User's Guide

TRENDNET®



TRENDnetView Pro

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Chapter 1 Network IP Cameras

What is a network (IP) camera?

Network camera, IP addressable camera, IP Camera, all referring to the same type of cameras, is a digital camera that can be directly connected to the Internet through a network cable or Wireless connection. Network cameras send already digitized and compressed video streams. Network Cameras are the fastest growing trend in the Surveillance industry. Here are some of the benefits of IP cameras:

- Existing local network infrastructure could be used for the installation.
- Comparably less cabling required compared with an analog CCTV installation.
- Network cameras have built-in motion detectors and compression engines, which enable the DVR Server to use a minimum of its computer resources; therefore, the same computer can also be used for other tasks.
- There are Network (IP) cameras with very high resolution (1.3 Mega pixels and more). Analog cameras are incapable of achieving such resolution.
- Network (IP) camera installations are highly scalable and upgradeable. There is no need to buy and install additional video capture boards for the DVR system in the event you want to add a camera or increase performance of the system.
- Any analog camera can be converted to a network camera by using a Network (IP) server.
- There is no geographical limitation for the installation.
- Effective off site recording (either by itself or in addition to onside recording) eliminates the possibility of destruction of the video medium due to deliberate actions or an accident (fire, flooding, etc.).
- Some of the network cameras also can be used as a webcam to serve as an advertising engine for a business.

MPEG4/H.264 IP cameras:

Without compromising image quality, an H.264 encoder can reduce the size of a digital video file by more than 75% compared with the Motion JPEG format. This means that much less network bandwidth and storage space are required for a video frame. A higher video quality can be achieved with less bit rate.

- Better Average Bandwidth and Storage Reduction over MJPEG
- High-quality megapixel video stream at 20fps can be as low as 2 Mbps
- High resolution and bandwidth efficiency

PTZ Cameras

What are PTZ Cameras?

PTZ camera is the camera with the mechanical assembly for Panning, Tilting and Zooming the camera. There are many types of PTZ cameras available and their cost varies based on Speed, Zoom capacity, Manufacturer, etc. Network PTZ cameras does not require any addition wiring or devices, since PTZ commands are being send over TCP/IP network; therefore, making installation process much simpler and eliminating a lot of compatibility and configuration issues.

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- Through the software, 32 cameras can be managed, configured, and adjusted, without the need to be at the server site.
- Right mouse click on any camera to show a list of various options like camera setup, recording settings, user management, and etc.
- Right mouse click on any camera to access archive playback, freeze function, digital PTZ, screen arrangement, video transfer options and more.



- 📸 🖥 🖻 🗹 Ø 🖄 🖸 🖉 🖉 🔛 (月 • 🗔 9 0 TV-IP612P 2013/09/19 1 Device: -TV-IP612P Add, configure or delete carner nfigure export o server's archive. anage server watchdog setting en or modify server kup server's archive data onfigure server's events eport cameras' status. Dart or Stop Server Service TREADING? (1970) 10:24:24 AM Application: Started 1919/0013 10:24:24 AM Application: Thing to connect to server localisati as admin... 1919/0013 10:24:24 Advalational methods connect to server localisati, Operation unavailable 1919/0013 10:24:24 AM Applications: Sociedarily connected to server localisati 1919/0013 10:24:24 AM Applications: Sociedarily connected to server (scaling) contained 1919/0013 10:24:24 AM Applications: Sociedarily (scaling) (sca ction to remote local or serve
- Use the wizards for easy navigation and step-by-step setup.

CI/Program Files (x96)\TRENDnet\TRENDnetVIEW Pro\Local TRENDnetVIEW Pro Connection.hd

Chapter 2

TRENDnetVIEW Pro Installation

Begin the installation process by double clicking the TRENDnetVIEW Pro setup file.

- 1. "Welcome to the TRENDnetVIEW Pro Setup Wizard" window appears. Click Next.
- 2. Please read and accept the Software License Agreement. Then click Next.
- 3. Select the installation destinalation and then click **Next**. Changing the location is optional but not recommended.
- 4. The "Select Components" window appears. Select the desired options to install, choose the desired language and then click **Next**.

📴 Setup - TRENDnetVIEW Pro	
Select Components Which components should be installed?	
Select the components you want to install; dear the component stall. Click Next when you are ready to continue.	s you do not want to
Full installation	
TRENDnetVIEW Pro Server Application	215.3 MB 🔺
TRENDnetVIEW Pro Broadcast Server Application	214.9 MB
TRENDnetVIEW Pro Client Application	241.7 MB
Local TRENDnetVIEW Pro Connection	
✓ Languages	0.1 MB
- • • • English	0.1 MB
- O Russian	0.1 MB
- O Finnish	0.1 MB
🔘 Spanish	0.1 MB 👻
Current selection requires at least 258.6 MB of disk space.	
< Back	Next > Cancel

- 5. "Select Start Menu Folder" window appears. Click **Next**. Changing the location is optional but not recommended.
- 6. "Additional Icons" window appears. Click **Next**. These are shortcuts and are recommended, but optional.
- 7."Ready to install" window appears. Click **Next**. TRENDnetVIEW Pro Server and options will now be installed.
- 8. To complete the installation of the TRENDnetVIEW Pro setup wizard, click **Finish**. Leave "Run server setup wizard" option checked.



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TRENDnetVIEW Pro Server Setup Wizard

1. The "TRENDnetVIEW Pro Server Setup Wizard" appears. Click **Next**. When the "Server Properties" window appears, enter your machines unique Identifying name and server title. It is recommended that you check "Compact the configuration database" (checking this option will help optimize your configuration database in the future). Click **Next**

😓 TRENDnetVIEW Pro Server	Setup Wizard
Server Properties Specify TRENDnetVIEW	Pro Server properties
Specify server unique identifi values intact and press Next	ier, title and database settings. To accept default settings, leave
Server <u>I</u> dentifier:	Server <u>Ti</u> tle:
TEST-PC	TRENDnetVIEW Pro at TEST-PC
Configuration <u>D</u> atabase:	net\TRENDnet\/IEW Pm\Dinital \/den Recorder mdh
C on part the configurat	ion database
	< Back Next > Cancel

2. The "Server Administration Settings" window appears. Setup the administrator user name and password in this window. Leave the default user name as "admin" (Recommended), enter a unique password in the "Password" field and reenter the password in the "Password Confirmation" field. You will have the chance to add additional users at a later time. Click **Next**

Note: This user name and password is used for broadcast server login.

STRENDnetVIEW Pro Server Set	tup Wizard		×
Server Administrator Setting Specify TRENDnetVIEW Pro	s 9 Server administrator settings	5	
Specify usemame and password	for administrator access. To	continue, press Next.	
<u>U</u> semame:	admin		
Password:	•••••		
Password Confirmation:	•••••]	
	< <u>B</u> ack	<u>N</u> ext > Ca	ancel

3. The "Server Network Settings and Port settings" window appears. Click **Next**. The default firewall port that TRENDnetVIEW Pro uses is 60554 but you can change that to any port that you would like as long as it is open on your firewall. Please check with your network administrator or internet service provider about your firewall settings

Allow TCP connections from remote applications: To enable TCP to accept remote connections can be disabled or enable at any time from the TRENDnetVIEW Pro server settings.

TCP Port: 60554 is the default port and it can be changed to your preferences.

STRENDnetVIEW Pro Server Setup Wizard	×
Server Network Settings Specify TRENDnetVIEW Pro Server network availability	
Configure server availability for external network connections. To continue, press Next.	
-TCP Connections	
Allow TCP connections from remote applications	
TCP Port: 60554 (leave empty to use default value of 60554)	
Note that you will be able to change the settings later (e.g. on registration of TRENDnet/IEW Pro) starting this wizard from Start Menu or through TRENDnet/IEW Pro Client application	
< <u>B</u> ack Next > Ca	ancel

4. Select Application Mode and then click Next.

Application Mode.

The following **"Startup"** option can be selected:

- **Manual**: That means you will physically have to double click the program to get it started.
- Automatically with any user logon: The software will open up when any user logs into Windows on that machine.
- Automatically with current user logon: The user currently logged into Windows, will be the user that activates TRENDnetVIEW Pro upon Windows login.

IRENDnetVIEV	V Pro Server Setup Wizard
Server Execut Specify TR	tion Mode ENDnetVIEW Pro Server execution mode
Application	n Mode
The serve application	er will be running in application mode, the system tray will contain an icon of the in.
Startup:	Manual
© <u>S</u> ervice M	lode
The server manager.	will be running in service mode. Execution will be controlled by service
🔽 Use sof	tware <u>w</u> atchdog
	< <u>B</u> ack Next > Cancel

5. Click Start Server Application and then click Next.

TRENDnetVIEW Pro Server S	Setup Wizard
Server Execution Control Start and stop an instance	of the TRENDnetVIEW Pro Server
Start Server Application	Start TRENDnetVIEW Pro Server in application mode.
Stop Server Application	Stop TRENDnetVIEW Pro Server running in application mode.
Start Server Service	Start TRENDnetVIEW Pro Server in service mode.
Stop Server Service	Stop TRENDnetVIEW Pro Server running in service mode.
	<back next=""> Cancel</back>

6. Click **Finish** to exit the installation wizard.

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TRENDnetVIEW Pro Terminology

Panel - Panel, window

Toggle- To alternate between two or more electronic, mechanical, or computer-related options, usually by the operation of a single switch or keystroke

Toolbar- The toolbar that you see at the top of your screen gives you various options such as open, save and various screen manipulations, at the click of a button.

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Open Configuration- This button on the toolbar allows you to open previous TRENDnetVIEW Pro configurations. It is most useful if you are exporting configurations from one machine to another.

Save Configuration- This button on the toolbar allows you to save any changes that you have just made to your DVR, it will continue to save to the same file unless you click on File and Save As then you can save to a different file or even to a floppy.



Structure Pane - This button toggles whether you see or don't see the structure pane on the left side of your TRENDnetVIEW Pro window. The structure pane is most useful when you are looking at cameras from multiple locations and multiple TRENDnetVIEW Pro servers. We will discuss the structure pane later on in this chapter.



Toggle Structure Filter Pane – This button toggles *structure filter pane* under regular structure pane. This filter will allow you to quickly locate necessary camera from the list of cameras you currently have, or several set of cameras with similar name.



Events - This button toggles the events window. The events window gives you important notifications such as, when you are connecting to a server successfully. It lets you know if you have input improper user names and passwords and gives you error codes when needed.



PTZ Control - This button toggles the PTZ control pane. If you do not have a pan-tilt-zoom camera connected to your system then this button does no need to be pressed.



Video amplification- This button toggles the video amplification pane. When this button is pressed a pane will come up from which you will be able to adjust the brightness, contrast, saturation, sharpness, and hue for any camera.



Audio- This button toggles Audio pane control. Audio pane enables you to listen to Audio from different cameras.



Full Screen - This button toggles full screen mode. In full screen, none of the panes will be seen and the cameras will be expanded to their maximum size to fill the full screen of your monitor.



Open Archive – This button opens archive viewer window. You will be able to view archived data of your connected DVR.



Emergency Recording – On activation of emergency recording mode for a device, the footage is recorded at full frame rate during specific period of time and then is automatically returned to regular recording settings.



Manage Maps – This button toggles map module window for managing and viewing cameras on Google or previously added maps.



Save Current Frame as – This button allows you to save currently rendered video frame into file. Frame from selected screen will be saved only.



Wizards- The wizard's icon on the toolbar gives you a shortcut to various server, and camera options and configurations. You can also access these features through the right click menus in the software.

Views- These buttons on the toolbar allow you to manipulate your views and camera layouts to your own preference.

|--|--|



Screen Footer- The screen footer button on the toolbar allows you to display various information underneath each camera window. It can display current frame time, image resolution, and average image size per frame and average frame rate per second. The screen footer is the text below each camera



Stream Selection- The stream selection button allows you to pick which camera you would like to view in the selected camera window. This can also be done through the right click menus and by dragging the desired camera from the structure pane to the desired display window, or right click on any camera window and select stream.



Show Motion- The show motion toolbar button toggles whether or not you want the motion outlined on the selected camera screen. Note: Motion detection must be setup before this feature can be activated



Maximize- When pressed the maximize button puts the selected camera into a single view, if pressed again it will return to the previous view. This can also be accomplished by double clicking on the camera of choice.

Structure Pane

The structure pane is the control center. This is where you will setup all of your cameras as well as your server.



Broadcast Server Connections

TRENDnetVIEW Pro Broadcast Server - is a separate product to broadcast video streams to multiple web-browsing platforms (e.g. Internet Explorer, Firefox, and Google Chrome) as well as for iPhone, Android, etc. TRENDnetVIEW Pro Broadcast Server will resample and recompress video stream for web or mobile client depending on connection speed and viewing capabilities.

1. Start Broadcast Server by clicking on the Start or Windows Icon and then click Program Files → TRENDnet -> TRENDnetVIEW Pro -> DVR Broadcast Server. This will start Broadcast Server for Viewing over Web browser and Smartphone devices such as Android and/or iPhone through browser.



2. The Broadcast Server icon will appear in system tray and through it you will be able test/configure Broadcast Server operation. To open the Broadcast Server, Right click on the icon \rightarrow Open Web Application or enter the IP address of the server followed by port 8080.



Right click on the icon and select Open Web Application



Also you can enter Broadcast domain for access over the Internet.

Use the previously set TRENDnetVIEW Pro software user name and password to login to broadcast server.



When logged into the server via the browser on a PC or Mac, you can click on any cameras to the left in structure pane. The IP cameras will be displayed in main screen as separate windows that can be resized and moved anywhere within the window.



Chapter 3

Server Recording Properties

- 1. Right click on your server
- 2. Click Tasks.
- 3. Click Recording Properties.



• Directories

- Priority- Choose which of your drives records first. Check and then highlight (by clicking one time) the drive you wish to customize in this portion
- Quota Chose the amount of space you would like to designate for storage on that particular hard drive. NOTE: NEVER, choose 100% for the C Drive. This may cause your machine to eventually crash due to not available virtual memory for page. The reasonable quota is 85-90% of the drive capacity to avoid the effects of fragmentation issues and also to allow the highly loaded DVR to effectively enforce recording quotas



• Add - Add external storage address for recording such as sharing on a remote computer or NAS drive.



• **Remove**- This button removes currently selected network storage path.

- Duration Quota
 - Storage Duration Chose the numbers of days you would like to store.

Directories	Duration Quota	Statistics	
Use contro Selected q drives.	ls below to set g uota will be enfo	lobal recordin irced on all me	g duration quota up. edia devices and storage
<mark>▼</mark> <u>E</u> na	able global durati	ion quota man	agement
Sto	rage <u>d</u> uration:	10,00000	days 💌
Storag	ge duration so th	R Server will n at it will force	naintain configured maxim erase of footage older tha
stora speci	ge duration so th	R Server will n at it will force me.	naintain configured maxim erase of footage older the

• **Statistics** - Check on used spaced and available space left on the hard drives being used by TRENDnetVIEW Pro.

4. Click **Apply** to save settings.

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Server Communication Properties

- 1. Right click on your server
- 2. Click Tasks.
- 3. Click TCP Communication Properties.

Connections- Here you can see at all times who is connected to your server. The IP address, user name and connection time can all be seen. Click refresh at any time for an updated list.

Communication	Properties
Server Connection	ıs
Status:	Active
Activate	Allow remote users access server over network using TCP protocol
Deactivate	Deny remote access, currently connected users (if any) are disconnected
Options	
TCP Port: 6	(default is 60554)
Save these s	ettings as <u>d</u> efault

Server Watchdog

Your Server Watchdog performs an important operation, protecting your software from improperly working due to system problems. Configuring your watchdog is not necessary, if you chose to enable it during installation. The default settings will work well, however if you are having frequent restarts, adjusting it may become vital.

- 1. Right click on your server
- 2. Click Tasks.

3. Click Manage Watchdog.

4. In order to select the "Disable", "Enable" and "Properties" buttons, left click on "Software Watchdog".

State

OK

Cancel

Watchdog Management - [admin@localhost]

Watchdogs

Name Software Watchdog ? ×

Enable

Disable

Apply

Watchdog Operation

Properties > Operation

Grace Interval Seconds- The grace period given when starting the application.

Reboot Interval Minutes- The amount of time Watchdog will allow between reboots.

Number of Failure to Reboot- The amount of failed attempts to fix whatever problem has been detected, by restarting only the TRENDnetVIEW Pro application. Once this number has been reached, Watchdog will now reboot Windows and the TRENDnetVIEW Pro application.

State

Properties > State

- State- Start or Stop running Watchdog.
- Start Watchdog with Server- Will begin the Watchdog application when server is started.
- Enable Watchdog-Will keep Watchdog running at all times.

Software Watchdog Properties
State Operation Performance Maintenance
Watchdog State
State: Running
Start Stop
Watchdog Options
Start watchdog with server
Enable watchdog
OK Cancel Apply

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Software Watchdog Properties	X					
State Operation Performance Mainte	enance					
Watchdog will not perform restart or reboot actions within grace interval from the start of the application.						
<u>G</u> race interval, seconds:	80					
Watchdog can reboot the system in case failures are too frequent. Should watchdog register at least specified number of failures within last specified interval of time, it will restart Windows. Set interval to zero to disable the feature.						
<u>R</u> eboot interval, minutes:	5					
Number of failures to reboot: 3						
ОК	Cancel Apply					

Performance

Properties > Performance

This tab allows you to configure which environment performance counters and variables will determine necessity of server or system restart. Watchdog will attempt to restart server or system after any specified threshold exceeding; There are also visible current values of the environment variables.

Software Watchdog Properties					
State Operation Perf	omance	Maintenance			
Configure watchdog to monitor system performance, detect contingent situations and attempt to fix the problems.					
Monitor system con	nmitted mer	nory usage ratio	0		
<u>M</u> aximal allowed:	70.0	Currently:	31.5		
Monitor system poo	ol <u>n</u> onpageo	d memory usage	0		
Maximal allowed:		Currently:	73.3		
Monitor server priva	Monitor server grivate memory usage ratio				
Maximal allowed:	45.0	Currently:	0.4		
Monitor server virtual memory usage					
Maximal allowed:	3839.9	Currently:	371.6		
OK Cancel Apply					

Maintenance

Properties > Maintenance

Restart Intervals- Days or Hours.

Enable Periodic Restart- Enabling this feature will restart the Server Application at times specified. It is recommended to restart the Server Application to Refresh system resources. The Watchdog Server-Restart will go virtually unnoticed by the user.

Enable Periodic Restart Hours- Enabling this feature allows the user to define a range in hours during which maintenance restarts are allowed (e.g. from 7:00PM to 11:20PM).

State	Operati	on Per	formance	Maint	enance
Watch any po perform	ndog may ossible pro mance	be conf oblems v	igured to p which could	eriodica d deterio	ally restart server to cle prate server system
1	Enable ;	periodic	restart		
Be	estart inte	rval:	7		days
V	Enable ;	periodic	restart hou	irs	
	Provide	time of t are allow	he day intr ved, e.g. fr	erval, d rom 7:0	uring which maintenan 0 PM to 11:20 PM:
	From:	7:00 PM	A	To:	11:20 PM
	<u>F</u> rom:	7:00 PM	4	<u>T</u> o:	11:20 PM
	<u>F</u> rom:	7:00 PM	4	<u>T</u> o:	11:20 PM

Note: If any changes have been made, click **Apply**.

Server User Management

To start the "Server Security Wizard", right-click on the server within the Structure pane, click **Tasks** and then click **Server Security Wizard**.

TRENDnetVIEW F	Pro - C:\Program Files (x86)\TR	ENDnet\TRENDnetVIEW Pro\Local TRENDnetVIEW Pro Con
File View Ser	ver Video Tools Help	
		🖪 🖸 🔊 🧬 🕥 📑 💻
Structure	× 201	3/09/19 10:08:25D TV-IP612P
Servers	4	
E- admir	Connect	
	Reconnect	
	Disconnect	
	Refresh	
	Tasks I	Server Security Setup Wizard
	Remove	Manage Server Security
	Move Up Shift+Up	Camera Setup Wizard Video Frame Export Setup Wizard
	Move Down Shift+Down	Open Archive
-	Properties	Manage Watchdogs
-	Topencent	Recording Properties
	201	Communication Properties
	201	Automatically discover network video devices
		Backup server's archive data
		Configure server's events

Create users or modify existing users rights

This wizard guides you step by step to add, remove, or modify user permissions.

Server Ser	curity Setup Wizard - [adm	in@localhost]					
User C	Choice hoose a user for security setup						
Select Next to	Select an existing user to alter permissions, or alternatively use a create new user option. Click Next to proceed.						
© C	Treate users via <u>A</u> ctive Di Addify an existing user pe	irectory import					
	User Name	Comment					
	🔒 admin 🕁 demo	Built-in administrator user Built-in demo user					
		< Back <u>N</u> ext > Cancel					

System/User Permissions

As you see TRENDnetVIEW Pro system permissions provides Global Scope permissions for better user management.

System Permissions Configure system access p	emissions		
Please review global scope per permissions. Click Next to proce	issions. Use the checkmarks to grant or revoke or ed.	artain	
Permission	Description	Scope	100
Access Archive Administer Server Administer Server Gonnect Locally Gonect Locally Access Archived De Access Archived De	Privilege to access server archive Privilege to administer server Privilege to connect to server locally Privilege to access archived media data Privilege to administer device Privilege to administer device	System System System 7 Object 7 Object 7 Object	
[[]		,	
Configure individual camera a	access permissions	Cano	el

Device F	Permissions pure system access permiss	ions			
Please rev uncheck to	ew individual device permi o revoke. Click Next to proc	ssions, use checkin seed.	narks to grant	certain per	nission,
Device:	(Al Devices>	Permission:	<al permiss<="" th=""><th>ions></th><th>•</th></al>	ions>	•
Device		Permission		Descriptio	n
1 AT	RENDnet 192.168.10.130	Access Archived	Device D		
TP OT	RENDnet 192.168.10.130	Administer Devic	æ	Privilege t	o administer de
TI	RENDnet 192.168.10.130	Navigate Device			
11 C	RENDnet 192.168.10.130	Receive Device	Data		
•	111				•

Chapter 4

Setting up an IP Camera

There are two ways of setting up an IP camera to work with TRENDnetVIEW Pro:

- 1. Let the software find the cameras automatically
- 2. Manually input all of the camera's IP information

Configure your IP Cameras automatically

- 1. Right click on your server name
- 2. Click Tasks
- 3. Click Automatically discover network video devices.
- 4. The "TRENDnetVIEW Pro Automatic Discovery Wizard " will appear. Click Next.

TRENDnetVIEW Pro Automatic Discovery Wizard	×
Network Scan Addresses Choose network scan mode addresses by specifying network adapter or addres range	s 🔎
Scan network adapter address range Select one or more network adapters from the list below to scan addresses on:	
Atheros AR8151 PCI-E Gigabit Ethernet Controller (NDIS 6.20)	
Specify IP address range Specify IP address range to be scanned:	
Erom: 192.168.1.1 Io: 192.168.1.254	
< <u>Back</u> Next >	Cancel

 Enter port number for each IP camera and then click Next. (Leave blank to search all cameras with all ports) 6. TRENDnetVIEW Pro will now begin scanning your network and specified ports for any IP cameras. Once it is finished it will give you a list of the cameras that it found and give you an option to add them to TRENDnetVIEW Pro.

Review devices four TRENDnetVIEW Pro	nd on the network and check d Server	evices to be configured	on X
The list below shows disc adjust device model and d	overed network devices. Use o other options before the device	ontext menu and contro is configured with the T	ols to skip or RENDnetVIEW
^v ro Server. Name	Model	Address	Chan 4
TRENDnet TV-IP	TRENDnet TV-IP612WN	192.168.1.185	Default :
TRENDnet TV-IP	TRENDnet TV-IP612P	192.168.1.188	Default
TRENDnet TV-IP	TRENDnet TV-IP522P	192.168.1.203	Default
TRENDnet TV-IP	TRENDnet TV-IP751WIC	192.168.1.36	Default
TRENDnet TV-IP	TRENDnet TV-IP751WIC	192.168.1.191	Default
TRENDnet TV-IP	TRENDnet TV-IP851WIC	192.168.1.201	"Cha "
•			•
			Properties
		hade Next >	Cancel

Add a Network Cameras manually

1. Right click on your server name

2. Click Tasks

- 3. Choose "Camera setup Wizard".
- 4. Select "Network Devices (IP Camera, Video Server)".

Camera Setup Wizard - [admin@localhost]		×
Camera choice Select one or more devices to setup	Ć	
Use the list below to select one or more device proceed with setup.	s, which you would like to set up. Press Next	to
Title	Device Name	
Add New Devices		
Network Devices (IP Camera, Video Serv	er) Media Source	=
Review or Modify Existing Devices		
(TRENDnet TV-IP512P - 192.168.1.189	Media Source\021	
(TRENDnet TV-IP572PI - 192.168.1.215	Media Source\023	
4 TV-IP551W	Media Source\029	
UTV-IP612P	Media Source\027	-
Copy to Clipboard		
	< <u>B</u> ack Next > Car	ncel

5. Click Next.

- 6. For "Device title", type in a name for the IP Camera.
- 7. Click Properties.



Note: The tabs under properties are described below Model Tab

Properties > Model

• Select TRENDnet and then select the IP camera model. Then click **Apply**.

Audio Please cl	Events			Traine /	ujusimeni
Please cl		Model	External PTZ	Control	Dewarp
additiona	noose device I property pag	vendorar jes.	nd model and pr	ess Apply	to show
Manufa	icturer		Model		
TREND	Inet		(TV-IP572P	n	
			LTV-IP572V	v	
			4 TV-IP572V	vi	
			4 TV-IP600		
			4 TV-IP600V	v	
			4 TV-IP602V	VN	E
			TV-IP612F)	
			4 TV-IP612V	VN	
			(%) TV-IP651V	v	
			(TV-1P651)	VI b	
			(b) TV-IP672P	и	
			(b, TV-IP672)	v	-

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Access Tab

Properties > Access

• Input the IP address of the IP Camera, Port Number, User Name and Password. Then click **Apply**.

Device Access Network Host Nam			garacen
Device Access Network Host Nam	Acres 7.5		
Network Host Nam			
100 100 10 00	e or IP Address:	Port:	
192.168.10.30	80	0	
User Name:	Password:		
admin			
Mr. Material Science		For an elder	d and ()
Note that it may to numbers (includin NAT) depending	e necessary to con g configuring them on camera model a	ngure addition on router, firew nd access met	al port rall and/or hod

Video Input Tab

Properties > Video Input

• Select "Trendnet" for Operation mode.

10.000				2.0	×
Audio	Events	Model	External PT	Z Control	Dewarp
Access	Video Inpu	Video	Configuration	Frame A	Adjustments
	Source Selec	ction for m	ultichannel dev	ces	
Def	ault				•
-Opera	ation Mode —				
-Opera	ation Mode — ndnet				•
-Opera	ation Mode — Indnet Note that sel settings on the access. Plea manufacture	ected mod ne device, ise refer to r for detail:	de may have to esp. set using device manua s on device cap	match inte administrati or contact abilities	▼ mal ive web t
-Opera	ation Mode — Indnet Note that sel settings on the access. Plea manufacture	ected moo ne device, ise refer to for details	de may have to esp. set using device manual s on device cap	match inte administrati or contact abilities	▼ mal t

Video Configuration Tab

Properties > Video Configuration

- Color Mode- Color or black and white
- Resolution: Quality of the picture. The higher quality you choose the more space it will take. Options include 704 x 450, 352 x 240 and 176 x 112.
- Encoding: Choose the encoding type that is supported by your camera. Options include Default, MJPEG, MPEG-4 and H.264. Depending on the Encoding type selected, you may be able to adjust the following;
 - o I-Frame Interval
 - o Bit Mode
 - Quality
 - o Bit Rate
- Frame Rate: Here you may adjust the frame rate for the ip camera. Options include Default, 1, 2, 3, 5, 10, 15 and 30.

Properties			-	×
Audio Events Access Video Input	Model E Video Co	External PTZ	Control Frame A	Dewarp djustments
Please use controls be of the camera. Leave	elow to specify defaults to us	y video relate e current can	ed configu nera settir	ration ngs.
Camera <u>T</u> itle:				
-Color, Resolution an	ise <u>d</u> etault car d Encoding –	nera title		
<u>C</u> olor:	Default		•	
Resolution:	Default			•
Encoding:	Default		•	
Quality:	Default		•	
MPEG-4				
	ОК	Cance		Apply

Frame Adjustment Tab

Properties > Frame Adjustment

• Brightness, Contrast, etc... Change the appearance of your video quality.

Properties	-		-	-	×		
Access	Video	Input	Vi	ideo Confi	guration		
Frame Adjustments	Audio	Events	Model	External	PTZ Control		
Auto Adjustr	ment						
<u>B</u> rightness:	1	0		1	0		
Contrast:	1	0		1	0		
<u>S</u> harpness:	I	0		1	0		
<u>H</u> ue:	1	0		1	0		
Saturation:	1	0		1	0		
					Reset		
Note that ability to change video settings may require that you provide a password on Access tab for privileged access to the camera							
Defer changes	until apply	/					
		ж	Cano	cel	Apply		

Audio Tab

Properties > Audio

• Audio Input. Audio input can be the audio in of the pc main-board or additional USB audios.

operties				×				
Access	Video	Input	Vi	ideo Configuration				
Frame Adjustments	; Audio	Events	Model	External PTZ Control				
Use controls below to select and configure an audio source device to be used or attached to video hardware.								
© <u>N</u> o Audio	Source							
Internal	Audio Sou	Irce						
Use built-i video cap	Use built-in audio capture capabilities available along with video capture							
Inp <u>u</u> t				Ŧ				
External	Audio So	urce Atta	ached					
Attach an audio part	external au for the hos	idio input (t video ca	device to pture de	act as an integral vice				
Inpu <u>t</u> :	Microphon	e (High De	efinition /	Aud 👻				
	Properties	s						
	0	K	Cano	cel <u>A</u> pply				

- Options for Internal Audio Source from an IP camera can be found under the camera properties. From the Audio Tab the internal Audio source can be selected and activated.
- If the camera selected is not an audio compatible camera then the Internal Audio Source" option will not be activated. In the case that the camera does not support internal audio, you can select external audio and use a usb microphone (for one way audio) or your computer's built in microphone.



 Audio to the camera can be sent via Client application Audio Pane by selecting a camera from the list and pressing the microphone icon. When the icon is pressed you can speak into microphone connected to Client PC and audio should be sent to the speaker connected to the remote camera.

STRENDnetVIEW Pro - C:\Program Fil\Local TRENDnetVIEW Pro Connection.lxd	
<u>File View Server Video Tools Help</u>	TRENDNET
$\stackrel{\scriptstyle{\bullet}}{=} = E E E O E O E O A O \stackrel{\scriptstyle{\bullet}}{=} \circ \circ \circ E = = \cdot$	■ * ≥ • *
Structure × 2013/09/19 10:32:300 TV-IP612P	Audio Player ×
Console Root Servers Under TreinDotet TV-IP512P - 19 TRENDnet TV-IP551W Under TV-IP551W Under TV-IP551W	Device:

Events

Properties > Events

For more information regarding Events, see Digital Input Configuration and Events sections on page

External PTZ Control Tab
Properties > External PTZ Control

Click Properties.

Access	Video Inpu	1	ideo Configuration
Frame Adjustments	s Audio Eve	nts Model	External PTZ Contro
Choose device P and external usin configure selecte	an-Tilt-Zoom (P1 g the options be d external PTZ o	Z) control typ ow. Use Prop control.	e between built-in erties button to
) <u>B</u> uilt-in P1	Z control, if a	available	
Crtamal E	05.000/05.40	2/DC 495	PTZ control
	13-232/113-42	2/113-403	FIZ CONTO
Properties	Show P	Z control pro	perties including
		ation tracker	ochodulo
	configur	ation, tracker	, schedule.
	configur	ation, tracker	, schedule.
	configur	ation, tracker	schedule.
	configur	ation, tracker	schedule.
	configur.	ation, tracker	schedule.
	configur	ation, tracker	schedule.
	configur	ation, tracker	schedule.
	configur	ation, tracker	schedule.

• **Pan-Tilt-Zoom Protocol**: If you do have an external pan-tilt-zoom device connected to your IP camera, you must choose the correct communication protocol. The protocol has to match the protocol assign on your PTZ camera.

• Communication Settings.

- Serial Port The communication port has to match the communication port that the RS232/485 controller is connected.
- **Port Speed (Baud Rate)** Baud rate has to match the baud rate of your PTZ camera.
- Device Identifier Device Identifier, is a unique ID that has to be set on PTZ cameras. Having multiple PTZ cameras requires a unique id to be set on every individual PTZ camera. Failing to assign a unique id to every single PTZ camera will result for all cameras to move at the same time.

General	Settings	Scheduler	
Please commun	configure e niation setti	xternal Pan-T ings using ch	Filt-Zoom device type and oices below.
-Pan-T	ilt-Zoom Pr	rotocol —	
Prot	ocol:		Pelco D
Comm	unication	Settings —	
<u>S</u> eri	al Port:		COM1 -
Port	Speed (Ba	aud Rate):	2,400 👻
Dev	ice <u>I</u> dentifi	er:	1

- 8. Click **Apply** to save the settings.
- 9. Click **OK** to exit the properties window.
- 10. Back in the setup wizard, click **Next**.
- 11. The "Motion Analysis" window appears.

• Use Motion for the steam being set up- This box should be checked if you are interested in using Motion Detection. We recommend you use motion detection for it will save you an abundance of well-needed storage space. Choose Properties

Motion analysis	
Set up motion info	imation analysis for video stream
Please configure the m Click Next to proceed t	otion detector for the video stream (f required) using the options below. hen,
✓ Use motion detection	tor for the stream being set up
Properties	Set up motion detector specific properties. Note that changes of the options have effect immediately in case you are modifying settings for the video device which is already running.
	< Back Next > Cancel

12. Click **Properties**. **Sensitivity Tab** *Properties > Sensitivity*

Properties		-				×
Sensitivity	Exclusion	Format Sou	rce			
						_
Min	i Ť		1	'		Max
2011/08	/15 06:44:41	D TV-IP612P	1		5	
			_			

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The sensitivity should be adjusted to a point where motion is only seen by people and not by blinking lights, reflections, or shadows, otherwise you will get "false motion" and TRENDnetVIEW Pro will be recording based on motion that does not exist.

Exclusion Tab

Properties > Exclusion

P	roperties						×
ſ	Sensitivity	Exclusion	Format	Source	е		
	Click on th analysis:	ne frame to e	xclude ce	ells from	motion	Rese	t
		(ОК		Cancel		ply

If you are still getting motion from lights, trees or things moving from an air-conditioner or an open door then you can click on exclusion and block the object out from the motion detection grid. You simply click on the grid boxes around the object that you would like to exclude, to remove them from being seen by the motion detection engine in TRENDnetVIEW Pro.

Format Tab

Properties > Format

This controls the internal motion detection analysis properties.

Sensitivity	Exclusion	Format	Source	•			
Software in block moti defines nu number of	motion analy ion is smoot imber of unit blocks to a	rsis is per hed and ay block verage v	formed of mapped t s per fran values.	n a per o reque ne, smo	block ested othin	basis. U cells. Re g defines	nitary solutior
Ana	alysis <u>r</u> esolut	ion:	1024 (32)	c 32) bl	ocks	_ •	
Horizo	intal smooth	ing: 2	2	Vertic	cal:	2	
motion sta	te maintaine ical cells:	ed. 12	Horizo	ontal:	16		
VEIL							
Motion an values spo	alysis maxim eed up proc	al frame essing, h	rate cons igher valu	trains (ues inci	PUI	accuracy	er /.
Motion an values spo Mao	alysis maxim eed up proc iimal <u>f</u> rame r	al frame essing, h ate: 5.0	rate cons ligher valu	trains (ues inci	CPUI	accuracy	er /.

- Analysis resolution- controls precision of the detection process, the more resolution blocks is selected, the better precision is, and however, the greater CPU consumption is needed.
- **Smoothing** feature averages preliminary detection result so that neighboring area is included into motion area as well. Smoothing, however, slightly decreases motion detection sensitivity.
- Horizontal and vertical cell number- Defines the dimensions of the target grid, which is used as output of the motion detection algorithm. The defined cells are shown. Click ok when finished

Source Tab

Properties > Source

Properties
Sensitivity Exclusion Format Source
Select source of motion detection information and software motion detection analysis mode using the choices below.
Default (Camera Detected Motion priority)
Use default mode, most appropriate to achieve best performance
© Camera Detected Motion priority
Use camera's motion information or, if absent, detect motion using software analysis
○ Camera Detected Motion only
Use camera's motion information if available
© <u>S</u> oftware Motion Detection priority
Detect motion using software analysis regardless of availability of camera detected motion information
OK Cancel Apply

- **Default (Camera Detected Motion Priority)** automatic mode, software decides what is best.
- **Camera Detected Motion priority** with this option you enable hardware/on-camera detection to software.
- **Camera Detected Motion only** instructs to only use hardware detection, wherever available, and never detect via software detection.
- **Software Motion Detection priority-** instructs to use software motion detection only.
- 12. Click Apply to save the settings.
- 13. Click **OK** to exit the properties window.
- 14. Back in the setup wizard, click **Next**.
- 15. The "Data Recording" window appears.
- 16. Click Advanced Properties.

[admin@localho:	st]			x
rding feature propert	ies		C	
ig properties and sel ording Properties but	ect data streams yo ton to review archiv	ou would like to hav ve disk drives and s	e recorded to pace quotas.	
cording				_
	Comment			
	Advanced pr	mperties		

Global Recording Properties...

Next >

Cancel

Camera Setup Wizard

Data recording Set up data recording Please set up recordin disk. Use Global Rec Click Next to proceed Use schedule re Stream Type Video Video

Here you can specify whether or not you would like motion information and video recording to be written to the hard drive. It is recommended that you write both to the hard drive, because it will make it much easier to review your recordings with motion information. Without motion being recorded to the hard drive you will not be able to search by general motion or defined motion regions (Smart Search, see Page 36).

< Back

Global Recording Properties: For Global Recording Properties, please refer to the <u>Server Recording Properties section</u> at the beginning of Chapter 3.

Advanced properties - Allows you to setup time-lapse recordings, and Enable Motion control recording. Time lapse creates a small delay between every frame that is written to the hard drive. This allows the space available on on your hard drive to be used more efficiently.

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Time Lapse Tab

Advanced Properties > Time Lapse

Properties
Time Lapse Motion and Events Storage Quota
Time lapse recording feature provides an opportunity to record frames with unconditionally constrained recording frame rate. The specified time lapse interval guarantees that at most one data sample is recorded within defined period of time.
Normally, this approach allows to use storage space more efficiently.
Enable time lapse recording
Time lapse frame rate, fps: 5.000
OK Cancel Apply

• **Time Lapse recording**: The number of frames to be record camera by camera. It gives you the opportunity to use hard drive space more efficiently. Less important cameras can be set to record less frames than others. This does not apply for MPEG-4 and H.264 compressions.

Motion and Events Tab

Advanced Properties > Motion and Events

Enable Motion control recording to save disk space and make playback more efficient.

Time Lapse Motion and Events Storage Quota	
Motion and alert controlled recording feature provide to differentiate recording mode of operation in and in alerted state. To save storage space, it is possible to footage for alert conditions.	es an opportunity absence of precord more
Enable motion controlled recording	
Enable alert event controlled recording	
Constrain recording frame rate	
Recording frame rate on motion detection or in alerted state, fps:	0.000
Time interval to keep recording <u>b</u> efore alert was signaled, seconds:	1.00
Time interval to keep recording <u>a</u> fter alert was signaled, seconds:	3.00
Record frames in absence of motion or alert	event
Recording frame rate in absence of alert, fps:	0.000
OK Cancel	Apply

- Enable motion controlled recording Enable recording when motion is not detected at selected frame rate. When Motion occurs recording frame rate goes to maximum automatically.
- Enable alert event controlled recording Enable Alert recording Alert is is detected at selected frame rate. When Alert occurs recording frame rate goes to maximum automatically.
- **Constrain recording frame rate** Constrain the number of frames to be record camera by camera. It gives you the opportunity to use HD space more efficiently. Less important cameras can be set to record less frames than others. Cannot apply for Mpeg4 and H.264 compressions.
- Time interval to keep recording before alert was signaled (in seconds): Prerecording allows you to setup the number of seconds you want to have recorded before the last motion.
- **Time interval to keep recording after alert was signaled (in seconds):** Post-recording allows you to setup the number of seconds you want to have recorded after the last motion.

Storage Quota Tab

Advanced Properties > Storage Quota

Enable Individual limit on amount of stored data - Enable Individual limit amount for data for the current camera. Some cameras are more important than others and some are less important. The user can define the limit for every individual camera. **Enable Individual limit on duration of stored data** - Enable Individual duration limit for the current camera. Can be set to minutes, hours, days or months

F	Properties
	Time Lapse Motion and Events Storage Quota
	Additionally to global storage management options, individual storage quotas may be defined to prioritize storage capacity usage between recorded streams. Use controls below to provide individual quota for the selected stream.
	☑ Enable individual limit on amount of stored data
	Keep stored in SecurView Pro Server archive at most amount of data specified below.
	Amount quota: 20 MB -
	✓ Enable individual limit on duration of stored data
	Keep stored in archive footage, which is not older than specified using controls below.
	Duration quota: 30 Minutes (Debug) 🔻
	OK Cancel Apply

17. Click **Apply** to save the settings.

18. Click **OK**.

19. Checking "Use Schedule Recording" enables schedule recording. See "Schedule Recording Configuration" section for more information. Click **Next**.

20. The "Action Summary" window appears. This page of the camera setup wizard gives you a summary of all of the changes that you have made throughout the wizard. You should set up every camera that you have connected to your DVR one by one and

disable the inputs that have nothing connected to them. The camera setup wizard only has to be run the first time that you install TRENDnetVIEW Pro to setup all of your inputs or afterwards to make changes to camera names and/or motion detection, recording, etc, properties.

21. Click Finish.

Configure multiple cameras

1. To select multiple IP cameras, click on mouse button while holding down the Shift key and clicking in the window and drag the pointer diagonally, providing drawing frame.

Camera choice Select one or more devices to setup	
lse the list below to select one or more devices, which you roceed with setup.	u would like to set up. Press Next to
Title	Device Name
Add New Devices	
Network Devices (IP Camera, Video Server)	Media Source
Review or Modify Existing Devices	
TRENDnet 192.168.10.130 (disabled)	Media Source\003
TRENDnet 192.168.10.131	Media Source\004
iopy to Clipboard	

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2. When you change the camera settings, you must remember that the camera may already have some of the settings.

Camera Setup Wizard	×
Camera device pr Set up camera d	operties levice properties
Please configure the Device title:	device and set up video device options. Click Next to proceed then.
192.168.1.209, 0	Car parking, Office, Port
Properties	Please note that device settings for each camera are configured individually
<u>D</u> elete	The device is dynamic and can be deleted.
	Device is disabled on server, no data grabbing happens Device output is hidden, not listed as available
	< <u>Back</u> Cancel

Scheduled Recording Configuration

Scheduled recording requires device configuration administration permissions through the "Camera Setup Wizard". As soon as scheduled recording is selected, cameras will be recorded in accordance with the schedule.

Set up	dat	ta i) red	00	rdi	ng	ı fe	a	tur	re	р	roj	pe	ert	ie	s																						ſ	
Please set u disk. Use G Click Next t	ip n loba pr	eci al F roc	ore Re	din co ed	ng ord	pn	g	er Pro	tie op	er	ar tie	nd :s	s	utt	ec	n t	da to	ita re	i st vi	ev	ar v a	ns	: yı :hi	ve	d d	/O	ulo c (il li int	ke ve	e to s i	o H ar	na nd	s	e r		co e c	rd qu	ed ota	to s.
000	:00	uu	C			u		# 0	5:1	00)							1	12	:0	0							1	8:	0	D							2	4:
Sun			Ι			Ι	Γ		1	Ι	Ι	Γ	Γ	Γ				Ι	Ι			Ι	Ι	Γ			Ι	Ι			Ι	Ι	Ι	Γ		Π			
Mon			L			I					I												I					L					I						
Tue		Щ			Ц	1	L	Ц	4	1	1	L	L	L				4				4	1	L			1		Ц		1	1	1	L		Ц		\perp	Ц
Wed		Н	∔	Н	Н	+	╞	Н	+	+	∔	┞	┞	⊢	Ц			+	∔	H	\square	+	+	⊢	Ц	4	+	∔	Ц		4	+	∔	┞	┡	Н	4	+	Ц
Thu		H	╀	H	Н	∔	╞	Н	+	+	∔	╞	╞	╞	H		-	+	╀	H	+	+	∔	╞	H	+	∔	╀	Н	-	+	╀	╀	⊢	╞	Н	+	+	Н
Sat		H	╀	Н	Н	+	╀	Н	+	+	+	╀	╀	╀	Н	Н	H	+	╀	H	H	╉	+	╀	Н	+	+	╀	Н	H	+	+	+	╀	┝	Н	+	+	Н
300		-	1		Ц	-	÷		-		1	1	1	<u> </u>				1	-			1	+	1		1	+	1				-	1	1	-	ш	_	-	ш
	Lon	ΠQ	un	e :	SC	1e	αι	lle	5	,0	рy		-	ISI	e																								
																								G	ilo	bi	ali	Re	c	ono	dir	ng	P	ro	p	ert	ie	s	
																								1	1	1	1	1	1	1			1	1	1	1	1	_	_

Click on **Configure schedule** to bring up the "Manage Schedule" window.



You can create, edit and delete profiles of the schedule by clicking on the top toolbar. By Selecting a profile from the list and "drawing" on the schedule you can specify the time for the selected profile.

Profile Configuration

Profiles > Create New Profile

• **General tab** -Specify settings that affect only the appearance of the profile in the settings of the schedule.



- Video tab Allows managing of the video recording settings.
 - Enable video recording enable/disable video recording.
 - Enable motion / alert controlled recording enable/disable the recording of the movement, or events.
 - Record frames in absence of motion or alert event this option works differently.
 - **Record of Motion / off events:** includes compression record by limiting the frame rate.
 - **Recording by motion/events enabled** enable recording when there is no movement/events. You can also set the number of frames per second.
 - **Constrain recording** enable/disable the compression record by limiting the frame rate.
 - **Time interval to keep recording before / after alert was signaled** the recording time before and after the motion or event.

Properties	×
General Video Video Motion Audio Events	
Use controls below to configure video recording for the	e profile
Enable video recording	
Enable motion controlled recording	
Enable alert event controlled recording	
Constrain recording frame rate	
Recording frame <u>r</u> ate on motion detection or in alerted state, fps:	0.000
Time interval to keep recording before alert was signaled, seconds:	0.00
Time interval to keep recording after alert was signaled, seconds:	1.00
Record frames in absence of motion or alert ev	ent
Recording frame rate in absence of alert (time lapse recording feature), fps:	0.000
OK Cancel	Apply

Video Motion Tab – Enable video motion recording.

General	Video	Video Motion	Audio	Events	
Jeneral	Video	video wotion	Audio	Events	

• Audio Tab - Enable audio recording – enable/disable audio recording.



• Events Tab - Enable events recording – enable/disable e recording.



Digital Input Configurations and Events

To activate the dry contacts (digital or dry inputs) on the camera you need run Camera Setup Wizard, open the camera settings and select the tab Events. Next, you need to include the generation of events (Enable event generation), also select the State in which the alert generated by the event - this can be done by clicking the mouse on the link in the column State. After changing the settings you have to continue the Camera Setup Wizard to finish.

Available State:.

- Active by changing the status of the contact, it is recorded in the archive;
- Alert if Change Same as Active, but by changing the state of contact is generated alert;
- Alert if Open the same as Active, but when closing the contact generated alert;
- Alert if Close same as Active, but the closure of the contact is generated alert.

Access	Video Input	Video	Configur	ration	Frame A	djustment
Audio	Events	Model	Extern	al PTZ	Control	Dewarp
Use contr	rols below to (enable ev	ent gene	ration b	ased on o	amera
activity ar	nd state					
V Ena	ble event ger	neration				
Event				State		
Dry	Innuts			ototo		
Input	1			Alert if	Change	

Recording

For the recording of events, select the corresponding check-box on the page, Data recording, in the Camera Setup Wizard.

Camera Setup Wizard - [admin@localhost]	
Data recording Set up data recording feature properties	
Please set up recording properties and select d disk. Use Global Recording Properties button to Click Next to proceed.	ata streams you would like to have recorded to review archive disk drives and space quotas.
Stream Type	Comment
✓ Video✓ Audio	Advanced properties
•	(III)
	Global Recording Properties
	<back next=""> Cancel</back>

You can also set up to activate record video after an alarm event. To do this, click **Advanced Properties**, select the "Motion and Events tab", and select "Enable alert event controlled recording."

Properties	×					
Time Lapse Motion and Events Storage Quota						
Motion and alert controlled recording feature provides an opportunity to differentiate recording mode of operation in and in absence of alerted state. To save storage space, it is possible to record more footage for alert conditions.						
Enable motion controlled recording						
Enable alert event controlled recording						
Constrain recording frame rate						
Recording frame rate on motion detection or in alerted state, fps:	0.000					
Time interval to keep recording <u>b</u> efore alert was signaled, seconds:	1.00					
Time interval to keep recording <u>a</u> fter alert was signaled, seconds:	3.00					
Record frames in absence of motion or alert event						
Recording frame rate in absence of alert, fps:	0.000					
OK Cancel	Apply					

Archive

- 1. Click **Archive** in the structure pane on the left.
- 2. Click Video.
- 3. Double click the desired camera.

At the Time Line bar, events are displayed in the lower part, and are marked with yellow or red (alarm events) Labeled.



Search for Events

To search for events, choose **Navigation** -> **Events** in the archive window..

<u>N</u> avigation	
Seek to Beginning Ct	trl+Left Arrow
Seek to <u>E</u> nd Ctrl	+Right Arrow
Kep <u>B</u> ackward Shi	ft+Left Arrow
Norward Shift Step Forward	+Right Arrow
(2) Go t <u>o</u> Time	
K Seek 5x Backward	Ctrl+Shift+B
Seek Backward	Ctrl+B
Seek Forward	Ctrl+N
Seek 5x Forward	Ctrl+Shift+N
▶ <u>P</u> lay	Enter
jj P <u>a</u> use	Space
😂 <u>R</u> efresh	F5
🐼 Seek to Previous Mot	ion Ctrl+P
🔯 Seek to Next Motion	Ctrl+M
Define Region of Mot	ion Interest
E <u>v</u> ents	

Specify search criteria and click **Search**. Double click on the event of interest to establish the position of the archive at the time of the event

Event search criterias	1		Time	Name	State	Net	
Start Time:			7/28/2010 11:49:46 AM	Input 1	Closed		
7/28/2010 -	11.49.21 AM	-	7/28/2010 11:49:46 AM	Input 1	Opened	Alert	
			7/28/2010 11:49:47 AM	Input 1	Closed		
Stop Time:			7/28/2010 11:49:47 AM	Input 1	Opened	Nert	
7/28/2010	11-51-13 AM	CA1	7/28/2010 11:49:47 AM	Input 1	Closed		
meeterin (Dis)	11.01.10104		7/28/2010 11:49:47 AM	Input 1	Opened	Alert	
Conch only sinte			7/28/2010 11:49:51 AM	Input 1	Closed		
- Search pink alera			7/28/2010 11:49:51 AM	Input 1	Opened	Alert	
	Can	+	7/28/2010 11:49:57 AM	Input 1	Closed		
	Joans	-	7/28/2010 11:49:57 AM	input 1	Opened	Alert	
	Contin	ue	7/28/2010 11:50:03 AM	Input 1	Closed		
			7/28/2010 11:50:03 AM	input 1	Opened	Alert	
			7/28/2010 11:50:10 AM	Input 1	Closed		
			7/28/2010 11:50:10 AM	Input 1	Opened	Alert	
			7/28/2010 11:50:17 AM	Input 1	Closed		
			7/28/2010 11:50:18 AM	Input 1	Opened	Alert	
			7/28/2010 11:50:25 AM	Input 1	Closed		
			7/28/2010 11:50:25 AM	Input 1	Opened	Alert	

Live view pop up by motion and events

1. Cameras will be placed on a client screen as soon as Motion/Event triggered on the camera

2. Each camera has the option in a footer "lock" and "unlock".

When a camera is unlocked it will be changed on the screen if you have enabled Pop up features. If a camera is locked then it will always stay on the screen.



3. On an event, camera placed on the screen by pop up will be marked in red blinking frame.



TRENDnetView Pro

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Chapter 5

Digital PAN-TILT-ZOOM on live view

1. Right-Click on any camera to activate the Digital Pan-Tilt and Zoom function.

Video Stream Video Transfer	- 10 and 61
Digital Pan-Tilt-Zoom	• Enable
Show Detected Motion Freeze	Default Tool
Copy Current Frame to Clipboard Save Current Frame As Open Archive	Zoom In Tool Zoom Out Tool Zoom Out to Full Frame
Screen Arrangement Maintain Aspect Ratio	
Device (IP Camera, Video Server) Propert	ties

2. Then by activating the PTZ control pane live streaming video can be digitally enhance.



Digital PAN-Tilt-Zoom Tools

- Default Tool It will click and drag as if no digital PTZ was enabled. Digital PTZ control still be accessible via PTZ control pane
- Drag Tool when selected mouse can drag digitally zoomed image around screen changing your viewpoint. Additionally mouse wheel will works as zoom in/zoom out.
- Zoom In(Out) Tool digital zoom out (in) on mouse left button click.
- Zoom Out to Full Frame zoom level automatically reverts to 0, image will fit on screen completely.

Digital PAN-Tilt-Zoom on Playback

To Activate the Digital Pan-Tilt and zoom function on already recorded video just activating the PTZ control pane from the archive window. It can be controlled only via PTZ control pane.

PTZ Control Panel for optical zoom

Click on this icon on the main toollbar to get to the PTZ control panel.





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Save Presets and Tours for PTZ Cameras

Presets and Tours can be configured from the PTZ control window.



Manage PTZ tours camera by camera by selecting the presets of your choice and time between them.



PTZ control – Point to click PTZ

Point to click works on PTZ cameras that support point to click.

To enable point to click, right-click the live video stream and click **Point to Pan-Tilt-Zoom**.



PTZ control – Shortcut Keys

PTZ cameras can be controlled with the +- and arrow keys form pc keyboard.

Video Adjustments

Video adjustment panel, adjust the video settings for the desired IP camera.

Video Adjustn	nent	×		
Device: TV_IP612P				
Adjustment <u>M</u> ode:				
Capture Setti	ngs	•		
 Brightness:		0		
Contrast:		0		
Saturation:		0		
Sharpness:	-	0		
Hue:	-	0		
Reset Adjustn	nents			

Audio Adjustments

From the Audio Panel, enable live audio from the IP camera of your choice



Video Frame Export

Video Frame Export Setup Wizard allows you to configure continuous saving of video frames on network, fixed storage or FTP. Frame export can be configured for multiple devices. Also you can use fps limit (time lapse) and motion controlled export. Exported frames will be saved in JPEG format using file name format you specify when configure export until disabled.

1. Right click on the server in structure pane or click **Server->Selected Server** in the menu bar.

2. Choose Tasks

3. Click on Video Frame Export Setup Wizard

4. The "Video Frame Export Setup Wizard" window appears. Click Next.

5. The "Video Streams" window appears. Select one or more devices from the list for frame export configuration. Then click **Next**.

6. The "Export properties" window appears. You can enable or disable video frame export in this screen.

Video Frame Export Setup Wizard						
Export Properties Set up export properties for sele	ected video streams					
Title	Export State					
4 TV-IP612P	C TV-IP612P Not Configured					
Enable export of video f Properties Configure all video s	Enable export of video frames Properties Configure export properties. Note that the settings will be applied to all video streams listed above.					
Disable export of video All export that might have be	Disable export of video frames All export that might have been set up will be disabled.					
	< Back Next > Cancel					

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If you want to enable export, press properties button to configure it. Review the settings:

- **Profile**: Select already created profile or create at least one to start using video frame export. There are two types of profiles: file export profile and FTP export profile. Use manage button to create edit or delete those profiles
- File Name Template: Each frame will be saved into file, this template string will be used for formatting filename. Please make sure that it will be unique by adding it's time in milliseconds (ms) or random unique string (\$(Ms) or \$(Unique) format tags

7. Click Manage.

P	ropertie	s						x
	File	Format	Time Lapse	Motion	Control			
	Export frames configu	profile de are expoi ure a new	fines export m ted to. Choos profile using I	ethod ar e profile Manage	nd location from the li button.	n where th ist below,	ne vide or	•
	Pro	file:						
							•	
						<u>M</u> anag	e	
	Select exporte avoid o	file name ed. Use pl overwrites	mask to comp aceholders, e	ose file g. \$(Uni	names for que), to w	the files l rite seque	being Inces a	nd
	<u>F</u> ile	e Name Te	emplate:					
	\$(Tit	le)-\$(Yr)\$	(Mon)\$(Day)-\$	(Hr)\$(Mi	in)\$(Sec).j	pg	•	
	\$(Yr), \$(Mon), \$(Day) - Current date parts \$(Hr), \$(Min), \$(Sec), \$(Ms) - Current time parts \$(Unique) - A random unique string \$(Title) - Source video title							
			Oł		Cano	el	Арр	ły

8. The "Profiles" window appears. Review the settings:

- **Profiles**: Edit or delete already created profiles in this list by pressing corresponding buttons.
 - **Create**: Use Create button to choose where do you want to export video frames (File Export Profile or FTP Server Export Profile)

Contigure profi econfiguration elected for	iles used to export video frames. Note that n of profile affects all video streams the profile is
uncoted for.	
Profile Title	
	Create
	Greate Delete Properties File Export Profile File Export Profile File Export Profile
	Create Delete Properties File Export Profile FTP Server Export Profile

o FTP Server Export Profile

Fill the fields below with FTP access data to allow TRENDnetVIEW Pro to connect and save frames there. Then click **Apply**.

Upload to FTP server, location ft	p://localhost/myvideo Pr
Location	
-FTP Location	
Server host name:	Port:
ftp://trendnet	21
User name:	User password:
user	•••••
Location (directory path) on s /myvideo	server:
-Options	
Passive mode operations	
ОК	Cancel Apply

o File Export Profile

Directory: Specify frame export directory. If you are connected remotely please note that this is server side directory. You can specify network storage or share path. Then click **Apply**.

Write to file, directory C:\TRENDnet\TRENDnetVIEW Pro\						
Directory						
Specify a directory to write video frame files to.						
Please note that a server side directory is required, please take care if you are connected remotely.						
Directory:						
C:\TRENDnet\TRENDnetVIEW Pro\Exported Video Frames						
Browse						
OK Cancel Apply						

Exclusivity Mode (Windows lock out feature)

Tools > Options > Exclusivity

Exclusivity Mode feature ensures that the operator cannot get access to Windows operating system. The operator can have access to TRENDnetVIEW Pro software only. This is to ensure uninterrupted server operation and stability eliminating the human error.

Exclusivity is a password protected function.

- 1. Enter desired Password
- 2. Under "Mode", check "Enable exclusive mode".
- 3. Click Apply.
- 4. Uncheck "Enable exclusive mode" to disable Exclusivity mode.

Options	ptions							
Emerge	Emergency Recording Event Indication VCA Meta Data							
Screen Screen Mapping Miscellaneous Exclusivity Sounds								
Exclusiv	Exclusive mode forces the application to stay in foreground.							
-Pacew	ord	be locked with pa	issword.					
The sp exclusi	The specified password will be required to disable application exclusive mode and/or remove application lock.							
Passw	Password:							
	Request	confirmation before	e lock					
-Mode								
Exclus	ive Mode:	Disabled		-				
-Option	\$			_				
Applica	ation Startup:	Manual Start		•				
Startup	Startup Password: Regular Startup 🗸							
<u>S</u> tartu	Startup Lock: Start Unlocked							
Lock (Lock Controls & Layout: Default (Lock Controls)							
	OK Cancel Apply							

Lock Application

Tools > Lock Application

TRENDnetVIEW Pro Client can be locked to ensure that no one could damage server settings while administrator is away. Exclusivity mode password will be used to unlock application. You can combine Exclusivity Mode and Lock Application features in order to exclusively control TRENDnetVIEW Pro Client application and restrict access to other applications.

Ele	View	Server	Video	Tools	Help	
2	EU.	1		Lo	ck Application	
	- 10	- 14	1.	Ц6	lities	,
	. 4) L	1.4	00	tions	

Enable Video Transfer Properties

Video Transfer feature is made for network traffic reduction between DVR Server and DVR Client (if remotely connected) and/or CPU load decreasing on the Client side. Video Transfer reduces amounts of data transferred from server to client by skipping some frames, transferring only motion detected frames, re-compressing or down sampling them without reducing recorded data quantity and quality. This feature is useful in slow remote connection or highly loaded network when viewing cameras remotely. Also it will be effective to decrease image resolution or transfer fps on the low-end systems, where DVR Client is used for viewing large amount of cameras. This approach reduces resolution and amount of frames, waiting to be rendered on the screens.



Review the settings:

- 1. Time Lapse & Bandwidth Control:
 - Enable time lapse broadcast: Enable time lapse broadcast on your remote connection only if needed.
 - Enable bandwidth controlled broadcast: Adjust data controlled broadcast if needed.
- 2. Motion Controlled Broad Cast
 - Enable motion controlled video transfer: Enable this feature remotely if want to see video on motion only. This is very helpful because frame rate is distributed to the cameras that have motion only.
- 3. Recompression
 - Enable Video transfer recompression: This feature can be very useful for remote connections only. The TRENDnetVIEW Pro server can record up 3 megapixel images, but remotely using this feature a user can receive more frame rate with less image quality without changing the server properties

/ideo Transfer Propertie	s	-			×
Streams					
Title	Server	Time Lapse E	Time Lapse R	Bandwidth Co	Ban
TV-IP612P	[admin@localhost]	Enabled	1.000	Enabled	1.0
•					4
Time Lapse & Bandwi	dth Control				
🔽 Enable <u>t</u> ime lapse	broadcast 0	Enable <u>b</u> an	dwidth controlled br	oadcast	0
Time lapse frame	rate, fps: 1.000	Base period	d of time, seconds:	1.0	
		<u>A</u> mount of o	data, kilobytes:	16.000	
Motion Controlled Broa	adcast	Recompressi	on		
Enable motion con	trolled video transfer	Enable vie	deo transfer r <u>e</u> comp	ression	0
<u>Still frames</u> fra	s when <u>no motion detected</u> me rate, fps:	Properti	ies Currently: n	ot specified	
			ок с	Cancel A	oply

Video Transfer Defaults

You can specify default values of the video transfer for newly added devices. All options are identical to the Video Transfer properties. Those defaults can be accessed by clicking on server and choosing menu item Properties.





<u>Layouts</u>

Create custom Layouts by grouping cameras from different DVR Servers/Locations into groups for more efficient monitoring, and better management. For example group together all out-door cameras from different location or all POS cameras from all registers.

Individual Layouts can be activated by double-click on them with the mouse. Users now can perform playback and other function by Right-click on the camera of their interest.

Note: Empty screens by default are filled with available cameras. You can disable this feature by selecting Tools->Options and choosing Screen mapping tab on appeared dialog, Set Automatic mapping mode to "disabled".



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Layout Sequence

When Layouts are created, they can be used for sequencing. To create sequences:1. Right click on Layouts and click Manage Layout Sequences.



2. Click New.

quence List	
Name	New
Layout Sequence 1	Delete
	Bename
	Properties.
	Activate
	Deactivate
	Set Startup

3. Review the settings:

Add/Remove/Move Up/Move Down: Manage priority or remove layouts of your choice.

Layout: Choose given Layouts for adding them in a sequence. **Pause**: Set time interval between layouts (in seconds)

	Pause	Add
Default Layout	5.00	Bemove
部 Layout 2	5.00	
Layout	5.00	Move Up
		Move Dow
		<u> </u>
٠ (m	•	
< III	•	
Sequence item Lavout:	,	Pause:

Map Module

TRENDnetVIEW Pro Maps allows you to quickly and conveniently locate cameras for viewing placed on Google Map and/or on your own floor plans added in JPEG format. 1. To start this module, click this button on the toolbar:



2. Right click the map and use context menu commands to configure and control map features.



3. Review the settings:

- Add New Camera Marker this item will add camera marker in place where menu has been called. There will be shown list of servers and cameras after choosing this menu item. After adding new marker you can double click on marker to activate matching camera. To remove marker right click on it and choose according popup menu item.
- Add New Map Link inserts on current map link on the new or already created map. Double click will change current map on the linked map. To remove this link use right click on it and choose according menu item.
- Goto Map navigate to other maps in appeared list.
- Create New Map From File add new map from JPEG image file, which will be used as background.
- Fit To Window JPEG map will strain on window maintaining it's aspect ratio.
- Save Current Position used in Google map to saving it's current position.
- Set Current Map As Startup set current map as startup map. Selected map will be loaded when starting to view this map module.
- **Rename Current Map** rename currently selected map.
- **Remove Current Map** delete currently selected map.

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Archive Backup Wizard

Archive Backup Wizard purpose is to backup specific part of archive or burn CD/DVD with archive and Archive Viewer on it. This can be useful to create backup copies of your archive with lower fps, or writing specific part of the archive on the CD for other machines without TRENDnetVIEW Pro being installed on them. Please note that this wizard works only on the same machine where DVR Server is installed.

1. Click the Wizards icon and select Backup server's archive data...

Ľ	
F	Add a new connection to the SecurView Pro Server
•	View or modify server connection properties
•	Create, configure or delete server user and permissions
	Add, configure or delete camera device
	Configure export of video frames
D	Open server's archive
	Manage server watchdog settings
	View or modify server recording properties
	View or modify server TCP communication properties
	Automatically discover network video devices and connect them to the server
	Backup server's archive data
1	Start or Stop Server Services and Applications
à	Submit a problem report to the SecurView Pro technical support team
1117	A STATE AND A STAT

2. The "TRENDnetVIEW Pro Archive Backup Wizard" window appears. Click Next.

3. Select Cameras to Backup. Select one or more cameras from the list. Then click Next. Please note **Estimated Backup Size**. There are estimates of backup size on every page in this wizard. Note that you can always decrease estimate size by decreasing output fps of backup archive, deselecting some of the cameras or changing time range.

Archive Streams to Bac Select video archive str	kup eams and cameras to I	backup		
Title			Size	
RENDnet TV-IP55	1WI - 192.168.1.213	41	81 KB	6/22/2012 2:
📝 🔊 TV-IP672WI		36	57 GB	1/17/2013 10:
		107.		2420104
•	III			,
Archive size:	36.72 GB			
Estimated backup size:	36.72 GB			
		< Back	Next >	Cancel

- 4. The time selection window appears. Select time range of backup archive. Click Next.
 - 5. The Video Backup Option window appear. Click **Constrain backup video frame** rate to decrease fps of backup in advanced options. Click **Next**.



6. The "Backup Destination" window appears. Select type of backup ("Burn archive on CD or DVD disc" or "Copy archive to hard drive or network drive"). Then click **Next**.

🖏 TRENDnetVIEW Pro Archive Backup Wizard	
Backup Destination Choose data backup destination and review relevant settings	B
Burn archive on CD or DVD disc	
Write a copy of selected TRENDnetVIEW Pro archive part to a CD or a DVD disc.	
Copy archive to hard disk or network drive Write a copy of selected archive part to specified hard disk location, network location or removble media. Please provide path to write backup to using controls below.	
Location: C:\ArchiveBackup	
Free space: 242.03 GB	
Estimated backup size: 5.64 GB	
< <u>B</u> ack Next > Cancel	

7. If you select "Burn archive on CD or DVD disc", the "CD/DVD Device Settings" window appears. Click **Next**.

TRENDnetVIEW Pro Arch	nive Backup Wizard
CD/DVD Drive Setting Please select disc drive	s e and review recording settings
<u>I</u> nterface: Drive:	Windows Image Mastering (IMAPI) Version 2
Eect on completion:	Media: There is no media in the device Eject disc drive
Estimated backup size:	5.64 GB
	< Back Next > Cancel

8. On the next window you will see progress of backup action. After backup is complete, click **Finish**

Chapter 6

How to playback video

- 1. Right click on your server name
- 2. Choose tasks
- 3. Click Open archive.

Note: You can also right click on any camera view and choose open archive.



4. The archive pane will now open up.

- **Playback Window Structure** Now that you are in the playback screen, the structure pane on the left lists all of the cameras that you have recordings for .
- **To Navigate through the Video** Double click on the camera you wish to playback (This camera will now appear with footage on the video screen).



Fast forward & Rewind

There is a dial on the bottom of the screen, which you can drag in either direction to browse through your video in high speeds. Another way to fast forward is to use the arrow controls on top of the screen in which you can define how many increments of time you would like to move through the video.



Playback Motion Only

Located at the top of your Archive Pane, there are two buttons that allow you to seek video with actual motion in return saving you time.

With the camera you wish to review selected and showing in your video screen

Choose either
"seek previous motion

or "seek next motion"

Smart Search

You can also search through video not only by motion in the screen, but also by motion in a specific part of your camera screen. Through TRENDnetVIEW Pro's playback screen, you can define a specific object in your view, or define a path, and seek through motion only in that specific region. This process is very commonly referred to as "smart search".

Define motion of interest

1. Click on **Navigation** at the top of the archive window.

2. Click on "Define region of motion interest".

Seek to Beginnin	ng Ctri+Left Arrow
Seek to End	Ctrl=Right Arrow
Step Backward	Shift+Left Arrow
Step Eorward	Shift-Right Arrow
Go to Time	
Seek 5s Backwar	d Cbi+Shift+B
Seek Backward	Ctrl+B
Seek Forward	Ctri+N
D Seek 3x Forward	Ctrl+Shift+N
> Elay	Enter
J] Paine	Spece
🔁 Befreuh	FS
C Seek to Previous	Motion Ctrl+P
D Seek to Nert Me	tion Ctrl+M
Define Region of	Mission Interest
Eyents_	

3. Press the left button and drag the mouse over the area you would like to see motion in. This will create a grid in that area. You can also select multiple regions.



4. Click on "seek to previous motion" or "seek to next motion" to search through motion in the defined area or areas.

Export Video

To export video, you first have to select the section of recordings that you want to export to a different location (This will also prevent it from getting overwritten). To select video:

1. Click on **Edit** at the top of the playback screen.

2. Click on Export Wizard.



3. Select Simple Mode or Advanced Mode and then click Next.

Archive Export
User Interface (GUI) Complexity Choose appropriate user interface complexity and amount of choices for the wizard
Please choose desired user interface complexity between the choices offered below. To proceed, click Next.
Simple Mode
Reduced choices with most important commands and options only. Recommended to avoid confusing by multiple available choices and complexity.
© <u>A</u> d∨anced Mode
Full range of available choices to offer maximal flexibility in configuration. Recommended for experienced and power users who perfer to have full control over the process.
< <u>B</u> ack Next > Cancel

3. The **Export Type** window appears. Click **Next**. Note: Video + Audio export available only for ASF and WMV formats.

Choose export target type	
lease use the options below to specify export target. Click	Next to proceed then.
Output Type	Streams
Audio Video Interleaved (AVI) File Video Frame File Series (Advanced Systems Format (ASF, also WMV) File	Video, Audio Video Video, Audio

4. The "Video Stream" window appears. Choose the desired camera (video stream), compression (format) and subtitles. Then click **Next**.

Please use the optio	ons below to specify exported video stream and related options. Click Nex
<u>V</u> ideo Stream:	TRENDnet TV-IP551WI - 192.168.1.213
Format:	Regular Compression 👻
Resolution:	Original Full Resolution
	√ Maintain Aspect Ratio
Subtitles:	Hard Subtitles (Merge with Video)

TRENDnetView Pro

5. The "Audio Stream" window appears. Choose which Audio stream you want to export along with video. Then click **Next**.

rchive Export	
Audio Stream Choose and co	nfigure exported audio stream
Please use the optic	ns below to specify exported audio stream. Click Next to proceed.
<u>A</u> udio Stream:	TRENDnet TV-IP551WI - 192.168.1.213
Quality:	Low Bitrate (Compact)
-Options	
Desync <u>C</u> ompensi	tion, ms: 0.00
Note that for streams, due an option to delay audio r	tage may be recorded out of synchronization between video and audio to specific buffering and different synchronization sources. This provides manually compensate the synchronization, positive compensation value will elatively to video.
	< Back Next > Cancel

6. The "Export Options" window appears. Select the start and finish times of the video clip that you want to export. Click **Next**.

Archive Export		-	×
Export Options Specify export proced	ure options		
Please specify export option	ns using the choices l	elow. Click Next to p	roceed then.
Start and Stop Time			[
Start From:	9/19/2013	11:32:40 AM 🚔	Show <u>L</u> ocal Time
Stop At	9/19/2013	11:32:40 AM 🚔]
Time Options			
✓ Reduce Long Gaps			
Output Rate Adjustmen	t		
Adjust Exported Vide	eo <u>R</u> ate: 1.00	-0	
		< <u>B</u> ack	Next > Cancel

7. The Wizard will guide you to the next step for you do designate to which drive or folder to save the export video.

Note: To play back the TRENDnetVIEW Pro AVI file on a computer that doesn't have TRENDnetVIEW Pro installed, a codec (a small executable file) will have to be installed in order for your media player to recognize the TRENDnetVIEW Pro video file. The codec can be downloaded from http://www.trendnet.com/downloads.

ASF Export Options Provide ASF file export option	8	
Please specify ASF output options <u>O</u> utput File:	using the choices below. Click Next to	proceed then.
Record file		Browse
Video Codec: Windows	Media Video 9	•
Frame Rate per Second:	15.00	
Bitrate, kBps:	2048.00	
	< Back Nex	t > Cancel

8. The "Export Batch" window appears. Set all necessary parameters and before start export. The export Batch Window allows you add multiple export tasks.

Export Batch		
Queue multiple archive export tasks to be t	ulfilled at once in batch mo	ide 👌
	tot Total and	N
he requested export task has been added to the controls below to modify batch, or press Cancel	ne batch. To start exporting to exit from the wizard.) press Next, use
Video Stream	Time Interval	Destination
TRENDnet TV-IP551WI - 192.168.1.213	4/1/2013 11:32:40	Record file
a [
< III		
۲	Add Mor	re <u>R</u> emove
€ III	Add Mor	re <u>R</u> emove
< <u> </u>	Add Mor	re <u>R</u> emove
<u>د</u> [Add Mor	re <u>R</u> emove

9. The "Content CD/DVD Disc" window appears. Click Next.

Content CD/DVD Date Burn exported footage to a CD/DVD date You can optionally burn the files, both created by the viscant and other, to a CD/DVD date using control below. To keip burning, leave the box unchecked. Queste a CD/DVD date with responsed box unchecked. Queste a CD/DVD date with response box unchecked. Queste a CD/DVD/DVD date with respo	rchive Export	States in the local division of the local di	
You can optionally burn the files, both created by the sizard and other, to a CD/DVD disc using control below. To skip burning, leave the box unchecked. Careate a CD/DVD disc with exposted content? Device: TSSToorp CDDVDW SH-S202G (D-\) File Name Size: Location Currently Exported Files Output File 32.00 KB Currently Exported Files Currently	Content CD/DVD Disc Burn exported footage to a CD/DV	/D dec	Ļ
Currently Exported Files Currently Exported F	You can optionally burn the files, both o	reated by the wizard and other, to a CD/D	WD disc using
	controls below. To skip burning, leave t	re ook uncrecked.	
Berline TSSToop CDOVDW SH-S2826 (D/L) * File Name Size Location Currently Exported Files Berlowe V Output File 32.00 KB m +	Qreate a CU/UVU disc with exporte	d content;	
File Name Size Location Currently Exported Files 32.00 KB Benove € III Currently Exported Files	Device TSSToop CDDVDW SH	-S202G (D.\) *	
File Name Size Location Currently Exported Files 32.00 KB ℓ III ℓ III			
Currently Exported Files	Fie Name	Size Location	<u>8</u> 66
Cuput Rie 22.00 KB (Currently Exported Files	Constant of the second s	Benove
<, cancel	V Output File	32.00 KB	
< (Gack Net > Cancel			
< Back Next > Cancel	e	•	
< Back Next > Cancel			
< Back Next > Cancel			
		< Back Next >	Cancel

10. Archive Export wizard is now complete. Click Finish.

Export Snapshots

Another way to export video is to save one frame at a time, like a snapshot.

- 1. Pause the video on the image that you would like to copy.
- 2. Click on Video.
- 3. Choose "Save Current Frame As..."



4. Select a location and file name for your image

5. Click Save.

Now you will have the image stored so that you can print, e-mail, or enhance that snapshot.

Quick snapshot save and current visible frame save

The Quick save feature provides you the option to quick save video snapshot to a predefine location with a single keyboard shortcut.

1. Prior to using the "quick save current frame" the Quick save properties must be configured to pre-define the save location

File Edit View	Video	Timeline Navigation	
Structure Archive TRENDnet TV-IP TV-IP672WI (Group) TV-IP672WI-Taipei	Cur Cop Sav	rrent Frame Subtitles by Current Frame to Clipk e Current Frame As	ooard Ctrl+C Ctrl+S
	Qui Qui	ick Save Current Frame ick Save Properties	Ctrl+Alt+S
	✓ Ma Dig	intain Aspect Ratio ital Pan-Tilt-Zoom	,

2. Setup preferred directory for saving the snapshots.

location		
Quick save video snaps shortcut, or save option	video frame feature provides ar hots into pre-defined location w using menu. Use controls below 5.	opportunity to save ith a single keyboard / to configure quick
Directory:	C:\Users\test\Documents	Browse
Ele Name:	\$(Year)-\$(Month)-\$(Day) \$(Ho	ur)-S(Minute 👻 💽
Note ti desired Replacemen Note ti name t a repla	at use of .JPG or .BMP file nam i mage file format. It Character:	ne extension specifies or colon mark, from file tile name; this provides name.
a tepia	centerii to compose a valo nie i	name.

3. Press Ctrl + Alt +S on your keyboard or click Video and select Quick Save Current Frame.

Video	<u>T</u> ime Line	Navigation		
Cu	rrent Frame S	ubtitles		•
Co	py Current Fr	ame to Clipbo	oard Ctrl+C	
Sav	e Current Fra	ime As	Ctrl+S	
Qu	ick Save Curr	ent Frame	Ctrl+Alt+S	
Qu	ick Save Prop	erties		
✓ Ma	intain <u>A</u> spect	Ratio		
Dig	ital Pan-Tilt-	Zoom		۲

Chapter 7

Upgrading TRENDnetVIEW Pro software to a newer version

To check for upgrades and new free versions you can always visit www.trendnet.com

Updating the software requires all DVR services to stop before Installation. During the installation of the new version you will encounter the following message.

Yes: Recommended. Keep all current configurations of your server.

No: Start a new database. All previous settings and configurations will be erased and a new database will be created.



After you complete the above steps, you can continue with the installation.

TRENDNET®

Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at http://www.trendnet.com/register

> TRENDnet 20675 Manhattan Place Torrance, CA 90501. USA

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