





- 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)
- 3.8mm Fixed / 2.8-10mm Varifocal Auto Iris Lens options
- 2D-DNR Noise Reduction
- 16:9 (2.0 MegaPixel Models) / 4:3 (1.3 MegaPixel Models) Video format
- · Secondary video output for installation & maintenance
- H.264/MJPEG Dual Streaming
- Minimal Latency with up to 16 simultaneous user connections
- Onvif Compliance
- EDGE recording with onboard MicroSD memory card slot (supports up to 32GB of local storage)
- Optional Wall Mount available
- 12VDC Operation / Optional PoE (Power over Ethernet)



Specifications & installation procedure subject to change without notice. Visit www.vitekcctv.com for the most current information available.

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1. Box Contents

- 1) Dome Camera
- 2) Mounting Accessories
- 3) ENVI Series CD

2. Included Accessories

Self Tapping Screws

For mounting dome to ceiling, wall etc.

Type #: Phillips head ST4x30

Qty: 2

Secondary Video Output Cable

To be used with a service monitor for adjusting the angle, focus and zoom. Oty: 1





3. Available Accessories

Optional Wall Mount:

3.1. Wall Mount (VT-AP/WMT)



4. VTD-13FN Installation

4.1. Connections

- Power Depending on the type of installations, apply power to the camera by one of the options below.
- a) Via Ethernet Use only with POE switch (100 Meters max distance)
- b) 12VDC Use with 12VDC 500mA



NOTE: If your camera is PoE you do not need to apply separate power

2. Ethernet connection

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



3. Remove the dome cover from the camera using a coin





4. Place the camera in the desired location and install using supplied screws.

- 5. With the help of a hand held monitor (VTM-LCD351 not included) you can adjust the field of view and focus the camera.
 - a) Connect the secondary video cable between the camera and the monitor BNC as shown below.



6. Adjusting Camera View You can adjust the camera's Pan / Tilt



7. Removable Storage

For recording directly on the camera you will need to install a MicroSD card, this will allow you to play video directly from the camera. The MicroSD card willneed to be formatted. (refer to **Section 17.1**MicroSD Configuration **on page 69** for instructions on Formatting)

Note: (Please use only class 10 MicroSD cards)



8. After the camera adjustments are completed, place the dome cover back on to the camera base.



5. VTD-13VN / VTD-20VN Installation

5.1. Connections

1. <u>Power</u>

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

- a) Via Ethernet Use only with POE switch (100 Meters max distance)
- b) 12VDC Use with 12VDC 500mA



NOTE: If your camera is PoE you do not need to apply separate power

- 1. <u>Ethernet connection</u>
 - b) Insert one end of the Ethernet cable into the network jack of your camera, and insert the other end into the data port (sample: switch, router, etc)



2. Remove the dome cover from the camera using a coin



3. Place the camera in the desired location and install using supplied screws.



- 4. With the help of a hand held monitor (VTM-LCD351 not included) you can adjust the field of view and focus the camera.
 - b) Connect the secondary video cable between the camera and the monitor BNC as shown below.



- 5. Lens Adjustment
 - a) Loosen Zoom & Focus screw and make necessary adjustments as shown. Field of view: Telephoto(T) to Wide(W)

Focus: Near(N) to infinity ($^{\infty}$)



6. Adjusting Camera View You can adjust the camera's Pan / Tilt



- 7. Removable Storage
 - a) For recording directly on the camera you will need to install a microSD card, this will allow you to play video directly from the camera. The MicroSD card will need to be formatted.
 (refer to Section 17.1MicroSD Configuration on page 69 for instructions on Formatting)



8. After the camera adjustments are completed, place the dome cover back on to the camera base.



6. 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. StartIP 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

P Installer	(v3.0.6)						×
Q 🖉	0%0	• 7	Filter :	All			
Model	MAC address	IP address	IP Ty	Server name	HTTP port	Version	Status
VTD-13VN	1C7C45020083	10.0.0.50	static	Network Video System	80	4.14-01-ds	Success
	Please, wait	for a while. (It dep	ends on your i	network condition.)	Cancel		

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

P IP Installer ((v3.0.6)		- 100 P	States, Street, South St.	states and	Sec.	×
Q 🟉	0%0		Filter :	All			
Model	MAC address	IP address	IP Ty	Server name	HTTP port	Version	Status
VTD-13VN	1C7C45020083	10.0.0.50	static	Network Video System	80	4.14-01-ds	Success

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

P Type	107045020083	Static	DHCP (PPPoE
V Network	IP Address Netmask Default Gateway DNS1	10 0 0 . 50 255 . 255 . 255 . 0 10 . 0 . 0 . 1 168 . 126 . 63 . 1	PPPoE User PPPoE Password PPPoE Password Confirm	
	DNS2	168 . 126 . 63 . 2		
Wireless infor	mation			
Encryption WEP Mode KEY1 KEY2 KEY3 KEY4 WPAPSK	None W	EP O TKIP O AES		
Authentication Admin Passwo	rd			

- 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 : V1-20VN-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 11**Admin Menu of VITEK VTD-13/VTD-20 Series **on page 37**.

7. VTD-13FN / VTD-13VN / VTD-20VN Features

VTD-13FN

ENVI Indoor 1.3 MegaPixel IP Dome Camera Series

1/3" 1.3 Megapixel Progressive Scan CMOS imager

Up to 30fps live view @ 1280x1024

3.8mm Fixed Lens Included

2D-DNR Noise Reduction

4:3 Video format

Secondary video output for installation & maintenance

H.264/MJPEG Dual Streaming

Minimal Latency with up to 16 simultaneous user connections

Onvif Compliance

SD memory card slot for Local recording

12VDC Operation / Optional PoE (Power over Ethernet)

Available in Ivory or Black

VTD-13VN / VTD-20VN

ENVI Indoor 1.3 / 2.0 MegaPixel IP Dome Camera Series

1/3" 1.3 / 2.0 Megapixel Progressive Scan CMOS imager

Up to 30fps live view @ 1280x1024 / 1920x1080

2.8-10mm Varifocal Auto Iris Lens

2D-DNR Noise Reduction

4:3 Video format(1.3) 16:9 Video format(2.0)

Secondary video output for installation & maintenance

H.264/MJPEG Dual Streaming

Minimal Latency with up to 16 simultaneous user connections

Onvif Compliance

12VDC Operation / Optional PoE (Power over Ethernet)

Available in Ivory or Black

8. 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

9. Installing and Uninstalling

j IP-Installer_Setup_3 ^ . ← . pedkey -	Open Open in new window Extract All Open with Send to Cut Copy Create shortcut Delete Rename Properties	 IP-Installer_Setup_3.0.6 IP-Installer_Setup_3.0.6 pedkey 	8	Open Run as administrator Troubleshoot compatibility Send to Cut Copy Create shortcut Delete Rename Properties
	top 1			Step 2

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

9.1. 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.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.

Choose Install Location Choose the folder in which to install IP I	nstaller 3.0.6.	1
Setup will install IP Installer 3.0.6 in the Browse and select another folder. Click	following folder. To install in Install to start the installatio	a different folder, click n.
Destination Folder		
Destination Folder C:Program Files IP Installer		Browse
Destination Folder C:Program Files IP Installer Space required: 2.2MB		Browse
Destination Folder C:Program Files IP Installer Space required: 2.2MB Space available: 142.9GB		Browse

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 theinstall as shown below.

Installing		5
Please wait while IP Installer 3.0.6 is	being installed.	5
Create folder: C:\ProgramData\Micro	osoft\Windows\Start Menu\Programs\IP Installer	
Extract: IPInstaller.ico 100%		
Output folder: C:\Program Files (x8	36)\IP Installer	
Extract: IPInstaller.ini 100%		
Output folder: C:\Program Files (x8	36)\IP Installer\Images	
Extract: MainToolbarImage.bmp	100%	
Extract: MainToolbarImage_B.bmp.	100%	
Output folder: C:\Program Files (x8	36)\IP Installer\Langs	=
Extract: english.ini 100%		
Extract: korean.ini 100%		
Create folder: C:\ProgramData\Mic	rosoft\Windows\Start Menu\Programs\IP Installer	-
20		
PInstaller Install System ————		

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



9.2. Uninstalling IP Installer

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

IP Installer	
😨 IP Installer	
🚱 Uninstall	

You may be prompt to continue running theuninstall program.



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



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

🚳 IP Installer 3.0.6 Uninstall						
Uninstall IP Installer 3.0.6 Remove IP Installer 3.0.6 from your computer.						
IP Installer 3.0.6 will uninstallation.	be uninstalled from the following folder. Click Uninstall to start the					
Uninstalling from:	C:\Program Files (x86)\IP Installer\					
IP Installer Install Syste	m < Back Uninstall Cancel]				

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

IP Installer 3.0.6 Setup	X
Installing Please wait while IP Installer 3.0.6 is being installed.	
Create folder: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\IP Installer	
Extract: IPInstaller.ico 100% Output folder: C:\Program Files (x86)\IP Installer Extract: IPInstaller.ini 100% Output folder: C:\Program Files (x86)\IP Installer\Images Extract: MainToolbarImage_B.bmp 100% Extract: MainToolbarImage_B.bmp 100% Output folder: C:\Program Files (x86)\IP Installer\Langs Extract: english.ini 100% Extract: korean.ini 100% Create folder: C:\ProgramData\Microsoft\Windows\Start Menu\Programs\IP Installer	
IP Installer Install System —	Cancel

Click on the $\ensuremath{\textit{Finish}}$ button to close the window



10. Using IP Installer

10.1. 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.

ル IP Installer	
🧐 IP Installer	
🚳 Uninstall	

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.

3.0.6)							
ې 🛠 😳	🮯 📍	Filter : /	AII				
MAC address	IP address	IP Ty	Server name	HTTP port	Version	Status	
	3.0.6)	30.6)	30.6)	30.6)	30.6)	30.6)	30.6)

Q	Search Product	Scan the network and shows the list of all the Vitek products that IP Installer program found.
1	Clear Product List	Clear the Vitek products list created by searching the network.
0	Automatic IP Setup	Configure the network setting of selected IP device in Automatic mode.
R	Manual IP Setup	Configure the network setting of selected IP device in Manual mode.
1	Connect Product Homepage	Connect to the server homepage of the selected IP device.
	Update Firmware	Update the firmware of the selected IP device.
7	Filter Configuration	Define the range of MAC and IP addresses to search.

10.2. 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 timeand 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.

10.3. Manual Network Setup



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

🍨 IP Installe	r (v3.0.6)						
Q /	' ۞ 🔅 🈚	🥱 💙	Filter: A	11			
Model	MAC address	IP address	IP Ty	Server name	HTTP port	Version	Status
VTD-13VN VTC-IR402	1C7C45020083 1C7C45050040	Go Product Setup Prod	Homepage Jot IP	Video System Video System	80 80	4.14-01-ds 4.16-B0-ds-VI	Success Success

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

Network Setup	-	-	o total lution		×
Mac Address	1C7C45020083	Server Name Net	vork Video System	HTTP Port 80	
IP Type	(Static (DHCP	PPPoE	
Network	IP Address	10 . 0 . 0 . 50	PPPoE User		
	Netmask	255 . 255 . 255 . 0	PPPoE Passwor	d	
	Default Gateway	10 . 0 . 0 . 1	PPPoE Passwor	d Confirm	
	DNS1	168 . 126 . 63 . 1			
	DNS2	168 . 126 . 63 . 2			
Wireless inform	mation				
Auth Mode		-	ESSID Scan /	4P	
Encryption	None OW	ep 💿 tkip 💿 Aes			
WEP Mode	_	-			
KEY1	0				
KEY2	0				
KEY3	0				
KEY4	0				
WPAPSK					
Authentication Admin Passwor	rd				
Save Configur Save Configure Co	ation Option guration 🔘 Not Sav	Set	Cancel		

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
ІР Туре	Select the type of address (Static / DHCP / PPPoE) Use STATIC for manual IP setup

Network	General network parameters are required in this part. Please contact your network administrator for detail.(IP Address, Netmask, Default Gateway, DNS1, DNS2)
Authentication (Admin Password)	Password for the IP device. (Default password for Vitek products is " root" unless already changed)
Save Configuration Option	 Select whether the configured contents is to be saved in the Camera memory or not. Save Configuration: Changed values will be saved in the Camera memory of the device, which means the changes are permanent.
	 Not Saving: 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.

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.

Network Setup											×
	You	can change Serve	er name, IP	Type, IP Address	, Netmask, Gateway,	DNS1, DNS2, F	Port by clickin	g, and input p	bassword.		
								🔽 IP Addr	ess 👿 Se	erver Name	V Password
Model	MAC Address	Server Name	IP Type	IP Address	Netmask	Gateway	DNS1	DI	NS2	HTTP Port	Password
VTD-13VN	1C7C45020083	Network Vide	Static	10.0.0.50	255.255.255.0	10.0.0.1	168.126	.63.1 16	8.126.63.2	80	
VTC-IR402	1C7C45050040	Network Vide	Static	10.0.0.40	255.255.255.0	10.0.0.1	168.126	.63.1 16	8.126.63.2	80	
								Apply	/toall S	ave Close	Cancel

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.

twork setup	You	can change Serve	er name, IP	Type, IP Address	, Netmask, Gateway,	DNS1, DNS2, F	Port by clickin	g, and input pa	ssword.		
								📝 IP Addre:	ss 🔽 S	erver Name	V Password
Model	MAC Address	Server Name	IP Type	IP Address	Netmask	Gateway	DNS1	DN	52	HTTP Port	Password
VTD-13VN	1C7C45020083	Network Vide	Static	10.0.0.50	255.255.255.0	10.0.0.1	168.126	6.63.1 168	126.63.2	80	
VTC-IR402	1C7C45050040	Network Vide	Static	10.0.0.40	255.255.255.0	10.0.0.1	168.128	5.63.1 168	126.63.2	80	
								Apply	o all 📃 💽	Save Close	Cancel

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.
ІР Туре	How to assign IP address to the device (Select Static 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.

10.4. 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.

IP Address 10 0 0 50 Network 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	1ac Address	1C/C45020083	Static	O DHCP O PPPoE
Default Gateway 10 · 0 · 0 · 1 DNS1 168 · 126 · 63 · 1 DNS2 168 · 126 · 63 · 2 Wireless information	✓ Network	IP Address Netmask	10 . 0 . 0 . 50 255 . 255 . 255 . 0	PPPoE User
DNS1 168 , 126 , 63 , 1 DNS2 168 , 126 , 63 , 2 Wireless information Auth Mode Encryption None WEP TKIP AES KEY1 GEY1 GEY3 CEY4 MPAPSK		Default Gateway	10 . 0 . 0 . 1	PPPoE Password Confirm
DNS2 168 , 126 , 63 , 2 Wireless information Auth Mode Auth Mode Image: SSID Encryption Image: None WEP Mode Image: SSID KEY1 Image: SSID KEY2 Image: SSID KEY3 Image: SSID KEY4 Image: SSID WPAPSK Image: SSID		DNS1	168 . 126 . 63 . 1	
Wireless information Auth Mode ESSID Scan AP Essid Scan AP Mep Mode Image: Auth Mode Image: Auth Mode		DNS2	168 . 126 . 63 . 2	_
Auth Mode - ESSID Scan AP Encryption Image: None WEP TKIP AES WEP Mode - - - KEY1 Image:	Wireless inform	nation		
Encryption None WEP TKIP AES WEP Mode KEY1 KEY2 KEY3 KEY4 WPAPSK	Auth Mode		T	ESSID Scan AP
WEP Mode 	Encryption	None W	EP 🔿 TKIP 🔿 AE	
KEY1 Image: Constraint of the second sec	WEP Mode		T	
KEY2	KEY1	0		
KEY3 Image: Constraint of the second of the se	KEY2	0		
KEY4	KEY3	0		
WPAPSK	KEY4	0		
and the second	WPAPSK			
Authentication	Authentication	1		
Admin Password	Admin Passwor	ď		

Server Name	Name of the selected IP device.
HTTP Port	HTTP port number of the IP device for web access to homepage.
ІР Туре	How to assign IP address to the device (Select Static here for Manual IP Setup)
Network	General network parameters are required in this part. Please contact your network administrator for detail. (IP Address, Netmask, Default Gateway, DNS1, DNS2)
Authentication (Admin Password)	Password for the IP device. (Default password for Vitek products is "root")
Save Configuration	 Select whether the configured contents is to be saved in the Camera memory or not. Save Configuration: Changed values will be saved in the Camera memory of the device, which means the changes are permanent.
Option	• Not Saving: 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.

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.



10.5. 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.

Mac Address	1C7C45020083	Server Name	Network Vi	deo System	HTTP Port	80
IP Type	0	Static	OHC	P	PPPoE	
Vetwork	IP Address	10.0.0	. 50	PPPoE User		
	Netmask	255 . 255 . 255 .	. 0	PPPoE Passv	vord	
	Default Gateway	10 . 0 . 0	. 1	PPPoE Passv	vord Confirm	
	DNS1	168 . 126 . 63 .	. 1			
	DNS2	168 . 126 . 63 .	. 2			
Wireless inform	ation					
Auth Mode		-		ESSID Sca	an AP	
Encryption	None	EP 🔘 TKIP 🔘	AES			
WEP Mode		-				
KEY1	0					
KEY2	0					
KEY3	0					
KEY4	0					
WPAPSK						
Authentication						
Admin Password	ł					

For setting up other fields on the setup window, refer to **Section 10.3Manual Network Setup on page 25**. 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.

10.6. 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.

ENVI Series: VTD-13FN / VTD-13VN / VTD-20VN

ac Address	1C7C45020083	Server Name	Network Video Sy	stem	HTTP Port	80
Р Туре	() Static	C DHCP		PPPoE	
Vetwork	IP Address	10 . 0 . 0	. 50 PPPoE	User		
	Netmask	255 . 255 . 255	. 0 PPPoE	Password		
	Default Gateway	10 . 0 . 0	. 1 PPPoE	Password Co	onfirm	
	DNS1	168 . 126 . 63	. 1			
	DNS2	168 . 126 . 63	. 2			
Wireless inform	nation					
Auth Mode		-	ESSID	Scan AP		
Encryption	None	EP 🔘 TKIP 🔘	AES			
WEP Mode	_	-				
ÆY1	0					
ŒY2	0					
KEY3	0					
ÆY4	0					
WPAPSK						
Authentication	·					
	d					

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.					
ІР Туре	How to assign IP address to the device (Select PPPoE in this mode)					
	User Authentication for PPPoE Connection. • PPPoE User: Enter User ID.					
PPPoE	PPPoE Password: Enter Password for the User ID.					
	PPPoE Password Confirm: Enter the same Password again.					
Authentication (Admin Password)	Password for the IP device. (Default password for Vitek products is " root" unless already changed)					
Save Configuration	 Select whether the configured contents is to be saved in the Camera memory or not. Save Configuration: Changed values will be saved in the Camera memory of the device, which means the changes are permanent. 					
Option	 Not Saving: 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. 					

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 10.9Live Viewon page35 for how to do it.

10.7. 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.

🍄 IP Installer ((v3.0.6)			-	-		
Q 🥭	۵۶ 🎾 🚱	🮯 📍	Filter : /	All			
Model	MAC address	IP address	IP Ту	Server name	HTTP port	Version	Status
VTD-13VN	1C7C45020083	10.0.0.50	static	Network Video System	80	4.14-01-ds	Success
VTC-IR402	1C7C45050040	10.0.0.40	static	Network Video System	80	4.16-B0-ds-VI	Success



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 (<u>http://www.vitekcctv.com/Downloads.asp</u>). 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.

lodel	Mac Address	IP Address	Server Name	Progress	Status	Password	Update Select option for update with proper password
TD-13VN	1C7C45020083	10.0.0.50	Network Video		Ready		and then click the button to update firmware.
							 ALL (Firmware, RAM disk, System, Web)
							SYSTEM and WEB
							WEB only
							Start update
							. Bet version
							Enter the password for each columns and click the button to get version of firmware.

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**.

a p	Computer	^
	Local Disk (C:)	
	DVD/CD-RW Drive (E:)	
	300.125	
D	DM36x(E)	
P	Oxford	=
	pt	
	V4.12-06	
	4.18-B0-ds-VI	

After clicking OK the following window will be displayed.

odel	Mac Address	IP Address	Server Name	Progress	Status	Password	Select option for undate with proper password
FD-13FN	1C7C4502003E	10.0.0.254	Network Video	8%	Trasnferring file	NNN	and then click the button to update firmware.
							ALL (Firmware, RAM disk, System, Web) SYSTEM and WEB WEB only Start update
							Get version Enter the password for each columns and click the button to get version of firmware. Get version

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.

odel	Mac Address	IP Address	Server Name	Progress	Status	Password	Update Salest action for update with access parameter
TD-13VN	1C7C45020083	192.168.250.2	demo(MS)		Ready		and then click the button to update firmware.
C-IR402	1C7C45050040	192.168.250.2	demo(FS)		Ready		ALL (Einnware RAM dick Sustem Web)
							SYSTEM and WER
							O WEB only
							Start update
							Get version
							Enter the password for each columns and click the button to get version of firmware.
							Get version

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

10.8. 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.

Search filter		×
Mac Address	1C 7C 45	
IP Range	0.0.0.0	~ 0.0.0.0
	ОК	Cancel

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.

Search filter	×
Mac Address	1C 7C 45 02 00 83
IP Range	0.0.0.0
	OK Cancel

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.

Search filter	×
Mac Address	1C 7C 45 02 00 83
V IP Range	10 . 0 . 0 . 40 ~ 10 . 0 . 0 . 5b
	OK Cancel

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.

🧛 IP Installer (v3.0.6)			Contraction of the local division of the loc		-	- · X
Q 🟉	٢	🥱 📍	Filter :	Mac[1C7C45020083]	IP[10.0.0.40	-10.0.0.50]	
Model	MAC address	IP address	IP Ту	Server name	HTTP port	Version	Status
VTD-13VN	1C7C45020083	10.0.0.50	static	Network Video System	80	4.14-01-ds	Success
VTC-IR402	1C7C45050040	10.0.0.40	static	Network Video System	80	4.16-B0-ds-VI	Success



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.

10.9. 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.

🧐 IP Installer ((v3.0.6)		The state of the s			
Q 🥭	٢	🧭 💙	Filter : Mac[1C7C45020083]	IP[10.0.0.40	-10.0.0.50]	
Model	MAC address	IP address	IP Ty Server name	HTTP port	Version	Status
VTD-13VN	1C7C45020083	10.0.0.50	static Network Video System	80	4.14-01-ds	Success
VTC-IR402	1C7C45050040	10.0.0.40	Go Product Homepage m Setup Product IP	80	4.16-B0-ds-VI	Success



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



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 19***ENVI Series Viewer* **on page 80** for detailed information about the ENVI Series Viewer ActiveX program.

11. Admin Menu of VITEK VTD-13/VTD-20 Series

After connecting to a VITEKVTD-13/VTD-20 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.



11.1. EnteringAdmin 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**.

Windows Security	
The server 10.0	0.38 at GoAhead requires a username and password.
	User name Password Remember my credentials
	OK Cancel

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.

🖉 Network Video System - Administratio	n - Windows Internet Exp	olorer	- 0 ×	
🖉 http://10.0.0.253/admin/aindex.asp				
Quick Configuration				
>> Step 1				
» Step 2		Quick Configuration		
» Step 3	This categor	This category shows the detailed method for Quick Configuration.		
» Step 4				
Step 5 Step 1 Configuration of Network Video Sys		Configuration of Network Video System name.		
» Finish	» Step 2	Configuration of Network Video System Date & Time.		
System Configuration	» Step 3	Configuration of Network(IP,Netmask,Gateway,DNS).		
Network Configuration	» Step 4	Configuration of dynamic IP registration of Network Video System.		
Device Configuration	» Step 5	Configuration of recording for each camera.		
Advanced Configuration	» Finish	Update the flash memory by new configured data, which is not versatile		
Recording Configuration				
Utilities				

11.2. Admin Menu Structure

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

12. 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.

Quick Configuration
» Step 1
» Step 2
» Step 3
» Step 4
» Step 5
» Finish
System Configuration
Network Configuration
Device Configuration
Advanced Configuration
Recording Configuration
Utilities

12.1. Step 1:Changing Server Name

Click Server Name on System Configuration menu, then Server Name Setup windows will be displayed.Refer to **Section 13.1Server Name Setupon page 39** to see how to change the server name.

12.2. Step 2: Time Setup

Click Date & Time on System Configuration menu, then theLocal Date & Time Configuration window will be displayed.Refer to **Section 13.2Date & Timeon page 40** to see how to set up.

12.3. 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 14.** Network Configuration **on page 43**to see how to set up.

12.4. Step 4: IPCCTVDNS.COM

When VITEK Server is used in a Dynamic IP environment, it is required to utilize **IP-CCTVDNS** feature. Refer to**Section 36**IPCCTVDNS Registration **on page 142**see how to set up.

12.5. Step 5: Recording Configuration

Vitek cameras with MicroSD card can be configured for recording options in this section.Refer to **Section 17.2**Recording Configuration with microSD card **on page 72**to see how to set up

12.6. Finish

After clicking Finish on the VTD-13/VTD-20 Series all changes will be saved automatically to the camera/server



13. System Configuration Menu

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

Quick Configuration				
» Step 2	System Configuration			
» Step 3 » Step 4	This category shows the detailed method for System configuration.			
» Step 5	» Server Name	Configuration of Network Video System name.		
» Finish	» Date & Time	Configuration of Network Video System Date & Time.		
System Configuration	» Admin. Password	Change administrator's password.		
» Server Name	» Access Control	Configuration to allow other users.		
» Date & Time	» User Registration	Add, Edit, Delete User ID & Password.		
» Admin. Password	» IP Devices Registration	IP Devices Registration.		
>> Access Control	• • • • • • • • • • • • • • • • • • •			
woser Registration				
Network Configuration				
Device Configuration				
Advanced Configuration				
Recording Configuration				
Utilities				

13.1. 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.

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	
B	ack Apply

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.

13.2. 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.

Date (yyyy/mm/dd)	2012 / 11 / 9	
Time (hh:mm:ss)	05 : 39 : 57	
Time Zone	Change Time Zone US/Pacific	
Service	🔿 Enable 🖲 Disable	
NTP server address	pool.ntp.org	
NTP sever time	Get NTP server time	
Ba	ack Apply Refresh	

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 thecamera. 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.

13.3. 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	
	New Password	
	Confirm Password	
	Ba	ck Apply
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 alphanumericcharacters.Click **Apply** button to put it into effect.

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

13.4. 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)
Back Apply

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.

13.5. 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.

13.5.1. 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.

Use	r Registrati	on (Add)
Add 🔘	Edit 🔘	Delete 🔘
User ID		
Password		
Confirm password		
Name		

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** filed, 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		
۲	All Channels Access	
\bigcirc	General Access (only live viewing access)	
0	No Access	
۲	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 useLive View feature.
- No Access: User is not permittedany 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.

VITEKcamerasmay 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			
0	All Channels Access			
0	General Access (only live viewing access)			
0	No Access			
۲	Selective Access			
Enable	VS Module ID	Camera No.	Alarm Control	Audio Control
V	Built-in Module 0 🔻	All 🔻	\checkmark	V
V	Built-in Module 0 🔻	All 🔻		
V	Built-in Module 0 🔻	All 🔻		
V	Built-in Module 0 🔻	All 🔻		
V	Built-in Module 0 🔻	All 🔻		
V	Built-in Module 0 🔻	All 🔻		
V	Built-in Module 0 🔻	All 🔻		
V	Built-in Module 0 🔻	All 🔻		
	Back	Apply		

- 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. (Feature not available on this model)

• **Audio Control**: Determine if Audio Control is to be allowed. (*Feature not available on this model*) After finishing the registration process, click **Apply**button to add the user.

13.5.2. 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.



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.

13.5.3. Delete

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



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

14. 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
» Step 1
» Step 2
» Step 3
» Step 4
» Step 5
w Einish
System Configuration
a Server Name
n Date & Time
w Admin, Bassword
S Aumin, Passworu
S Access Control
» User Registration
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
This category shows the deta	ailed 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.

14.1. Static IP Configuration

Select Network Configuration under Network configuration

Quick Configuration				
System Configuration				
Network Configuration				
» Network Configuration				
>> Network Ports				
>> Bandwidth Control		Netwo	ork Configuration : St	tatic IP
» View Network Status				
» Network Status Notify				888 F @
Solution >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		Static IP	DHCP Client	PPPOE ()
» Port Forwarding & UPnP	I	P Address	10.0.0.253	
» RTP/RTSP		lotMook	255 255 255 0	1
Device Configuration	-	VELMASK	233.233.233.0	
Device Configuration	C	GateWay	10.0.0.2	
Advanced Configuration	L L L L L L L L L L L L L L L L L L L	ONS 1	10.0.0.1	
Recording Configuration]
Utilities	L	JNS Z		
		Ba	ck Apply Refr	esh
	1			

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.

14.2. DHCP ClientConfiguration

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

Quick Configuration System Configuration	Netw	ork Configuration : S	tatic IP
>> <u>Network Configuration</u>	Static IP	○ DHCP Client ◎	РРРОЕ
» Bandwidth Control	IP Address	10.0.253	
» View Network Status	NetMask	255.255.255.0]
Network Status Notify IP-CCTV DNS™	GateWay	10.0.0.2	
» Port Forwarding & UPnP	DNS 1	10.0.0.1	
» RTP/RTSP	DNS 2	8.8.8.8	
Device Configuration Advanced Configuration Recording Configuration	Ba	ack Apply Refr	esh

14.3. 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
	User Password
	Confirm Password
	Back Apply
Notice	 Please make sure to set up "Network Status Notify" option to get IP address throgh e-mail when PPPoE option is selected. Otherwise, there is no way to get changed IP address.

14.4. 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 camerasIP address. For example, when a VITEK cameras IP address is 192.168.1.100and the HTTP portis 8080, you will have to enter http://192.168.1.100.8080 to connect to the camera.

Quick Configuration System Configuration Network Configuration >> Network Configuration >> Network Ports >> Bandwidth Control >> View Network Status >> Network Status Notify >> Po-CCTV DNS TM >> Port Engenarding & UPoP	Network Ports Configuration
» RTP/RTSP	HTTP Port 80 (Default:80, 80 ~ 65535)
Device Configuration Advanced Configuration Recording Configuration	Back Apply
Utilities	Notice • HTTP Port : For web access, video streaming and playback.

14.5. 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.

Bandwidth Control Configuration
Bandwidth Control Conngulation
Service 🔘 Enable 🖲 Disable
Bandwidth Limit 0 Kbps
Back Apply
 Notice • The bandwidth limit should be over 32. • MPEG-4 or H.264 streaming can be affected by this setting.

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 15.2***Camera & Motion* **on page 54**for more info on CBR and Frame rate

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

14.6. View Network Status

This menu shows network status of VITEKcameras.

Quick Configuration	Network Status
System Configuration	
Network Configuration	Common Status
S Network Ports	Gateway 10.0.0.2
w Bandwidth Control	Gateway Device eth0
» View Network Status	DNS1 10.0.0.1
» Network Status Notify	DNS2
» IP-CCTV DNS™ » Port Forwarding & UDpD	LAN Status
S POIL FORWARDING & OPHP	IP Address 10.0.0.253
WICH/ICIDE	Netmask 255.255.255.0
Device Configuration	MAC Address 1C:7C:45:02:00:3E
Advanced Configuration	PPPoE Status
Recording Configuration	Connection Status Link is down
ounties	IP Address
	Netmask
	WAN-Modem Status
	Connection Type PPP Server (Dial In)
	Connection Status Link is down
	Local IP
	Remote IP
	Netmask
	Back Refresh

14.7. 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.

Han Notification	🔘 Enable	Oisable	
SMTP Server			
Authentication Login	🔘 Enable	Oisable	
User ID]
Password			
Sender			
1st Recipient			
2nd Recipient			
3rd Recipient			
	Iser-Defined I	Message ==	
U			

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	Enable: Send email Disable: Do not send email
SMTP Server	SMTP Server address for email service
Authentication Login	Enable : user ID and password arerequired for SMTP server Disable : 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

14.8. IP-CCTV DNS Setup

Note: Refer **Section 36.** IPCCTVDNS Registration **on page 142** for further details on configuration.

IP-CCTV DNS service provides a static & public domain name to help user's access VITEKcameraseven 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.

Quick Configuration System Configuration Network Configuration >> Network Ports >> Bandwidth Control >> View Network Status >> Network Status Notify >> Network Status Notify >> Network Status Notify		ĮP-	CCTV DNS™ Setup	_
» Port Forwarding & UPnP		Service	Inable O Disable	
» RTP/RTSP		DNS Server IP	www.ipcctvdns.com Go	
Device Configuration		Mac Address	1C7C4502003E	
Advanced Configuration		Product-Key	01FBA6C8	
Recording Configuration		IP-CCTV DNS	Confirm	
Utilities		Registration verification		
	Notice : I F T V I I I	f you do not use public dy please skip this step. This is related with www.i Different IP address or UR www.ipcctvdns.com f you click Confirm button f product is not registered	Back Apply namic IP address for the remote access. Dectvdns.com, L must follow the same protocol of you can verify registered URL on IP-CCTV DNS. d on IP-CCTV DNS, you can not verify registered URL.	

14.9. 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 Portissued 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 Portis 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 for the maximum number of UPnP devices. If it is properly configured, results will be displayed under **UPnP status**.

	Ma	anual : User Assigned port	9080
Port Forwarding	O UP	PnP : User Assigned port	9080
Display shortcut Icon	O UP	onP : Auto selected port	
in My Network Places	O En	lable 🔮 Disable	
		OPnP Status	
Status		Success	
External Port No.		9080	
Router Global Address			
System's IP address for		http://10.10.213.26:80	
System's IP address for Access via Internet			
System's IP address for Access via Internet			
System's IP address for Access via Internet	Back	Apply Refresh	
System's IP address for Access via Internet	Back	Apply Refresh	

14.10. 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 withthis; 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.

Service		💿 Enable 🔘 Disable		
RTSP Port		554	(Default:554, 554 ~ 65534)	
RTP Start Port		5000	(Default:5000, 2048 ~ 65534)	
Camera 1	Multicast Address	0.0.0.0	Disable:0.0.0.0 (225.0.0.0 ~ 239.255.255.255)	
	Multicast Port	0	(Disable:0, 2048 ~ 65534)	
Camera 2	Multicast Address	0.0.0	Disable:0.0.0.0 (225.0.0.0 ~ 239.255.255.255)	
	Multicast Port	0	(Disable:0, 2048 ~ 65534)	
Notic	e : This function IP devices (a	Back Apply is only for built in mod dded VS module) does	ule. not support this function.	
	RTSP URL for rtsp://(Netwo -> cam(0 : VS	Camera 1 ork Video Server IP Ado Module number)_(0:F	dress)/cam0_0 Port number)	
	RTSP URL for (Multicast ad rtsp://(Netwo	Camera1 for Multicast dress and Port shoud l ork Video Server IP Ado	address be configured.) dress)/mcam0_0	

Service	Enable: Start RTSP service Disable: 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

15. Device Configuration

15.1. 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.



Privacy Zone Configuration

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



Privacy Zone Configuration

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.



Privacy Zone Configuration

15.2. 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.

Camera & Motion Configuration		
Video with Flexible Ex	tra System data	Enable
Video with user define	ed message	Enable
Video with PPP status	;	Enable
Video with camera na	me	Enable
Video with server nam	ne	Enable
Video with IP address	;	Enable
Audio		💿 Enable 🍥 Disable
	Frame Rate	30 fps 🔻
Primary Stream	Image Size	1280 x 1024 🔻
	Encoding Standard	M-JPEG International Head Int
	Frame Rate	Primary fps 🔹
Secondary Stream	Image Size	704 x 480 🔻
	Encoding Standard	M-JPEG O H.264
Back Apply		
» Camera Control		
» Motion Detection		
» Primary Stream		
» Secondary Stream		

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

- 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

15.2.1. Camera Configuration

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

» Camera Control	
» Motion Detection	
» Primary Stream	
» Secondary Stream	

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

amera Name	Camera 1
ate Control Mode	VBR Mode 🔻
nage Quality	Highest 🔻
OP Structure	16 [1~64]
Paratuccure	

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

Rate Control Mode

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

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.

Camera Control (Select Models)

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

Quick Configuration	Camera Control		
» Step 1 » Step 2 » Step 3	Alexan Marin	Sur Sur	
>> Step 4	and the Party of the	6 20	
» Finish	- and a set		2
System Configuration			
Device Configuration		10	
Serial Ports			P / I I
Serial Output Mode			
» Transparent Mode			
Privacy Zone			
» Camera Control			
» Motion Detection			
Primary Stream Secondary Stream	1 the last	1 2	
» DI/DO	Power Frequency	0 50	OHz 🔮 60Hz
++ DI Status/DO Control	Environment	V In	door C Outdoor
Advanced Configuration	Noise Filter	00	ff 🖲 On
Recording Configuration	Brightness	128	(Default: 128, 0 ~ 256)
Utilities	Contrast	16	(Default: 16, 0 ~ 30)
	Sharpness	4	(Default:4, 0 ~ 5)
	AGC Gain	0	(Default:0, 0 ~ 16)
	Day & Night Control	Auto	-
	Day & Night Detect	w In	ternal 🗄 External
	The threshold of day to night	18	(Default:18, 1 ~ 32)
	The threshold of night to day	5	(Default:5, 1 ~ 32)
	Vertical Flip	. Di	isable 🗇 Enable
	Horizontal Flip	Y Di	isable 🤤 Enable
	Manual Shutter Enable	• Di	sable 🔿 Enable
	Manual Shutter Speed	1/12	• •
	Video Output	4. Di	isable 😳 Enable
	Video Output Channel	@ Pr	rimary O Secondary
	Back	AP	ply
	dimensional and a second s	-	

- **Power Frequency**: Select NTSC (60Hz) or PAL (50Hz) according to the region.
- Environment: (VTD-13/VTD-20 Series Indoor Only)
- Noise Filter: To reduce static on image
 Environment
 Indoor
 Outdoor
 Noise Filter
 Off
 On
- **Brightness**: Select the brightness of image between 0 and 256.
- **Contrast**: Select the contrast of image between 0 and 30.

- **Sharpness**: select the sharpness of image between 0 and 5.
- **Day & Night Control**: If used, the image will be in Color mode during daytime and Black&White mode during night time.

Day & Night Control	Description
Disable	(No Image Conversion)
Black & White	Black & White mode
Auto	Daytime: Color Mode Night time: Black & White mode

• Day & Night Detect:

Day & Night Detect	Description
Internal	Use Built-in Day & Night feature (Default)
External	Not Available on VTD-13/VTD-20 Series

- **The threshold of day to night**: This is the point of transition from Day to Night mode. Select between 1 and 32, and lower the value the earlier the transition point.
- **The threshold of night to day**: This is the point of transition from night to day mode. Select between 1 and 32, and lower the value the earlier the transition point.
- Vertical Flip: this is to rotate the image 180° Vertically
- Horizontal Flip: this is to rotate the image 180° Horizontally
- **Manual Shutter Enable**: If enabled, the shutter speed will be selected manually. If disabled, it is controlled automatically.
- Manual shutter Speed: available only when Manual Shutter is Enable Select the shutter speed of camera between 1/30 and 1/24000.
- Video Output: Video output (NTSC/PAL) is enabled.

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.

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

DI/DO Control

Not Available on VTD-13/VTD-20 Series.

16. 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 continuouslybeing stored in a buffer memory of thecamera/server for a certain period of time. When the camera/server is triggered by an event or schedule, the images or alarm statusjust 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.



16.1. Advanced Services

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

Advanced	Configuration
Advance	ed Services

• **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	
System Configuration	
Network Configuration	Advanced Services
Device Configuration	Auvanceu Services
Advanced Configuration	Total pre-alarm buffer size : 5600 kb
<u>Advanced Services</u>	Current used buffer size : 5 frames
Recording Configuration	
Utilities	Ch 1 Ch 2 Sum
	Pre-Alarm Buffer Size 5 (frames) 0 (frames) 5
	Pre-Alarm Speed fastest 🔹 Select Spe 💌
	Save
	Notice : 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.

• **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 cannel 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.	
<pre>w FTP(Buffered)</pre>	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.	
Back Apply		
St	tatus Start Stop	

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

16.1.1. E-mail Service Configuration

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

Advanced Configu Advanced Service E-mail FTP(Buffered) FTP(Periodic) Sensor Notifica Alarm Output	tion	anced (Advancer E-mail Camera Camera FTP(Buf FTP(Per Sensor I Alarm O	Configuration d Services a 2 fered) iodic) Notification utput	Þ	Advance Adva E-m Ca Ca Ca Ca Ca FTP FTP Sen Alar	red Configuration anced Services nail amera 1 ondition 1 ondition 2 ondition 3 amera 2 P(Buffered) P(Periodic) asor Notification rm Output
	E-mail Please click the below for each camera. >> Camera 1	Service link to co	Configuration nfigure E-mail se » Came	rvice era 2		
	Service SMTP server address SMTP Port Authentication Login User ID Password Sender 1st Recipient 2nd Recipient 3rd Recipient	 Ena smtp.g 465 Ena xxxxx@ xxxxx@ xxxxx@ xxxxx@ xxxxx@ xxxxx@ Back 	able O Disable mail.com (Default:25, 0 able O Disable xxxxx.com xxxxx.com xxxxx.com xxxxx.com xxxxx.com xxxxx.com	~ 655:	35)	

Item	Description
Camera 1~2	Select a channel to be configured for email notification
Service	Select Enable in order to use this service
SMTP server address	Enter SMTP server's address for sending email.
Authentication Login	Select Enable 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.

» Co	ndition 1 [Not U	sed]			-			
» Co	ndition 2 [Not U	sed]						
» Co	ndition 3 [Not U	sed]						
Max Pre-/	imum 10 pre-post Alarm Buffer Size	alarm images can b 0 (frames)	e transm » Check	itted.	o buf	fer		
Pre-/	Alarm Images	0 - P	ost-Alarn	ı Ima	ges	0		•
Pre-Alarm Speed S		Select Speed 🔻 P	ost-Alarn	1 Spe	ed	Select	t Spe	ed 🔻
Subj	ect	Message From IP D	evice![0,	0]				
								?
	Mess	age		Va	lue Fo	ormat		
			NONE	INT	HEX	BIN	IPA	EVT
1			۲	0	0		0	۲
2			۲	\bigcirc	\odot	۲	\bigcirc	۲
3			۲	\bigcirc	\bigcirc	\bigcirc	\bigcirc	
4			۲	\bigcirc	\bigcirc	\bigcirc	\bigcirc	0

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. Fastest 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			
Enable 🔍 I	Disable 🔘			
Select Mode	 Always Schedule Only Event Only 			
	Schedule and Event			
Sun Mon Tue Wed Thu Fri Sat Week Time (hh:mm) 19:46 ~ 19:46 Date (mm/dd) XX / XX ~ XX / XX				
	Event			
Alarm Sensor Motion Detection	n 1 2 3 4			
Camera Connected				
Boot Finished Serial Input	Enable			
	Back Save			

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 Enable to use Condition, otherwise select Disable.
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 arechecked, 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**.

16.1.2. FTP (Buffered) Service Configuration

Server Address	Cook	Diaphle	
Server Address	Enable	e 🔘 Disable	
Paco Directory Namo			
Pase File Name			
lear ID			
Deeword			
TP Control Port		(Default:21	0 ~ 65535)
Date Description Mode	American	Style v	0 ~ 03333)
Connection Mode			
connection mode	S Active	⊖ Fassive	2
Option	Directo	ry Name	File Name
Server Name	[v	
Weekday	[
	r		
/ear	l		1
/ear Month	[✓
/ear Month Day	[
/ear Month Day Hour			
Year Month Day Hour Minute			
Year Month Day Hour Minute Sec			
Year Month Day Hour Minute Sec Sequence			

Item	Description
Camera 1 - Camera 2	Select which channel to set up for FTP (Buffered).
Service	Select Enable to use the FTP (Buffered) service. Otherwise select Disable .
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 Directory Name is checked, new directory is created with server name. If File Name is checked, new file is created with server name.
Weekday	If Directory Name is checked, new directory name is created with weekday. If File Name is checked, new file name is created with weekday.
Year	If Directory Name is checked, new directory name is created with Year. If File Name is checked, new file name is created with Year.
Month	If Directory Name is checked, new directory name is created with month. If File Name is checked, new file name is created with month.
Day	If Directory Name is checked, new directory name is created with day. If File Name is checked, new file name is created with day.
Hour	If Directory Name is checked, new directory name is created with hour. If File Name 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 Directory Name is checked, new directory is created with camera number. If File Name 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

» Condition 1 [[M1][] [Not 14	codl				
Condition 2 [Not Used] Condition 3 [Not Used]						
Maximum 256 pre-post alarm images can be transmitted. Pre-Alarm Buffer Size 5 (frames) & Check video buffer						
1axımum 256 pr€ Pre-Alarm Buffer	e-post r Size	5 (frames)	» Check video bu	uffer	
1aximum 256 pre Pre-Alarm Buffer Pre-Alarm Image	e-post r Size es	5 (0	frames) frames	» Check video bu Post-Alarm Images	uffer 0 frames	
4aximum 256 pre Pre-Alarm Buffer Pre-Alarm Image Pre-Alarm Speec	e-post r Size es d	5 (0 fastest	frames) frames frames	» Check video bu Post-Alarm Images Post-Alarm Speed	offer 0 frames Select Speed 🔻	

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. Fastest is the highest value.

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

Advanced Configuration FTP(Periodic) Service Configuration - Advanced Services Please click the below link to configure FTP(Periodic) 🕀 E-mail service for each camera. FTP(Buffered) » Camera 2 ss Camera 1 FTP(Periodic) Sensor Notification Service Enable I Disable Alarm Output Server Address Base Directory Name Base File Name User ID Password Sequence Modulo FTP Control Port (Default:21, 0 ~ 65535) Date Description Mode American Style ÷ Connection Mode Active O Passive ? Option Directory Name File Name Overwrite Server Name Weekday Year Month Day Hour Minute Sec Sequence Camera Number Save Back Make Directory

16.1.3. FTP (Periodic) Service Configuration

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 Descrition 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 Enable to use the FTP (Periodic) service. Otherwise select Disable .
Server Add	ress	FTP Server Address.
Base Direct	tory 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 N	lame	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 I	Vodulo	Maximum number used in sequential file name
FTP Contro	l Port	Port number for FTP server (Normally 21 is used)
Date Descr Mode	iption	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 Nan	ne	If Directory Name is checked, new directory is created with server name. If File Name is checked, new file is created with server name.
Weekday		If Directory Name is checked, new directory name is created with weekday. If File Name is checked, new file name is created with weekday.
Year		If Directory Name is checked, new directory name is created with year. If File Name is checked, new file name is created with year.
Month		If Directory Name is checked, new directory name is created with month. If File Name is checked, new file name is created with month.
Day	•	If Directory Name is checked, new directory name is created with day. If File Name is checked, new file name is created with day.
Hour		If Directory Name is checked, new directory name is created with hour. If File Name 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 Nu	Imber	If Directory Name is checked, new directory is created with camera number. If File Name 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

Advanced Configuration	FTP(Pe	riodic) Service Configuration at Camera 1
⊕ E-mail	Please click be	low link to configure the service condition.
FTP(Buffered) FTP(Periodic)	» Condition 1	[Not Used]
Camera 1	» Condition 2	[Not Used]
⊕ Camera 2	» Condition 3	[Not Used]
 ■ Sensor Notification ■ Alarm Output 		
	Alarm Speed	Select Speed 🔻
		Back Save

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.

17. Recording Configuration for Cameras with microSD card

Some versions of VITEK IP cameras will have a microSD card slots on the back. Those models can record and playback video from the microSD card ifinstalled.Vitek IP cameras can

Support cards up to a 32GB. (Only use quality class 10 microSD cards)

17.1. MicroSD Configuration

If a microSD card (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 webbrowser, 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

File System	-None-
Total Disk Size	-None-
Free Disk Size	-None-
Usage	-None-
Oldest Image	-none-
Last Image	-none-
	Detail Stored Image Infomation

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



Click on "1st SD" and the following screen will be displayed



Read format option on screen and then click **Partition and Format**a 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

	SD Information			
File System	Default format			
Total Disk Size	1.79 GB			
Free Disk Size	1.69 GB			
Usage	5.69 %			
Oldest Image -none-				
Last Image -none-				
	Detail Stored Image Infomation			
	Back			

17.2. Recording Configuration with microSD 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 <u>Camera1</u>, the following screen will be display.



Select Condition 1andthe following window will be display.

Г		Con	dition 1					
	Service	Recordin	g					
	Module ID	0						
	Camera ID	1						
	Enable 🔘	Disable	0					
	Select Mode	 Always Schedu Event (Schedu 	: Ile Only Only Ile and Ever	nt				
		S	chedule					
	Sun Mon Tue Wed Thu Fri Sat Week							
	Time (hh:mm) XX : XX ~ XX : XX							
	Date (mm/dd) XX / XX ~ XX / XX							
	Event							
				1	2	3	4	
	Alarm Sensor							
	Motion Detection	ו						
	External Input D	ata						
	Camera Connec	ted						
	Camera Disconn	ected						
		Back	Save					
N De	otice : Motion De evice Configuration	tection ca on -> Carr	an be set at nera & Motic	on ->	Motio	on De	tection	
	Alarm Sen Device Co	sor can b nfiguratio	e set at n -> 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**".



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).

S	chedule
Sun Mon Tue Week	Wed Thu Fri Sat
Time (hh:mm)	XX : XX ~ XX : XX
Date (mm/dd)	XX / XX ~ XX / XX

Event

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

Event					_
Alarm Sensor	1	2	3	4	
Motion Detection	1				
External Input Data					
Camera Connected					
Camera Disconnected					
Back Save					
Notice : Motion Detection can be set a Device Configuration -> Came	t ra & I	Motio	n -> 0	Came	ra
Alarm Sensor can be set at Device Configuration -> DI/DO					

18. Utilities

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



18.1. 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.

	System Log	
Thu Dec 13 07:10:30 201	2 Home : 10.0.0.116	(null)
Thu Dec 13 07:11:08 201	2 Admin: 10.0.0.116	(null)
Thu Dec 13 07:11:10 201	2 Admin: 10.0.0.116	root
Thu Dec 13 07:11:50 201	2 Admin: 10.0.0.116	root
Thu Dec 13 07:13:02 201	2 Live : 10.0.0.116	root
Thu Dec 13 07:13:34 201	2 Admin: 10.0.0.116	root
Thu Dec 13 07:13:51 201	2 Live : 10.0.0.116	root
Thu Dec 13 07:14:21 201	2 Live : 10.0.0.116	root
Thu Dec 13 07:14:29 201	2 Live : 10.0.0.116	root
Thu Dec 13 07:14:32 201	2 Live : 10.0.0.116	root
4		•
	Back	

18.2. Save Configuration

VITEK cameras save the configurations after every step.



18.3. 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.

Reboot	
System reboot is strongly recommended to apply all ne configurations properly to the Network Video System.	w
Reboot!!	
Microsoft Internet Explorer	
Are you sure to reboot this system?	
OK Cancel	

18.4. 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.

Factory Default	
All of setting will be revert back to factory default except IP ac you press "Factory Default" button.	ddress, if
Back Factory Default	
Message from webpage	
Are you sure to Factory Default?	
OK Cancel	

18.5. 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 (<u>http://www.vitekcctv.com/Downloads.asp</u>). 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.

fodel	Mac Address	IP Address	Server Name	Progress	Status	Password	Select option for update with proper passwork
TD-13VN	1C7C45020083	10.0.0.50	Network Video		Ready		and then click the button to update firmware.
							ALL (Firmware, RAM disk, System, Web)
							SYSTEM and WEB
							WEB only
							Start update
							Get version
							Enter the password for each columns and click the button to get version of firmware.
							Get version

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. <u>*Highlight the*</u> <u>folder than click</u>**OK**.



After clicking OK the following window will be displayed.

odel	Mac Address	IP Address	Server Name	Progress	Status	Password	Update Select option for update with proper passworr
FD-13FN	1C7C4502003E	10.0.0.254	Network Video	8%	Trashferring file	NNN	and then click the button to update firmware.
							ALL (Firmware, RAM disk, System, Web)
							SYSTEM and WEB
							WEB only
							Start update
							Get version
							Enter the password for each columns and click the button to get version of firmware.
							Get version

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

19. ENVI Series Viewer

19.1. 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)

19.2. 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

19.3. 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

20. Installing and Uninstalling

20.1. 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.

20.1.1. 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 upas 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.



Model : VT-PTZ220NP, Firmware ver 4.16-B0-ds-VI Homepage ver 4.16-B0_VI for Network Video System

20.1.2. Manual Installation

When an Internet connection is not available or having some difficulties, you can manuallyinstall from the supplied CD usingENVI 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.

😂 Smart Viewer 1.1.0.4 Setup	_		
Installing Please wait while Smart Viewer 1.1.0.4 is being installed.			\$0)
Extract: italian.ini 100%			
RevMatch -			25
<pre>Back Next ></pre>		Cano	el

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



20.2. 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.

20.2.1. 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.

Smart Viewer 1.1.0.4 Uninstall		
Uninstallation Complete Uninstall was completed successfully		Ą
Completed		
Show details		
IRX/MULTIFIE		

20.2.2. 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.

Control Panel All C	Control Panel Items	Search Control Panel
djust your computer's setting	IS	View by: Small icons 🔻
Action Center	administrative Tools	📑 AutoPlay
Backup and Restore	📮 Color Management	🧧 Credential Manager
Date and Time	🕢 Default Programs	📑 Desktop Gadgets
Device Manager	B Devices and Printers	🧧 Display
Ease of Access Center	Flash Player	Folder Options
Fonts	👸 Getting Started	🍓 HomeGroup
iCloud	🚇 Indexing Options	🔁 Internet Options
Java	Keyboard	Location and Other Sensors
Mouse	💱 Network and Sharing Center	📟 Notification Area Icons
NVIDIA Control Panel	🚳 Parental Controls	Performance Information and Tools
Personalization	Phone and Modem	Power Options
Programs and Features	QuickTime	Precovery
Region and Language	🐻 RemoteApp and Desktop Connections	K Sound
Speech Recognition	🔞 Sync Center	1 System
Taskbar and Start Menu	Troubleshooting	😣 User Accounts
Windows Anytime Upgrade	📑 Windows CardSpace	Windows Defender
Windows Firewall	Windows Live Language Setting	Windows Update

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

Organize 👻					 ?
Name	Publisher	Installed On	Size	Version	
ኛ Windows Live Essentials 2011	Microsoft Corporation	8/26/2011		15.4.3538.0513	
Smart Viewer Uninstall/Change		11/9/2012			

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.

21. 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



21.1. Control Bar



Displays and hides Channel control bar



Displays and hides PTZ control bar



Displays and hides Audio control bar



Displays image normal screen

Display image by aspect ratio

Display Enhancer on/off (uses more CPU)



- 1:1
- Displays image in original size



System Information Display

21.2. Channel Control Bar



21.3. OSD Channels Buttons

21.3.1. 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.

Save in:	🚢 OS (C:)	•	G 🦸 📂 🖽 🗸			
C.	Name	*	Date modified	Type _	U TT M	ł
~?	AJPG_STO	RAGE	2011-04-10 8:36 AM	File fol		3
cent Places	AppsUtils		2011-01-14 7:10 PM	File fol	All Land	ŝ
	DELL		2011-04-13 9:11 PM	File fol =	- I - Martin	P
Desktop	Drivers		2010-10-14 8:08 AM	File fol	-	
Alter .	langame		2010-12-08 6:46 AM	File fol	0	
1000	🍶 Intel		2011-06-07 6:14 PM	File fol		
Libraries	KBStar		2010-12-08 6:46 AM	File fol	30	
1	log		2011-02-19 3:39 PM	File fol	-	
100	🌲 NPKI		2010-12-08 6:24 AM	File fol		
Computer	le PerfLogs		2011-06-09 10:02	File fol	and the second	
	J PFiles		2011-03-12 10:18	File fol	Contraction of the second	
Network	🍶 Pics-Archi	ve	2011-05-02 4:02 PM	File fol	A STREET	250
TYDEWLAN	bki nts	100 (BA)	2010-12-08 6:24 AM	File fol *		
	•			,		
	File name:	20110723_13h29m10s_Camera 1,	P9 •	Save		
	Courses have	Ince Files (Fine)		Cancel		

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.

21.3.2. 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.

🖉 Save As							×	
Search OS (C:) > + + Search OS (C:) >								٩
Organize 🔻 New folder								(?)
Documents	*	Na	ame		Dat	e modified	Туре	
My Documents			AJPG_STORAGE		201	1-04-10 8:36 AM	File folder	
Public Documents			AppsUtils		201	1-01-14 7:10 PM	File folder	E
P J Music			DELL		201	1-04-13 9:11 PM	File folder	
V Videos			Drivers		201	0-10-14 8:08 AM	File folder	
Videos	_		Hangame		201	0-12-08 6:46 AM	File folder	
N 📲 Hamagraun			Intel		201	1-06-07 6:14 PM	File folder	
P tomegroup	E		KBStar		201	0-12-08 6:46 AM	File folder	
A IN Computer			log		201	1-02-19 3:39 PM	File folder	
			NPKI		201	0-12-08 6:24 AM	File folder	
			PerfLogs		201	1-06-09 10:02	File folder	-
P E CD Dive (K.)	-	•						•
File name: 20110723_1	3h34n	n26s_C	amera 1.avi					•
Save as type: AVI Files (*	.avi)							•
Alide Folders						Save	Cance	el

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.

21.3.3. Manual Recording

To manual record from networkcameras with built-in local storage (microSD), live video

can be recorded to the microSD 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.



21.3.4. Instant Playback

For network cameras with local storage (microSD), 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

1 05,2011 15:08:11	•	Set the beginning of video data. Instant playback will scan 1 min after this.
Slow Normal	 Fast	Se the playback speed.
		Begin searching data
		Playback
		Reverse playback.
		1 frame playback
k		1 frame reverse playback
		Pause
		Stop

21.4. 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.

Pause	
FPS	١.
Flip	F
Mute Audio	
Do 1	
Navigation	

21.4.1. Pausing Live Video

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

C	Pause	
	FPS	►
	Flip	•
	Mute Audio	
	Do 1	
	Navigation	

21.4.2. 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.

Pause			
FPS	×.		1 Fps
Flip	×		2 Fps
Mute Audio			5 Fps
Do 1			8 Fps
Navigation			12 Fps
		۲	Fastest

21.4.3. 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.



22. 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-Rare 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-Rvia 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)



23. Requirements for Installation

23.1. 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
	9	N/A	9	36	Yes	160 TB
	16	N/A	16	64	Yes	160 TB
Multivendor	32	N/A	32	128	Yes	160 TB
	64	N/A	64	256	Yes	160 TB
	128	N/A	128	512	Yes	160 TB

23.2. 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
		D1	Intel Core2Duo T5200	1.0GB
	16 Channels	720P	Intel Core2Duo E7550	1.5GB
		1080P	Intel Core i-5-2500S	2.0GB
		D1	Intel Core2Duo E6700	1.0GB
	32 channels	720P	Intel Core i-5 750	2.0GB
Ц 244		1080P	Intel Core i-7 970	4.0GB
П.204		D1	Intel Core i-5 661	1.5GB
	64 channels	720P	Intel Xeon X5660	4.0GB
		1080P	Intel Xeon X5680 Dual CPU	4.0GB
		D1	Intel Xeon X5507 Dual CPU	4.0GB
	128 channels	720P	Intel Xeon X5670 Dual CPU	6.0GB
		1080P	Intel Xeon E7-4850 Dual CPU	6.0GB
		D1	Intel Core2Duo E6700	1.0GB
	16 Channels	720P	Intel Core i-5 460M	1.5GB
		1080P	Intel Core i-5 -2500	3.0GB
		D1	Intel Core i-5 661	1.5GB
	32 channels	720P	Intel Core i-5 -2400S	2.0GB
Mation IDEC		1080P	Intel Xeon X5590 Dual CPU	4.0GB
MOLIOII-JFEG		D1	Intel Core i-5 -2500	3.0GB
	64 channels	720P	Intel Xeon X5550 Dual CPU	4.0GB
		1080P	Intel Xeon E7-4850 Dual CPU	6.0GB
		D1	Intel Xeon X5687 Dual CPU	4.0GB
	128 channels	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.

24. 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.

Installer	Language	
	Please select a language.	
	English	~
	ОК	Cancel

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.

😚 Smart NVR VT 1.2.0.6 SV_Lite_16Ch Setup	×
Choose Install Location Choose the folder in which to install Smart NVR VT 1.2.0.6 SV_Lite_16Ch.	
Setup will install Smart NVR VT 1.2.0.6 SV_Lite_16Ch in the following folder. T different folder, click Browse and select another folder. Click Install to start th	To install in a he installation.
Destination Folder StiProgram Files (x86) (VITEX(Smart NVR))	rowse
Space required: 33,3MB Space available: 299,8GB Nullsoft Install System v2.46 SBack Install	Cancel

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

G Smart NVR VT 1.2.0.6 SV_Lite_16Ch Setup	
Installing Please wait while Smart NVR VT 1.2.0.6 SV_Lite_16Ch is being installed.	
MetaControl service install	
Nullsoft Install System v2.46	Cancel

Click Finish to complete the Installation.



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

ENVI Series: VTD-13FN / VTD-13VN / VTD-20VN

Smart NVR Configurator	
Type Admin Password	••••
	OK Cancel

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.

Smart NVR Configurator		
▓▂▙⋓₿₿ॣ₿⋣∅		
Configuration System, Network Configuration Poevice, Camera Management User Management Disk Setup Disk Setup Disk Quota Disk Mode Of Utilities	۲	•
	Description	
	1. To receive video and other data, register IP-Device.	
	2. The video and other data is used to re-transmit, record, search, and playaback.	
	3. To manage, register user and allow authority.	
	4. Setup disk space to manage recording data.	
	5. Supports Management toll such as Log.	
	۲	4
	Apply	se

To use EN-V-R Configurator program, refer to Section 27Starting EN-V-R Configuratoron page 100.

25. Uninstalling EN-V-R

25.1. 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 popup 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.

25.2. 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.

ENVI Series: VTD-13FN / VTD-13VN / VTD-20VN

Smart NVR VT 1.2.0.6 SV_Lite_16Ch Uninstall	X
Uninstalling Please wait while Smart NVR VT 1.2.0.6 SV_Lite_16Ch is being uninstalled.	6
Smart NVR service stop	
Nullsoft Install System v2:46	
Close	Cancel

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

🕞 Sm	art N	NVR VT 1.2.0.6 SV_Lite_16Ch Uninstall	x
	1	Smart NVR VT 1.2.0.6 SV_Lite_16Ch was successfully removed from y computer.	/our
			ок

26. 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).

26.1. 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.

26.2. 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.

26.3. EN-V-R Controller

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

26.4. 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.

,		
		Go Home
	🕞 🖻 🖺 🖑	Open Smart NVR Configurator
	🚆 🍖 🔼 🛤	Open Smart NVR Controller
	8 -1 Q 🖳	Open Disconnect backup
		Exit
	Customize	-
	EN 🔤 🏲 🛱 🕸	4:45 PM 12/17/2012

27. 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.

User Account Co	ntrol	x
Do yo chang	u want to allow the following program t ges to this computer?	o make
	Program name: SmartNvrCfg.exe Verified publishei. Unknown File origin: Network drive	
Show deta	ils Yes	No
	Change when these notified	cations appear

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**.

Smart NVR Configurator			<u> </u>
Type Admin Password	1		
		ОК	Cancel

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

Smart NVR Configurator	
a 1 6 6 5 5 4 0 0	
Configuration System, Network Configuration System, Camera Management User Management Disk Setup Disk Setup Disk Quota Disk Mode Utilities	
	Description
	1. To receive video and other data, register IP-Device.
	2. The video and other data is used to re-transmit, record, search, and playaback.
	3. To manage, register user and allow authority.
	4. Setup disk space to manage recording data.
	5. Supports Management toll such as Log.
	×
	Apply Close

28. 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.

28.1. EN-V-R Configurator User Interface

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

Smart NVR Configurator									<u> </u>
x 1 1 0 R = 9 1	A								
Configuration System, Network Configuration User Management Subst Setup Disk Setup Disk Quota Disk Mode Utilities	1. This catego 2. Smart NVR 3. Under man 4. On manual 5. Under auto 6. Modification 7. Deletion of 8. Internet E	ory is to register ar supports various v ual mode, all detai mode, working co matic mode, Smai of registered IP- registered IP-Dev splorer is required	nd manage IP-D vendor's IP came is of IP device n ondition of IP de rt NVR searches device is support ice is supported to access home	evices. eras. ieed to be ma vice doesn't a available netw ted. page	nually enter ffect to re <u>c</u> vork device:	ed. isteration	с		Þ
В		s 🖄 🌮	D						
	IP-Device Id	IP-Device Name	IP Address	HTTP Port	Vendor	Model	UAR	User	Cam
			E						
	•		"	1					Þ
F Apply G Close									

	Items	Descriptions
А	Main Toolbar	Frequently-used menu items are shown on this toolbar.
В	Configuration Menu tree	Configurable categories are shown as a menu tree style.
С	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.)
Ε	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.

28.2. 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.

IP-Device Register Wizard	<u> </u>
Search and register IP-Device Register IP-Device manually	Next Cancel

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

Scaning IP-Device							
* Explanations for * "Scan" button v * Select AN item * To register, dou * Register dialog v * You must regist	registering IP devices will search IP devices a and click "Go Home" b uble click an item or dr will pop up and fill out cer manually when reg	nd display results. nutton to access product ag multiple items click "Re information ister another NVR or Sma	homepage. egister" button. rtNVR .				
Vendor	Model	Name	MAC Address	IP Address	HTTP Port		
	Clear Go Home Register Close						

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.

Scaning IP-Devic	e					
* Explanations for * "Scan" button * Select AN item * To register, do * Register dialog * You must regis	or registering IP devices will search IP devices an n and click "Go Home" bu puble click an item or dra will pop up and fill out ir ster manually when regis	d display results. tton to access product homen g multiple items click "Register iformation ter another NVR or SmartNVR.	page. " button.			
Vendor	Model	Name	MAC Address	IP Address	HTTP Port	
VITEK VITEK	VTD-13FN VTD-13FN					
		Search Count : 2		Can	cel	
L			Clear	Scan G	Go Home Register	Close

28.3. 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.

caning IP-Device						
Explanations for "Scan" button v Select AN item To register, dou Register dialog v You must regist	registering IP devices will search IP devices an and click "Go Home" bu Ible click an item or dra will pop up and fill out ir rer manually when regis	d display results. Itton to access product homepag g multiple items click "Register" b iformation ter another NVR or SmartNVR.	je. utton.			
Vendor	Model	Name	MAC Address	IP Address	HTTP Port	
VITEK	VTD-13FN	Network Video System	1c7c45020012	10.0.254	80	
/ITEK	VTD-13FN	hector Test	1c7c4502003e	10.0.0.253	80	
			Cloar	See C	Bagiste	Class

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.

Registering New IP-Device				- O X	
-Inputting IP-Device inform	nation				
	IP-Device ID	10			
	Vendor	VITEK	•		
	Model	2 Channel Model	-		
	Name	Network Video Syster	n		
	IP Address	10.0.254			
	Input IP Address Range				
Getting Ir	formation from IP-Device	(May take several	minutes)		
Getting I	VC Medule ID		minucesy		
	VS Module ID	0	•		
	HTTP Port	80			
	RTSP Port	554			
	Login ID	root			
	Login Password	••••			
	Confirm Password	••••			
Checking available resoluti	on				
🛛 QCIF (QQVGA)	176 X 144 ~ 160 X	CIF (QVGA)	352 X 288 ~ 320 >	c i	
🔲 Half D1 (Half VGA)	704 X 288 ~ 640 X	📝 D1 (VGA)	704 X 576 ~ 640 X	c 🔤	
SVGA	800 X 600 ~ 720 X	XGA	1024 X 768		
HD720 (720P) 1280 X 720		SXGA	1280 X 1024		
UXGA	1600 X 1200	HD1080(1080P)	1920 X 1080		
Checking available PTZ ca	meras				
Camera1	Camera2	Camera3	Camera4		
· · · · · · · · · · · · · · · · · · ·			Save	Cancel	

Click on Save after configuring IP device (camera)

Registering New IP-Device	
Inputting IP-Device information	m
IP-Device	ID 10 -
Vend	Ior VITEK 🔹
Mod	del 2 Channel Model -
Nan	ne Network Video System
IP Addre	2SS 10.0.0.254
Input IP Address Rang	ge 🗖 ~
Getting Information from IP-Devi	ice (May take several minutes)
VS Module	ID 0
НТТР Ро	ort 80
RTSP PC	554 554
Login	ID root
Login Passwo	ord ••••
Confirm Passwo	vrd ••••
Checking available resolution	
	✓ CIF (QVGA) 352 X 288 ~ 320 X
Half D1 (Half VGA) 704 X 288 ~ 640 X	☑ D1 (VGA) 704 X 576 ~ 640 X
SVGA 800 X 600 ~ 720 X	XGA 1024 X 768
HD720 (720P) 1280 X 720	SXGA 1280 X 1024
UXGA 1600 X 1200	HD1080(1080P) 1920 X 1080
Checking available PTZ cameras	
Camera1 Camera2	Camera3 Camera4
	Save Cancel

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

Smart NVR Configurator							X
a 1 6 6 5 5 6 1 0							
Configuration System, Network Configuration Period Disk Setup Disk Setup Disk Mode Configuration Disk Mode Configuration Confi	1. This category is to register and manage IP-Devices. 2. Smart NVR supports various vendor's IP cameras. 3. Under manual mode, all details of IP device need to be manually entered. 4. On manual mode, working condition of IP device doesn't affect to registeration 5. Under automatic mode, Smart NVR searches available network devices. 6. Modification of registered IP-device is supported. 7. Deletion of registered IP-Device is supported. 8. Internet Explorer is required to access homenane < III III III III					ŀ	
	IP-Devic	IP-Device Name	IP Address	HTT	Vendor	Model	UA
	0	Brian	10.0.0.254	80	VITEK	2 Ch	Nc
	1	hector Test	10.0.0.253	80	VITEK	2 Ch	Nc
	•	III					4
					Apply	Close	

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

ENVI Series: VTD-13FN / VTD-13VN / VTD-20VN



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

Procressing	8
Service Status: : Stop Service.	

28.4. 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)



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.
Home Live View Player	
Auto ActiveX Control Installation	
If this auto process takes more than 30 seconds, click the below button and install it manually.	
Manual Download	

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

When you see the following security warning, click Install.

Do you want to install this softwar	re?	
Name: SmartViewer.cab		
Publisher: VITEK IVP, Inc.		
¥ More options	Instal	Don't Install
2		

28.5. 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)

র্র র				
Record	Disk Quota			Order
Recording				
-	Se HDD			
-	Possible Maximum Quota	327	GB	
-	Possible Minimum Quota	3	GB	
-	Set Quota	20	GB	
-				
		ОК	Cancel	

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.

Smart NVR Configurator								
x 1 4 6 r = 9 1 0								
Configuration	 This category Modify the car Change video Set a conditio Set Alarm, evo 	is for configuring s mera name and inf quality and resolut n of recording. ent, and map serv	settings of formation of tion of the ice of the I	registered f the regis IP-Device. registered i	IP-Devices tered IP-D IP-Device.	evice.		
	•		m					
		Resolution	Quality	Pacard	Abrm	Matia	Touring	Brocc
	Camera Name	2522288-	Quality	Voc	Nam	No.	No	No
	Camera 2	252x200-1	Highest	Vec	Vec	No	No	No
							,	

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

Configure Recording Condition		
 Select camera to configure condition You can select to multi camera Select condition to configure record condition Configure detail schedule and event Click Apply to camera button to apply condition Change record service Pre, Post images Click Apply to camera button to save changed condition Camera 1(Connection established) 	Configure Recording Condition Input Condition Use this condition Condition Mode a Always Recording Recording by schedule only Recording by schedule only Recording by schedule and event	
	Schedule Sun Mon Tue Wed Thu Fri Sat Day of week 12/31/1969 - 12/31/1969 - 12/31/1969 - Date 12/31/1969 - - 12/31/1969 - - Event 1 2 3 4 - - - Motion Detection - - - - - - -	
Recording Service © Disable Recording Service	External Input Data Condition list Apply to condition	
Pre Alarm Images 0 Pre Alarm Speed fastest POST Alarm Images 0 POST Alarm Speed fastest	Camera Name Con Condition Name Camera 1 1 [M1] Camera 1 2 -	* III
Camera list	Apply to camera	
Select Multi Camera IP-Device Id IP-Device I Camera 1 Camera 2 Camera 3 Camera 4	Me Camera Name Recording Condition 1 Condition 2 Condition 3 Camera 1 Enable [M1] - -	Conditic -
Unselect All	OK Can	el D

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.

Configure Recording Condition	
Select camera to configure condition You can select to multi camera Select condition to configure record condition Configure detail schedule and event Click Apply to camera button to apply condition Change record service Pre, Post images	Configure Recording Condition Input Condition © Use this condition Condition Mode Always Recording Recording by schedule only
7. Click Apply to camera button to save changed condition Camera 1(Connection established)	© Recording by event only @ Recording by schedule and event Schedule ♥ Day of week ♥ Time C AM 8:00 ♥ PM 5:00 ♥ PM 5:00 ♥
Recording Service	Date 12/18 ~ 12/18 Event 1 2 3 4 Alarm Sensor . . . Motion Detection . . . External Input Data . . .
Pre Alarm Images 0 Pre Alarm Speed fastest POST Alarm Images 0 POST Alarm Speed fastest	Camera 1 A 2 -
Camera list	Apply to camera
Select Multi Camera I Camera 1 Camera 2	e Camera Name Recording Condition 1 Condition 2 Condition 3 Condit Camera 1 Enable [Mon, Tue
Camera 3 Camera 4 Unselect All	III OK Cancel

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.

Smart NVR Controller		X
Start or Stop Service		
Current Service State	Service Running	
Start Service Stop Service	Refresh	Go Home
		Close

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.

29. ENVI Smart Player

29.1. 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.

29.2. Key Features

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

29.3. 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

30. Installing and Uninstalling

30.1. 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 asked you to install ActiveX click the massage bar than click on the Install ActiveX control...

P Network Yideo System - Smart Player - Windows Internet Explorer		
G . Ing C 10.16.221.39 section of traffs and	🖌 🕒 🕂 🗙 🌆 the faith	P+
Bie Edit Verw Figurates Jook Help		
👷 Pavortas 🛛 🙀 🏉 Supported Star. • 👔 Web Star Galaxy •		
Withdood tides Sectors - Small Flavor	St • E · C · A • box • Seley •	· 108 · 🔒 ·
This website wants to install the following add-on: 'Smart Player Install' from VITEK IVP, inc	. If you trust the website and the add-on and want to install it, Click here	×
	Home Live View Player Sample Ar	denin
Auto ActiveX C	ontrol installation	
If this auto process tak click the below butto	es more than 30 seconds, 1 and install it manually.	
Manual	Download	
	🖨 Internet 🚱	100%

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

30.1.1. 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 <u>http://www.vitekcctv.com/Downloads.asp</u>. 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**.



30.2. Uninstalling Smart Player

Before uninstalling, close all the Internet Explorer windows.

30.2.1. Uninstalling on Program Menu

📕 Vitek	
퉬 Smart NVR	
퉬 Smart Package	
퉬 Smart Viewer	
🍣 Uninstall	

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.

퉬 Vitek	
📗 Smart 📗	NVR
👲 Sm	art NVR Configurator
👾 Sm	art NVR Controller
🕖 Sm 🎯 Uni	art NVR Information
◀ Back	
Search prog	grams and files 🛛 🔎

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

		œ	<u>@</u>			
	to	\mathcal{A}°	8			
~[Ø	1]			
Customize						

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



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

Smart NVR Controller		X
Start or Stop Service		
Current Service State	Service Stopped	
Start Service Stop Service	Refresh Go Home	
	Close	

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

e 🖻 🖗 🗲 🖻	🚫 🎹 🗸 🔟	
-----------	---------	--

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**.

Group	×
Group Name	VITEK 1
Circulation	
Circulation Period	5 sec(1~255)
	OK Cancel

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

Server control bar	× Group contro	rol bar	×
E Server	Gro	pup	
🚊 📲 Network Video System		VITEK 1	
Camera 1			
Camera 2			
🚊 📲 Network Video System			
🙆 Camera 1			
Camera 2			

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.





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.



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.



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

×
ОК

31. Configuring& Viewing Player

From the Home Screen click on Player



31.1. Main Window View



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

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

Group Control Bar <mark>B</mark>	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	Users can use this bar for functions such as forward/reverse play, previous
Bar C	frame, next frame, pause, stop, playback speed.
Control Tool BarD	Users can change search modebetween calendar, condition, and data. It also provides additional features such as backup and spanshot
Time Line Control	Search condition (calendar, condition, and data) can be refined in this bar.
Bar <mark>E</mark>	
Display screenF	This screen shows multiple numbers of recorded videos.

31.2. 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"

Server		×
	Server	
-	Network Video Recorder	
	🕀 📲 Network Video Syste	
	🕀 📇 Network Video Syste	
	🗈 🚠 2MP indoor dome	
	🗉 🚠 Network Video Syste	
	🗄 🚠 hector Test	
Group		x
	Group	

31.3. Creatinga 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.

Group	— ×
vitek 2	ОК
	Cancel

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.



32. Searching Video

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

	December 2012									
Su	Мо	Tu	We	Th	Fri	Sat				
2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 <u>20</u> 27	7 14 21 28	1 8 15 22 29				
	•	Today 🕨 🕨								

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.

32.1. 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 searchfrom that group will be displayed



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

Group	×	
Group Group Ketwork Video Syste-Camera 1 Ketwork Video Syste-Camera 2 Ketwork Video Syste-Ca	× *	IX 2X 4X 8X 08:00 10 20 20 Brian-Camera 1 0
□- Ø vitek 2	Ŧ	 III

32.2. Daily Search



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



32.2.1. Search Mode

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

32.2.2. GO to Time Position

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

		Dece	embe	r 201	12	
Su 2 9 16 23	Mo 3 10 17 24	Tu 4 11 18 25	We 5 12 19 26	Th 6 13 20 27	Fri 7 14 21 28	Sat 1 8 15 22 29
44	31 4 Go t	to ti	Toda me	y pos	, itio:	* *

32.3. 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.

(T	lime	Conver	Comoro	Event	[
F	line	Jerver	Carriera	Lvent							
L											
Г	Candillan Pa										
	-Condition Se	arcn				Server	Camera	Result	Start Time	End Time	
	🔽 Time										
	2012 12-20	14:43:48	~ 2012	12-21 14	43:48						
		•			•	-					
					1						
	Sea	irch		Advanced	Search						
						-					
L											
1											

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 resultsare found, the

video will start playing back right after searching is completed.

x
Cancel

32.3.1. 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**.

Time	2011 01-26 10:41:47	▲ ~ 2011 01-27 10:	41:47
🗌 Group, Ca	mera Group: User Define	e 🤄 Camera ID: 🛛 All	.
Event	Motion	Sensor	
Motion			
Add Cond	tion Del Condition	Reset	
Search Conditi	on (01/26~2011/01/27][10:41~10:4	1)00	

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

Time	2011 01-26 11:41:47 ~	2011 01-27 10:41:47
Group, Ca	mera Group: User Define 🔄 Camer	ra ID: All
Event	Motion	Sensor
Motion	Alarm	
Add Cond	ition Del Condition	Reset
Search Conditi [-1:-1][2011 [-1:-1][][[M	on /01/26~2011/01/27][10:41~10:41][]]]]	

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.

33. Video Playback Controls



Play Reverse
Play Forward
Pause
Stop



34. Extra Features

34.1. Window Control

Users canopen or close control windows.



34.2. 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	

34.3. Backup

There are two backup formats IDX and AVI.

.IDX	Default video file format used by Vitek
	Donadie material dood by more

.AVI Video file format supported by Microsoft Windows



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

Backup	x
_ Select camera	
🔲 (Brian) Camera 1	*
🔲 (Brian) Camera 2	
(Network Video Syste) Camera 1	=
(Network Video Syste) Camera 2	
(Network Video Syste) Camera 1	
(Network Video Syste) Camera 2	-
I (nector rest) camera 1	
2012 12-26 08:23:10 - ~ 2012 12-26 09:23:10	•
Backup Type	
© AVI C FJP, IDX	
Backup path	
C:\Users\Hector.VITEK\Desktop\\20121226_(Recording Fol	der
OK Cancel	

Select Camera	Check the camera to backup. For AVI backup, only one camera is permitted. For FJP, IDX , multiple backup is allowed.
Backup Period Select the time frame (Start date and time ~ End date and time) t backup.	
Backup Type	Select either AVI or FJP, IDX 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.

Searching	X
[16833] frame searched	Cancel

After searching is finished, backup operation will start.

Backup			×
	Backup	(99/16833)	
		Stop	

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.

34.4. 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.

34.5. 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.



34.6. Ratio Display

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





35. EN-V-R Configuration

35.1. 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.

x 1 6 5 5 5 1 0	
Configuration System, Network Configuration System, Network Configuration Device, Camera Management Suser Management Disk Setup Disk Quota Disk Quota Disk Mode Outilities	e is for identification in IP Surveilance System. ord will be asked when executing configurator. ieans all connected users can use full functions. ss means only registered users can use authorized functions to be used to communicate Smartviewer and Smartplayer. nect to see Liveview and Playback through IPCCTVDNS.
Configuration	Value
System Name	Network Video Recorder
Admin Password	******
Access Control	Full Access
HTTP Port	80
IP CCTV DNS	Disable Service (www.ipcctvdns.com)
јлі	Apply Close

	Items	Descriptions
2;	System Name Setting	Enter the system's name.
22	Set up Admin password	Modify the password for Admin.
B	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

35.1.1. Configuring System name



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

	Configuring system na	me 🗖 🐹
	System name (Maximum length is 2	Network Video Recorder 21 words in English) OK Cancel
Items	Descriptio	ns
System name	Type in a S	ystem name.

ОК	Click this button to apply the entered System Name.
Cancel	Click this button to discard the configured System name.

35.1.2. System, Network Configuration - Admin password



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

onfiguring admin password	
Current password	
New password	
Confirm Password	
(Maximum length is 21 words	in English)
	OK Cancel

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.
ОК	Click this button to apply the changed password.
Cancel	Click this button to discard the change.

35.1.3. System, Network Configuration - Access Control



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

	Configuring user authentication
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.

35.1.4. System, Network Configuration - HTTP Port



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

	Configuring HTTP Port	
	HTTP Port (Default:80, 80 ~ 65535) For web access, video stre	80 Harming and playback
Items	Descriptions	
HTTP Port	Enter a HTTP Po	ort to use in the EN-V-R Service. (Default is 80)
ОК	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.

35.1.5. System, Network Configuration–IP CCTV-DNS



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

Configure IP-CCTV-DNS

Service :	Enable O Enable O Disable	
DNS Server IP :	www.ipcctvdns.com	Go Serve
MAC :	001aa094599e	
Product key :	61c07947	
External Port :	80	
Regisgter verify :	Connection Tes	

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.
ОК	Click this button to apply the changed IP CCTVV DNS settings.
Cancel	Click this button to discard the changed IP CCTV DNS settings

36. IPCCTVDNS Registration

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

	NS	
IP-CCTV DNS Server	IP-CCTV DNS is designed for Dynamic-IP users specially with - IP Camera - NVR (Network Video Recorder) - NVS (Network Video Server)	 User Group ID: Password: Login Sign Up Forgot Your Password? Field Test

If this is your first visit your need to Sign Upif you abide by the Agreement, click on "I Agree" than

on the NEXT button as shown below.

IP-CCTV DNS Server	
Sign Up	
Agreement	
IP-CCTV DNS Service Agreement	
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.	
I Agree ◎ I do not Agree	
Next	

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

Sign Up	
	Membership
ID [E-Mail] *	vitek@vitekcctv.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	
	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.

	NS	
P-CCTV DNS Server	IP-CCTV DNS is designed for Dynamic-IP users specially with - IP Camera - NVR (Network Video Recorder) - NVS (Network Video Server)	User Group ID: Password: Login Sign Up Forgot Your Password? Field Test

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

	IP-CCTV DNS	Hector Login			Registration	Product	List	My Info	Log Out	
P	Product List									
	Product List - Simple Information Detail Information									
Num	Name	Mac Address External IP			External Por t	Internal IP	Internal Por t	DDNS Host Nar	ne	
	There is no result.									
		Name 🔻				Search				
	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.

	Server	Hector Login	Product Registration	Product List	My Info	Log Out					
Product Regis	stration										
Product Registration											
Name											
Mac Address *											
Product-Key *											
Notice	* Input Product 1 (If skip, it will b * Mac Address & Find the informa - Admin-n - Label att	nput Product Name up to 30 characters that you prefer. If skip, it will be automatically filled with the default model name of the product.) Vlac Address & Product-Key are mandatory to input. ind the information from - Admin.menu => IP-CCTV DNSTM Setup, OR - Label attractor products with Serial No. & Product leav No.									
	1	Ар	Reset								

Note that the Mac Address and the product Key will be available under the Network Configuration>> IP-CCTV DNS setupin thecamera menu. Please see image below.

IP-CCTV DNS™ Setup

Service	🖲 Enable 🔘 Disable
DNS Server IP	www.ipcctvdns.com Go
Mac Address	1C7C4502003E
Product-Key	01FBA6C8
IP-CCTV DNS Registration verification	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.

	IP-CCTV DNS	Hector Login	Produc	Registration	n Product Li	st	My Info Log	Out			
P	Product List										
	Product List - Simple Information Detail Information										
Num	Name	Mac Address	External IP	External Por t	Internal IP	Internal Por t	DDNS Host Name]			
1	la	1C7C4502003E 0.0.0.0 0 0.0.0.0 0 fw1c7c4502003e				fw1c7c4502003e]				
	< <previous 1="" next="">> Name</previous>										
	Notice :	Detailed information of prod in the upper right and Editing	ucts are seen by clicking 'De g & deleting product informa	tail Information tion is available	n' e.						

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

IP-CCTV DNS	Hector Login	Product Registration	Product List	My Info	Log Out
Product List					
	Product	List - Simple Information	Det	ail Information	

Click Edit to change the DDNS Host Name.

		P-CCTV DNS Server Hector Login			Product Re	gistration	Product Lis	t My Iı	nfo	Log Out		
	Product List											
	Product List - Detail Information							Sim	ple Information]		
Num	Name	Mac Address	External IP	External Por t	Internal IP	Internal Por t	Last Refresh Time	IP-sharer model	DDNS Host Nam e	System Vers ion	Edit	Del
1	la	1C7C45020 03E	0.0.0.0	0	0.0.0.0	0			1c7c4502003e	0.0	Edit	Del
	<< Previous 1 Next >>											
	Name - Search											

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

IP-CCTV DNS	r Hector Login		Product Registration	Product List	My Info	Log Out			
Product Info									
Product Information									
Name	la								
DDNS Host Name	vitek1sttest	Only lowe	rcase letters, arbic number, '-', and	_' can be inputted.)					
Mac_address	1C7C4502003E]							
		Apply	Back						

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?
	OK Cancel

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



Click under Product List to view your changes

IP-CCTV DNS	ver Hector Login	Product Registration	Product List	My Info I	Log Out					
Product Info										
	Product Information									
Name	la									
DDNS Host Name	vitek1sttest (Only lowercase letters, arbic number, '-', and	d'_' can be inputted.)							
Mac_address	1C7C4502003E									
		Apply Back								

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

27	DNB Server	Hector Login	Produc	t Registration	Product 1	list	My Info Log
Pro	duct List						
			Product List - Simple Inf	ormation		Detail In	formation
Num	Name	Mac Address	External IP	External Por t	Internal IP	Internal Por t	DDNS Host Name
1	la	1C7C4502003E	0.0.0.0	0	0.0.0.0	0	vitek1sttest
			<< Previous 1 Next >	>			

Your camera is now registered and ready for use.



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37. 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.

Smart NVR Configurator							x
a 1 4 6 r = 9 1 0							
Configuration → System, Network Configuration → Debevce, Camera Management → Disk Setup → Disk Quota → Disk Mode → Utilities	1. This cate 2. Smart N 3. Under m 4. On manu 5. Under at 6. Modificat 7. Deletion 8. Internet	1. This category is to register and manage IP-Devices. 2. Smart NVR supports various vendor's IP cameras. 3. Under manual mode, all details of IP device need to be manually entered. 4. On manual mode, working condition of IP device doesn't affect to registeration 5. Under automatic mode, Smart NVR searches available network devices. 6. Modification of registered IP-device is supported. 7. Deletion of registered IP-Device is supported. 8. Intermet Explorer is required to access homenane 4. III					
	IP-Devic	IP-Device Name	IP Address	HTT	Vendor	Model	UA
	0	hector Test	10.0.0.253	80	VITEK	2 Ch	No
					Apply	Close	

		Items	Descriptions
14	А	IP-Device Manual Registration	Register IP-Devices manually by users.
2	В	IP-Device Automatic Registration	Scan and register IP-Devices automatically by the program.
2	С	IP-Device Modification	Modify the information of registered IP-Devices.
204	D	IP-Device Deletion	Delete IP-Devices previously registered.
3	Е	IP-Device Homepage	Go to the homepage of the IP-Device.

37.1. IP-Device Registration (Manual)



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

	Registering New IP -Device				
	Inputting IP-Device inform	nation			
		IP-Device	e ID 🤌	0	~
		Ven	ndor 8	VITEK	~
		Ма	odel C	4 Channel Model	~
		Na	ame C	SmartN¥R 1	
		IP Addr	ess E	10.10.237.120	
		Input IP Address Ra	nge F	~	
	Getting In	formation from IP-Dev	vice G		reral minutes)
		VS Module	e ID H	0	·
		HTTPI	Port	80	
		BTSP	Port J	554	
		Logi	n ID K	root	
		Login Decou	un no		
		Confirm Deserv	roru s		
		Comm Passw	vora N		
	Checking available resol	ution			252 V 200 ~ 220 V
		704 288 640 2			352 X 268 320 X
		800 × 600 ~ 720 ×	0		1024 × 768
	HD720 (720P)	1280 × 720			1280 × 1024
	UXGA	1600×1200		🗆 QXGA	2048×1536
	Checking available PTZ	cameras			
	Camera1	Camera2	Ρ	Camera3	Camera4
					Q R Save Cancel
	Descr	iption			
vice ID	Select	the IP-Devic) 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

Α



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 -					
		2 Channel Model 2 Channel Model 4 Channel 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.					
Н	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)					
К	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)					
Μ	Confirm Password	Type in the same password to confirm. (Default is root)					
0	Checking available resolution	Select the Video Resolution for the device. <i>Not used, all resolution is done at camera level</i>					
Ρ	Checking available PTZ camera	Checkboxes to choose if PTZ is supported on the IP device.					
Q	ОК	Click this button to apply the configured values.					
R	Cancel	Click this button to discard the configured values.					

37.2. 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

Explanations fo	r registering IP devices					
"Scan" button	will search IP devices and d	isplay results.				
Select AN item	and click "Go Home" butto	n to access product home	page.			
To register, do	uble click an item or drag m	ultiple items click "Register	" button.			
Register dialog	will non up and fill out infor	mation				
Keyister tialog	will pop up and the out into	macioni				
You must regis	ter manually when register	another NVR or SmartNVR				
Vendor	Model	Name	MAC Address	IP Address	HTTP Port	
VITEK	VTD-134F	EN-V-R_Test1	00306f0049	10.10.237.51	80	
VITEK	VTD-13V210	EN-V-R_Test2	00306f8119	10.10.237.73	80	
VITEK	VTD-134F	EN-V-R_Test4	00306f8324	10.10.237.120	80	
VITEK	VTD-13V210	EN-V-R_Test5	00306f8324	10.10.237.121	80	
VITEK	VTD-MV13V	EN-V-R_Test6	00306f8324	10.10.237.122	80	Δ
VITEK	VTD-MV20V	EN-V-R_Test7	00306f8324	10.10.237.123	80	
VITEK	VTD-MV13VR	EN-V-R_Test8	00306f8324	10.10.237.124	80	
VITEK	VTD-MV20VR	EN-V-R_Test9	00306f8324	10.10.237.126	80	
VITEK	VTC-IR4013	EN-V-R_Test10	00306f8323f1	10.10.237.127	80	
VITEK	VTC-IR4020	EN-V-R_Test11	00306f8324	10.10.237.128	80	
VITEK	VT-PTZ220N	EN-V-R_Test12	00306f8323f0	10.10.237.129	80	
VITEK	VTD-134F	EN-V-R_Test13	00306f8324	10.10.237.130	80	
VITEK	VTD-13V210	EN-V-R_Test14	00306f8324	10.10.237.131	80	
			D	c	D E	

	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.
В	Clear	Clear the scanned IP Devices from the list.
С	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.
Е	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.

. Pleas	e contidure model, res	olution and ptz setting	with mouse											
Resolu B1:1	ution Description 76×144 ~ 160×112	B2: 352 × 288 ~ 32	0×240 B3	704×288~640×	240 8	B4·704×5	76~64	0 × 48	n	B5:8	00×6	00 ~7:	20 × 48	20
R6: 1	024×768	R7: 1280 × 720	R8:	1280×1024		R9: 1600 X	1200	07110	·	R10:	2048>	< 1536		
DT7 In	stell Description													
P1: P	TZ 1	P2: PTZ 2	B P3:1	PTZ 3	ſ	P4: PTZ 4								
IP-D	Name	MAC Adderss	IP Address	Model	Login	. Login	R1	R2	R3	R4	R5	R6	R7	R
0	EN-V-R_Test1	00306f832439	10.10.237.120	4 Channel M	root	kokolak	0	0	X	0	X	X	X	Х
1	EN-V-R_Test2	00306f832403	10.10.237.121	4 Channel M	root	Antohok	0	0	Х	0	Х	Х	Х	Х
2	EN-V-R_Test4	00306f832429	10.10.237.122	4 Channel M	root	kokokok	0	0	Х	0	Х	X	X	Х
3	EN-V-R_Test5	00306f832424	10.10.237.123	4 Channel M	root	Achielesk	0	0	X	0	X	X	×	Х
4	EN-V-R_Test6	00306f83240e	10.10.237.124	4 Channel M	root	skolok	0	0	×	0	×	×	×	X
				c										

	Items	Descriptions
А	Resolution Description	Descriptions of the image resolution modes in the IP-Device list.(R1, R2, R3, R4, R5, R6, R7, R8, R9, R10)
В	PTZ Install Description	Descriptions of the PTZ numbers in the IP-Device list. (P1, P2, P3, P4)
С	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

inputting IP-Device inform	mation					
	IP-Device ID	A 0	*			
	Vendor	B VITEK	•			
	Model	C 2 Channel Model	•			
	Name	D Network Video Sy	stem			
	IP Address	E 192.168.2.51				
	Input IP Address Range	F 🗆 ~				
Getting I	nformation from IP-Device	G (May take sev	eral minutes)			
	VS Module ID	H0 •				
	HTTP Port					
	RTSP Port	554				
	Login ID	root				
	Login Password	••••				
	Coofirm Password					
	Commin Password	м				
Checking available resolut	ion					
QCIF (QQVGA)	176 X 144 ~ 160 X	CIF (QVGA)	352 X 288 ~ 320 X			
Half D1 (Half VGA)	704 X 288 ~ 640 X	D1 (VGA)	704 X 576 ~ 640 X			
SVGA	800 X 600 ~ 720 X N	XGA	1024 X 768			
HD720 (720P)	1280 X 720	SXGA	1280 X 1024			
UXGA	1600 X 1200	QXGA	2048 X 1536			
Checking available PTZ ca	meras					
Camera1	Camera2 O	Camera3	Camera4			

	Items	Descriptions
А	IP-Device ID	IP-Device ID is displayed. (not allowed to modify)
В	Vendor	Select the Vendor of the device.
С	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)
н	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.
T	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)
М	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>
0	Checking available PTZ camera	Checkboxes to choose if PTZ is supported.
Р	OK	Click this button to apply the changed values.

Q Cancel

Click this button to discard the changed values.

37.3. 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

37.4. 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

37.5. 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

R	А	Camera Information	Configure Information of the selected camera.
	В	Resolution and Quality	Choose the resolution and quality of cameras.
2	С	Recording Conditions	Set up recording conditions.
	D	Alarm and Map service settings	Configure Alarm and Map service functions.

37.5.1. Configure Camera Name and Information



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

Configuration Configuration D-Device, Camera Management O: Network Video System 2: 22MP indoor dome 2: Network Video System 2: Network Video System 2: Network Video System 2: Network Video System User Management User Management	 This category is for configuring settings of registered IP-Devices. Modify the camera name and information of the registered IP-Device. Change video quality and resolution of the IP-Device. Set a condition of recording. Set Alarm, event, and map service of the registered IP-Device. 								
Disk Setup Disk Quota Disk Mode	Camera Name Camera 1 Camera 2	Resolution 352x288~ 704X576~	Quality High High	Record Yes Yes	Alarm Yes Yes	Motio No No	Touring No No	Preset No No	
						Apply		059	

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

Configure camera	a name and inform	mation	Record	Alarm	Motio	Touring	Drecet
Camera Name	Resolution	Quality	Record	Alami	Hodom	rouning	Freder
Camera 2	704X576~	High	Yes	Yes	No	No	No
Camera 1	352x288~	High	Yes	Yes	No	No	No

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.
Н	Apply to Camera	Apply the changed camera name to the system.
I	ОК	Click this button to confirm the change and close the window.
J	Cancel	Click this button to cancel the change and close the window.

37.5.2. Camera Resolution, Quality



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

Camera Configure	e camera resolutio	on and qual	ity ecord	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 will be display, adjust resolution (F), then click **Apply to camera**(H), then **OK**

Configure camera resolution and qu	iality				
Select camera below list to display		6 I			
Camera 1(Connection establis)		Resolu	ition: F Min	352x288~320x240	Max
		Qu	ality: G Lowest	Highest	Highest
A Address of the Addr				Apply t	co camera
Select Multi Camera					
	IP-Device Id	IP-Device Name	Camera Name	Resolution	Quality
A Camera 1	0	hector Test	Camera 1	352x288~320x240	Highest
B Camera 2	0	hector Test	Camera 2	352x288~320x240	Highest
C Camera 3					
Camera 4					
E Unselect All					
	•				J •
				Go Home	Close

	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.
Н	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.

37.5.3. Configure Camera Recording Condition



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

Camera Name Configure camera recording condition 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.

1. Select camera to configure c	ondition		Confin	ure Recording Condition							
2. You can select to multi came	era		Inn	ut Condition							
3. Select condition to configure record condition				Use this condition	G		C Do not	use this	conditio	'n	
4. Configure detail schedule and	d event			Condition Mode	•		0.00 1100	use cho	contaicie	91	
5. Click Apply to camera button	to apply condition		(Always Recording							
6. Change record service Pre, P	ost images			Recording by schedul	e only		н				
7. Click Apply to camera button	to save changed c	ondition		Recording by event o	nlv						
Camera 1(Connection estab	lished) 🛬 🥁			Recording by schedul	e and e	vent					
				ah a dula							
	1	-un-		schedule	Su	n	Mon Tue	Wed	Thu	Fri S	at
		and a start	1	Day of week	0	1	0 0				3
			1	Time	1	2/31/1	1969	~	12/3	1/1969	
	30 x 3 x	1 the second			10				- Contraction		[m]
				Date	1	2/31/1	1969	~	12/3	1/1969	w.
-11		TO	E	Event			121 121				
Provest and a second second		6-1		Abro Cancor	1	1	2 3	4			
				Mation Detection		1		-			
ADVERT PRODUCT	- London			External Input Data							
Recording Service				Excernal sipur baca						K	
Enable Recording Service	Disable Record	ling Service	Con	dition list				ſ	40	nk to conditio	
Pre Alarm Images		0 👻	Con							ply to condition	JII
Pre Alarm Sneed		fastest 💌	Car	mera Name	Con	Cond	ition Name				-
ne nem si		induction in the second	Car	mera 1	1	[M1]					-
POST Alarm Images		0 -	Car	mera 1	2	-					
POST Alarm Speed		fastest 👻									•
								_		L	
Camera list									Ap	ply to camera	1
Select Multi Camera	ID-Davica Id	ID Davica Nama	_	Camera Name	Pace	ordina	Condition 1	Conc	lition 2	Condition 2	Condit
Camera 1	Theorem In	ar Device Halfie		Comera Manie	nect	ang	Contración 1	CUIIL		Condicion 3	Condic
	3	Network Video	System	Camera 1	Enab	ole	[M1]				•
Camera 2											
Camera 3											
Camera 4									-		

	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.
Н	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.
Μ	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.

N	Pre Alarm Images	Select pre-alarm images.
0	Pre Alarm Speed	Select pre-alarm speed.
Р	Post Alarm Images	Select post-alarm images.
Q	Post Alarm Speed	Select post-alarm speed
R	ОК	Click this button to confirm the change and exit the window.
S	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	4
Camera 1	1	[M1]	Ξ
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 V	Sat
Time	AM	8:43	A V	~	AM 8	8:43	×
Date	12/2	8	×	~	12/28	}	×

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

Event						
	1	2	3	4		
Alarm Sensor						
Motion Detection	1					
External Input Data						

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

After apply to condition click $\mbox{Apply to camera (L)},$ and then click $\mbox{OK}(\mbox{R})$

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

37.5.4. 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					<u> </u>
Check desired alarm Check desired alarm Check desired alarm Start recording Chable DO Operating Preset mode Popup Window			Please select camera Check event want to service V Enable Event Service V Start recording V Stop recording V Motion Start Motion Start Motion Stop V DI On V Ideo Normal V Video Lose V IP-Device Network Connected V IP-Device Network Disconnected V Touring Start		
Touring Stop			Disable DO		
			н	Apply to a	camera
Select Multi Camera	IP-Device Id	IP-Dev	rice Name	Camera Name	
A Camera 1	Camera 1 0 hect			Camera 1	
B Camera 2	B Camera 2 0 hect			Camera 2	
C Camera 3 D Camera 4					
Unselect All					
				ОК	Cancel

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.
Н	Apply to Camera	Click this button to apply the changes to the camera.
I	ОК	Click this button to confirm the change and exit the window.
J	Cancel	Click this button to cancel the Alarm, Event configuration.

37.6. User Management

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

Smart NVR Configurator						
a. 1 0 6 5 5 1 0						
Configuration System, Network Configuration Device, Camera Management O: Network Video System User Management Disk Setup Disk Quota Disk Mode Utilities	 It is possible to add, modify, and delete users. Full Access authority means no limitation to all functions. General Access means only Liveview of the all cameras. No Access means no camera you can access. Selective Access means accessing to assigned cameras. 					
	×	ш		×		
	-1 53 ×1					
	A B C	User Name	Access Permission			
	user1	Manager	Full Access			
	-					
	-					
			Apply	ose		

		Items	Descriptions
2	А	User Registration	Register new users to the system.
-	В	User Modification	Change the information of existing users.
×	С	User Deletion	Remove the account of existing users.

37.6.1. User Registration



er Accou	inc					
	A User ID	L				
	B Password					
С	Confirm password					
	D Name					
Notice:	Jser ID Password r	nust be alphanum	eric within 23	3 characters.		
stem Re	source Access Perm	hission				
	annels Access					
© ru ci	lames necess					
Conc	ral Access(Only Vie	w)				
Gene	nal Access(only vie					
O dene	coor					
O No A	ccess					
 No A Selection 	ccess tive Access					
No A Selec	ccess tive Access					
© No A © Selec System	ccess tive Access F Module	Port	Alarm	PTZ	Audio	Playbaci
 No A Selection System Enable 	ccess tive Access F Module	Port	Alarm Control	PTZ Control	Audio Control	Playbac
© No A © Selec System Enable	ccess tive Access F Module	Port All Port +	Alarm Control	PTZ Control	Audio Control	Playbac
 No A Select System Enable Ne⁺ Ne⁺ 	twork Video Sy +	Port All Port + All Port +	Alarm Control	PTZ Control	Audio Control	Playbac
© Gene © No A © Selec System Enable Ne Ne Ne	Ccess twe Access Module twork Video Sy + twork Video Sy + twork Video Sy +	Port All Port + All Port + All Port +	Alarm Control	PTZ Control	Audio Control	Playback
 Vo A No A Select System Enable Ne Ne Ne Ne Ne Ne 	tive Access tive Access Module twork Video Sy + twork Video Sy + twork Video Sy + twork Video Sy +	Port All Port * All Port * All Port * All Port *	Alarm Control	PTZ Control	Audio Control	Playbac
 Vo A No A Select System Enable Ne Ne Ne Ne Ne Ne 	twork Video Sy + twork Video Sy +	Port All Port * All Port * All Port * All Port * All Port *	Alarm Control	PTZ Control	Audio Control	Playback
 Vo A No A Select System Enable Net 	twork Video Sy + twork Video Sy +	Port All Port ~ All Port ~ All Port ~ All Port ~ All Port ~ All Port ~	Alarm Control	PTZ Control	Audio Control	Playback
 Vo A No A Select System Enable Ne 	the Access	Port All Port ~ All Port ~ All Port ~ All Port ~ All Port ~ All Port ~ All Port ~	Alarm Control	PTZ Control	Audio Control	Playbac
No A Selecc System Table Ne	twork Video Sy + twork Video Sy +	Port All Port ~ All Port ~	Alarm Control	PTZ Control	Audio Control	Playback

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

	Items	Descriptions			
А	User ID	Enter a new User ID to register.			
В	Password	Enter the Password for the new user.			
С	Confirm password	inter 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. All channels access: Viewing all cameras, Alarm, PTZ, Audio, Searching General access: Viewing all cameras only No access: An user account without any access to cameras Selective access: Access to only selected cameras and privileges. 			
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	ОК	Click this button to apply the registration of the new user.			
Н	Cancel	Click this button to cancel the registration process.			

37.6.2. User Modification



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**.

37.6.3. 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 .

37.7. Disk Setup

37.7.1. 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.

Configuration System, Network Configuration DP-Device, Camera Management User Management Disk Setup Disk Quota USK Mode	1. Select Hi 2. Under Di 3. You can 4. To exclui 5. Contents 6. Changes	DD from disk list ar sk Quota, set a tai modify the size of de HDD from list, o s in excluded HDD will take effect aft	nd click "Regist rget value and recording cap click target HD will not be sea ter from next s	er" button click "OK" acity at any tim D and click "rer arched start or click "aj	le. nove"button oply" from ser	vice menu	
			ш				2
	AB						
	Record	Drive	Туре	Drive Size	Free Size	Quota Size	Orde
	-	C:/	HDD	37 GB	27 GB	0 GB	
	_						

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

37.7.2. 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.

Use HDD			
B Possib	ole Maximum Quota	23	GB
C Possi	ble Minimum Quota	3	GB
	D Set Quota	23	GB

	Item	Description
А	Use HDD	Decide whether this HDD is to be used.
В	Possible Maximum Quota	Display Possible maximum quota on this HDD.
С	Possible Minimum Quota	Display Possible minimum quota on this HDD.
D	Set Quota	Enter the desired size of disk quota for recording.
Ε	ОК	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.

37.7.3. Disk Mode Change

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

Smart NVR Configurator						
Configuration Configuration Powce, Camera Management Configuration Conf	 Cick icon to configure disk circulation. If circulation is enabled, oldest data will be removed for new data If circulation is disabled, recording will be stopped when there is no space Limiting recording duration can be configured by daily basis If you set recording duration, data over configured period will be erased For system stability, data over configured period can be erased 					
	A B Configuration	Value				
	Disk Circulation	Use circulation (Record new data remove oldest data)				
	Expired Duration	Not use expired duration				
	Email report	No				
		Apply Close				

		Items	Descriptions
2	А	Disk Circulation Setup	Configure disk circulation type.
	В	Disk Usage Report Setup	Configure email address for reporting.



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



	Item	Description
А	Use circulation	Select this if disk circulation will be used.
В	Not use circulation	Select this if disk circulation will not be used.
С	Use expired duration	Decide whether the expiration will be used for recording. (This can be seen when "Use circulation" is selected.)
D	Expired days	Enter the date when the recorded content will expire.
Е	ОК	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.

Chable report ser	rvice	O Disa	ble report s	service	
eport HDD space (No	on-circulation only	()			
100%	90%	80%	6	70%	
eriodic report			-		
Sun Mor	n 🛄 Tue	Wed Wed	🛄 Thu	E Fri	i Sat
Sun Mor	n 🔳 Tue	I Wed	🛄 Thu	E Fri	L Sat

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

37.8. 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**.

Configuration C		
Utilities		m
	Configuration	Value
	Email account	Disable
	About program	Smart NVR Configurator

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

37.8.1. 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

Configure email account	
A Service B SMTP Server	: © Enable
C Authentication D Email user id	: © Enable
E Email user password F Sender email	:
G Recipient email #1	:
H Recipient email #2	•
I Recipient email #3	:
J Email Subject	: Mail from SmartNVR K OK Cancel

	Item	Description
А	Service	Decide whether to report HDD usage by email or not.
В	SMTP server	Enter the address of SMTP server for sending email.
С	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	ОК	Click to apply the Email account registration.
L	Cancel	Click to cancel this configuration.





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

Smart NVR Configurator		
Product Info Smart NVR Configurator		
Ver (1.0.0.0)		
Copyright (C) 2011	A	
Evaluation(16 channel, MultiVendor)		
System Resource		
CPU:3% Core0:3%		
Memory:682 MB / 1535 MB (44%)	В	
Network:0bps(192.168.2.50)		
		ОК

	Items	Descriptions
А	About program	Show the information about the EN-V-R running.
В	System Resource	Displays the PC's system resource information.
С	ОК	Click this button to close the Window.

38. Using EN-V-R Controller

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

📙 Vitek				
퉬 Smart NVR				
Smart NVR Configurator				
Smart NVR Controller				
Smart NVR Information				
🎯 Uninstall				

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



The following window will open

Smart NVR Controller	X
Start or Stop Service	A
Current Service State B	Service Stopped
Start Service Stop Service	Refresh Go Home
Ŭ	F Close

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

39. Connecting to EN-V-R

39.1. 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.

Smart NVR Controller	X	
Start or Stop Service		
Current Service State	Service Running	
Start Service Stop Service	Refresh Go Home	
	Close	

• 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
А	Home	Go to EN-V-R's homepage.
В	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.
С	Player	Click this button to search, record, and back up the video data sent from IP devices registered in EN-V-R.

39.2. 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 19**.*ENVI Series Viewer* **on page 80** for details on how to use ENVI Viewer program. Refer to *Section 29*. *ENVI Smart Player* **on page 113** for details on how to use ENVI Smart Player program.



• 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)

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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