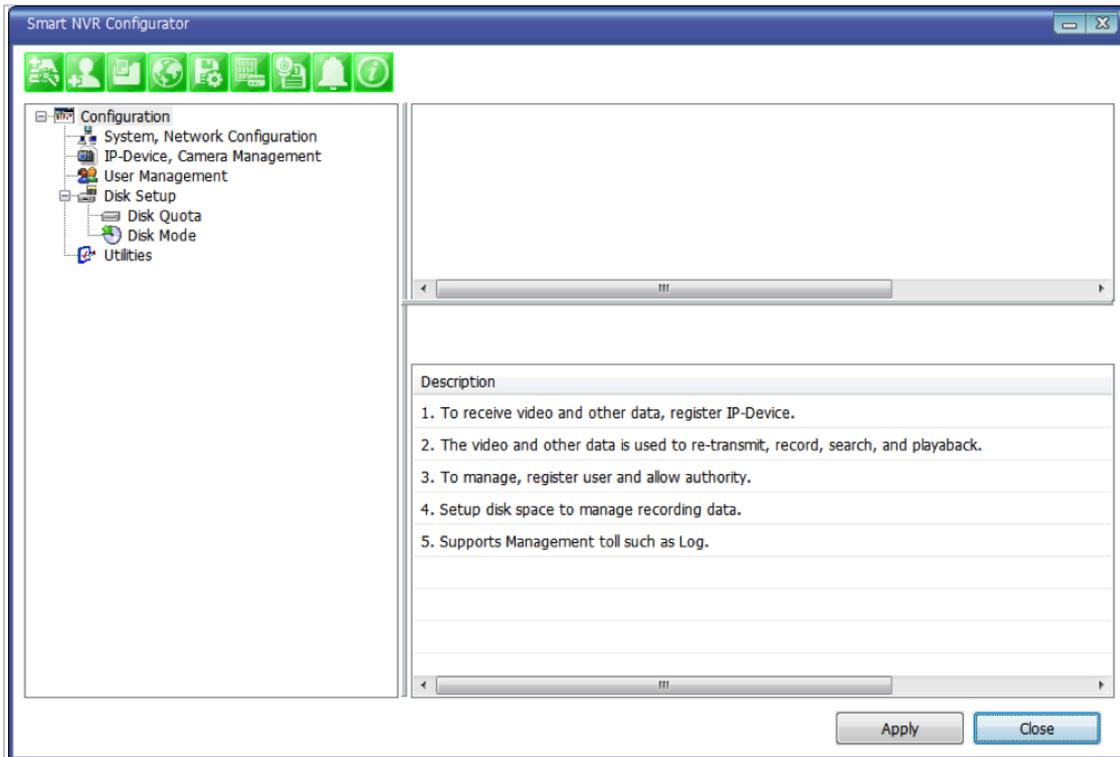
You may encounter the security window as below. Click **Yes** button to continue.



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.



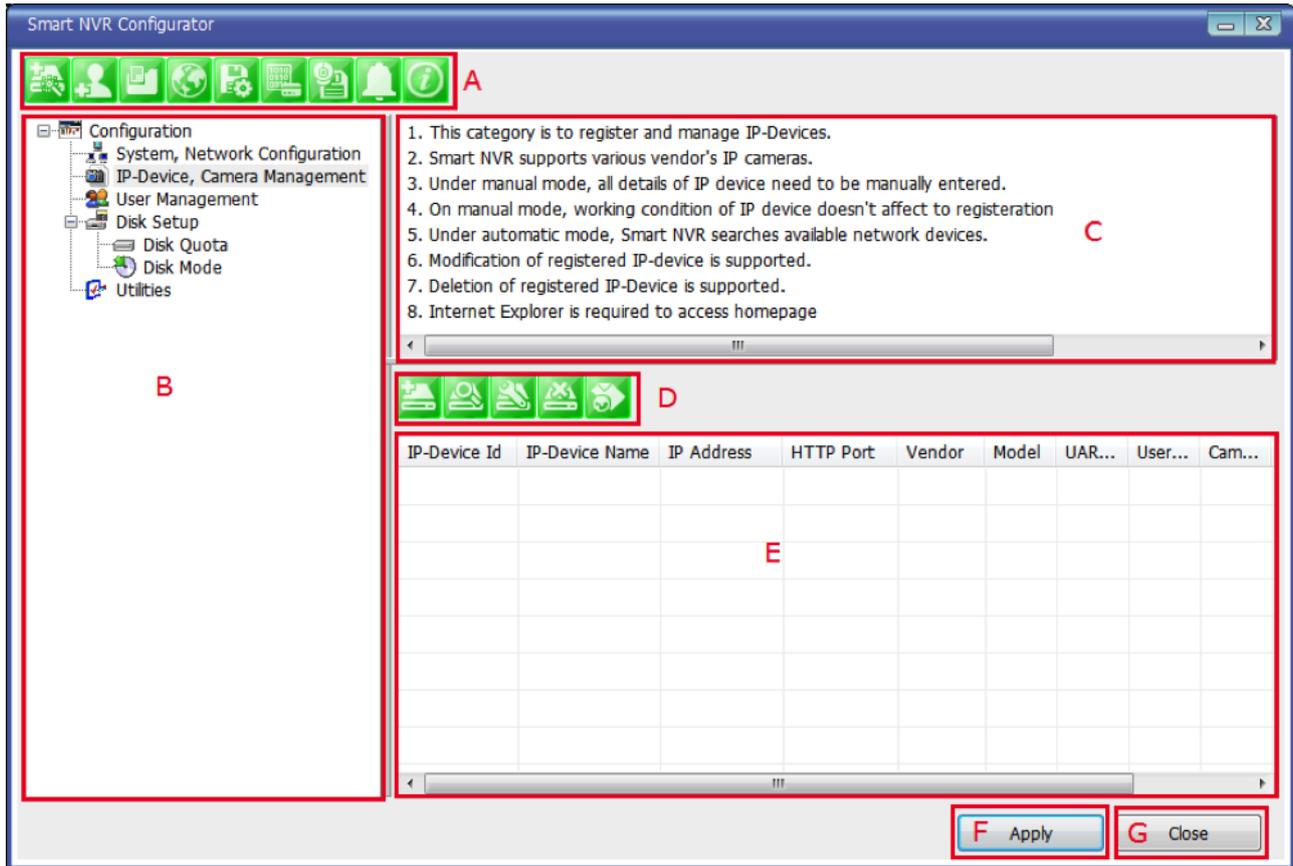
## 7. Quick Start Guide

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.

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

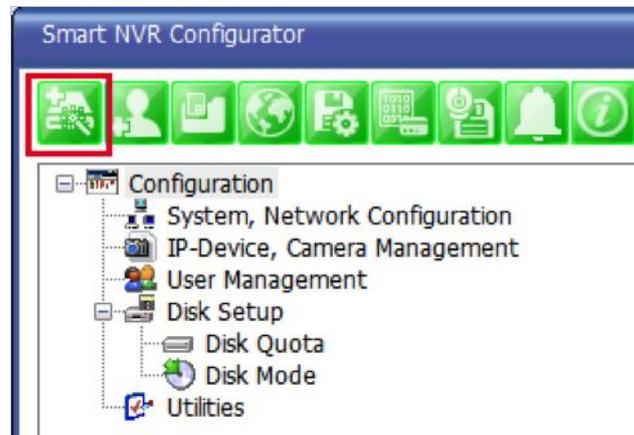
The following picture shows the main window of EN-V-R Configurator program.



Items	Descriptions
A	Main Toolbar Frequently-used menu items are shown on this toolbar.
B	Configuration Tree Menu Configurable categories are shown as a tree menu 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 tree menu.)
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.

## 7.2. Searching for IP Devices

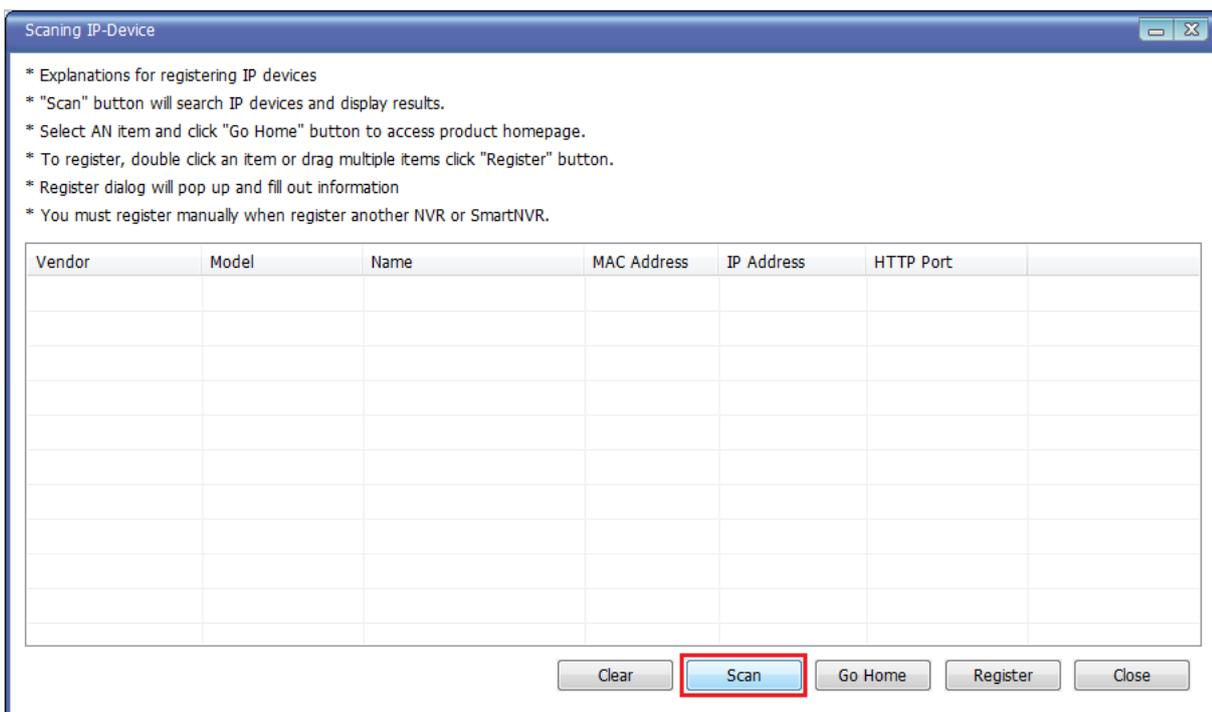
Click the first button on the Main Toolbar.



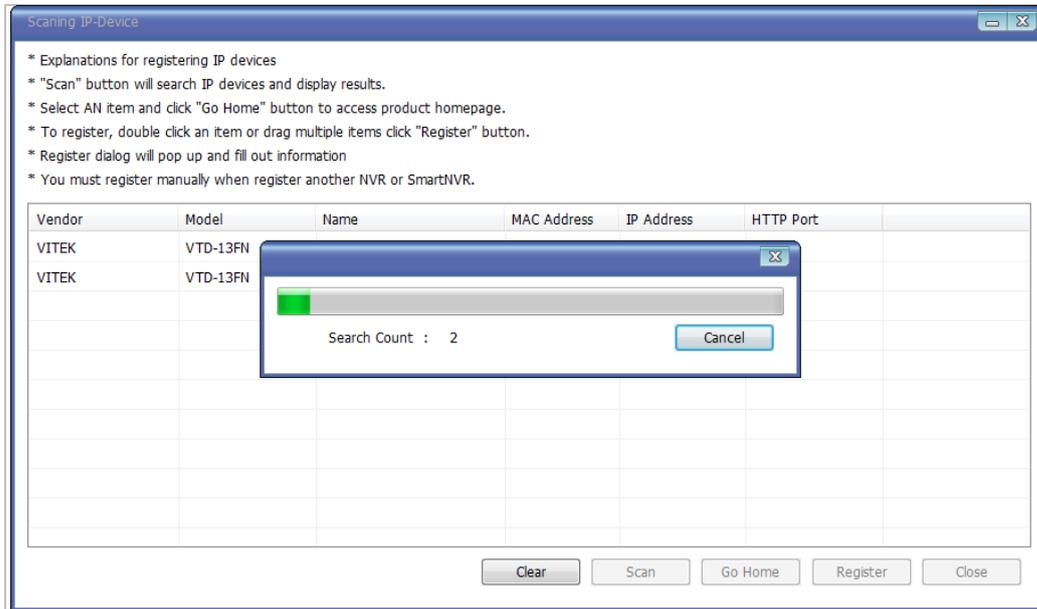
You are now given a choice to register the IP devices by “search and register or manually”. To make it easy, choose **Search and register IP-Device** in this stage, and click **Next** button.



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

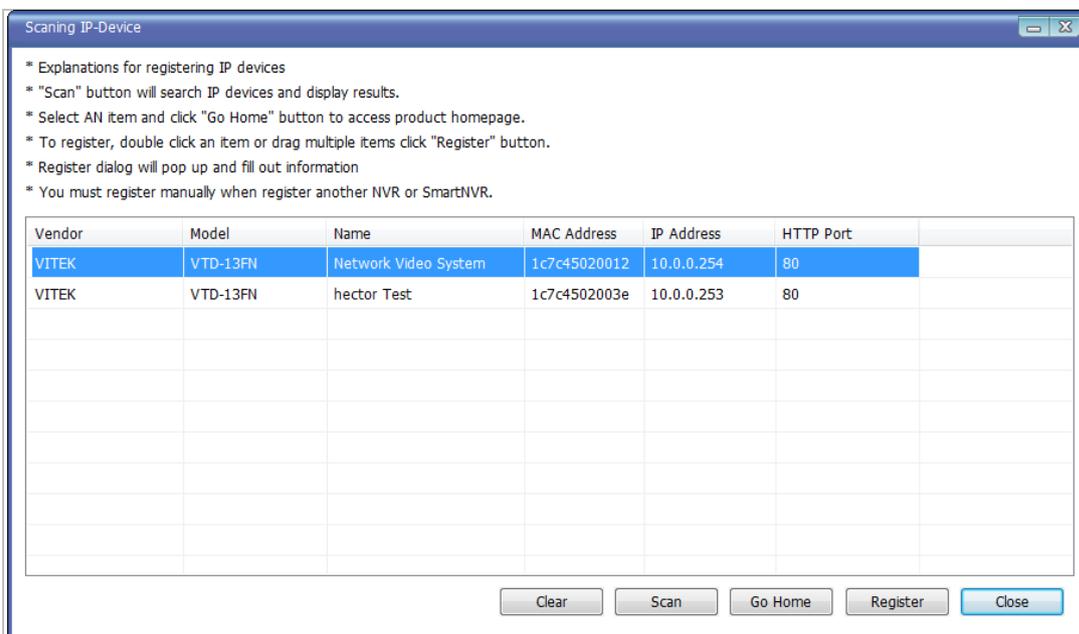


The searching for IP devices is started. As the detected IP devices are being listed. Wait until searching is finished. If you click **Cancel** button in the middle of searching, the EN-V-R will retain only the IP devices found until that moment.

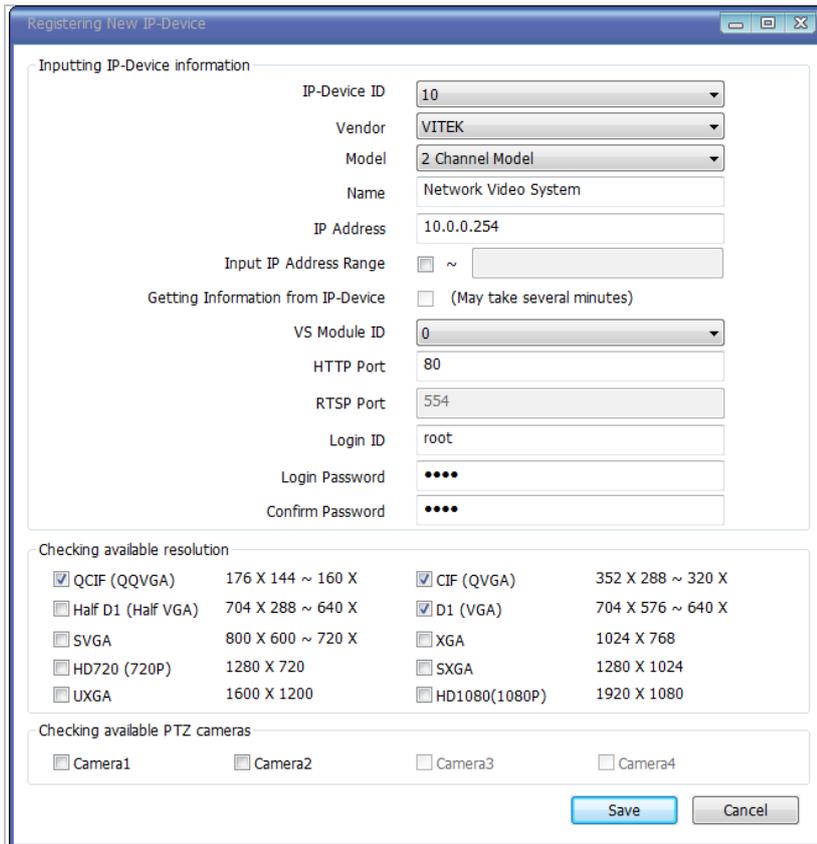


### 7.3. Registering IP Devices

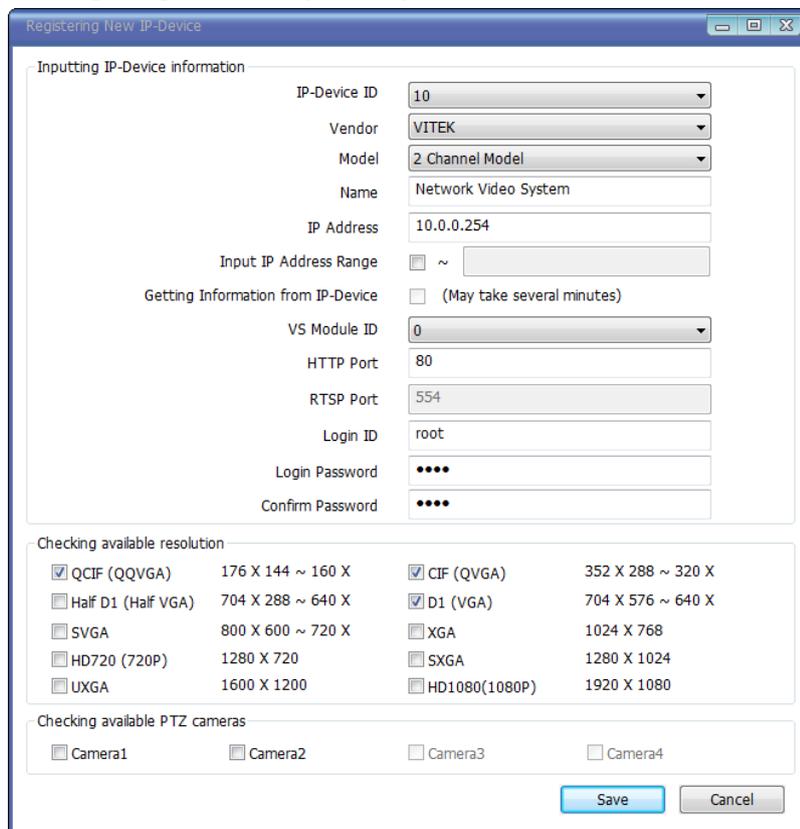
After scanning is finished, you have a list of IP devices found on your network. Next step is registering them. Double click the IP device you want to register or you may highlight it and then click **Register** button. In this example, the first one is chosen to register.



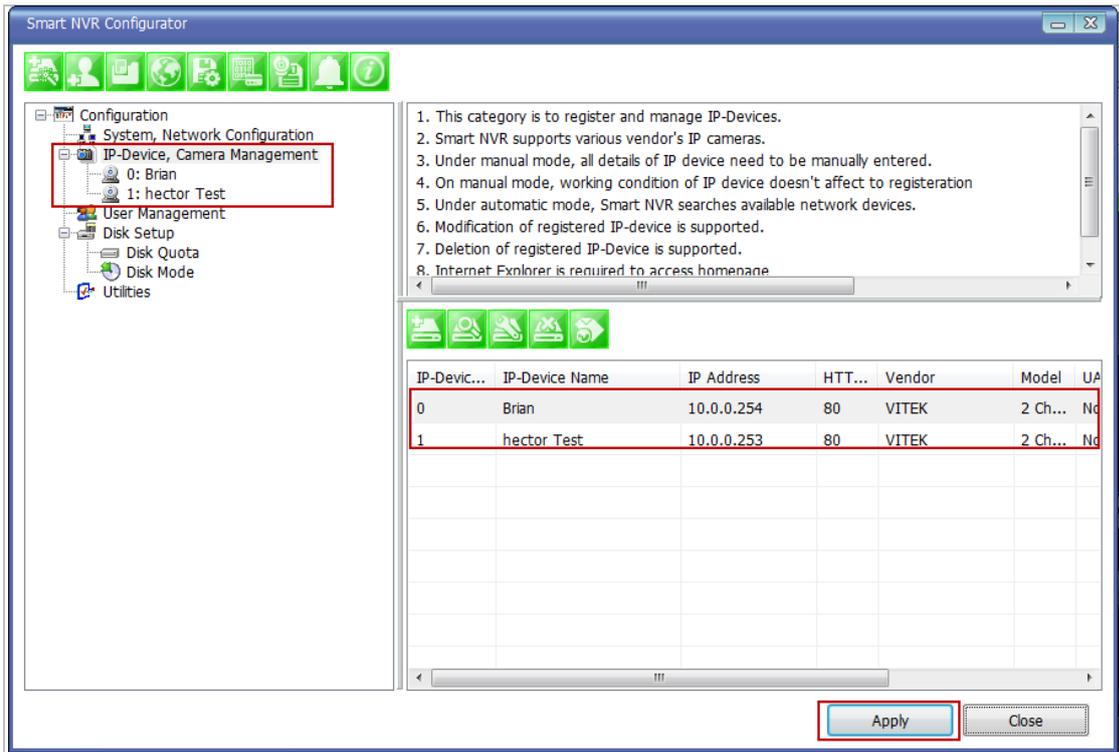
The next window shows up and it's for entering the network parameters and camera resolutions of the IP device you've chosen. You may need to enter the **Login ID** and **Password** here. Click **Save** to finish registering it.



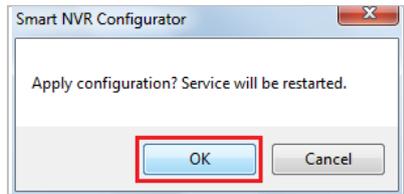
Click on Save after configuring IP device (camera)



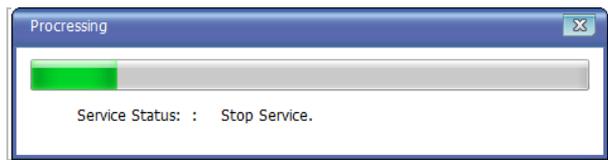
Click Apply after registering one or more IP devices (cameras).The image below represents the configurator with multiple IP devices registered.



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



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



### 7.4. 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.



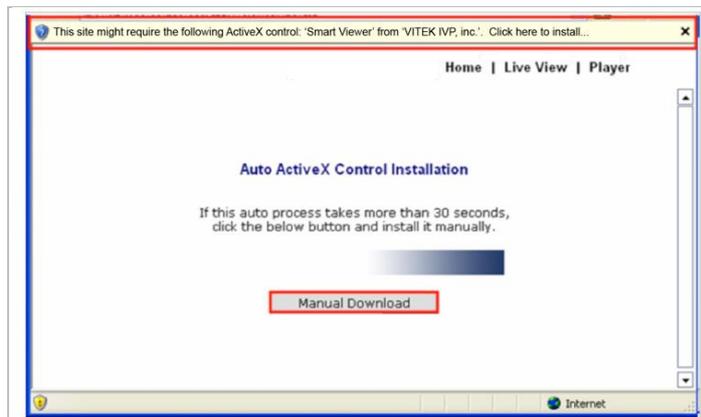
Below is an image of the EN-V-R home page.



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

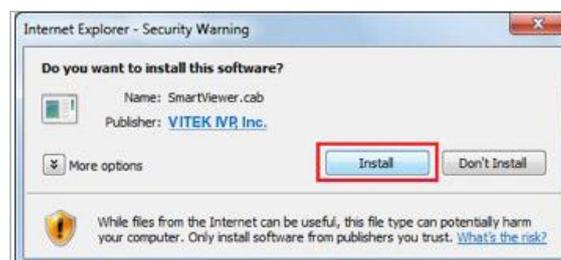
Home | **Live View** | Player

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**.

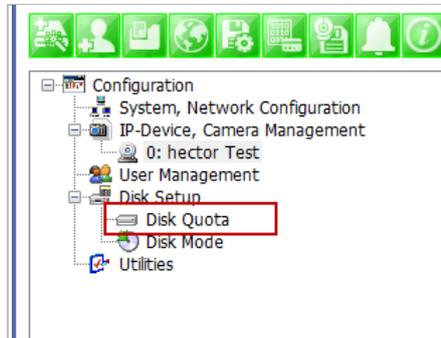


### 7.5. Recording Video

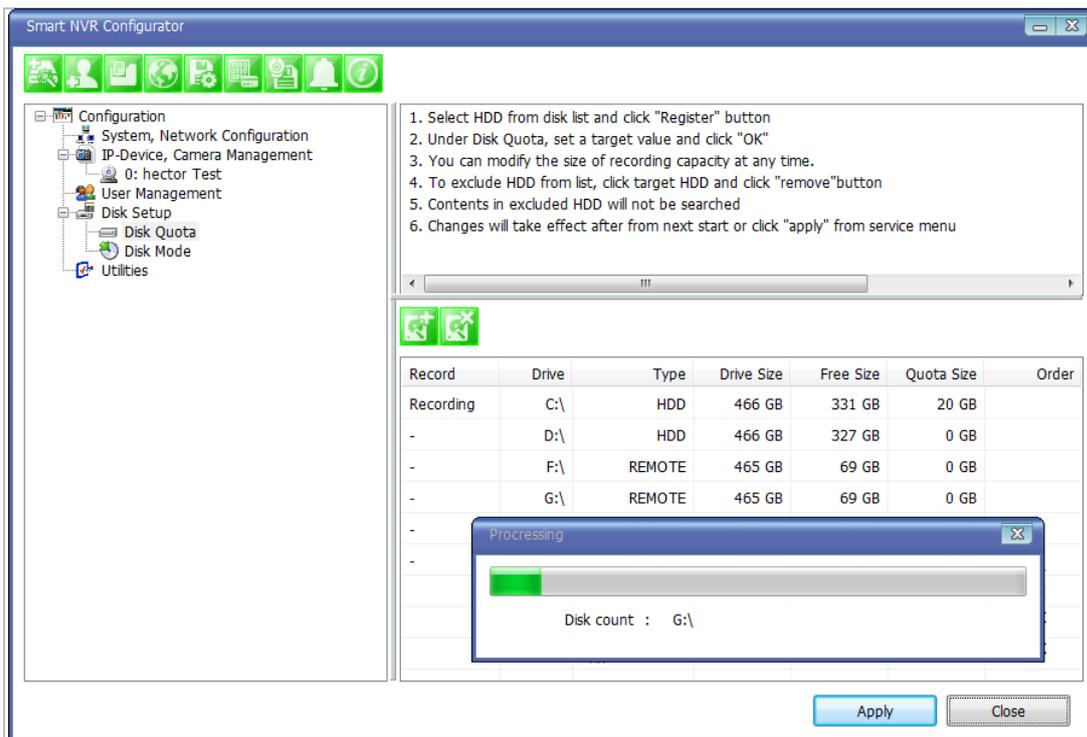
The essential feature of EN-V-R is recording the video from IP devices.

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 Tree Menu.



The hard drive will be ready to start recording video after the progress window is done counting drives. It shows the target drive, total capacity, available size and quota for recording. You are able to change the setting by clicking the first icon of the sub-menu Toolbar.

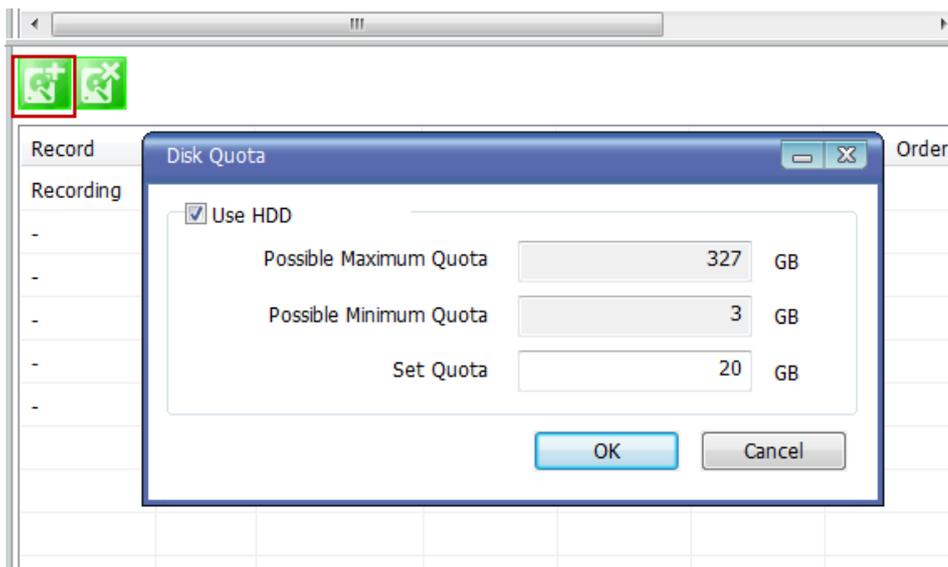


You are able to change the setting by clicking the first icon of the sub-menu Toolbar.

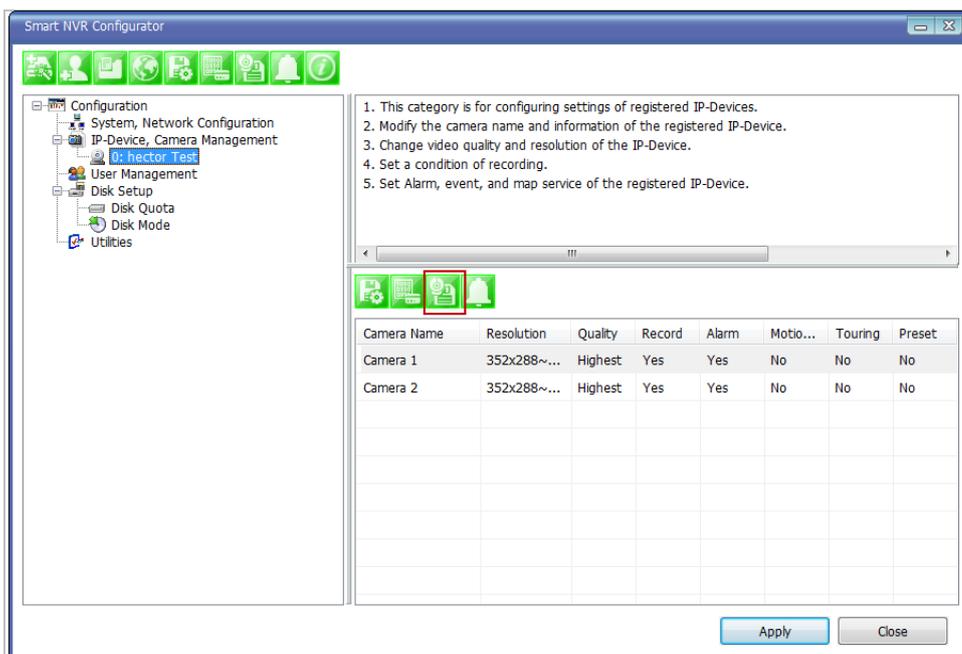
Possible Maximum Quota (the available of free space on your HDD)

Possible Minimum Quota (the minimum amount required)

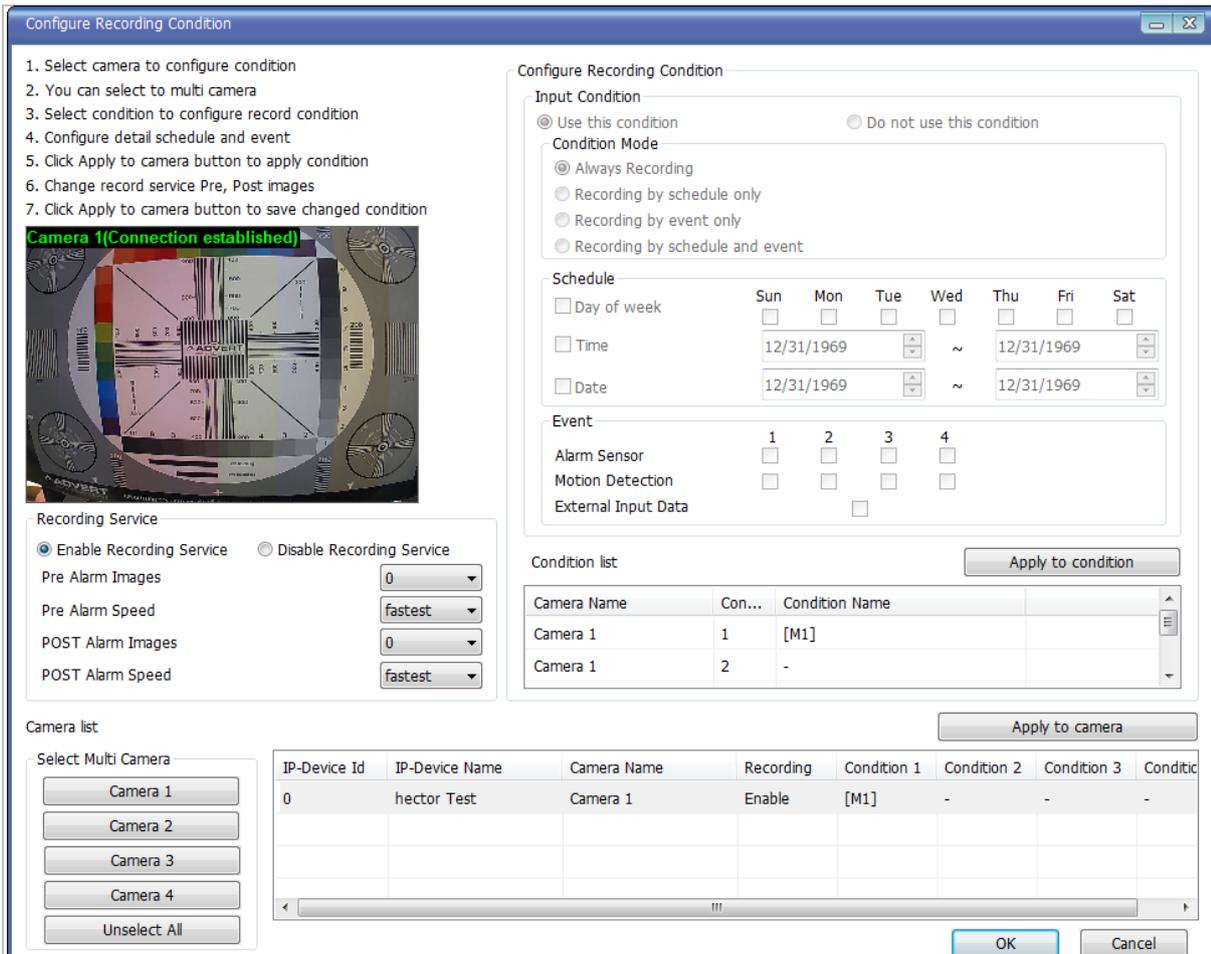
Set Quota (desired amount of HDD to be use for recording)



To set up the recording feature, select an IP device from the Tree Menu 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.



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)

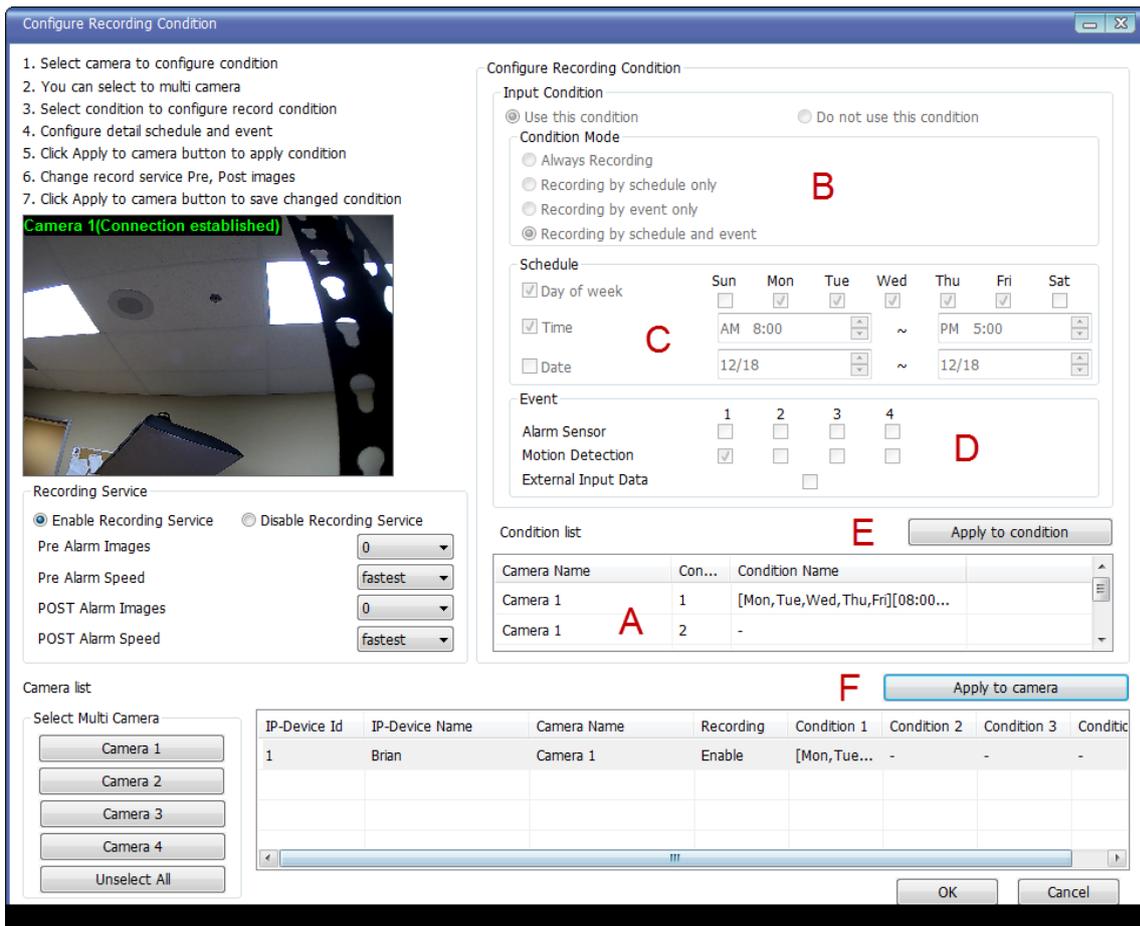
If schedule is recording is enabled, the schedule section will be available to configure (C)

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.

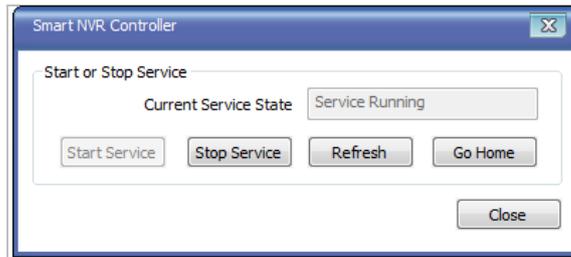


Now that the configuration is done, you need to start the EN-V-R service program. Select Start > All Programs > Vitek > smart NVR > Smart NVR controller.

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

## 7.6. Overall

This chapter, **Quick Start Guide**, is intended to give you the clear understanding of how EN-V-R can be used. If you have come through up to this stage, you are now pretty much aware of how EN-V-R works in principal. EN-V-R has a lot more features and functionalities than you learned from this chapter. For further detail of using EN-V-R effectively, please read the following chapters thoroughly.

## 8. ENVI Smart Player

### 8.1. Introduction

Smart Player is and 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 microSD card as well as standalone NVR (Network Video Recorder) devices.

### 8.2. 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
- 

### 8.3. System Requirement for PC

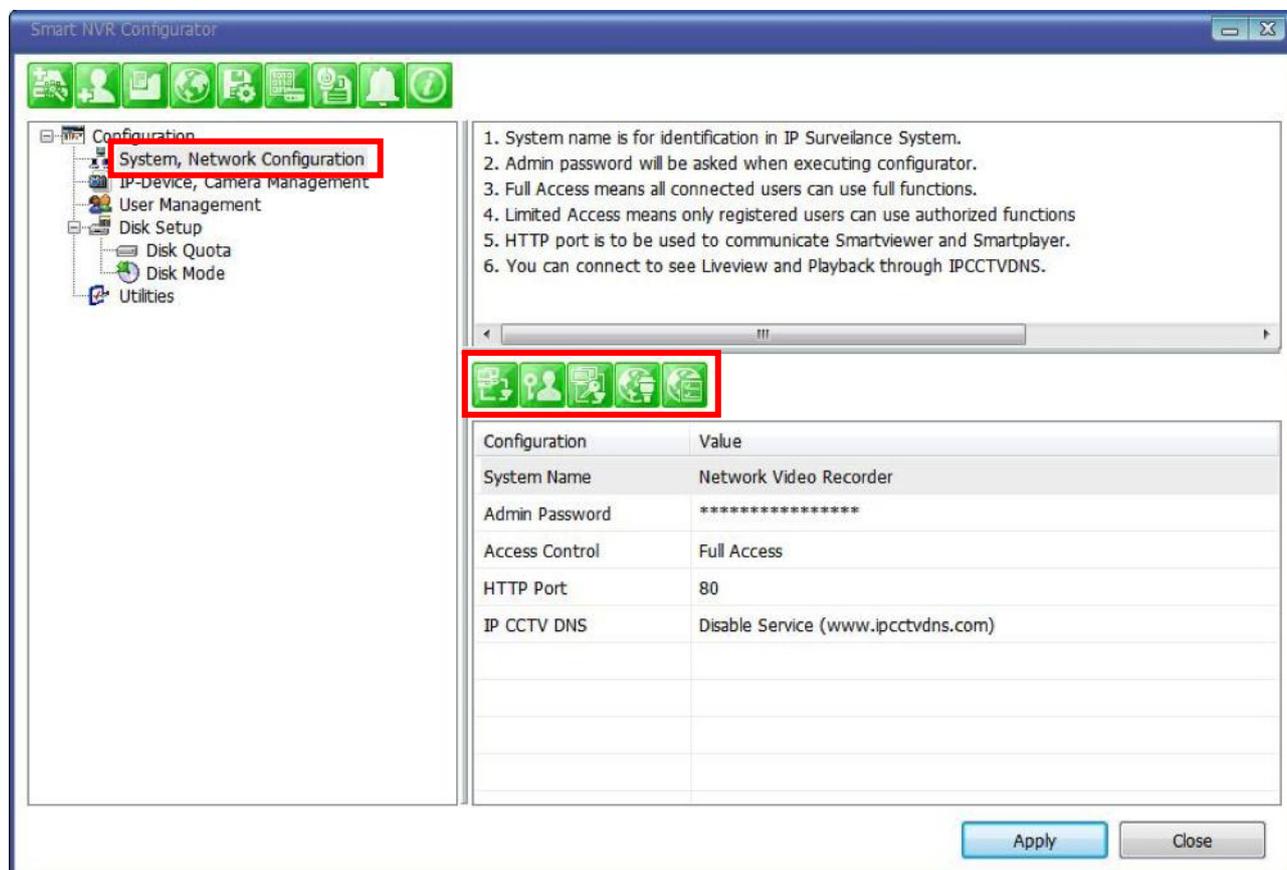
For best quality and performance, your computer needs to meet the minimum requirement.

- 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

## 9. EN-V-R Configuration

### 9.1. 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

#### 9.1.1. Configuring System name



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

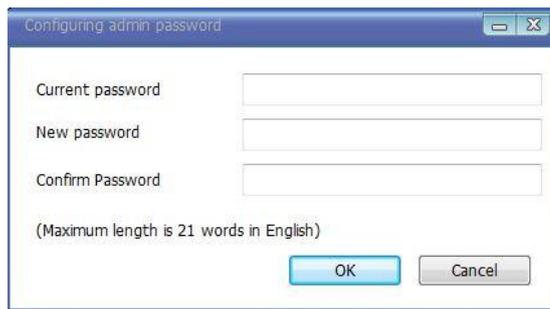


Items	Descriptions
System name	Type in a System name.
OK	Click this button to apply the entered System Name.
Cancel	Click this button to discard the configured System name.

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



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

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



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

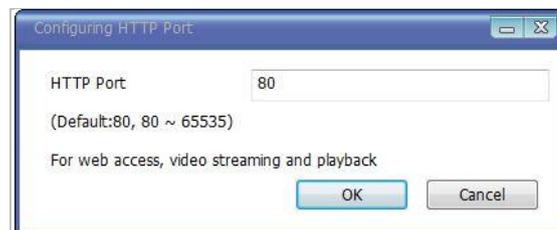


Items	Descriptions
Full Access	Set Full Access for the user. Anyone can connect to the EN-V-R without authentication, and be allowed live view, audio, PTZ, playback.
Limited Access	Set Limited Access for the user. Only the users with proper permission to the camera can access it.
OK	Click this button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

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



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



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.*

9.1.5. System, Network Configuration–IP CCTV-DNS



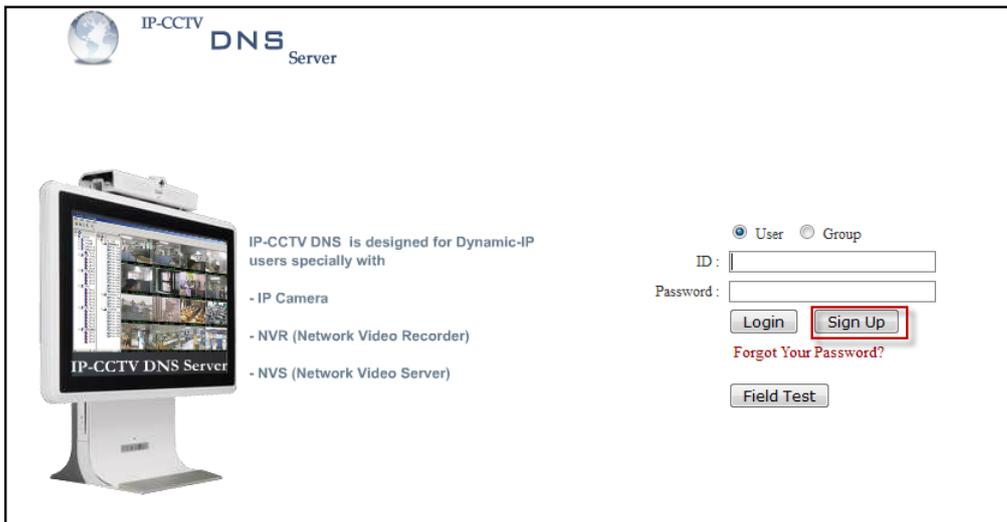
To configure IP CCTV-DNS, click **System, Network Configuration** on the tree menu. Click **Configure IP-CCTV-DNS**



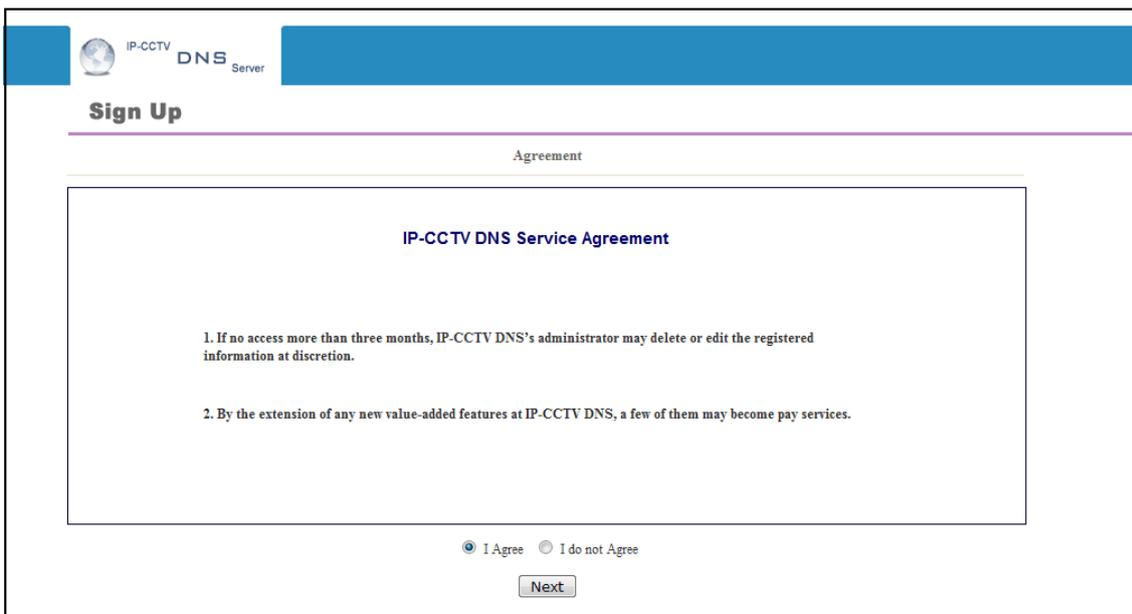
Items	Descriptions
Service	Set to use IP CCTV DNS or not.
DNS Server IP	Vitek IP CCTV DNS address already entered.
Go Server	Directs to Vitek IP CCTV DNS server
MAC	MAC address of EN-V-R already entered
Product Key	Product Key of EN-V-R already entered
External Port	Enter a external HTTP Port to use 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 apply discard the changed IP CCTV DNS settings

9.2. 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.

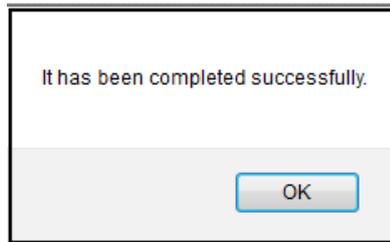


Fill out the requested information as shown below and click on **Apply**.

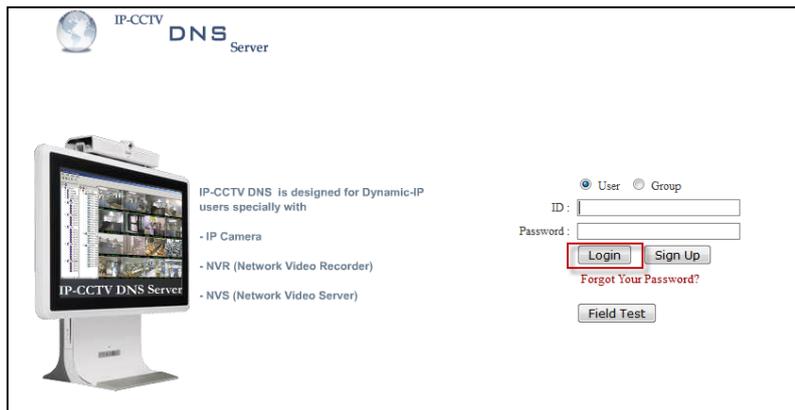
ID [E-Mail] *	vitek@vitekccctv.com	check
Password *	••••••••	
Confirm Password *	••••••••	
Name *	VITEK	
Company	VITEK	
Telephone *	6612948043	
Mobile Phone	6612948043	
Address	28492 Cosstellation Rd Valencia CA 91355	
Country *	Los Angeles (USA)	
Description		

Apply Reset

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



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 Registration** as shown below.

IP-CCTV DNS Server

Hector Login **Product Registration** Product List My Info Log Out

### Product List

Product List - Simple Information Detail Information

Num	Name	Mac Address	External IP	External Port	Internal IP	Internal Port	DDNS Host Name
There is no result.							

Name

**Notice :** Detailed information of products are seen by clicking 'Detail Information' in the upper right and Editing & deleting product information is available.

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

IP-CCTV DNS Server

Hector Login Product Registration Product List My Info Log Out

### Product Registration

Product Registration

Name	<input type="text"/>
Mac Address *	<input type="text"/>
Product-Key *	<input type="text"/>
Notice	<p>* Input Product Name up to 30 characters that you prefer. (If skip, it will be automatically filled with the default model name of the product.)</p> <p>* Mac Address &amp; Product-Key are mandatory to input. Find the information from - Admin-menu =&gt; IP-CCTV DNS™ Setup, OR - Label attached to products with Serial No. &amp; Product key No.</p>

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**.

The product has been registered successfully.

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

## ENVI Series EN-V-R

IP-CCTV DNS Server

Hector Login Product Registration Product List My Info Log Out

### Product List

Product List - Simple Information Detail 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	fw1c7c4502003e

<< Previous | Next >>

Name

**Notice :** Detailed information of products are seen by clicking 'Detail Information' in the upper right and Editing & deleting product information is available.

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

IP-CCTV DNS Server

Hector Login Product Registration Product List My Info Log Out

### Product List

Product List - Simple Information Detail Information

Click Edit to change the DDNS Host Name.

IP-CCTV DNS Server

Hector Login Product Registration Product List My Info Log Out

### Product List

Product List - Detail Information Simple Information

Num	Name	Mac Address	External IP	External Port	Internal IP	Internal Port	Last Refresh Time	IP-sharer model	DDNS Host Name	System Version	Edit	Del
1	la	1C7C4502003E	0.0.0.0	0	0.0.0.0	0			1c7c4502003e	0.0	<input type="button" value="Edit"/>	<input type="button" value="Del"/>

<< Previous | Next >>

Name

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

IP-CCTV DNS Server

Hector Login Product Registration Product List My Info Log Out

### Product Info

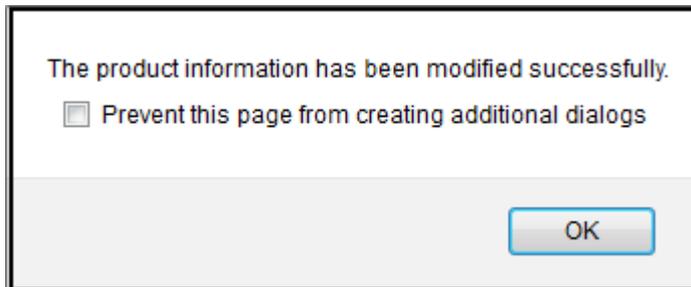
Product Information

Name	<input type="text" value="la"/>
DDNS Host Name	<input type="text" value="vitek1sttest"/> (Only lowercase letters, arabic number, '-', and '_' can be inputted.)
Mac_address	<input type="text" value="1C7C4502003E"/>

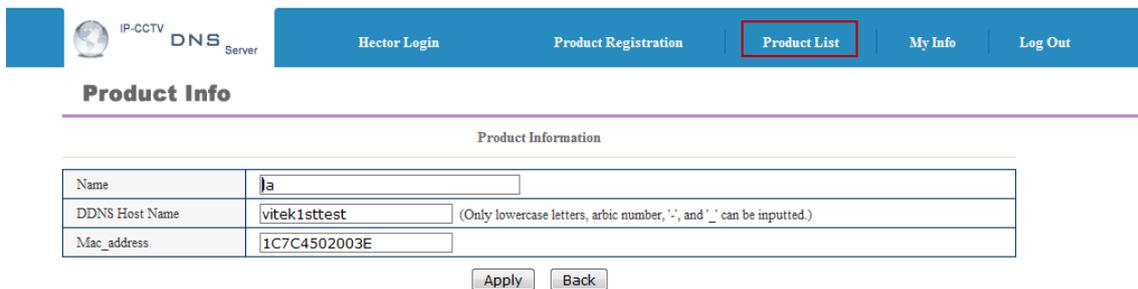
A window will pop up asking if you really want to apply the new configurations, to continue click **OK**.

Do you really want to apply for the new configuration?

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.

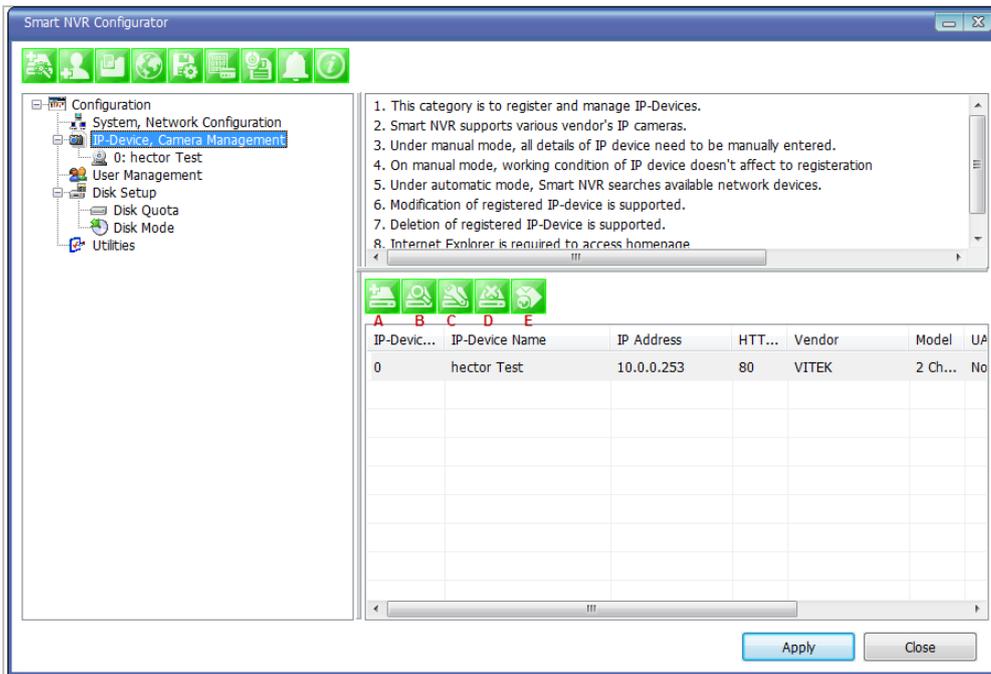


Your camera is now registered and ready for use.



### 9.3. 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.

9.3.1. IP-Device Registration (Manual)



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

**Registering New IP-Device**

**Inputting IP-Device information**

IP-Device ID **A** 0

Vendor **B** VITEK

Model **C** 4 Channel Model

Name **D** SmartNVR 1

IP Address **E** 10.10.237.120

Input IP Address Range **F**  ~

Getting Information from IP-Device **G**  [May take several minutes]

VS Module ID **H** 0

HTTP Port **I** 80

RTSP Port **J** 554

Login ID **K** root

Login Password **L** ●●●●

Confirm Password **M** ●●●●

**Checking available resolution**

<input checked="" type="checkbox"/> QCIF (QQVGA) 176 X 144 ~ 160 X	<input checked="" type="checkbox"/> CIF (QVGA) 352 X 288 ~ 320 X
<input type="checkbox"/> Half D1 (Half VGA) 704 X 288 ~ 640 X	<input checked="" type="checkbox"/> D1 (VGA) 704 X 576 ~ 640 X
<input type="checkbox"/> SVGA 800 X 600 ~ 720 X	<input type="checkbox"/> XGA 1024 X 768
<input type="checkbox"/> HD720 (720P) 1280 X 720	<input type="checkbox"/> SXGA 1280 X 1024
<input type="checkbox"/> UXGA 1600 X 1200	<input type="checkbox"/> QXGA 2048 X 1536

**Checking available PTZ cameras**

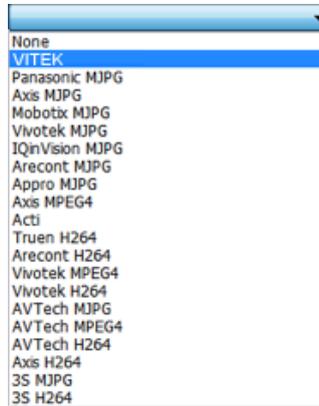
Camera1     Camera2    **P**     Camera3     Camera4

**Q** Save    **R** Cancel

Item	Description
<b>A</b> 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.

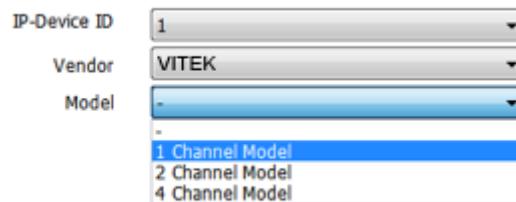
**B** Vendor



---

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

**C** Model



---

**D** Name Type in the name of the IP-Device.

---

**E** 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.)

---

**F** Input IP Address Range Enter the last IP address of the range.

---

**G** Getting Information from IP-Device Check this box if the information from IP-Device needs to be acquired.

---

**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)

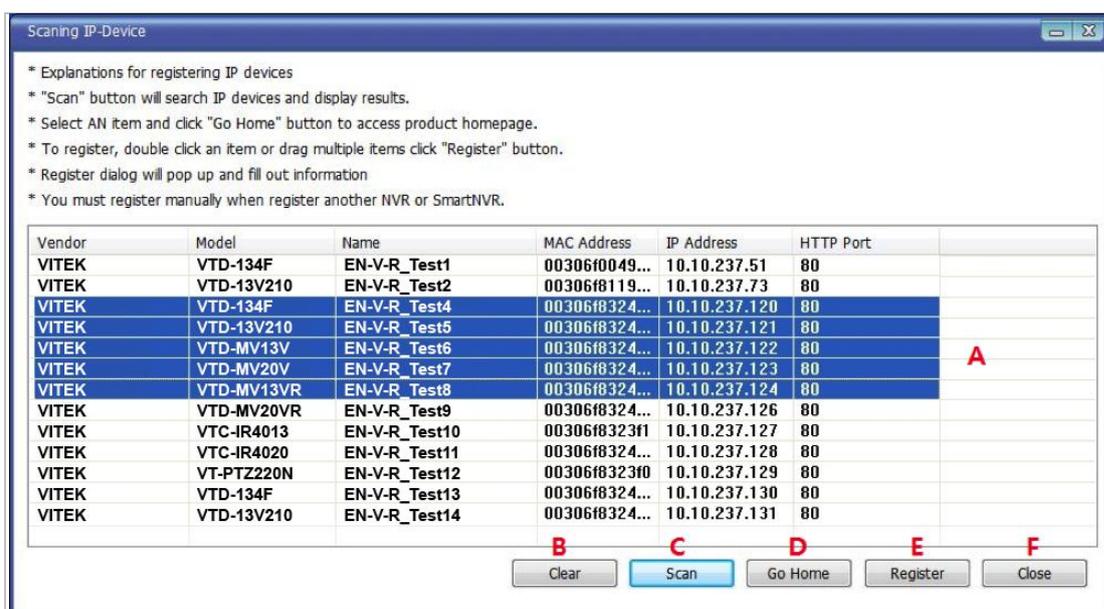
---

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)
O	Checking available resolution	Select the Video Resolution for the device. <i>Not used any more, all resolution is done at camera level</i>
P	Checking available PTZ camera	Checkboxes to choose if PTZ is supported on the IP device.
Q	OK	Click this button to apply the configured values.
R	Cancel	Click this button to discard the configured values.

### 9.3.2. IP-DeviceRegistration (Automatic)

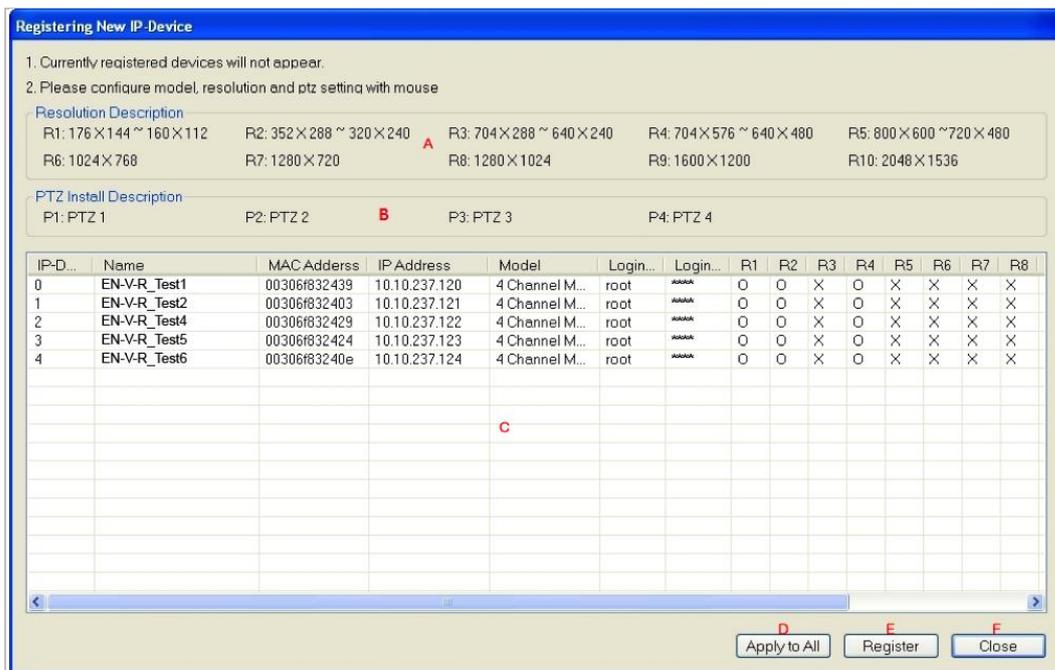


To register an IP-Device by automatic scanning, click **IP-Device, Camera Management** on the tree menu. Then Click Scan available IP devices and register



Items	Descriptions
<b>A</b> 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>B</b> Clear	Clear the scanned IP Devices from the list.
<b>C</b> Scan	Start scanning for IP Devices on the network.
<b>D</b> Go Home	Go to the home page of the IP device selected from the list.
<b>E</b> Register	Go to the registration window for the IP Device selected.
<b>F</b> 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
<b>A</b> Resolution Description	Descriptions of the image resolution modes in the IP-Device list.(R1, R2, R3, R4, R5, R6, R7, R8, R9, R10)
<b>B</b> PTZ Install Description	Descriptions of the PTZ numbers in the IP-Device list. (P1, P2, P3, P4)
<b>C</b> IP-Device list	IP-Device list to select from.

<b>D</b>	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.)
<b>E</b>	Register	Click this button to confirm and save the registered IP-Device added.
<b>F</b>	Cancel	Click this button to cancel IP-Device registration.

9.3.3. I

**P-DeviceModification**



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

Items	Descriptions	
<b>A</b>	IP-Device ID	IP-Device ID is displayed. (not allowed to modify)
<b>B</b>	Vendor	Select the Vendor of the device.
<b>C</b>	Model	Select how many channels the device support.
<b>D</b>	Name	Change the Name as required.
<b>E</b>	IP Address	Enter the IP Address to use with the selected device.
<b>F</b>	Input IP Address Range	(not allowed to modify)
<b>G</b>	Getting Information from	(not allowed to modify)

## ENVI Series EN-V-R

---

IP-Device		
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 any more, 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.
Q	Cancel	Click this button to discard the changed values.

---

### 9.3.4. IP-DeviceDeletion



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

### 9.3.5. IP-DeviceHomepage

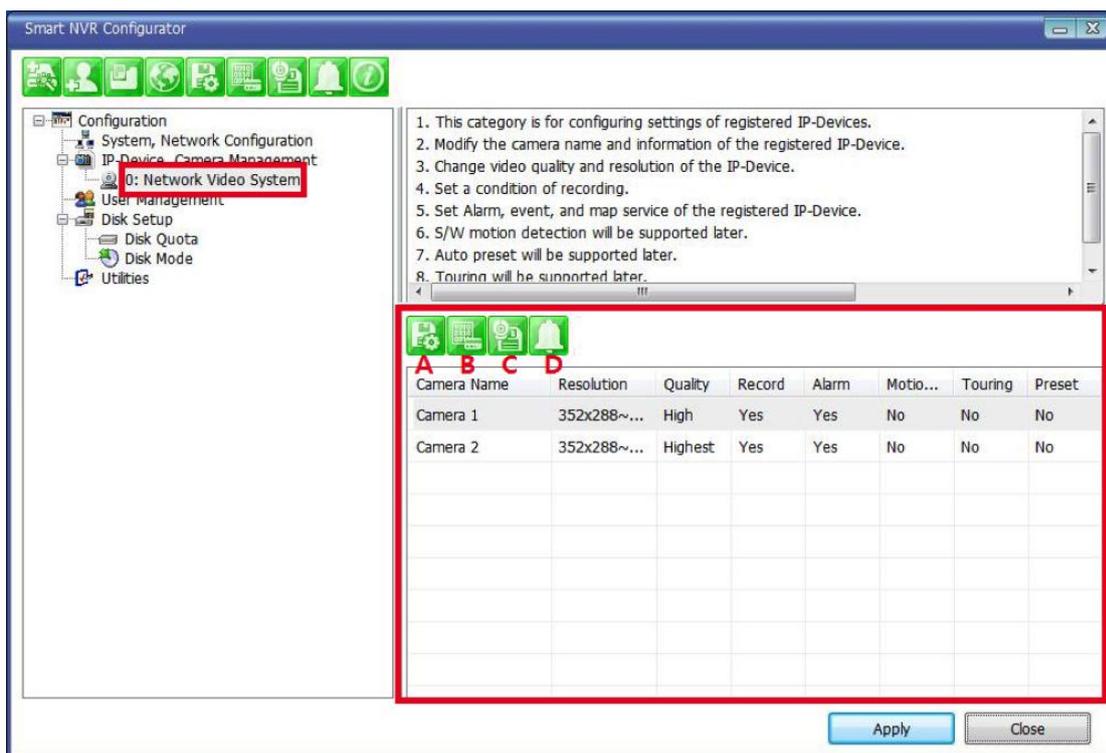


To go to the home page of an IP-Device, click the **IP-Device, Camera Management** on the tree menu. Then select the IP device. Click Go to IP-Device homepage

## 9.4. 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 tree menu.

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

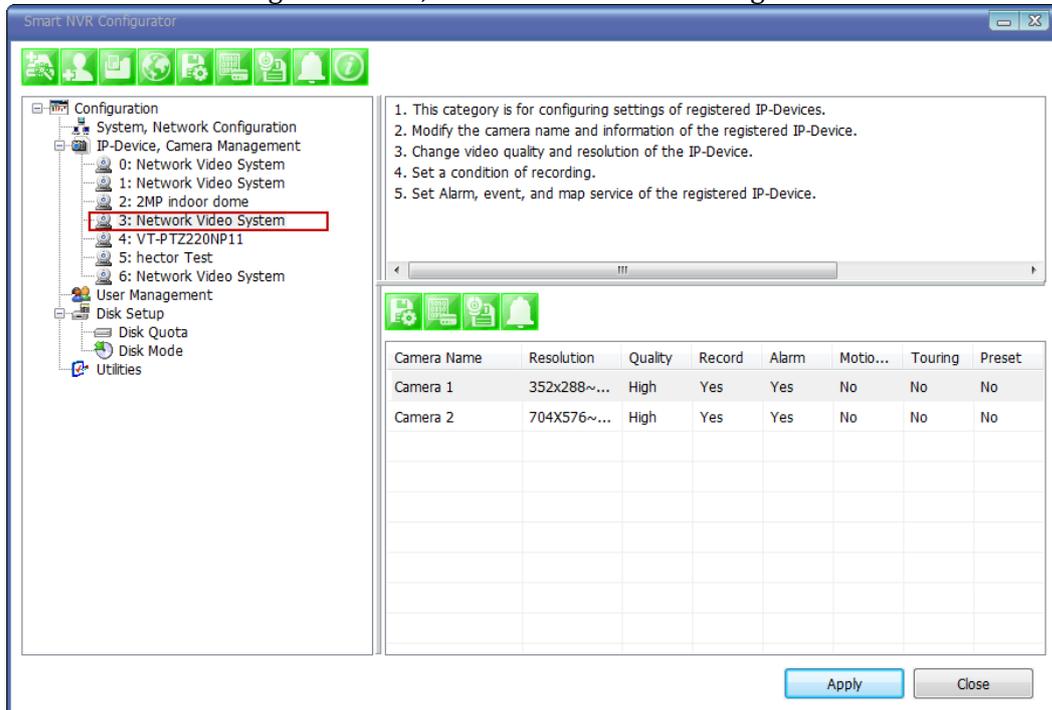


	Items	Descriptions
	A Camera Information	Configure Information of the selected camera.
	B Resolution and Quality	Choose the resolution and quality of cameras.
	C Recording Conditions	Set up recording conditions.
	D Alarm and Map service settings	Configure Alarm and Map service functions.

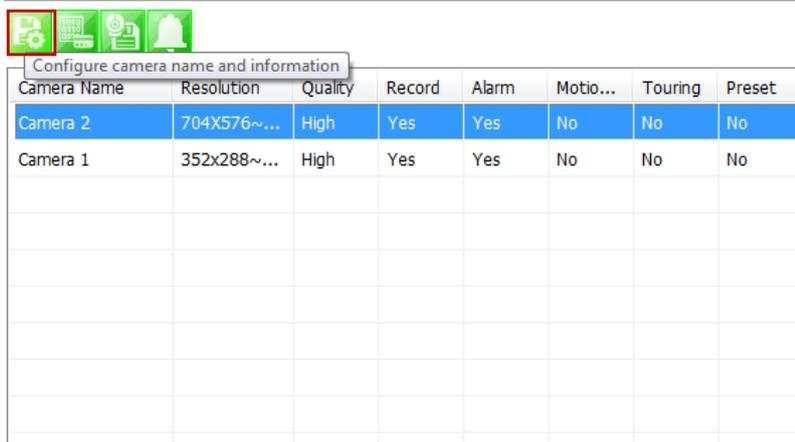
9.4.1. Configure Camera Name and Information



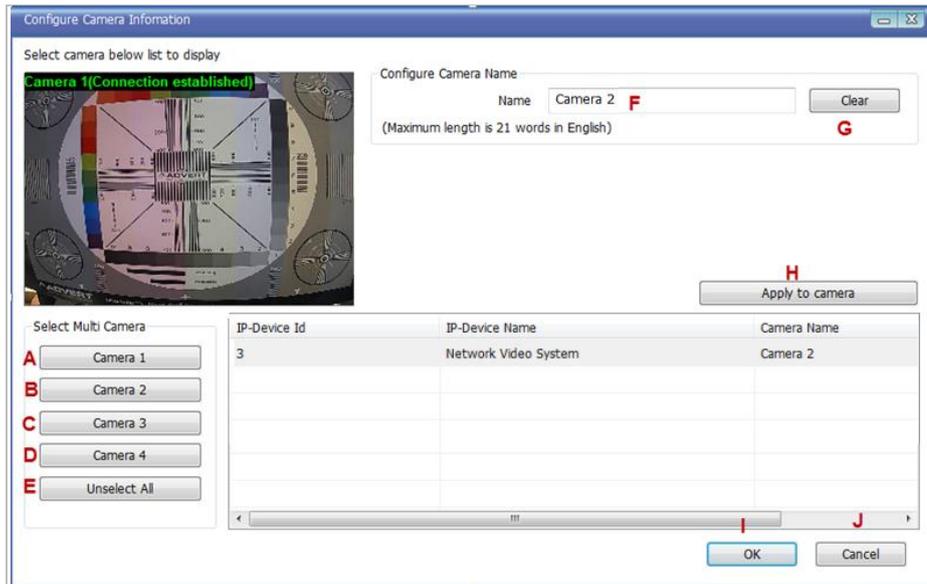
From the configuration list, select a camera to be assigned with a name.



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



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

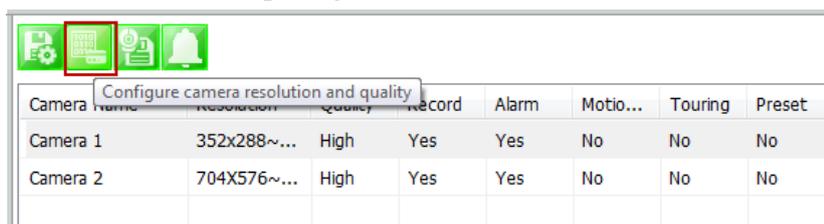


	Items	Descriptions
A,B,C,D	Camera Selection	Select one or more cameras for name assignment by clicking buttons.
E	Unselect All	Clear the device list which shows the selected cameras.
F	Name	Type in a camera name.
G	Clear	Clear the camera name field.
H	Apply to Camera	Apply the changed camera name to 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.

### 9.4.2. Camera Resolution, Quality

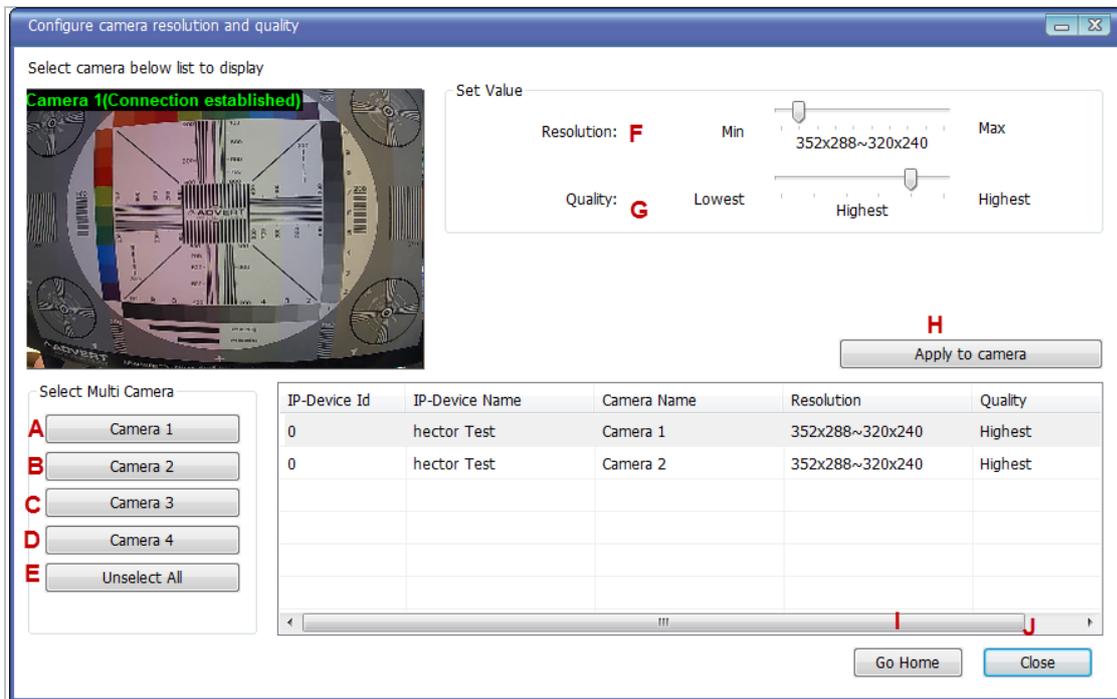


To configure a camera's resolution and video quality, select a camera to configure and click **Configure camera resolution and quality**



**ENVI Series EN-V-R**

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.

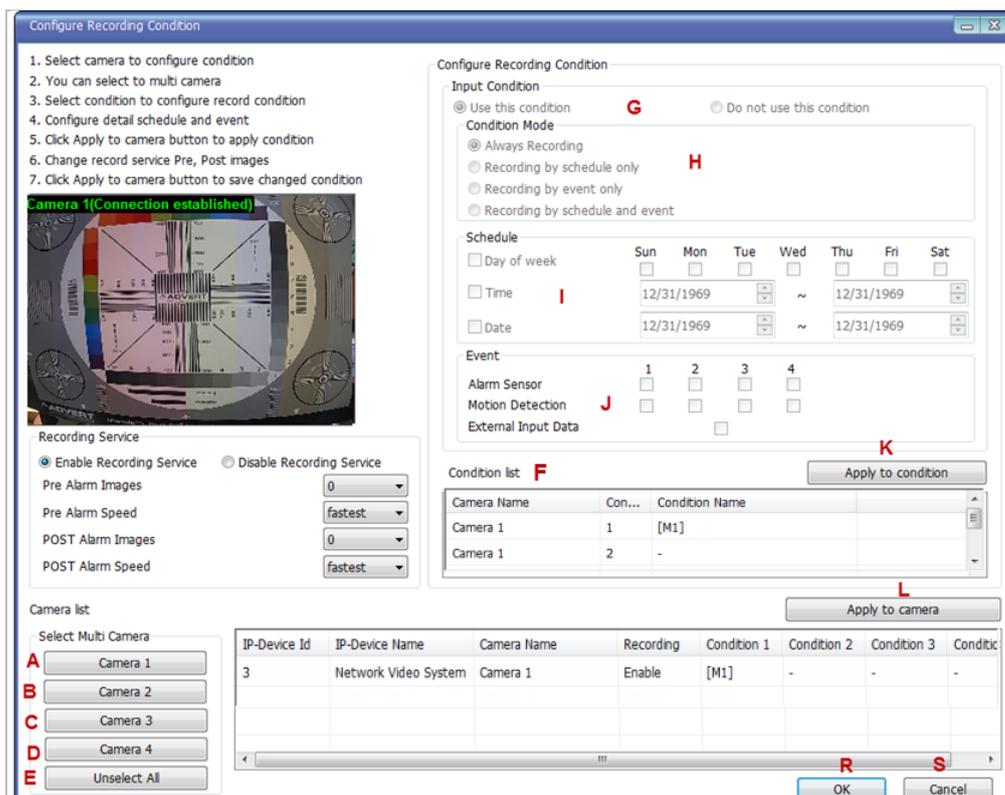
**Configure Camera Recording Condition**



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

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

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.

**ENVI Series EN-V-R**

<b>L</b>	Apply to Camera	Apply the condition to camera.
<b>M</b>	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.
<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 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**)

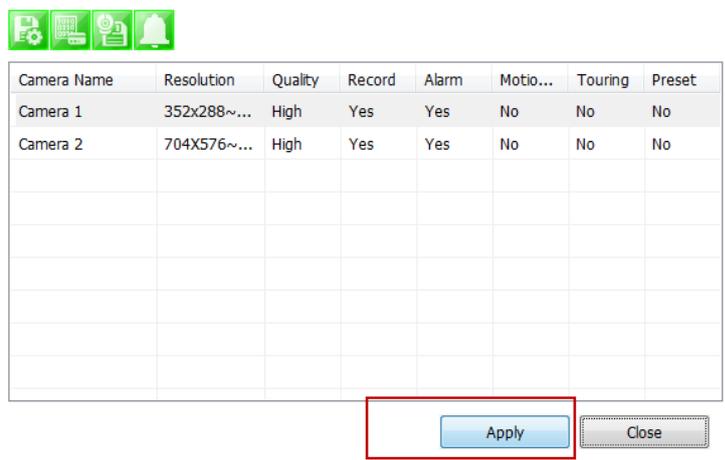
Event

	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**), then click **OK**(**R**)

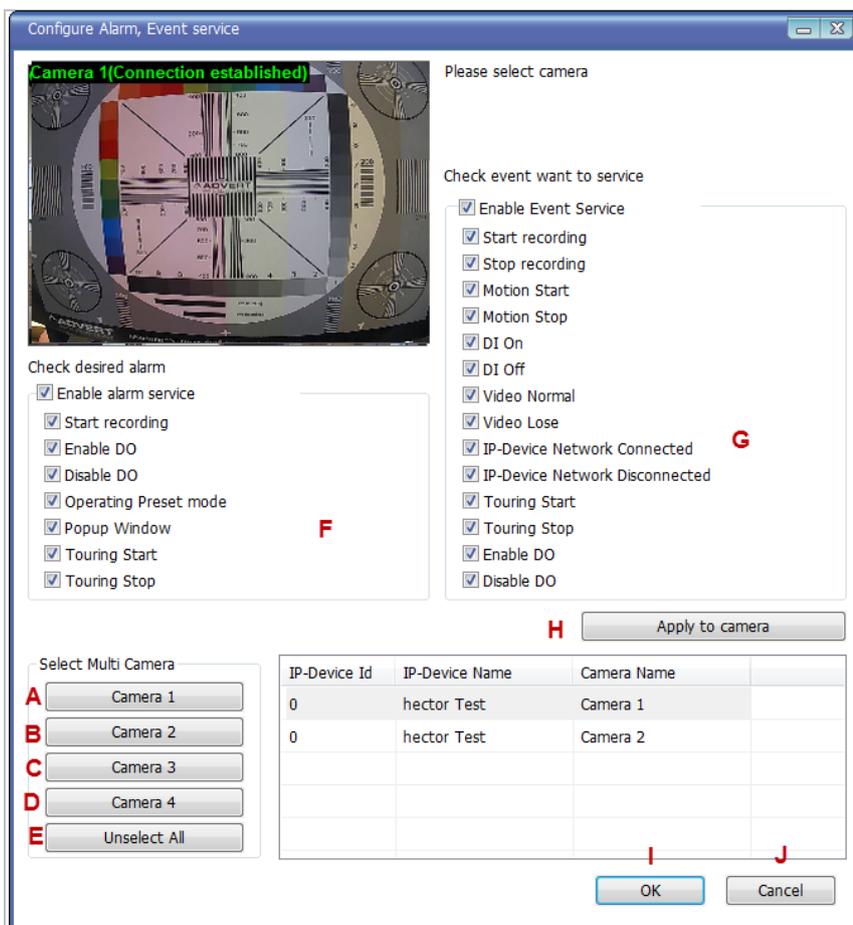
When that screen closes click **Apply**



9.4.3. Alarm, Event Configuration



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

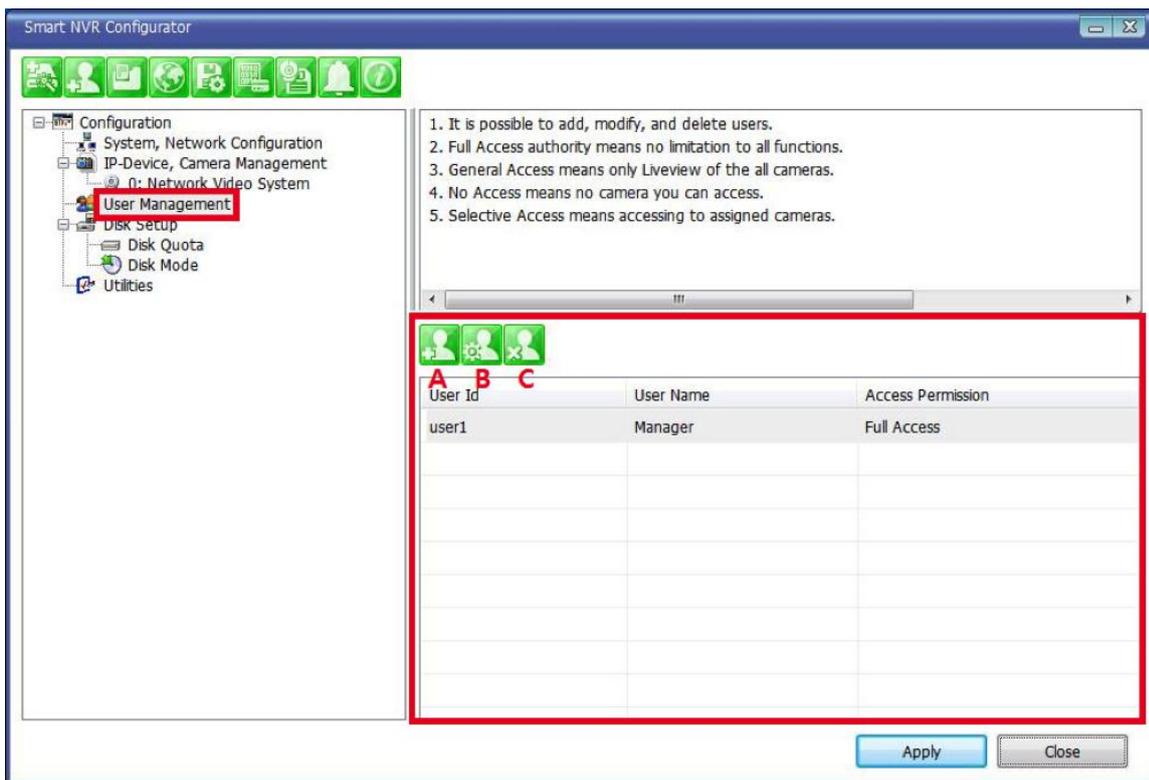


**Item**                      **Description**

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	Alarm Service Setup	Put check marks on alarm types to use.
G	Event Service Setup	Put check marks on event types to use.
H	Apply to Camera	Click this button to apply the changes to the camera.
I	OK	Click this button to confirm the change and exit the window.
J	Cancel	Click this button to cancel the Alarm, Event configuration.

### 9.5. User Management

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



	Items	Descriptions
	A User Registration	Register new users to the system.
	B User Modification	Change the information of existing users.



**C** User Deletion

Remove the account of existing users.

### User Registration



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

**User Registration**

User Account

**A** User ID

**B** Password

**C** Confirm password

**D** Name

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

System Resource Access Permission

All Channels Access

**E**  General Access(Only View)

No Access

Selective Access

System **F**

Enable	Module	Port	Alarm Control	PTZ Control	Audio Control	Playback
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Network Video Sy	All Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**G** OK **H** Cancel

	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	<p>Choose the level of permission for System resource access.</p> <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 access permission 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.

**9.5.1. User Modification**



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

**9.5.2. User Deletion**

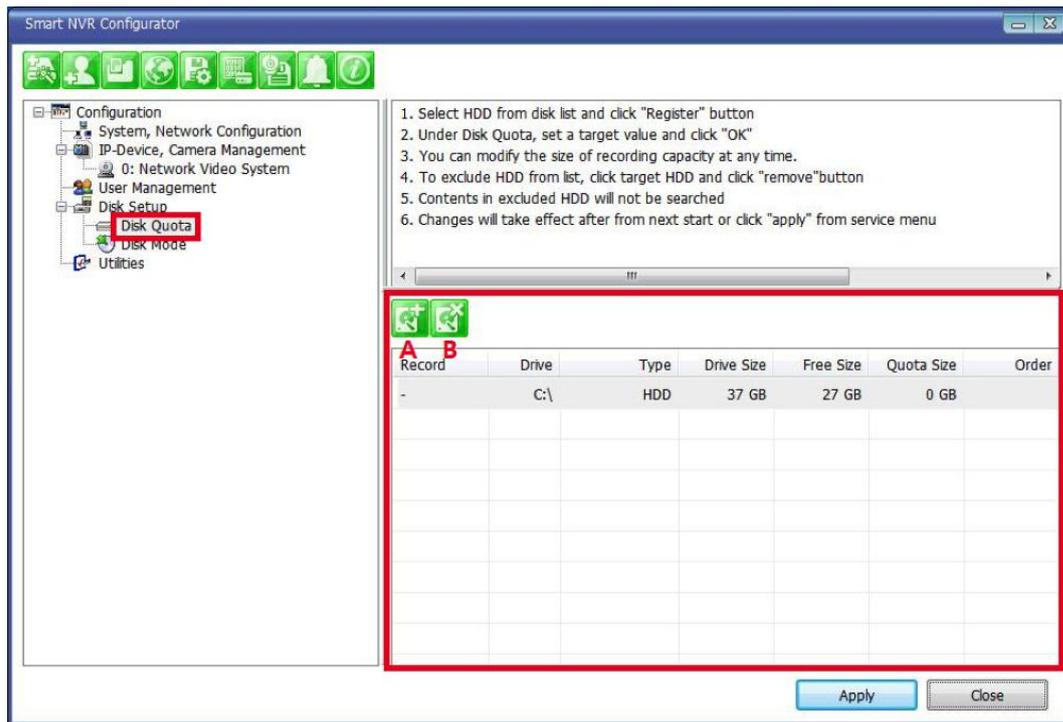


To delete an existing user, select the user name then click Remove Registered user account. Another screen will pop up confirming to proceed with deletion, click **OK** to proceed.

**9.6. Disk Setup**

**9.6.1. Disk Setup**

When you click **Disk Setup** on the tree menu, 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.



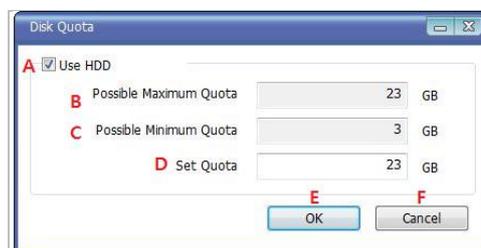
	Items	Descriptions
	A Disk Quota Setup	Define the HDD for recording and configure the size of quota.
	B Disk Quota Deletion	Delete previously assigned disk quota.

9.6.2. 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.

Now 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.



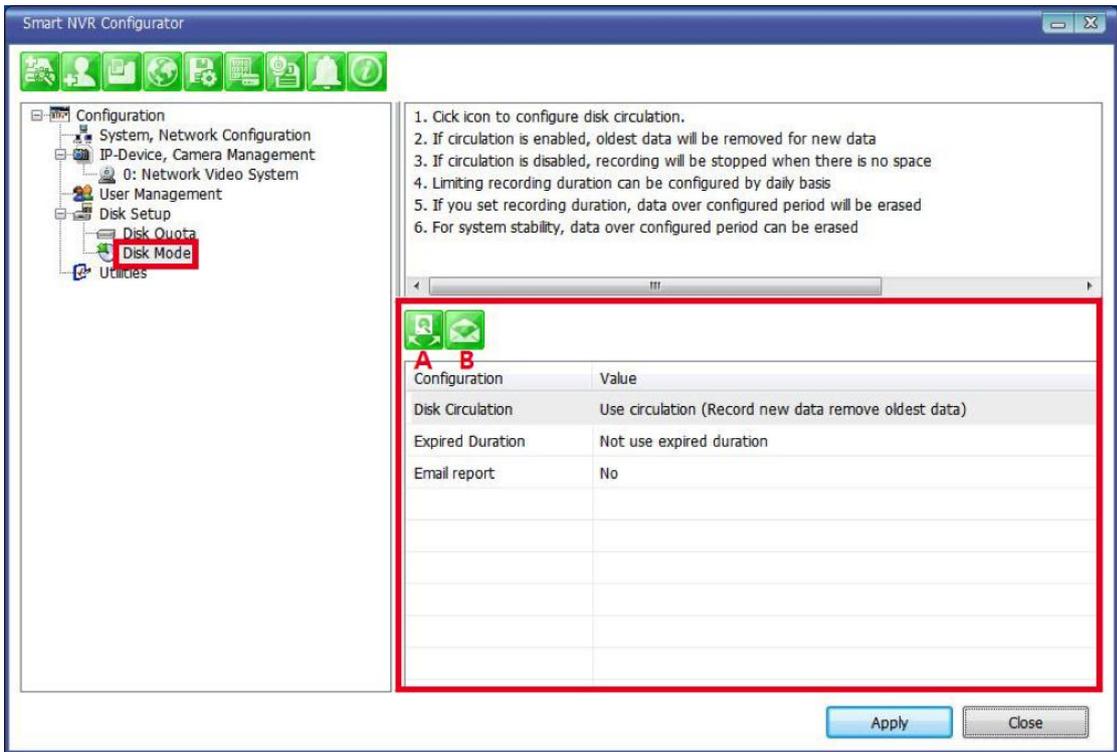
	Item	Description
A	Use HDD	Decide whether this HDD is to be used.
B	Possible Maximum Quota	Display Possible maximum quota on this HDD.

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'nd button on the sub tool bar.

**9.6.3. Disk Mode Change**

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



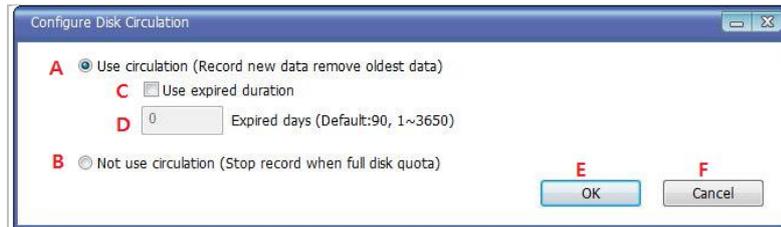
Items

Descriptions

	A	Disk Circulation Setup	Configure disk circulation type.
	B	Disk Usage Report Setup	Configure email address for reporting.



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

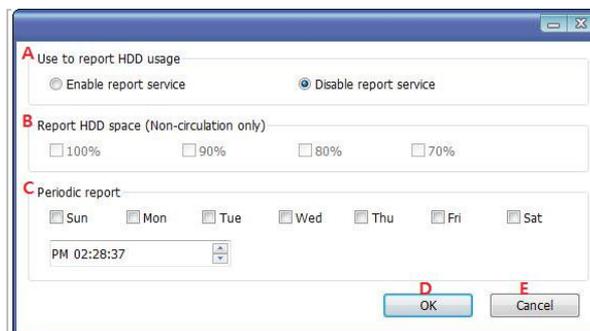


Item	Description
A	Use circulation Select this if disk circulation will be used.
B	Not use circulation Select this if disk circulation will not be used.
C	Use expired duration Decide whether the expiration will be used for recording. (This can be se when Use circulation is selected.)
D	Expired days Enter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

Configure email reporting for disk usage



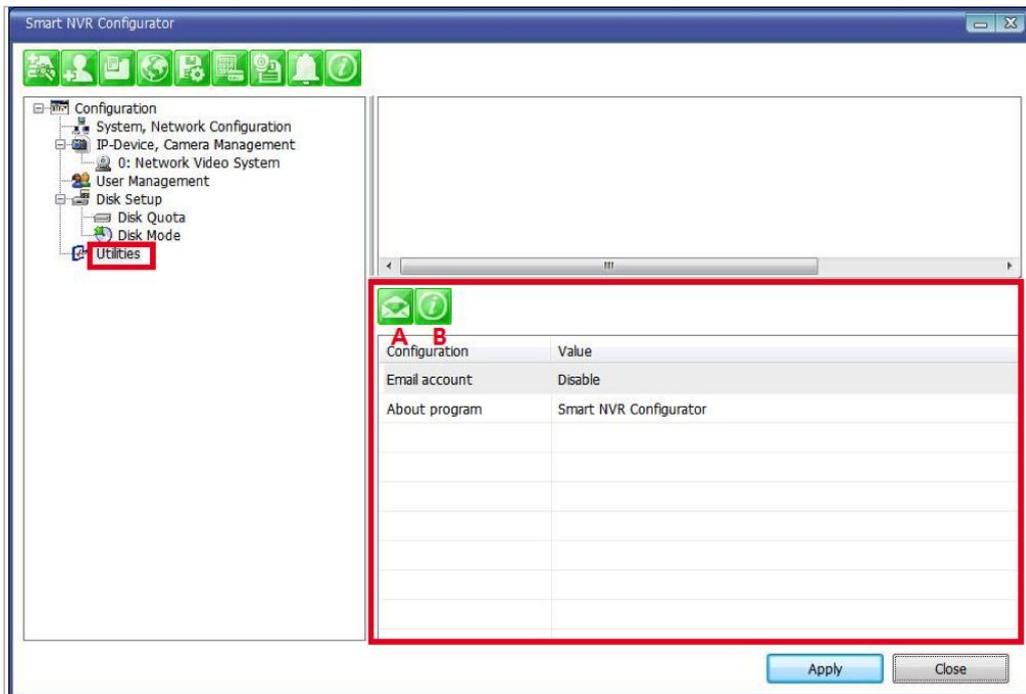
To modify the email notification behavior for hard disk recording.



	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.

### 9.7. Utilities

Select Utilities from the tree menu. You can perform two functions in Utility category, 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.

### 9.7.1. Email account Configuration



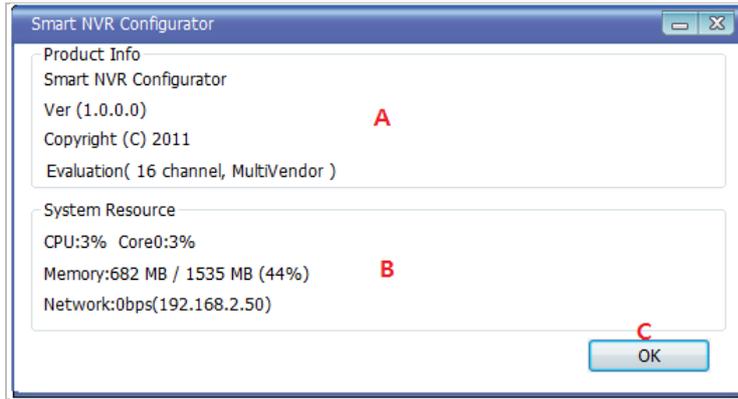
Once an email account is registered here, you can receive email notification from EN-V-R program upon a certain event. To configure an email account, click Utilities on the tree menu. Click *Configure email account for mail service*

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.

### 9.7.2. About Program



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



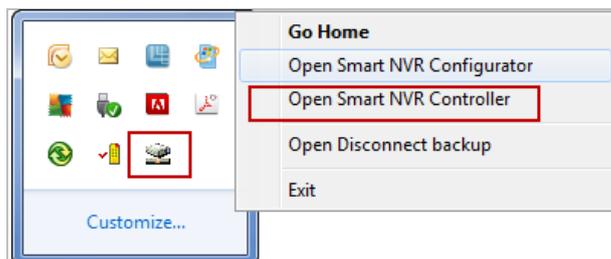
Items	Descriptions
A	About program Show the information about the EN-V-R running.
B	System Resource Displays the PC's system resource information.
C	OK Click this button to close the Window.

## 10. Using EN-V-R Controller

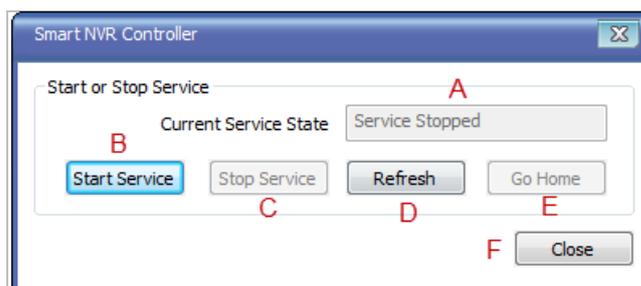
To open EN-V-R controller,click **Start >All Programs>Vitek>SMART NVR Controller**.



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.

## 11. Connecting to EN-V-R

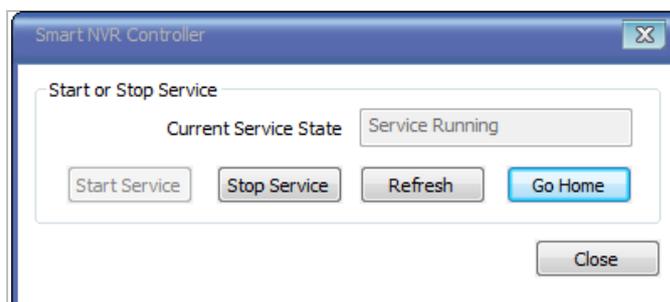
### 11.1. PC with EN-V-R installed

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

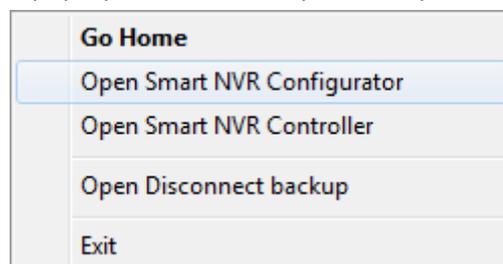
- Click **Go Home** in EN-V-R Configurator



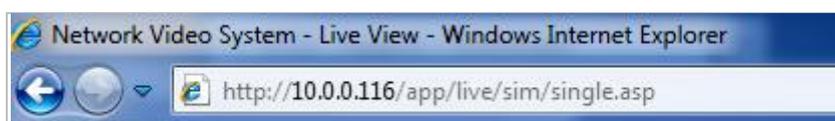
- EN-V-R Controller window.



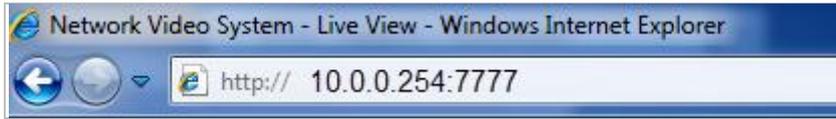
- Click **Go Home** from the pop-up menu on the System Tray.



- 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.

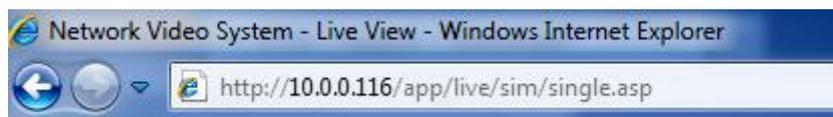


	Items	Descriptions
A	Home	Go to EN-V-R's homepage.
B	Live View	Click this button to execute Live View program. You can use various features such as live view, audio transmission, PTZ control, unconditional recording, etc.
C	Player	Click this button to search, record, and back up the video data sent from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

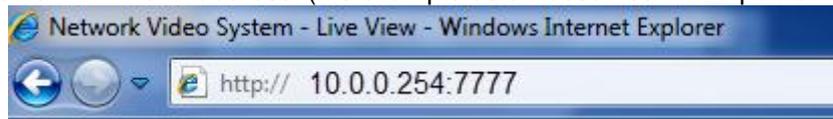
### 11.2. PC without EN-V-R

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

*Note: For further details on how to use Live View program, please refer to ENVI Series Viewer User's Manual. For Player, please refer to ENVI Series Player User's Manual.*



- 
- 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)



## 12. ENVI Smart Player

### 12.1. 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 microSD card as well as standalone NVR (Network Video Recorder) devices.

### 12.2. 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

### 12.3. 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

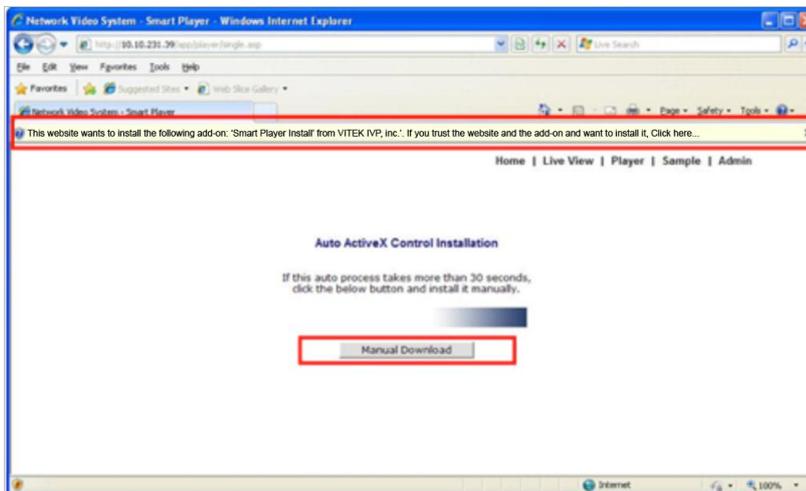
## 12.4. Installing and Uninstalling

### 12.4.1. 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...

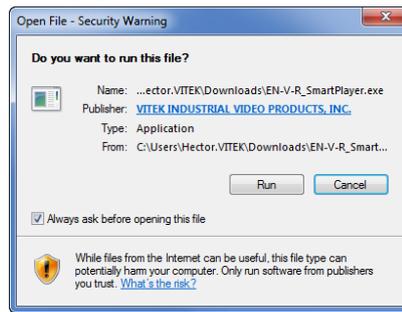


After the installation is successfully completed, **Smart Player** window will be displayed.

### 12.4.2. 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.vitekctv.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.

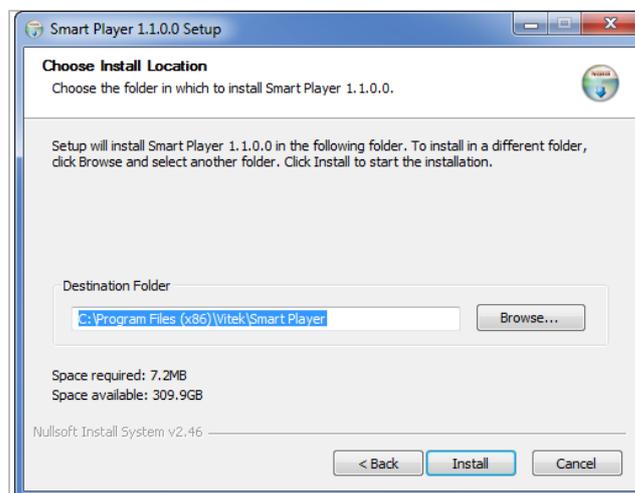
Click **Run** to start installing.



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**.



## 12.5. Uninstalling Smart Player

Before uninstalling, close all the Internet Explorer windows.

### 12.5.1. Uninstalling on Program Menu

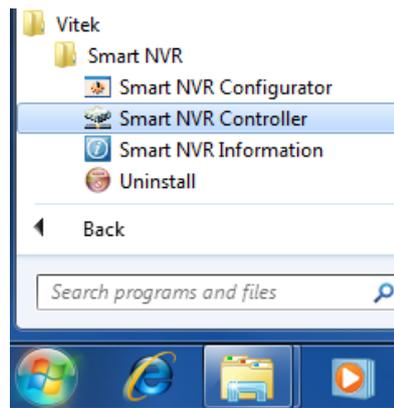


Click **Uninstall** and the following window will be shown. Click the **Yes** button.

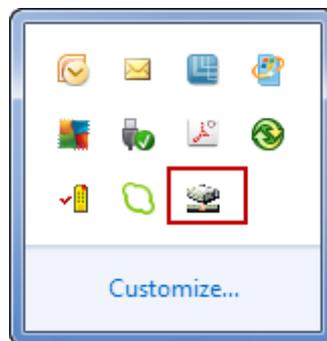


## Live View & Play Back

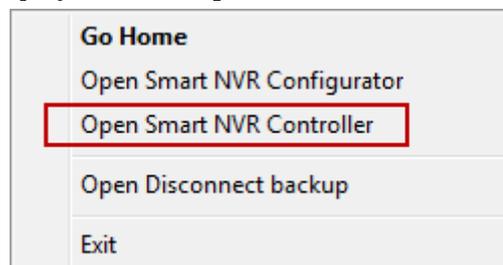
To live view and play back your cameras, go to **Start** menu, **All Programs, Vitek Folder**, Click on **Smart NVR Controller**, as shown below.



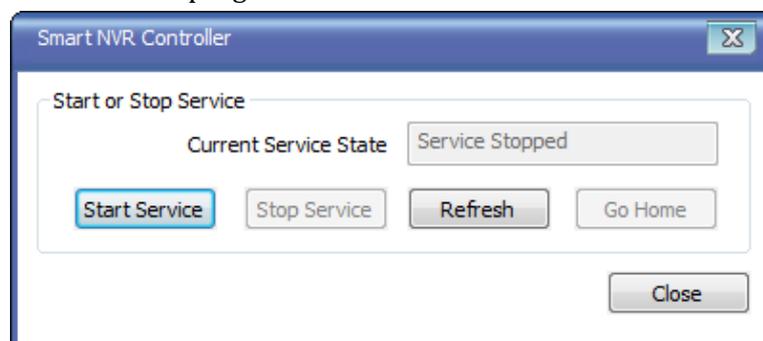
Look for icon on right side of taskbar as shown below (windows XP and windows 8 might show it different). Right click icon.



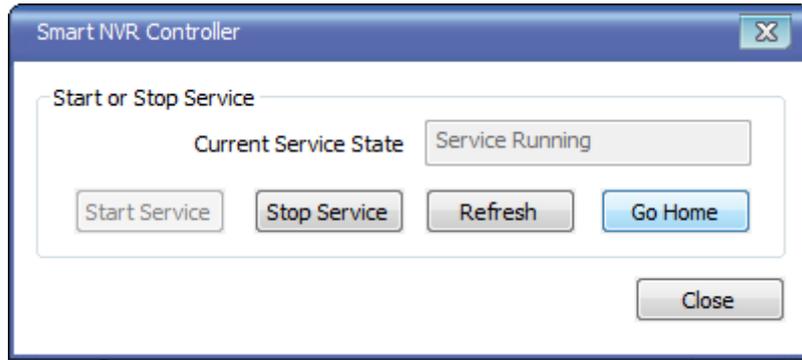
The following window will display. Click on **Open Smart NVR Controller**.



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



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

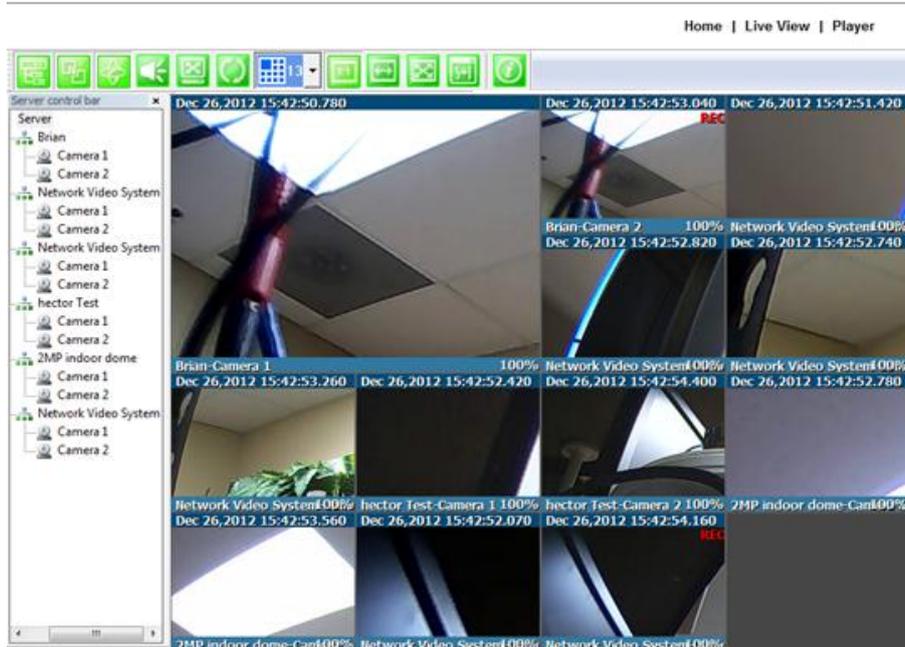


Click on **Live View**

Home | **Live View** | Player



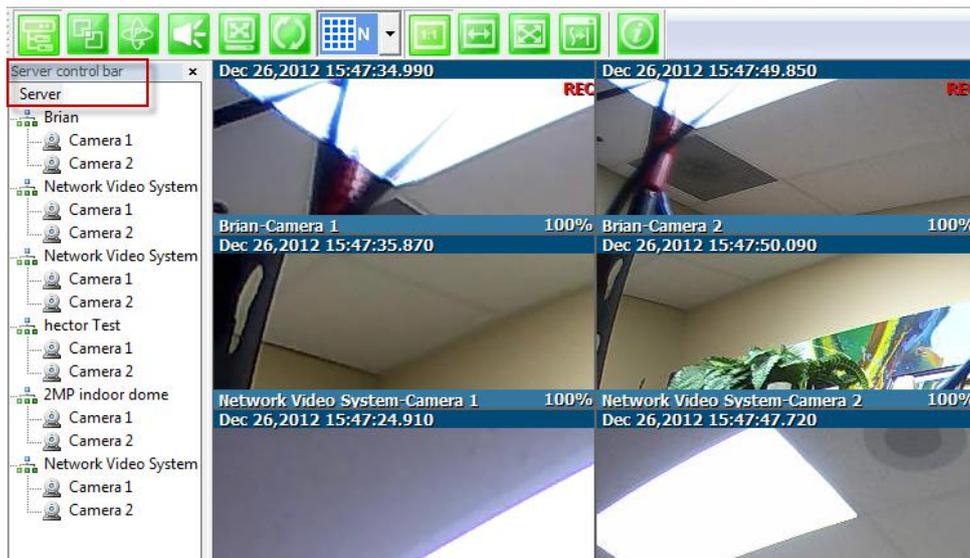
The following screen will be display were you can configure your live view.



Server Control Bar

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





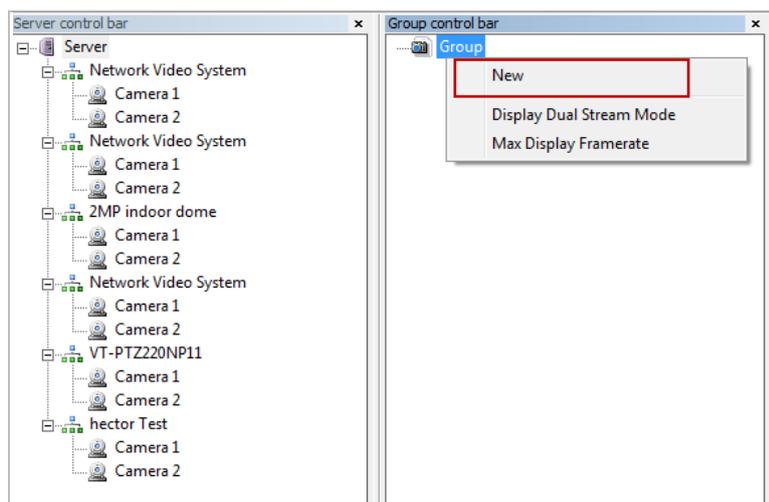
### Group Control Bar



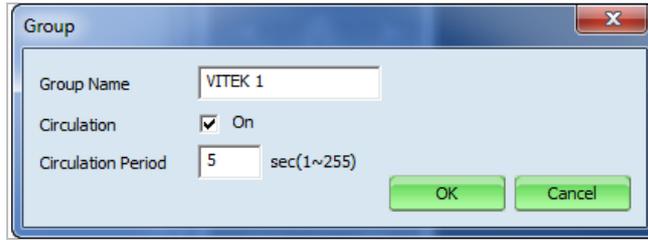
In order to view video, cameras must be assigned to a group, in this section you create groups with cameras you want to view.

#### Create Group

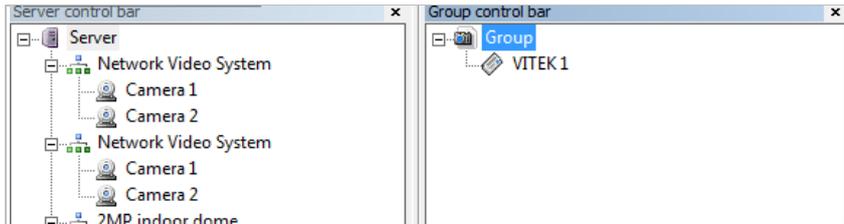
In order to create a group in **Group Control Bar**, right click on **Group**, another window will appear then select **New**.



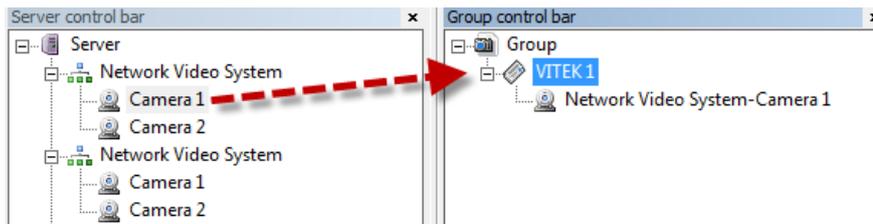
The following window will be displayed. Type in the group name, check "Circulation" to allow sequencing, input dwell time for "Circulation" and click **OK**.



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



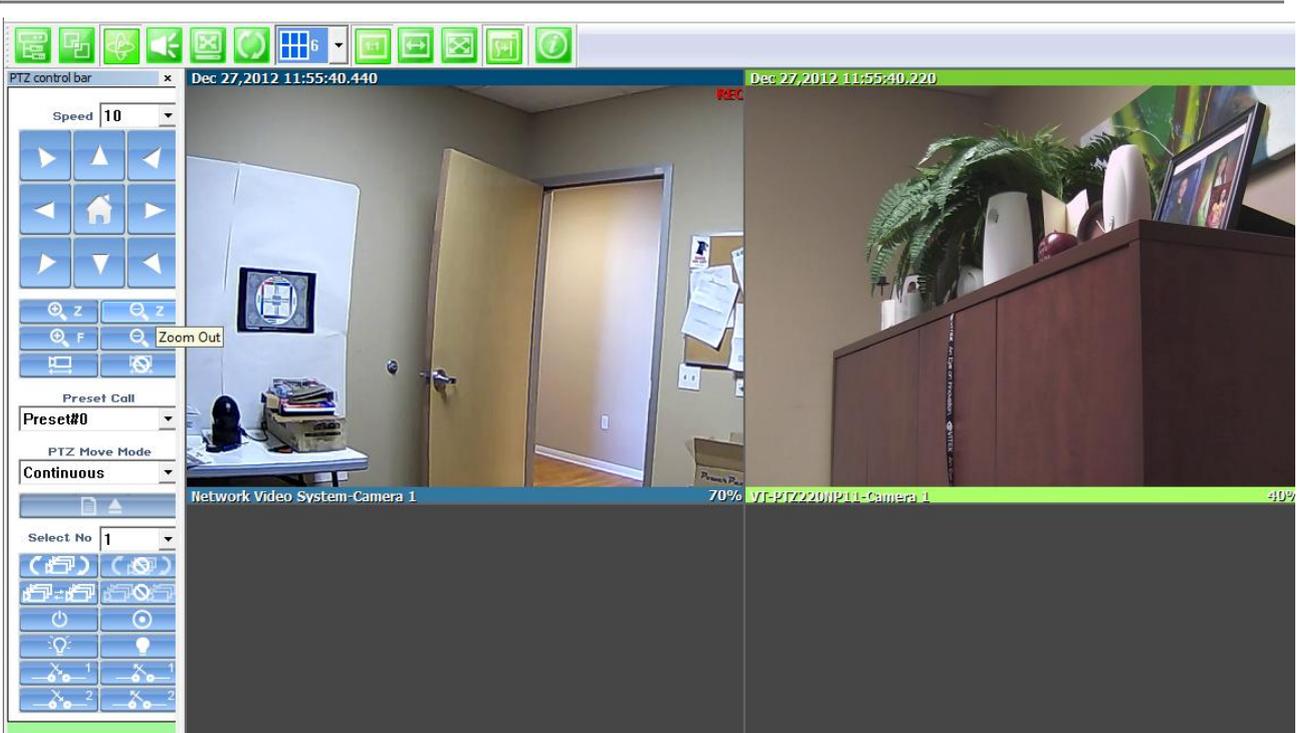
To add cameras to the new group, drag from server control bar and drop on newly created group. You can create multiple groups and add multiple cameras in each group.



### PTZ control Bar



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

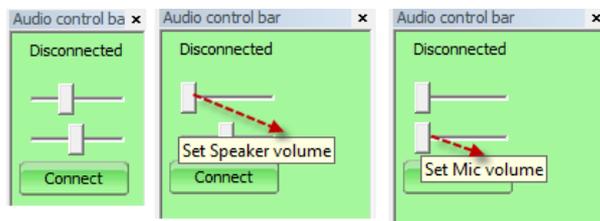


Audio Control Bar



Controls Speaker and Mic volume.

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

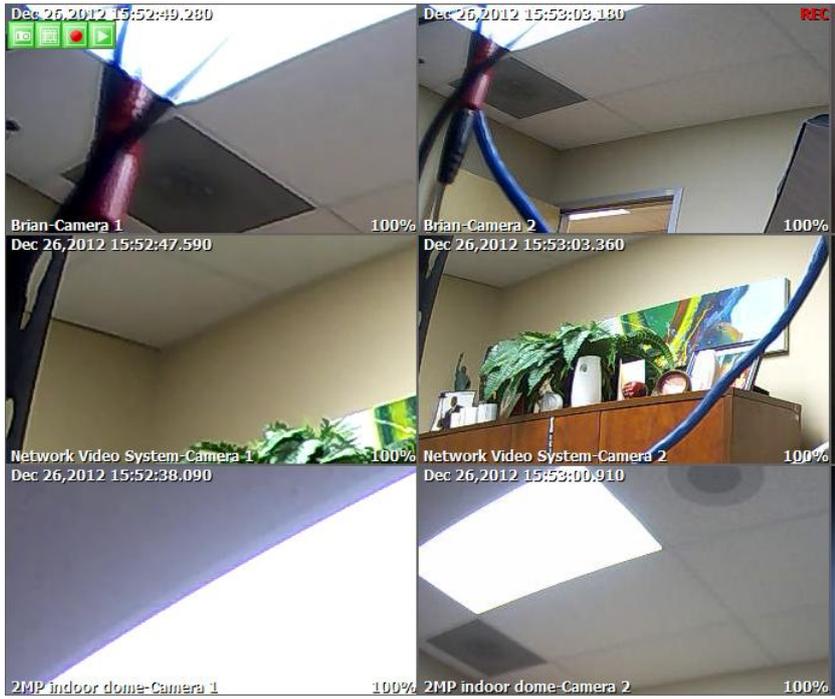


Full/Normal Screen



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

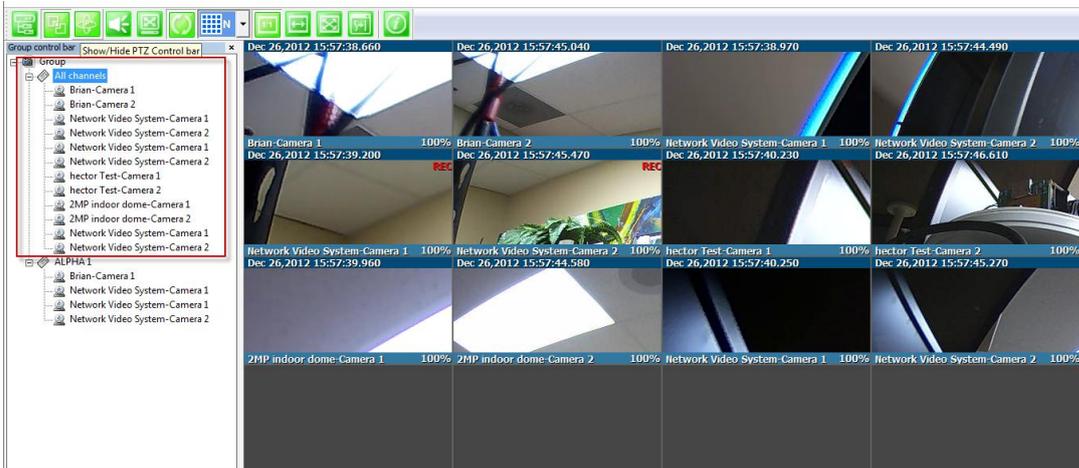
# ENVI Series EN-V-R

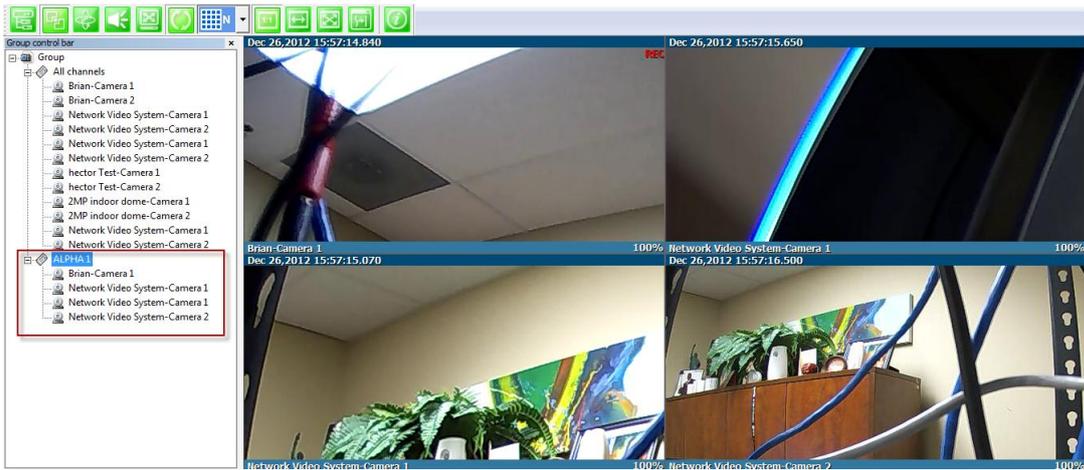


## Group Circulation



## Start sequencing between groups.





Layout settings



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

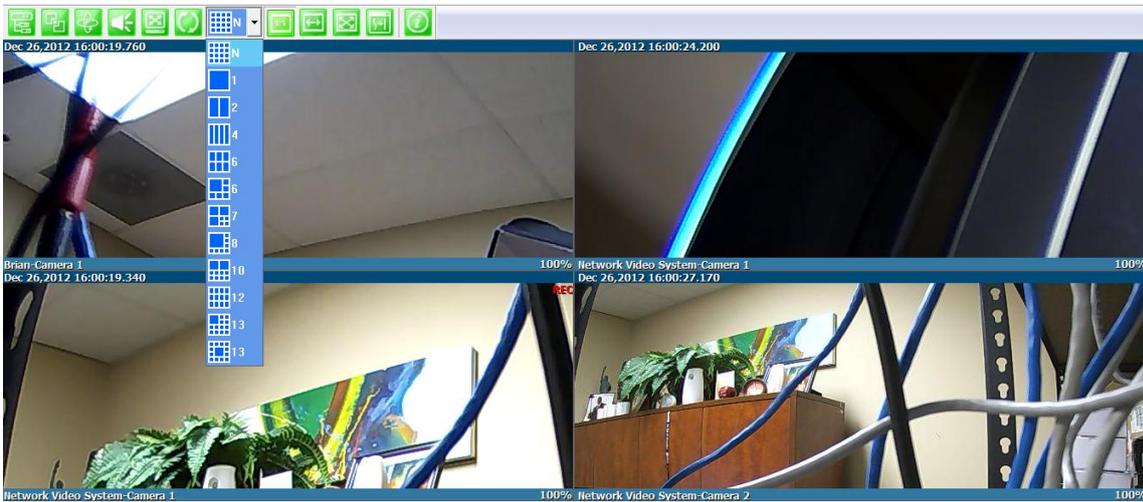
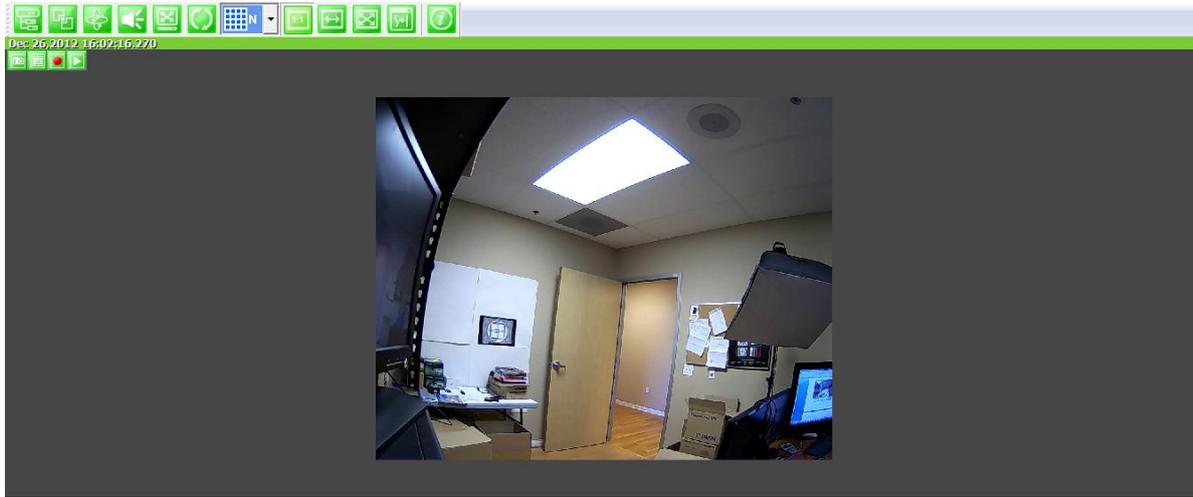


Image in Original Size



This allows for digital zoom.

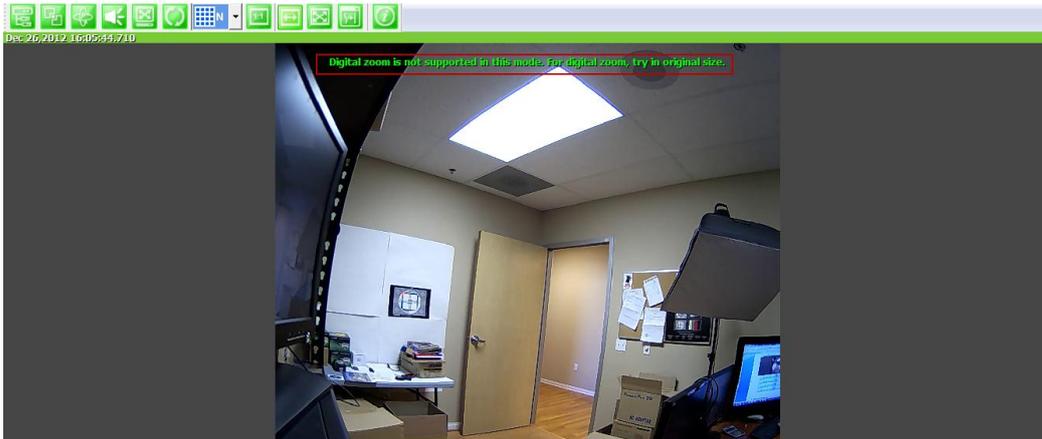
# ENVI Series EN-V-R



## Draw Image by Maintaining Aspect Ratio

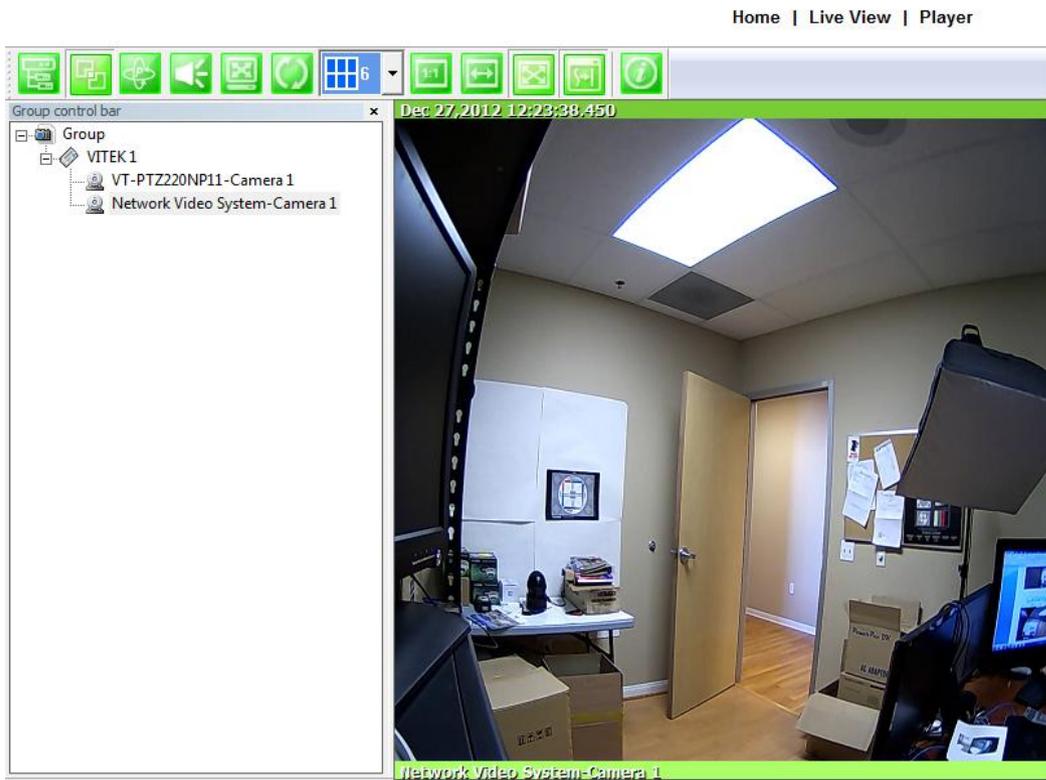


## Maintains the aspect ratio of the camera



## Draw Image by Filling the Screen





Enhanced Draw Mode On/Off.

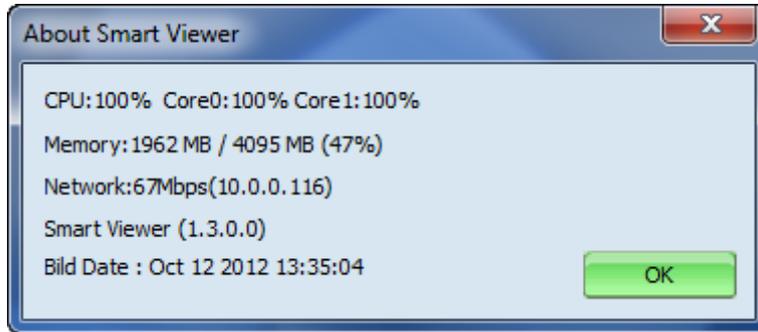
Enhance image for a better reproduction.



About Smart Viewer



You can see the status of the Smart Viewer

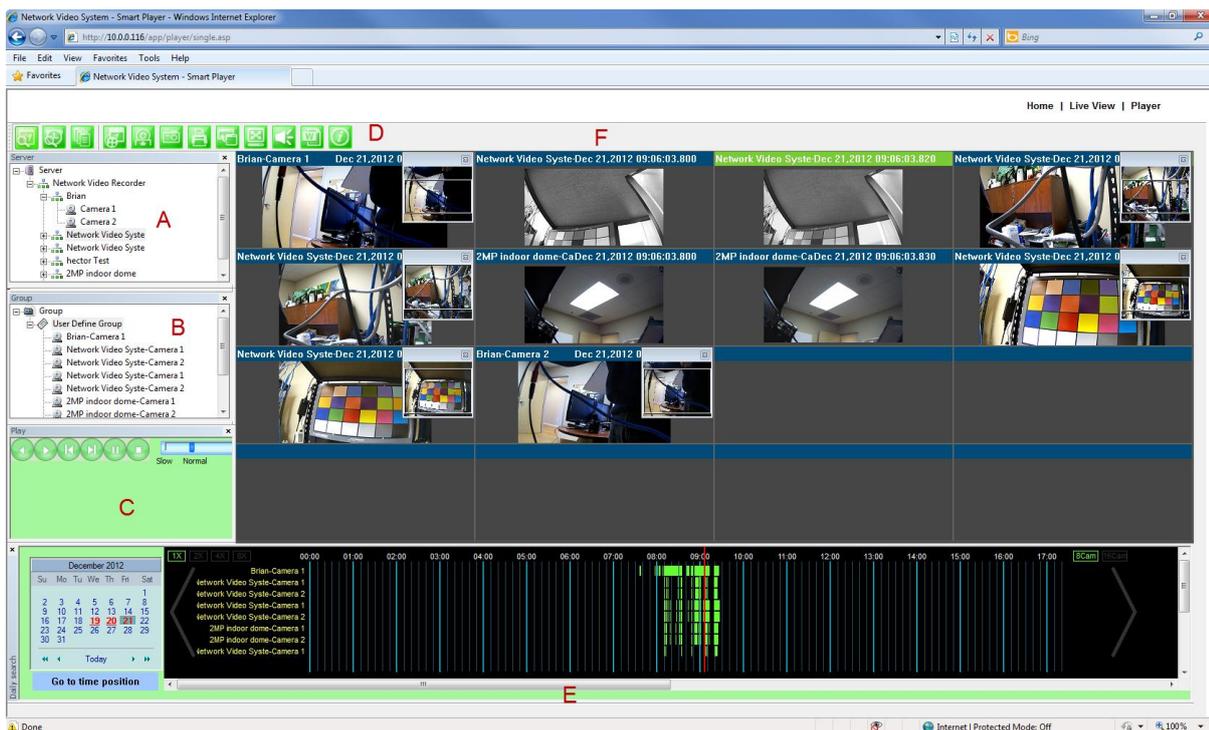


### 12.6. Configuring & Viewing Player

From the Home Screen click on **Player**



## 12.6.1. Main Window View

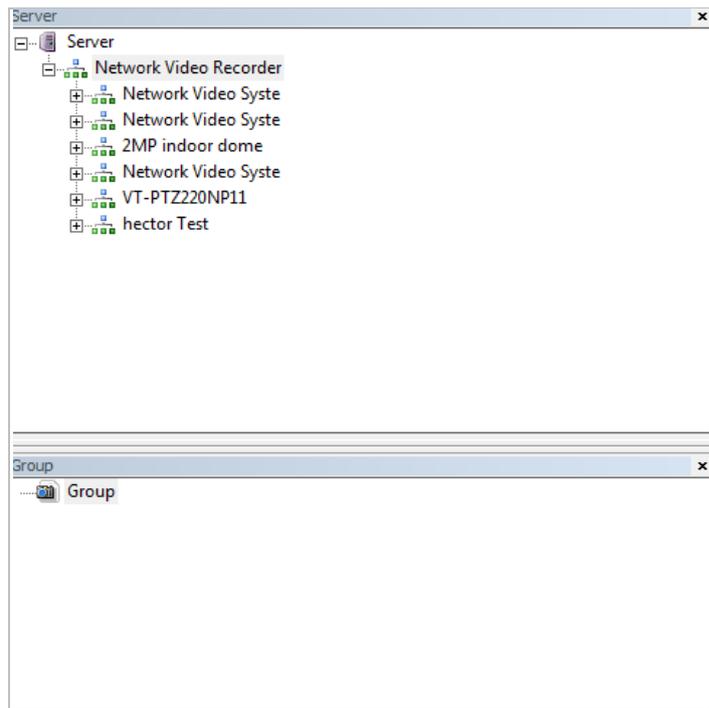


**Note:** The appearance of Smart Player window may vary depending on version and type of Vitek device you're using. This user's manual is based on general display screen.

Server Control Bar A	Allows you to view cameras / servers that are registered in the system.
Group Control Bar B	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 C	Users can use this bar for functions such as forward/reverse play, previous frame, next frame, pause, stop, playback speed.
Control Tool Bar D	Users can change search mode between calendar, condition, and data. It also provides additional features such as backup and snapshot.
Time Line Control Bar E	Search condition (calendar, condition, and data) can be refined in this bar.
Display screen F	This screen shows multiple numbers of recorded videos.

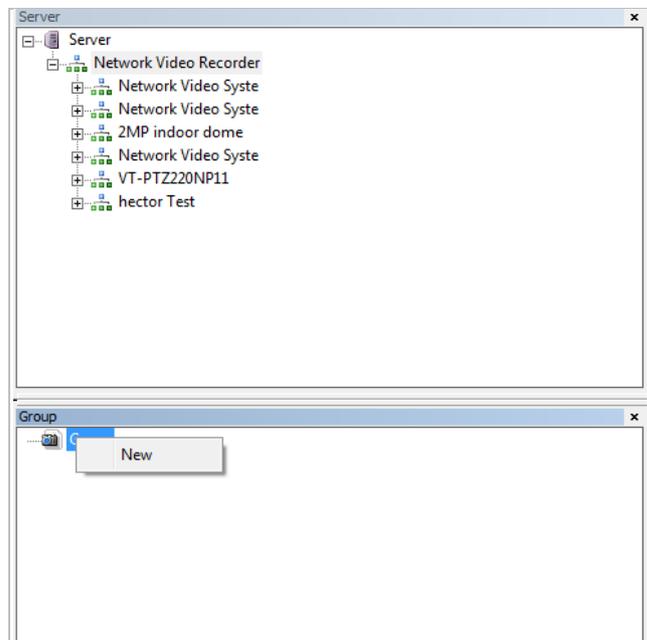
## 12.7. Connecting to NVR Player

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"

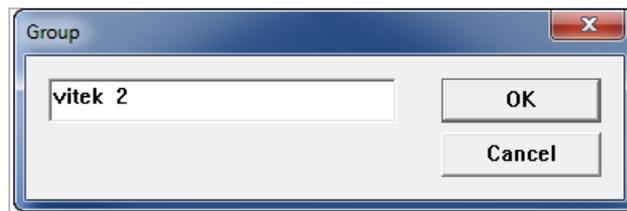


### 12.7.1. Creating a Group

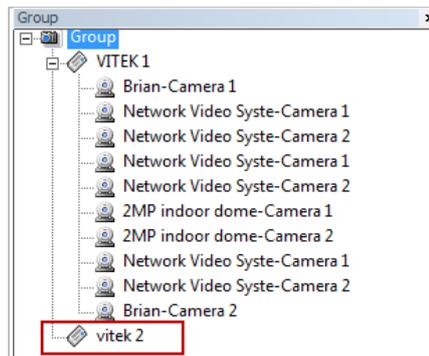
In order to generate a group in Group Control Bar, right click on **Group**, another window will appear then select **New**.



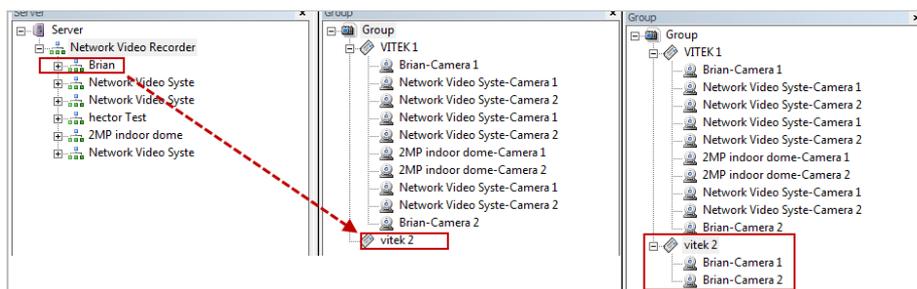
The following window will be displayed. Type in the group name and click **OK**.



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.



## 12.8. Searching Video

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



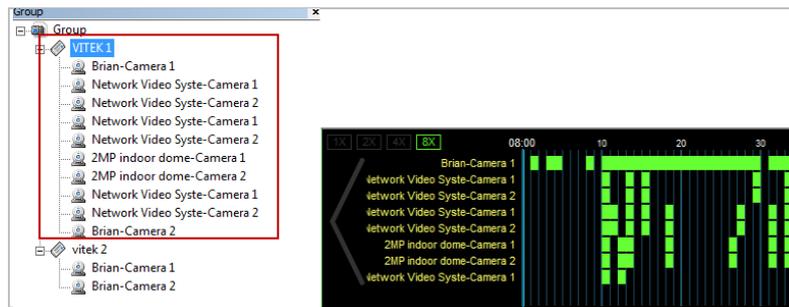
There are three choices in searching recorded video - Day Search, Condition Search, and Data Search.

Make sure that Camera / Server Connection and Creating Group have been performed before you search recorded video.

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.

## ENVI Series EN-V-R

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



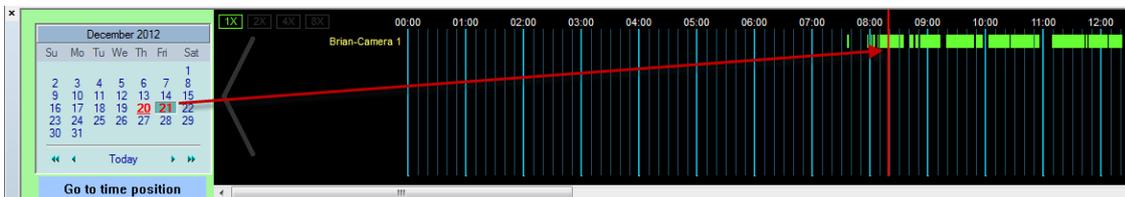
If you only select “Brian-Camera 1”, the searching will be performed only on the video from that.



### 12.8.1. Daily Search



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

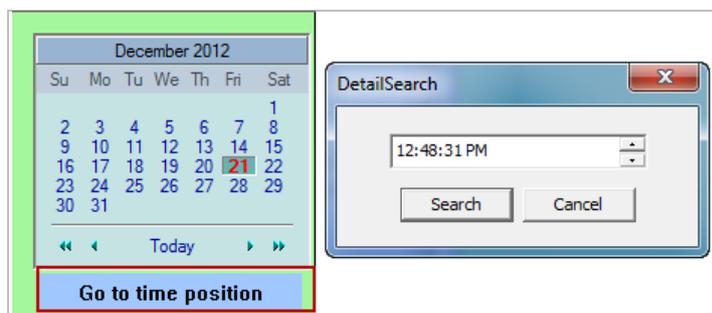


### 12.8.2. Search Mode

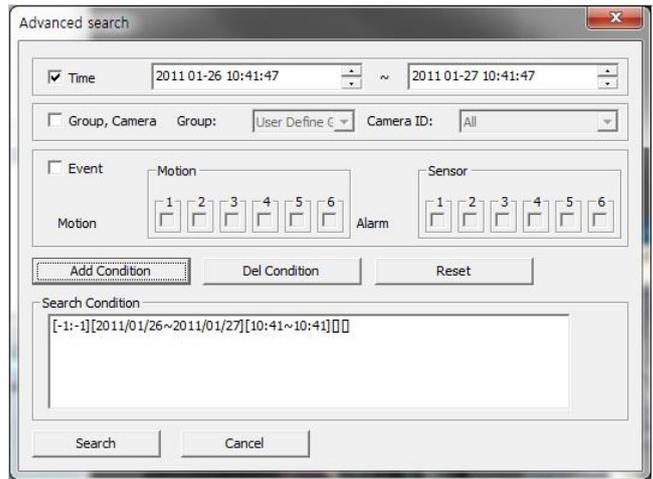
By clicking a date in red on the calendar, the time frame recorded is shown.

### 12.8.3. GO to Time Position

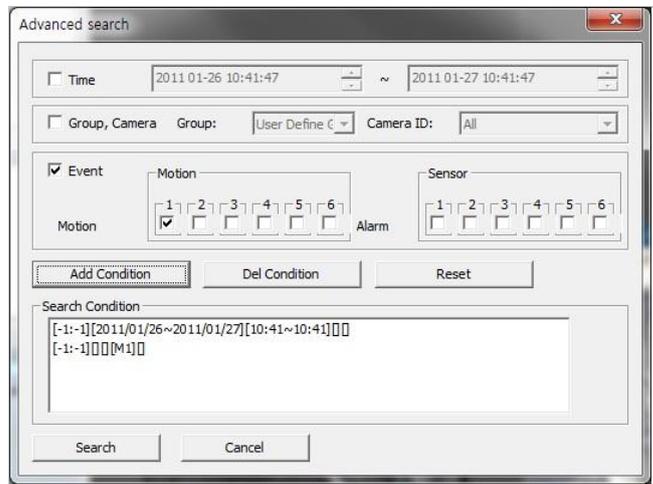
To go to specific time click on “Go to time position” than input time and click search.



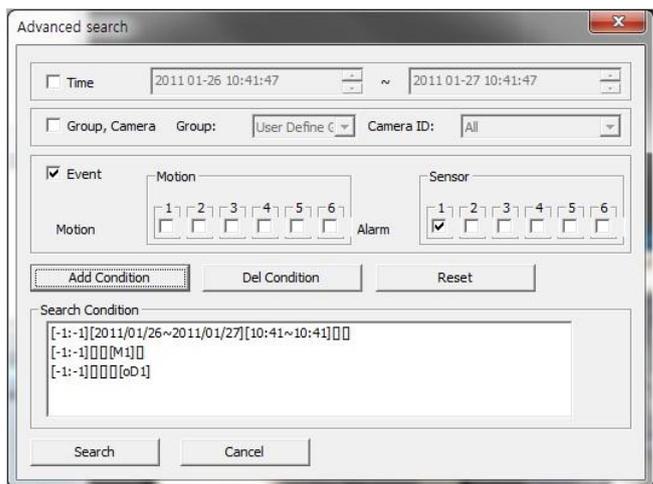




Now select **Event** checkbox, and choose **Camera 1** from **Motion**, and then click **Add Condition** button to add to **Search Condition**.

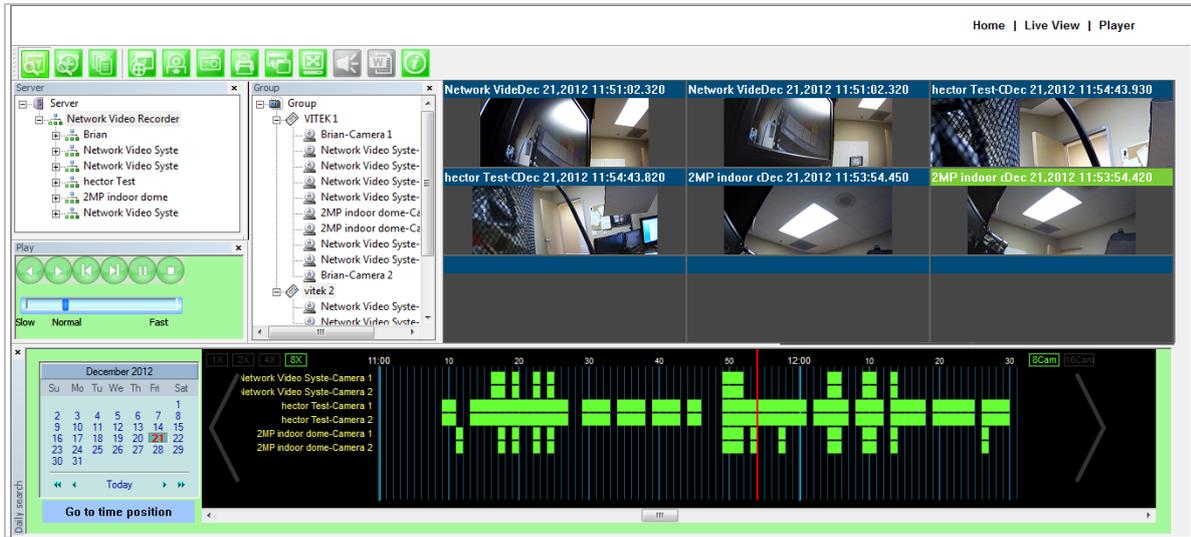


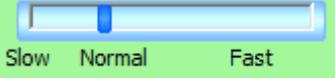
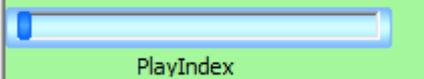
Next, select **Event** checkbox, choose Sensor 1, and then click **Add Condition** button to add the Sensor condition to **Search Condition**.



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.

## 12.9. Video Playback Controls

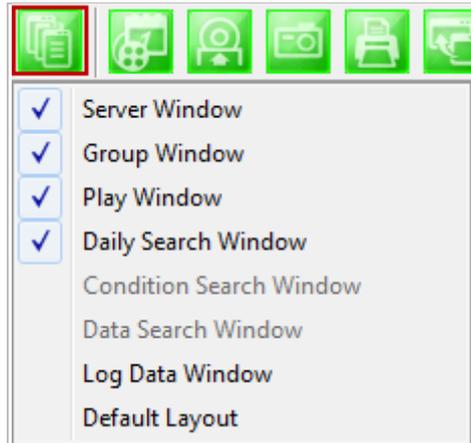


	Play Reverse
	Play Forward
	Pause
	Stop
	Back to Previous Frame
	Go to Next Frame
	Playback Speed Control
	Player Path Control (only for condition search mode)

## 12.10. Extra Features

### 12.10.1. Window Control

Users can open or close control windows.



**12.10.2. 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

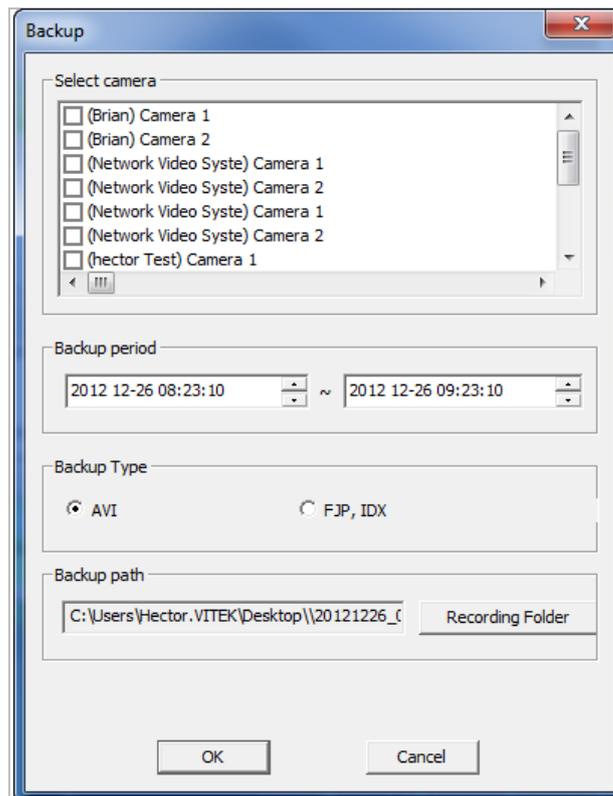
**12.10.3. Backup**

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.

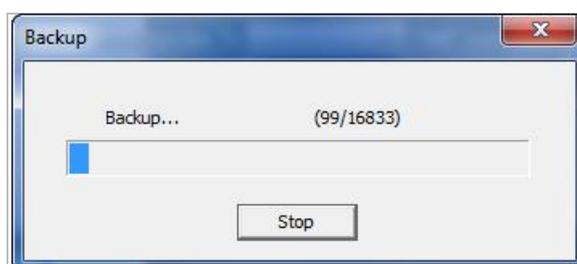


Select Camera	Check the camera to backup. For <b>AVI</b> backup, only one camera is permitted. For <b>FJP, IDX</b> , multiple backup is allowed.
Backup Period	Select the time frame (Start date and time ~ End date and time) to backup.
Backup Type	Select either <b>AVI</b> or <b>FJP, IDX</b> format.
Backup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

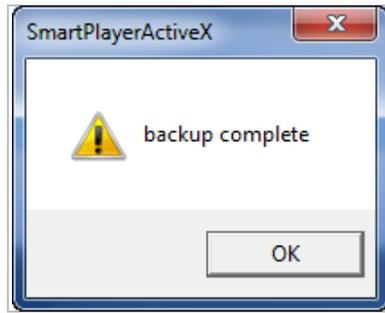
After selecting the parameters, click **OK** then the following window will display.



After searching is finished, backup operation will start.



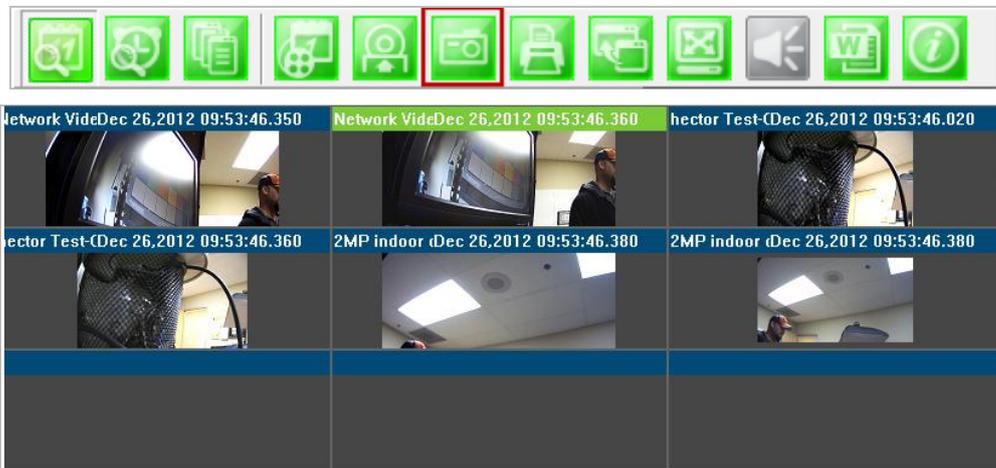
When backup is completed, the following window will appear. Click **OK** button.



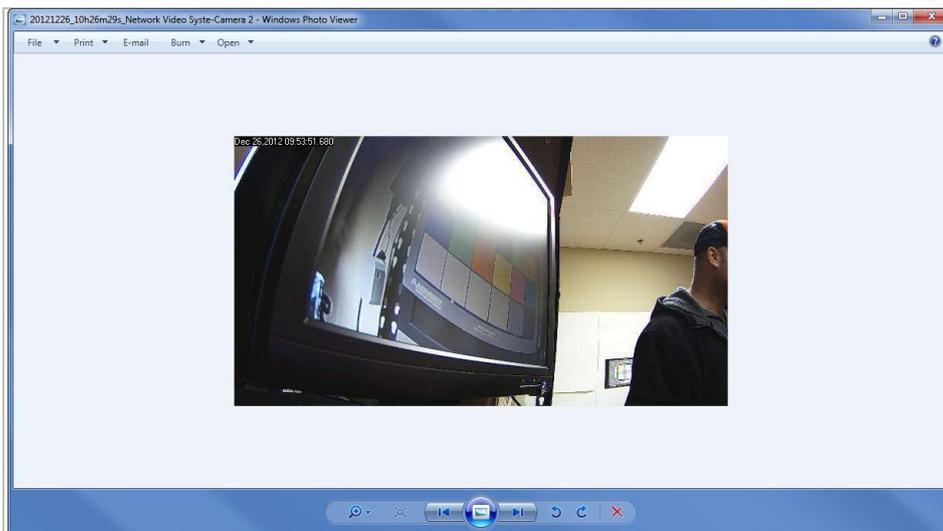
*Note: For AVI file backup, only one camera is allowed. For IDX backup, multiple cameras are allowed.*

**12.10.4. Snapshot**

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



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



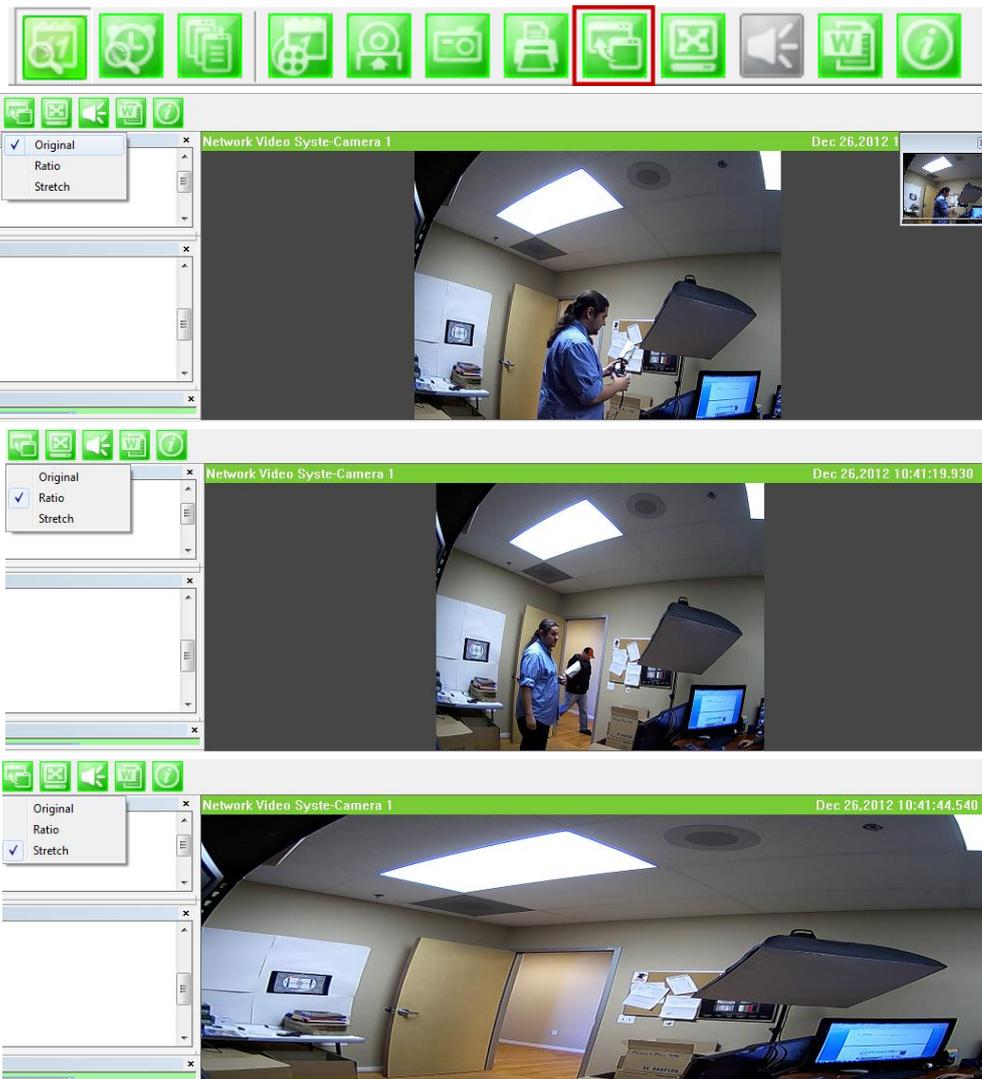
**12.10.5. Print**

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.



**12.10.6. Ratio Display**

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



## **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.



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