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PREFACE

Thank you for purchasing the TV-IP252 SecurView PoE Dome Internet Camera, a standalone system that can be connected directly to an Ethernet or Fast Ethernet network.

The camera features the latest Motion JPEG and MPEG-4 image technology, advanced management functionality, and GPIO connectors (e.g. connecting to the door sensors or alarm bells), allowing you to record streaming video (Motion JPEG or MPEG-4), enable motion detection, and setup automated FTP/Email/ Network Storage service for security.

The audio function (connected external microphone and audio-out device like the active speaker) of the camera allows you to deliver/receive sound to/from the camera. In addition, the superior lens and hardware design enable the camera to capture high quality images even in the low-lux condition.

Compared to the conventional PC Camera, the camera features a built-in CPU and Web-based solutions that can provide a cost-effective solution to transmit the real-time high-quality video images and sounds synchronously for monitoring. The camera can be managed remotely, so that you can use a Web browser to access and control it from any desktop/notebook computer over the Intranet or Internet.

The simple and versatile installation allows you to integrate it into your network environment easily. With comprehensive applications supported, the camera is your best solution for demanding surveillance and remote monitoring applications. This User Guide provides you with the instructions and illustrations on how to use your camera, which includes:

- Chapter 1 Introduction to Your Camera describes the features of the camera. You will also know the components and functions of the camera.
- Chapter 2 Hardware Installation helps you install the camera according to your application environment. You can use this camera at home, at work, any where you want.
- Chapter 3 Accessing the Camera lets you start using your camera without any problems. The camera can be set up easily and work within your network environment instantly.
- Chapter 4 Configuring the Camera guides you through the configuration of the camera using the Web browser on your PC.
- Chapter 5 Using SecurView[™] shows you the detail instructions on operating SecurView[™] software.
- Appendix Provides the specification of the camera and some useful information for using your camera.
- **NOTE** The illustrations and configuration values in this guide are for reference only. The actual settings depend on your practical application of the camera.

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CHAPTER 1

INTRODUCTION TO YOUR CAMERA

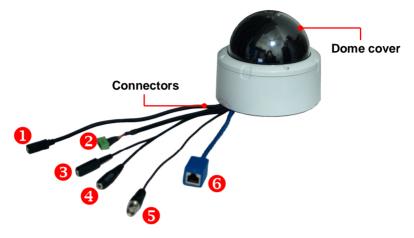
1.1 Checking the Package Contents

Check the items contained in the package carefully. You should have the following:

- ☑ TV-IP252P
- Power Adapter (12V DC, 1.5A)
- Mounting Kit
- Cat. 5 Ethernet Cable (1.8m / 6ft.)
- GPIO Adapter
- CD-ROM (Utility & User's Guide)
- Multi-Language Quick Installation Guide
- **NOTE** If there is any item damaged or missing, please contact your local authorized dealer for replacement.

1.2 Getting to Know Your Camera

Physical Components



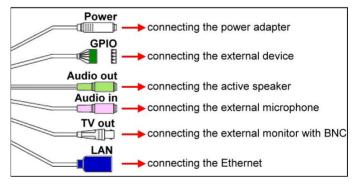
Connectors

Power: Connects the power adapter to supply power to the camera.

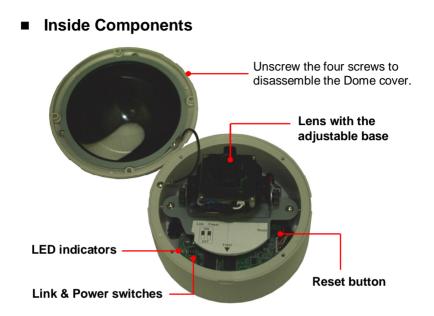
2 GPIO: Connects the external device that features additional controlling function, such as motion detection, event triggering, alarm notification, and a variety of external control functions.

Before connecting the external device for GPIO function, you have to attach the provided external GPIO connectors to the device.

- 6 Mic In: Connects an external microphone to receive the on-the-spot sound where the camera is installed. (Pink Connector)
- Audio Out: Connects an external audio device (such as the active speaker) to deliver sound via the camera. (Green Connector)
- **5 TV Out:** The BNC connector is used to connect the composite video input of external video device.
- **6** LAN: Plugs the provided Ethernet cable to connect to your local area network (LAN). The LAN port of the camera supports the NWay protocol so that the camera can detect the network speed automatically.



Connecting Cables



- **Reset button:** Press the button to restart the camera. Press and hold the button for five seconds, the camera will resume the factory default settings.
- LED indicators
 - Power Link
- **Power** indicates the camera is powered on with the steady amber light.
- **Link** indicates the camera's network connectivity with the flashing green light.

• Link & Power switches:



The two switches allow you to turn off the LED indicators manually.

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1.3 Features and Benefits

MPEG4/MJPEG Dual-codec Supported

The camera provides you with excellent images by the MPEG4/MJPEG dual-codec selectable technology, allowing you to adjust image size and quality, and bit rate according to the networking environment.

• Flexible Audio Capability

The camera allows you to connect the external microphone to receive on-the-spot audio via the Internet, allowing you to monitor the on-site voice. In addition, you can connect an external active speaker to the camera to speak through the camera (supporting mono audio only).

Supports RTSP

The camera supports RTSP (Real Time Streaming Protocol), which is a technology that allows you to view streaming media via the network. You can view the realtime video with the Quick Time player or RealPlayer. To view the real-time streaming image on your computer, open the Web browser and enter the RTSP link: <u>rtsp://(IP address of the camera)/mpeg4</u>.

Remote Control Supported

By using a standard Web browser or the bundled Ultra View software application, the administrator can easily change the configuration of the camera via Intranet or Internet. In addition, the camera can be upgraded remotely when a new firmware is available. The users are also allowed to monitor the image and take snapshots via the network.

• I/O Connectors Supported

The I/O connectors (2-in/1-out) of the camera provide the physical interface to send and receive digital signals to a variety of external alarm devices. You can configure the settings and control the device from the **GPIO Trigger** setting of Web Configuration.

• Multiple Platforms Supported

The camera supports multiple network protocols, including TCP/IP, SMTP e-mail, HTTP, and other Internet related protocols. Therefore, you can use the camera in a mixed operating system environment, such as Windows 2000, Windows XP and Windows Vista.

Multiple Profiles Supported

The camera supports multiple profiles simultaneously, so that you can separately set up different image settings (such as image quality and frame rate) for the three video types of the camera: MPEG4, MJPEG, and 3GPP.

Multiple Applications Supported

Through the remote access technology, you can use the cameras to monitor various objects and places for your own purposes. For example, babies at home, patients in the hospital, offices and banks, and more. The camera can capture both still images and video clips, so that you can keep the archives and restore them at any time.

1.4 System Requirement

- Networking
 - LAN: 10Base-T Ethernet or 100Base-TX Fast Ethernet.
- Accessing the Camera using SecurView™
 Platform: Microsoft® Windows® 2000/XP/Vista

• Accessing the Camera using Web Browser

- Platform: Microsoft® Windows® 2000/XP/Vista
- CPU: Intel Pentium III 350MHz or above
- **RAM:** 128MB
- **Resolution:** 800x600 or above
- User Interface: Microsoft® Internet Explorer 6.0 or above

Hardware Requirement

- **Resolution:** 1024x768 or above
- 1 camera: Intel Pentium III 800MHz; 512MB RAM
- 2 ~ 4 cameras: Intel Pentium 4 1.3GHz; 512MB RAM
- 5 ~ 8 cameras: Intel Pentium 4 2.4GHz; 1GB RAM
- 9 ~ 16 cameras: Intel Pentium 4 3.4GHz; 2GB RAM
- **NOTE** If you connect multiple cameras within the network to monitor various places simultaneously, you are recommended to use a PC with higher performance.

CHAPTER 2

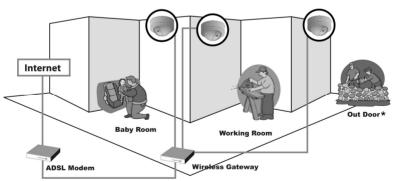
HARDWARE INSTALLATION

2.1 Applications of the Camera

The camera can be applied in multiple applications, including:

- Monitor local and remote places and objects via Internet or Intranet.
- Capture still images and video clips remotely.
- Upload images or send email messages with the still images attached.

The following diagram explains one of the typical applications for your cameras and provides a basic example for installing the cameras.



Cameras within Your Network

* Please enclose with waterproof housing when using in outdoor environment. The unit itself is not weatherproof.

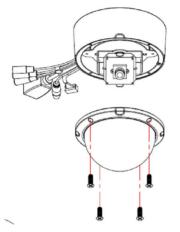
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2.2 Installing the Camera

Basic Installation (Surface)

The camera can be mounted to the ceiling surface directly by the following steps:

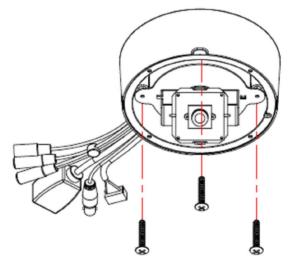
1. Remove the Dome cover by unscrewing four screws.



- 2. Drill three pilot holes into the ceiling and hammer the plastic anchors into the holes.
- **TIP** You can easily and precisely drill the three pilot holes with the provided drill template. Put the drill template on the location where you want to install the camera, and then drill the pilot holes according to the marked screw position on the drill template.

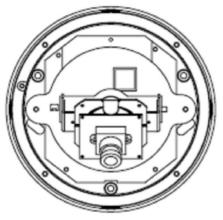


3. Install the camera to the ceiling with three screws.

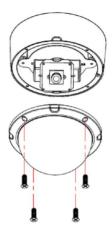


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- 4. Make connections according to your needs (refer to the illustration of connecting cables on page 6).
- 5. Pan/tilt the camera lens to a proper position by using the adjustable base, and adjust the lens focus by turning the lens ring slowly in either clockwise or anti-clockwise direction.



- **NOTE** You can review the image quality from the Web browser when you complete the installation. If the image quality is poor, you have to disassemble the Dome cover to adjust the lens focus until the desired image appears clearly.
- 6. Replace the Dome cover and secure with four screws.



CHAPTER 3 ACCESSING THE CAMERA

3.1 Using IPSetup

The camera comes with a convenient utility, IPSetup, which is included in the Installation CD-ROM, allowing you to search the camera(s) on your network easily.

1. Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program.

	Gaming Setup Wizard
	IP Setup
TRENDNET	SecurView
	User's Guide
	Product Registration
	Exit
SecurView PoE Internet Camera TV-IP252P	

 Click the IPSetup from the Auto-run menu screen. Then the IPSetup Wizard will appear. Click Next when the Welcome to the IPSetup Wizard appears.

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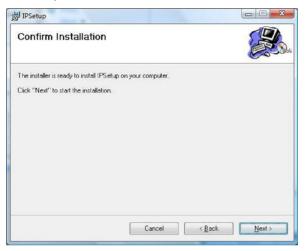
 Click Browse to choose the desired destination location. By default the destination location is C:\Program Files\TRENDnet\IPSetup. Then click Next.



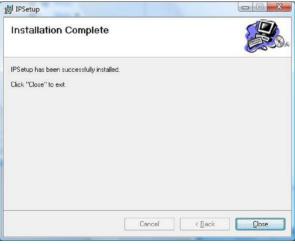
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4. Click **Next** to confirm the IPSetup software to be installed to the computer.



5. When the Installation Complete window appears, click Close.



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- 6. After installing the IPSetup Utility, the application is automatically installed to your computer, and creates a folder in Start\Program\TRENDnet\IPSetup.
- 7. Click Start>Programs>TRENDnet>IPSetup, and then click IPSetup.

	Programs		TRENDnet	•	IPSetup	🕨 🙆 IP Setu
Sil.	Documents	,	Adobe Reader 8	0	Web Smart Switch Management Utility	•
De	Settings		🐠 eBay		MFP Server Control Center	•
100	Jetungs		Home movies made easy!	1	PS-Utility	•
P	Search	۲	🖉 Internet Explorer		IPCamViewer	•
0			Microsoft Office PowerPoint Viewer 2003	1	IPViewer	•
	Help and Support		Microsoft Works Task Launcher	1	TEW-424UB	•
101	Run		QuickPlay			
ø			QuickPlay Manager			
0	Shut Down					

8. The IPSetup window will appear. It will search for SecurView camera(s) within the same network

IPSetup			
IP Address 192.168.10.30	Camera Name	Mac Address 00 1a 97 00 00	
192.168.10.30		UU 1a 97 UU UU	
Camera Dis	play Area		
	Change IF	Search	Exit

Camera Display Area: It shows the connected camera(s) within the same network.

Double click the IP Address, it will link to the Camera's Web Configuration page.

- **Change IP:** Click this button to bring up the following window. It allows you to change the IP Address. You can select either **Static IP** or click **DHCP**. Then, enter the Administrator ID & Password. By default the ID/Password is: **admin**. When complete, click **Change**.

Static IP							
IP Address	192	•	168	÷.	10		30
Submask	255	•	255		255		0
Default gateway	192	•	168		10		1
C DHCP							
dministrator ID & Pas	sword —						
D		_		_		_	

- **Search:** Click this button to search the connected SecurView camera(s) in the same network.
- **Exit:** Click this button to exit the program.

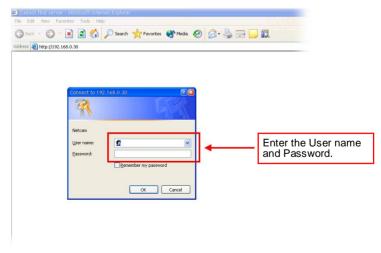
3.2 Accessing to the Camera

Whenever you want to access the camera:

- 1. Open the Web browser on your computer (example showed in the User's Guide is based on Internet Explorer).
- Since the default configuration of the camera is DHCP mode enabled, you are recommended to launch IPSetup to search the IP address that is assigned to the camera by the DHCP server, and then click Link to access the camera via the Web browser. Otherwise type the default IP address (192.168.10.30) in the Address bar, and the press [Enter].

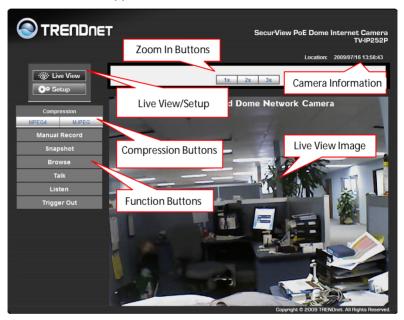


3. When the login window appears, enter the default **User** name (admin) and **Password** (admin). Then, click the **OK** button to access to the main screen of the camera's Web Configuration.



NOTE If you are initially accessing the camera, you will be asked to install a new plug-in for the camera. Permission request depends on the Internet security settings of your computer. Click **Yes** to proceed.

After you login into the Web Configuration of the camera, the Main screen will appear as below:



The Main page of the Web Configuration provides you with useful information and functions, including:

- Live View/Setup Switch:
 - Click the **Setup** button to configure the camera. For details, see Chapter 4.
 - Click the **Live View** button to return to the Main screen to view the live view image.

- Compression Buttons: Select to transmit and record the video using MPEG4 or MJPEG compression.
- Function Buttons: Use these buttons to control the audio, video, and trigger functions.
 - Manual Record allows you to record and save a video clip.
 - **Snapshot** allows you to capture and save a still image.
 - **Browse** allows you to assign the destination folder to store the video clips and still images.
 - **Talk** allows you to speak out through the camera. Please note only one user is allowed to use this function at a time.
 - Listen allows you to receive the on-site sound and voice from the camera.
 - **Trigger Out** allows you to trigger on/off the GPIO output manually.
- Live View Image: Displays the real-time image of the connected camera.
- Zoom In Buttons: Click the buttons to zoom in the live view image by 1x, 2x, and 3x.
- Camera Information: Displays the camera's location and the current date & time. The information can be modified in the Web Configuration.
- **NOTE** If your PC uses Microsoft Vista platform you may not be able to find these recorded files that are stored by **Snapshot** or **Manual Record**. If this is the case, you will need to disable the protected mode of Security in the IE Browser through the following steps:
 - 1. Open the Internet Explorer browser.

- 2. Click Tools > Internet Options.
- 3. Click Security.
- 4. Disable the Enable Protected Mode option and then click OK.

3.3 Configuring the IP Address of the PC

If you have failed to access the camera, please check the IP address of your computer. When you connect the camera to your computer directly, proceed with configuration of the camera. You need to set up the IP addresses to be in the same segment for the two devices to communicate.

- 1. On your computer, click **Start > Control Panel** to open the Control Panel window.
- 2. Double-click **Network Connection** to open the Network Connection window.
- 3. Right-click Local Area Connection and then click **Properties** from the shortcut menu.
- 4. When the Local Area Connection Properties window appears, select the **General** tab.
- 5. Select Internet Protocol [TCP/IP] and then click Properties to bring up the Internet Protocol [TCP/IP] Properties window.
- 6. To configure a fixed IP address that is within the segment of the camera, select the Use the following IP address option. Then, enter an IP address into the empty field. The suggested IP address is 192.168.10.x (x is 1~254 except 30), and the suggested Subnet mask is 255.255.255.0.
- 7. When you are finished, click OK.

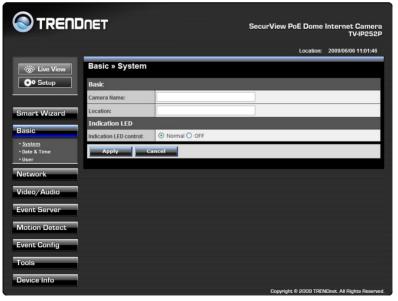
CHAPTER 4

CONFIGURING THE CAMERA

4.1 Using the Web Configuration

You can access and manage the camera through the Web browser and the provided software application SecurView[™] (see chapter 5 in more detail). This chapter describes the Web Configuration, and guides you through the configuration of the camera by using the web browser.

To configure the camera, click **Setup** on the Main page of Web Configuration. The Web Configuration will start from the **Basic** page.



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The Web Configuration contains the settings that are required for the camera in the left menu bar, including **Smart Wizard**, **Basic**, **Network**, **Video/Audio**, **Event Server**, **Motion detect**, **Event Config**, **Tools**, **USB**, and **Information**.

4.2 Using Smart Wizard

The camera's Smart Wizard lets you configure your camera quickly and easily. The wizard will guide you through the necessary settings with detailed instructions on each step.

To start the wizard, click Smart Wizard in the left menu bar.

Step 1. Camera Setting

		SecurView PoE Dome Internet Camera TV-IP252P			
		Location: 2009/06/06 11:04:03			
Welcome to the Smart Wizard. This wizard will help you quickly set up the	Camera Settings	_			
Network Camera to run on your network.	Camera Name:	Enter the name and			
Camera Settings	Location:	location for the camera.			
Camera Name: Enter a descriptive name	Admin Password:	Enter the administrator			
for the camera. For example, camera 1.	Confirm Password:	password twice.			
Location: Enter a descriptive name for the location used by the camera. For example, meeting room 1.	Next > Cancel				
Admin Password/Confirm Password Enter the administrator password twice to set and confirm the password to access the camera's Configuration Utility.					
		Copyright © 2009 TRENDnet. All Rights Reserved.			

Step 2. IP Setting

Select the IP setting according to your network: **DHCP**, **Static IP**, or **PPPoE**.

		SecurView PoE Dome Internet Camera TV-IP252P
		Location: 2009/06/06 11:04:48
IP Settings	IP Settings	
DHCP: Select this option when your network uses the DHCP server. When the	• DHCP	
camera starts up, it will be assigned an IP	O Static IP	
address from the DHCP server automatically.	IP:	192 . 168 . 10 . 30
	Subnet Mask:	255 255 0
Static IP: Select this option to assign the IP address for the camera directly. You	Default Gateway:	192 . 168 . 10 . 1
can use IP Finder to obtain the related setting values.	Primary DNS:	
Example:	Secondary DNS:	
 IP Address: For example, enter the default setting 192.168.10.30 	O PPPOE	
- Subnet Mask: For example, enter the default setting 255,255,255,0	User Name:	
- Default Gateway: For example, enter the	Password:	
default setting 192.168.10.1 - Primary/Secondary DNS: Enter the DNS that are provided by your ISP.	< Prev N	ext > Cancel

Step 3. Email Settings

Enter the required information to be able to send email with image.

		SecurView Pol	Dome Internet Camera TV-IP252P
			Location: 2009/06/06 11:05:32
Email Setting	Email Setting		
SMTP Server Address: Enter the mail server address. For example,	SMTP Server Address:	smtp.live.com	
mymail.com.	Port Number:	25	
Port Number. Enter the mail server port number.	Sender Email Address:	j-cooper@live.com	
number.	Authentication Mode:	O None SMTP	
Sender Email Address: Enter the email address of the user who will send the	Sender User Name:	j-cooper@live.com	
email. For example, John@mymail.com.	Sender Password:	•••••	
Authentication Mode: If the mail server needs to login, please select SMTP.	Receiver #1 Email Address:	j.vieyra@trendnet.com	
Sender User Name: Enter the user name to login the mail server.	Receiver #2 Email Address:		
Sender Password: Enter the password to login the mail server.	< Prev N	ext > Cancel	

Step 4. Confirm Settings

		SecurView PoE Dome Internet Camera TV-IP252P
		Location: 2009/06/06 11:07:37
Confirm Settings	Confirm Settings	
Please confirm the configuration you have set up.	Camera Name:	
When you confirm the settings, click Apply	Location:	
to finish the wizard and reboot the camera. Otherwise, click prev to go back to the	IP Mode:	DHCP
previous step(s) and change the settings; or click Cancel to end the wizard and discard the changes. Please note that the camera's IP Address	IP Address:	192.168.10.30
	Subnet Mask:	255.255.255.0
	Default Gateway:	192.168.10.1
will be updated if you changed the IP	Primary DNS:	
setting. This may cause the camera to lose the image screen. If this happens,	Secondary DNS:	
use the supplied IP Finder software	SMTP Server Address:	smtp.live.com
application to locate the camera's IP Address. Then, connect to the camera to	Port Number:	25
resume the image screen.	Sender Email Address:	j-cooper@live.com
	Authentication Mode:	SMTP
	Sender User Name:	j-cooper@live.com
	Receiver #1 Email Address:	j.vieyra@trendnet.com
	Receiver #2 Email Address:	
	< Prev A	pply Cancel

The last step shows the configuration of your camera. When you confirm the settings, click **Apply** to finish the wizard and reboot the camera. Otherwise, click **Prev** to go back to the previous step(s) and change the settings; or click **Cancel** to end the wizard and discard the changes.

4.3 Basic Setup

The Basic menu contains three sub-menus that provide the **System settings** for the camera, such as the Camera Name, Location, **Date & Time**, and **User management**.

			SecurView PoE Dome Internet Camer TV-IP252			
			Location:	2009/06/06 11:10:39		
· Ö· Live View	Basic » System					
Or Setup	Basic					
	Camera Name:					
Smart Wizard	Location:					
Basic	Indication LED					
	Indication LED control:	Normal O OFF				
• <u>System</u> • Date & Time • User	Appiy Ca	ncel				
Network						
Video/Audio						
Event Server						
Motion Detect						
Event Config						
Tools						
Device Info			Converight © 2009 TPF	NDnet. All Rights Reserved.		

Basic >> System

Basic » System			
Basic			
Camera Name:			
Location:			
Indication LED			
Indication LED control:	O Normal ○ OFF OF		
Apply Cancel			

- **Basic:** This item allows you to assign the camera name and location information.
 - **Camera Name:** Enter a descriptive name for the camera.
 - **Location:** Enter a descriptive name for the location where the camera is monitored.
- Indication LED: This item allows you to set the LED illumination as desired. There are two options: Normal and OFF.

Basic >> Date & Time

Basic » Date & Time Date and Time			
Setting:	 Synchronize with PC Synchronize with NTP Server NTP Server Address: Update Interval: 6 Mours Manual Date: 2009/06/06 (YYYY/MM/DD) Time: 11:13:06 (hh:mm:ss) 		
Apply	Cancel		

- Date & Time: Enter the correct date and time for the system.
 - **TimeZone:** Select the proper time zone for the region from the pull-down menu.

- **Synchronize with PC:** Select this option and the date & time settings of the camera will be synchronized with the connected computer.
- Synchronize with NTP Server: Select this option and the time will be synchronized with the NTP Server. You need to enter the IP address of the server and select the update interval in the following two boxes.
- Manual: Select this option to set the Date and Time manually.

Basic >> User

Basic » User			
User Accounts			
Administrator:	Password: Confirm Password:	Modify	
General User:	User Name: Password: UserList:	Add/Modify Delete	
Guest:	User Name: Password: UserList:	Add/Modify Delete	
Direct Video Stream Authentication:	✓ Enable	Apply	

• Administrator: To prevent unauthorized access to the camera's Web Configuration, you are strongly recommended to change the default administrator

password. Type the administrator password twice to set and confirm the password.

- General User
 - **User Name:** Enter the user's name you want to add to use the camera.
 - **Password:** Enter the password for the new user.

When you are finished, click **Add/Modify** to add the new user to the camera. To modify the user's information, select the one you want to modify from **UserList** and click **Add/Modify**.

- **UserList:** Display the existing users of the camera. To delete a user, select the one you want to delete and click **Delete**.
- Guest
 - **User Name:** Enter the guest's name you want to add to use the camera.
 - **Password:** Enter the password for the new guest.
 - **UserList:** Display the existing guests of the camera. To delete a user, select the one you want to delete and click **Delete**.
- Direct Video Stream Authentication:

Enabled = Direct link to the video stream prompts for authentication.

Disable = Direct link to video does not prompt for authentication for ease of use when implementing or

embedding the video stream into a custom application or webpage.

Examples of the Direct Link to video:

MPEG4 Mode http://camera_ip_address:port number/mpgview.htm

MJPEG Mode http://camera_ip_address:port number/jpgview.htm

NOTE The "General User" is allowed to access the camera and control the Function buttons on the Main screen of the Web Configuration. The "Guest" can only view the live view image from the Main screen while accessing the camera. Only the "Administrator" is allowed to configure the camera through the Web Configuration. You can have up to 11 Accounts between the General and Guest Accounts.

4.4 Network Settings

The Network menu contains two sub-menus that provide the **Networking settings** for the camera, such as the IP Setting, DDNS Setting, and **IP Filter**.

ENDNET			SecurView P	oE Dome	Internet Camer TV-IP252
				Location:	2009/06/06 11:20:52
iew Network » Net	work				
Network					
IP Settings:	O DHCP				
rd	O Static IP		192 1	68 10	30
		et Mask:		55 255	0
		It Gateway:		68 10	1
		ry DNS:			
		idary DNS:			
	O PPPoE				
	User	Name:			
	Passy	word:			
DDNS Setting:	Enable				
	Provider:	members	.dyndns.org 🔽		
	Host Name:				
	User Name:				
	Password:				
UPnP:	Enable				
Bonjour:	Enable				
	Friendly Name:				
Ports Number:	HTTP Port	80	(default 80)		
	RTSP Port:	554	(default: 554)		
Apply	Cancel				

Network >> Network

Network » Networ	k			
Network				
IP Settings:	DHCP Static IP PPPoE	IP: Subnet Mas Default Gat Primary DN Secondary I User Name Password:	eway: IS: DNS:	192 . 168 . 10 . 30 255 . 255 . 0 192 . 168 . 10 . 1
DDNS Setting:	Enable Provider: Host Name: User Name: Password:		members.dyndns	s.org
UPnP:	Enable			
Bonjour:	Enable Eriendly Nam	e:		
Ports Number:	HTTP Port: RTSP Port:			ılt: 80) Ilt: 554)
Apply Car	icel			

- IP Setting: This item allows you to select the IP address mode and set up the related configuration.
 - **DHCP**: Select this option when your network uses the DHCP server. When the camera starts up, it will be assigned an IP address from the DHCP server automatically.

- **Static IP:** Select this option to assign the IP address for the camera directly. You can use IPSetup to obtain the related setting values.

IP	Enter the IP address of the camera. The default setting is 192.168.10.30.
Subnet	Enter the Subnet Mask of the camera.
Mask	The default setting is 255.255.255.0.
Default	Enter the Default Gateway of the camera.
Gateway	The default setting is 192.168.10.1.
Primary/ Secondary DNS	DNS (Domain Name System) translates domain names into IP addresses. Enter the Primary DNS and Secondary DNS that are provided by ISP.

- PPPoE: Select this option when you use a direct connection via the ADSL modem. You should have a PPPoE account from your Internet service provider. Enter the User Name and Password. The camera will get an IP address from the ISP as starting up.
- **NOTE** Once the camera receives an IP address from the ISP after starting up, it automatically sends a notification email to you. Therefore, when you select PPPoE as your connecting type, you have to set up the email or DDNS configuration in advance.
- **DDNS Setting:** With the Dynamic DNS feature, you can assign a fixed host and domain name to a dynamic Internet IP address. To set up the DDNS:
 - 1. Select the **Enable** option to enable this feature.
 - 2. Select the **Provider** from the pull-down list.
 - 3. Enter the required information in the Host Name, User Name, and Password boxes.

- **NOTE** You have to sign up for DDNS service with the service provider before configuring this feature.
- UPnP: The camera supports UPnP (Universal Plug and Play), which is a set of computer network protocols that enable the device-to-device interoperability. In addition, it supports port auto mapping function so that you can access the camera if it is behind an NAT router or firewall.

Select the **Enable** option to enable this feature.

• Ports Number

- HTTP Port: The default HTTP port is 80.
- **RTSP Port:** Configure the transmission of streaming data within the network. The default RTSP (Real Time Streaming Protocol) port is **554**.
- **NOTE** If the camera is behind a NAT router or firewall, the suggested ports to be used are from 1024 to 65535.

Network >> IP Filter

Network » IP Fi	ilter
IP Filter	
Disable:	•
Accept:	Start: .
Accept IP List:	Delete
Deny:	Start:
Deny IP List:	Delete
Apply	Cancel

The IP Filter setting allows the administrator to limit the users within a certain range of IP addresses to have access to the camera.

To disable this feature, select the **Disable** option; otherwise, select the **Accept** option to assign the range of IP addresses that are allowed to access the camera, or select the **Deny** option to assign the range of IP addresses that are blocked to access the camera.

• Accept

- Start/End IP Address: Assign a range of IP addresses that are allowed to access the camera by entering the Start IP address and End IP address options. When you are finished, click Add to save the range setting. You can repeat the action to assign multiple ranges for the camera. For example, when you enter 192.168.10.50 in Start IP Address and 192.168.10.80 in End IP Address, the user whose IP address located within 192.168.10.50 ~ 192.168.10.80 will not be allowed to access the camera.

- Accept IP List: The list displays the range setting(s) of IP addresses that are allowed to access the camera. To clear the setting, select a range of IP addresses from the list and click **Delete**.

• Deny

- Start/End IP Address: Assign a range of IP addresses that are blocked to access the camera by entering the Start IP address and End IP address options. When you are finished, click Add to save the range setting. You can repeat the action to assign multiple ranges for the camera.

For example, when you enter 192.168.10.50 in Start IP Address and 192.168.10.80 in End IP Address, the user whose IP address located within 192.168.10.50 ~ 192.168.0.80 will not be allowed to access the camera.

- **Deny IP List:** The list displays the range setting(s) of IP addresses that are blocked to access the camera. To clear the setting, select a range of IP addresses from the list and click **Delete**.

4.5 Setting up Video & Audio

The Video & Audio menu contains four sub-menus that provide the video and audio settings for the camera.

	DNET	SecurView PoE Dome Internet Camera TV:IP252P
		Location: 2009/06/06 11:29:14
نق: Live View	Video & Audio	» Camera
Ö* Setup		and the second s
		and the total
Smart Wizard		
Basic		
Network		
Video/Audio		
• <u>Camera</u> • Video		
• Audio • Text Overlay	Image Setting	
Event Server	Brightness:	22 (0~100)
	Saturation:	100 (0~100)
Motion Detect	Sharpness:	30 (0~100) Default
Event Config	Mirror:	Vertical Horizontal
Tools	Apply	Cancel
Device Info		
		Copyright © 2009 TRENDnet. All Rights Reserved

Video & Audio >> Camera

Image Setting			
Brightness:	22	(0~100)	
Saturation:	100	(0~100)	
Sharpness:	30	(0~100) Default	
Mirror:	Vertical Horizontal		
Apply	Cancel		

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• Image Setting

- Brightness: Adjust the brightness level from 0 ~ 100.
- Saturation: Adjust the colors level from 0 ~ 100.
- Sharpness: Adjust the sharpness level from 0 ~ 100.

Click **Default** to restore the default settings of the three options above.

- Mirror: Select Vertical to mirror the image vertically, or select Horizontal to mirror the image horizontally.
- Light Frequency: Select the proper frequency according to the camera's location: **50Hz** or **60Hz**.

Video & Audio >> Video

Video & Audio » Video		
MPEG4		
Video Resolution:	VGA 💌	
Video Quality:	Highest 💌	
Frame Rate:	30 🕶 fps	
MJPEG		
Video Resolution:	VGA 💌	
Video Quality:	High 🗸	
Frame Rate:	30 🗸 fps	
3GPP		
Setting:	 Disable 3GPP Without Audio 3GPP With Audio 	
Apply Car	icel	

• MPEG4

- Video Resolution: Select the desired video resolution from the three formats: VGA, QVGA, and QQVGA. The higher setting (VGA) obtains better video quality while it uses more resource within your network.
- Video Quality: Select the desired image quality from five levels: Lowest, Low, Medium, High, and Highest.
- Frame Rate: Select Auto or a proper setting depending on your network status.
- MJPEG
 - Video Resolution: Select the desired video resolution from the three formats: VGA, QVGA, and QQVGA. The higher setting (VGA) obtains better video quality while it uses more resource within your network.
 - Video Quality: Select the desired image quality from five levels: Lowest, Low, Medium, High, and Highest.
 - Frame Rate: Select Auto or a proper setting depending on your network status.
- **NOTE** The camera supports both MPEG4 and MJPEG compression. MJPEG capture the images in JPEG format, which require higher bandwidth to view smooth video. The administrator can control the bandwidth of each connection well through the setting options above.

• **3GPP:** The camera supports 3GPP specification. To disable this feature, select the **Disable** option; otherwise, select **3GPP Without Audio** or **3GPP With Audio** to transfer the video clips without or with audio.

If you use a mobile phone that supports 3GPP, you can also view the real-time streaming image captured by the camera on your phone (with the default player on the phone) by entering the RTSP link: rtsp://(IP address of the camera)/3gp.

Video & Audio >> Audio

Video & Audio » Audio			
Camera Microphone In			
Enable			
Camera Speaker Out			
Enable			
Volume:	90		
Apply Cancel			

- **Camera Microphone In:** Select the **Enable** option to enable the camera's audio function, so that you can receive the on-site sound and voice from the camera.
- Camera Speaker Out: Select the Enable option to enable the camera's external speaker function, so that the connected speaker can play the sound and voice through the camera.

You can set the speaker's volume by entering the proper value in the **Volume** option. The default setting is **90**.

Video & Audio >> Text Overlay

Text Overlay » Text Overlay				
Overlay Setting				
Include Date & Time				
Include Text	Fixed Dome Network Camera			
Enable Opaque				
Apply	ancel			

- Overlay Setting: This option allows you to set the overlay function of the camera, so that you can see the related information on the live view image.
 - Includes Date & Time: Select this option to display the date & time stamp on the live view image.
 - **Include Text:** Select this option and enter your heading text in the box to display the text information on the live view image.
 - **Enable Opaque:** Select this option to set a black background to the displayed date & time stamp.

4.6 Event Server Configuration

The Event Server menu contains three sub-menus that allow you to upload images to **FTP**, send **Emails** that include still images, and store the images to a **NAS system**.

When you complete the required settings for FTP, Email, or Network Storage, click **Test** to test the related configuration is correct or not. Once the camera connects to the server successfully, click **Apply**.

	DNET		SecurView PoE [Dome Internet Camera TV-IP252P
			Lo	cation: 2009/06/06 11:44:09
· tive View	Event Server S	etting » FTP		
Ö* Setup	FTP			
	Host Address:			
Smart Wizard	Port Number:	21		
Basic	User Name:			
	Password:			
Network	Directory Path:			
Video/Audio	Passive Mode:	Enable		
Event Server	FTP Upload With:	One Snapshot O Pre-event 3 sec(s) F	Post-event 2 🖌 sec(s)	
• <u>FTP</u> • Email • Network Storage	Test	Apply Cancel		
Motion Detect				
Event Config				
Tools				
Device Info			Copyright © 20	D9 TRENDnet. All Rights Reserved.

Event Server Setting >> FTP

Event Server Setting » FTP			
FTP			
Host Address:			
Port Number:	21		
User Name:			
Password:			
Directory Path:			
Passive Mode:	✓ Enable		
FTP Upload With:	 One Snapshot Pre-event sec(s) Post-event sec(s) 		
Test	Apply Cancel		

• FTP

- **Host Address:** Enter the IP address of the target FTP server.
- **Port Number:** Enter the port number used for the FTP server.
- User Name: Enter the user name to login into the FTP server.
- **Password:** Enter the password to login into the FTP server.
- **Directory Path:** Enter the destination folder for uploading the images. For example, /Test/.
- **Passive Mode:** Select the **Enable** option to enable passive mode.
- **FTP Upload With:** Set the format of the image that is to be uploaded to the FTP server. You can set the

format as **One Snapshot** or images containing **Preevent** $(0 \sim 3)$ seconds and **Post-event** $(0 \sim 3)$ seconds.

Event Server Setting >> Email

Event Server Setting » Email		
Email		
SMTP Server Address:	smtp.live.com	
Port Number:	25 In This server requires an encrypted connection (SSL)	
Sender Email Address:	j-cooper@live.com	
Authentication Mode:	O None SMTP	
Sender User Name:	j-cooper@live.com	
Sender Password:		
Receiver #1 Email Address:	j.vieyra@trendnet.com	
Receiver #2 Email Address:		
Send Email With:	 One Snapshot Pre-event sec(s) Post-event sec(s) 	
Test Ap	ply Cancel	

• Email

- **SMTP Server Address:** Enter the mail server address. For example, <u>mymail.com</u>.
- Sender Email Address: Enter the email address of the user who will send the email. For example, <u>John@mymail.com</u>.
- Authentication Mode: Select None to disable the authentication feature, or select SMTP and then enter

the **User Name** and **Password** according to the mail server configuration.

- Sender User Name: Enter the user name to login the mail server.
- Sender Password: Enter the password to login the mail server.
- Receiver #1 Email Address: Enter the first email address of the user who will receive the email.
- Receiver #2 Email Address: Enter the second email address of the user who will receive the email.
- Send Email With: Set the format of the image that is to be sent by the email. You can set the format as One Snapshot or images containing Pre-event (0 ~ 3) seconds and Post-event (0 ~ 3) seconds.
- Event Server Setting >> Network Storage

Event Server Setting » Network Storage			
Network Storage			
Samba Server Address:			
Share:			
Path:			
User Name:	Anonymous		
Password:			
Split By:	File Size 100 (MB) Recording Time 30 (Minutes)		
When Disk Full:	Stop Recording Recycle - Delete Oldest Folder		
Test Aj	Doply Cancel		

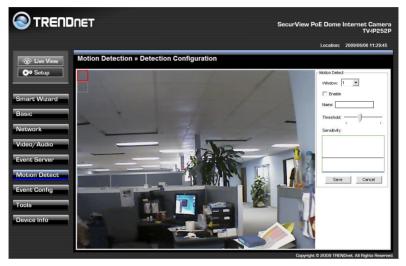
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• Network Storage

- Samba Server Address: Enter the IP address of the Network Storage server.
- **Share:** Assign the folder on the Network Storage server to share the files to users.
- **Path:** Assign the path for uploading the files on the Network Storage server. For example, /Test/.
- User Name: Enter the user name to login into the Network Storage server.
- **Password:** Enter the password to login into the Network Storage server.
- Split By: When the file is too large to upload smoothly, use this option to split it by selecting File Size or Recording Time.
- When Disk Full: Select Stop Recording or Recycle – Delete Oldest Folder when the storage space on the Network Storage server is full.
- **NOTE** If you have enabled **Recording to Storage** feature, after the camera boots up completely, it will mount to the storage server. If the storage server is not available at the time, the camera will remount every **5 minutes for an hour** (12 times) and then stop remounting.

4.7 Motion Detect

The Motion Detect menu contains the command and option that allow you to enable and set up the motion detection feature of the camera. The camera provides two detecting areas.



To enable the detecting area, select **Window 1** or **2** from the pulldown list, and then select **Enable**. When the detecting area is enabled, you can use the mouse to move the detecting area and change the area coverage.

- Name: Assign a name to the detecting area.
- **Threshold:** Move the slide bar to adjust the level for detecting motion to record video.

4.8 Event Config

The Event Config menu contains five sub-menus that provide the commands to configure event profiles.

	DNET		SecurView PoE Dome	Internet Camera TV-IP252P
	-		Location:	2009/06/06 11:51:28
Cive View	Event Configurati	on » General Setting		
ÖØ Setup	General	1/		
	Filename Prefix:	Snapshot/Recording Filename Prefix		
Smart Wizard	Recording Interval:	20 sec(s) Network Storage Recording Time Per E	vent	
Network	GPIO Trigger Out Interval:	20 sec(s) GPIO Trigger Out Per Event		
Video/Audio	Apply Ca	ncel		
Event Server				
Motion Detect				
Event Config				
• <u>General</u> • Schedule Profile • MotionDetect Trigger • Schedule Trigger • GPIO Trigger				
Tools				
Device Info				
			Copyright © 2009 TREF	NDnet. All Rights Reserved.

Event Configuration >> General Setting

• General

- **Snapshot/Recording Subfolder:** You can assign a given subfolder to each new captured file. Otherwise, leave this option blank to use the default setting.
- Network Storage Recording Time Per Event: Limit the recording time while you are using the Network Storage solution.

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- **GPIO Trigger Out Retention Time Per Event:** Limit the retention time of the GPIO Trigger Out function.

Event Configuration >> Arrange Schedule Profile

Event Configuration » Arrange Schedule Profile			
Schedule Profile			
Schedule	Add Delete		
Profile Name:	Schedule		
Weekdays:	⊙ Sun ○ Mon ○ Tue ○ Wed ○ Thu ○ Fri ○ Sat		
Time List:	Add Copy this to all weekdays Delete Delete this from all weekdays		
Start Time:			
End Time:			
	Save Cancel		

- Schedule Profile: This sub-menu displays the scheduled profile(s). To customize the profile, click Add and then enter a descriptive name for the profile in the prompt dialog window.
- After entering the profile name, click **OK** and the profile is added to the Schedule Profiles list. To delete the profile, select the profile in the list and click **Delete**.

- **Profile Name:** Display the profile name that you select in the Schedule Profiles list.
- Weekdays: Select the weekday(s) that you want to separately assign in the schedule profile. The weekday that has been assigned will be displayed with green color.
- **Time List:** Display the time period that you have assigned within the selected weekday. To assign the same time period to every weekday, click **Add this to all weekdays**; click **Delete this from all weekdays** to remove the selected time period from every weekday. Click Delete to remove the selected time period.
- **Start/End Time:** Enter the start and end time and then click **Add** to assign a time period within in the selected weekday.
- Event Configuration >> Motion Detect Trigger

Event Configuration » Motion Detect Trigger		
Motion Detect Trigger (*Please set the corresponding server setting first)		
Enable		
Schedule Profile:	always	
Action: Trigger Out		
Apply Cancel		

• Schedule Profile: Select the Enable option to enable the trigger function of the camera, so that you can send

captured images within the detecting area to the FTP server, email receiver, Network Storage server, or the connected USB device. You have to configure corresponding settings, such as FTP server and email server, to enable this feature. Please note that you have to configure the related settings before enabling these features.

- **Schedule Profile:** Select a schedule profile from the pull-down list.
- Action: Select the destination that the captured images will be sent to: Trigger Out, Record to Network Storage, Send Email, and FTP Upload.

Event Configuration >> Schedule Trigger

Event Configuration » Schedule Trigger		
Email Schedule		
Enable		
Schedule Profile:	always 🔽	
Interval:	20 sec(s)	
FTP Schedule		
Enable		
Schedule Profile:	always 💌	
Interval:	30 sec(s)	
Network Storage Schedule		
Enable		
Schedule Profile:	always 🔽	
Interval:	30 sec(s)	
Apply Car	ncet	

You can separately configure the schedule for trigger function of the camera by **Email**, **FTP**, or **Network Storage**. Select

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the **Enable** option on each item, and then select a **Schedule Profile** from the pull-down list and set the **Interval** time.

NOTE If the setting value of the **Network Storage Recording Time Per Event** option in General Setting is longer than the **Interval** time in Network Storage Schedule, the recorded file will be a continuous video clip.

> For example, if you set the **Network Storage Recording Time Per Event** as 10 seconds and the **Interval** as 5 seconds, recorded file becomes a nonstop video clip because the camera will record a 10second video clip every 5 seconds.

Event Configuration >> GPIO Trigger

Event Configuration » GPIO Trigger		
GPIO Trigger		
Enable Trigger In 1		
Schedule Profile:	always 💌	
Action:	Trigger Out Record to Network Storage Send Email FTP Upload	
Enable Trigger In 2		
Schedule Profile:	always 🔽	
Action:	Trigger Out Record to Network Storage Send Email FTP Upload	
Apply	Cancel	

The GPIO trigger function of the camera allows you to set Trigger Out function or send captured images within the

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detecting area to the Network Storage server, email receiver, or FTP server. You have to configure corresponding settings, such as FTP server and email server, to enable this feature.

- Enable Trigger In 1/2: Select the option to enable the GPIO trigger function of the camera. Then, complete the following options
 - **Schedule Profile:** Select a schedule profile (**Always**, or the profile you have set) from the pull-down list.
 - Action: Select the Trigger Out function or select the destination of the captured image (Record to Network Storage, Send Email, or FTP Upload).

4.9 Tools

The Tools menu provides the commands that allow you to restart or reset the camera. You can also backup and restore your configuration, and upgrade the firmware for the camera.

	DNET	SecurView PoE Dome	Internet Camera TV-IP252P
		Location:	2009/06/06 11:56:22
·ö∵ Live View	System Tools » Tools		
🔅 Setup	Factory Reset		
	Factory reset will restore the device's factory default settings.		
Smart Wizard	Reset		
Basic	System Reboot		
Network	Reboot the device.		
Video/Audio	Reboot		
Event Server	Configuration		
Motion Detect	Backup the device configurations. Click the button bellow and say	ve the device configurations to your	local harddrive.
Event Config	Get the backup file		
Tools	Restore your device's configuration from a backup file. Browse Restore		
Device Info			
	Update Firmware		
	Current Firmware Version: 1.0.0 build:49		
	Select the firmware:		
	Browse Update		
		Copyright © 2009 TREM	IDnet. All Rights Reserved.

- Factory Reset: Click Reset to restore all factory default settings for the camera.
- System Reboot: Click Reboot to restart the camera just like turning the device off and on. The configuration of the camera will be retained after rebooting.
- Configuration: You can save your camera configuration as a backup file on your computer. Whenever you want to

resume the original settings, you can restore them by retrieving the backup file.

- **Backup:** Click **Get the backup file** to save the current configuration of the camera.
- **Restore:** Click **Browse** to locate the backup file and then click **Restore**.
- Update Firmware: You can upgrade the firmware for your camera once you obtained a latest version of firmware.
 - **Current Firmware Version:** This item displays the current firmware version.
 - Select the firmware: Click Browse to locate the backup file and then click Update.

WARNING: Firmware upgrade failure may permanently damage the unit and cause it to malfunction. Do not interrupt the firmware upgrade process by disconnecting it from the network or unplugging its power from the power outlet once the firmware upgrade process has begun. Never perform a firmware upgrade over wireless connections or via remote access connections.

4.10 Information

The Information menu displays the current configuration and events log of the camera.

Setup Ba Ca mart Wizard Loc mart Wizard Loc mart Wizard Loc Vie Setwork MI J J Go / Audio J Ge Gion Detect Ne rent Config IP pols I	ystem Informati nsic mera Name: cation: mware Version: deo & Audio 2464 Resolution: IPEG Resolution:	on » Device Information	Location	: 2009/06/06 11:57:07
Setup Ba Ca mart Wizard Loc mart Wizard Loc mart Wizard Loc Vie Setwork MI J J Go / Audio J Ge Gion Detect Ne rent Config IP pols I	asic mera Name: cation: mware Version: deo & Audio PEG4 Resolution:	1.0.0 build: 49		
mart Wizard Firmasic Vie etwork MJ deo/Audio 3G rent Server Mic otion Detect Ne rent Config IP	mera Name: cation: mware Version: deo & Audio PEG4 Resolution:			
nart Wizard Fin isic Vik atwork MJ deo/Audio 3G ent Server Mic obtion Detect Ne ent Config IP ols IP	cation: mware Version: deo & Audio PEG4 Resolution:			
c Wizard Finner vork MP by/Audio 3G t Server Mic on Detect Ne t Config IP	mware Version: deo & Audio PEG4 Resolution:			
Idio 3GM Iver Mice Netect Net Ifig IP	deo & Audio PEG4 Resolution:			
idio 3Gi ver Mic etect Ne ifig IP	PEG4 Resolution:	VGA		
dio 3G ver Mid stect Ne fig IP 1	A COLORADO A COLORADO A	VGA		
dio 3G ver Mid stect Ne ifig IP I	IPEG Resolution:			
er Mic Spa Lect Ne ig IP A		VGA		
ect Spi g IP I	PP Enable:	Disable		
Ct Ne	crophone In:	Enable		
	eaker Out:	Enable		
IP A	etwork			
	Mode:	DHCP		
	Address:	192.168.1.55		
Sul	bnet Mask:	255.255.255.0		
Det	fault Gateway:	192.168.1.254		
MA	AC Address:	00:FF:17:00:01:06		
Pri	imary DNS Address:	192.168.1.249		
Sec	condary DNS address:			
UP	nP Enable:	Disable		
нт	TP Port:	80		
RT	SP Port:	554		

Information >> Device Info

Display the Basic, Video & Audio, and Network settings of the camera.

Information >> System Log

The Logs table displays the events log recorded by the system.

System Informati	on » Logs
	Refresh
Time	Event
Jun 6 11:28:15	NTP date/time setting fail
Jun 6 11:28:12	Camera service start

CHAPTER 5

SECURVIEW[™] SOFTWARE

This chapter describes detailed instructions on operating SecurView[™] software, a useful friendly application for ease of control and navigation requirement.

5.1 Installation

- 1. Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program.
- 2. Click the **SecurView** From the Auto-Run menu screen



NOTE To use SecurView[™], you must have Microsoft .NET Framework 2.0 installed in the computer. The setup wizard will detect it and, if the program is not installed yet, ask you to install it during the process of installing SecurView[™].

🕫 SecurView ver.1.0.0.8			
For the following components:			
.NET Framework 2.0			
Please read the following license agreement. Press the page down key to see the rest of the agreement.			
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS MICROSOFT NET FRAMEWORK 2.0 MICROSOFT WINDOWS INSTALLER 2.0 MICROSOFT WINDOWS INSTALLER 3.1 Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. If you are licensed to use Microsoft Windows operating system software (the "software"), you may use this supplement. You may not use it if you do not have a license for the software. You may use a copy of this supplement with each validly licensed copy of the software. The following license terms describe additional use terms for this supplement. These terms and the license terms for the software apply to your use of this			
View EULA for printing			
Do you accept the terms of the pending License Agreement?			
If you choose Don't Accept, install will close. To install you must accept this agreement.			
Accept Don't Accept			

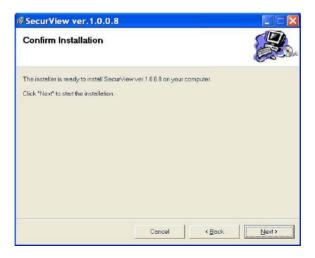
3. Then SecurView Setup Wizard will appear. Click **Next** when the **Welcome to the SecurView Setup Wizard** appears.

SecurView ver.1.0.0.8	
Welcome to the SecurView ver.1.0.0.8 Setup Wizard	
The installer will guide you through the steps required to install SecurView ver.1.0.0.8 on computer.	your
WARNING: This computer program is protected by copyright law and international treat Unauthorized duplication or distribution of this program, or any portion of it, may result in or criminal penalties, and will be prosecuted to the maximum extent possible under the I	severe civil
	Eew.

4. Click **Browse** to choose the desired destination location. By default, the destination location is C:\Program Files\TRENDnet\SecurView. Then click **Next**.

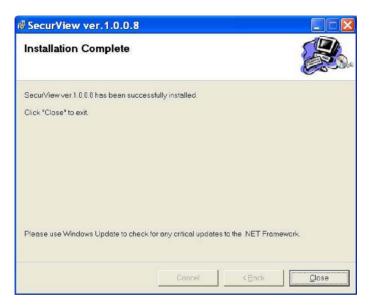
l∛SecurView ver.1.0.0.8	
Select Installation Folder	
The installer will install SecurView ver 1.0.0.8 to the following folder. To install in this folder, click "Next". To install to a different folder, enter it be	elow or click "Browse".
Eolder: C\Program Files\TRENDnet\SecurView\	Browse.
	Disk Cost
Install SecurView ver.1.0.0.8 for yourself, or for anyone who uses this co	mputer.
C Everyone	
☞ Just me	
Cancel < Bac	k Next>

5. Click **Next** to confirm the SecurView software to be installed to the computer

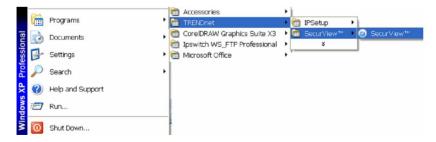


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6. When the **Installation Complete** window appears, click **Close**.



7. After installing the IPSetup utility, the application is automatically installed to your computer, and creates a folder in **Start\Program\TRENDnet\SecurView**.



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5.2 Using Installation

To launch the program, click Start>Program>TRENDnet>SecurView, and then click SecurView™. The main screen will appear as below.

SecurView™			nam oore					
Training Barabart Rooms Training Barabart Rooms Training Barabart Barabart Training Barabart Statement Sta	IP Address	Name	Location	Link	Recording	Recycle	Motion	Trig. In

NOTE Please set the resolution to 1024 x 768 or above on your computer while using SecurViewTM; otherwise, the displayed main screen may be distorted.

Item Features

The following describes the function of each item on the main screen:



SETTING: Click to enter the Setting screen of SecurView[™].

Click again to return to the main screen of SecurView[™].

 Play: Click to play the recorded video file using the media player on the computer (for example, Windows Media Player by default).

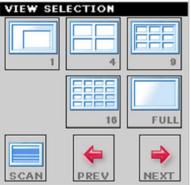


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- Lock: Click to lock the camera controls. Click again to resume controls for the camera. If you have set ID and Password in Setting>Account, you will be asked to enter the required information to unlock.
- ALL RECORD: Click to start recording video clips using ALL connected cameras. To stop recording, please click Record button individual camera. Please note: stop recording only stops the manual recording camera. For Schedule recording, please change the setting on configuration.
- **TIP** By default, the ID and Password boxes are "blank." Click **Setting**>**Account** to change the ID and Password of the lock/unlock function.

VIEW SELECTION Panel



- View mode buttons: SecurView[™] provides multiple view modes, including 1/4/9/16 windows and Full screen mode.

- **Scan:** When multiple cameras connected, click this button to display the video views between cameras. Click the Scan button again to stop scanning.
- **PREV:** When multiple cameras connected, click this button to switch the video view to the previous camera.
- **NEXT:** When multiple cameras connected, click this button to switch the video view to the next camera.
- TIP To set the time interval of scanning, click SETTING > Other and then adjust the time from 1 to 10 seconds in the Time interval of scan option.

CAMERA Panel



- **TRIGGER OUT:** Click to turn on the trigger out connector of the camera. This button is available only when the connected camera supports the trigger out connector, which is used to control the external device connected to the camera, such as a light.
- **SNAPSHOT:** Click to capture a still image using the selected camera and save the file in the computer.

- **RECORD:** Click to start recording a video clip using the selected camera. Click again to stop recording and save the file in the computer.
- **TALK:** Click to speak out through the camera. Please note only one user is allowed to use this function at the same time.
- **LISTEN:** Click to receive the on-site sound and voice from the camera.

SYSTEM Panel SYSTEM TIME 8/15/2007 3:25:29 PM

This panel displays the current date and time.

Video View Window and Camera List



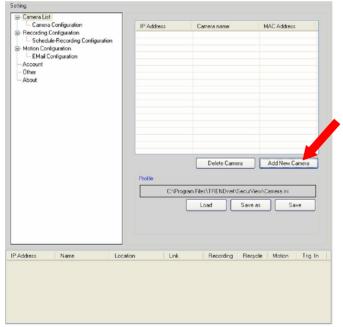
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- Video Viewing Window: This window displays the video view of the selected camera, which can be divided into 4/9/16 windows according to your selection in VIEW SELECTION panel.
- **Camera List:** This list displays the information of the connected camera(s).

To add a camera

1. Click **SETTING** in the CONTROLS panel to display the Setting screen.

2. Click Add New Camera.



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- 3. In the pop-up Add New Camera dialog window, you can:
 - Select the **Search** tab if you are not sure of the camera's IP Address. Click **Search camera** to search for an available camera within the network. Once the camera is found and is shown in the list, select it and click **Add Camera**.

💀 Add new cam	iera	X
Search Input		
IP Address	Camera name	MAC Address
192.168.10.30		00 1a 97 00 00 20
<		>
		Search camera
	Add Ca	mera Cancel

 Select the Input tab to add a camera by entering its IP Address directly. Enter the camera's IP Address (default: 192.168.10.30) and Port (default: 80), and then click Add Camera.

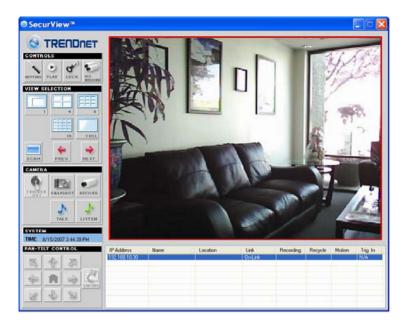
Search Input	×
Search mpor	
IP Address	
192.168.10.30	
Port 80	
	Add Camera Cancel

4. Enter the User name and Password for the camera, and then click OK. The connected camera will be displayed in the Camera's List.

💀 Login		X
UserName		
admin		
Password		_

	OK Cance	

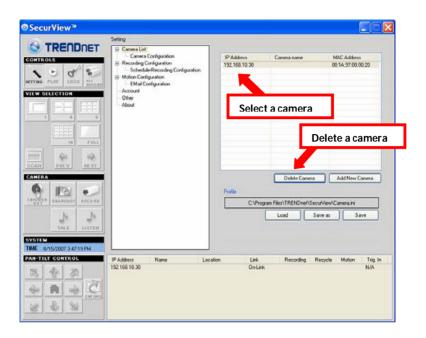
5. Click **SETTING** to return to the Video View Window. The video view of the selected camera will be displayed now.



To remove a camera

1. Click **SETTING** in the CONTROLS panel to display the Setting screen.

2. Select a camera from the list and click Delete Camera.



To link to the Web page of the camera

Click **SETTING>Camera List>Camera Configuration** and then **Link web page** to launch the Web browser that displays live view image and Web Configuration of the selected camera.

Camera List			
Camera Configuration Recording Configuration — Schedule-Recording Configuration Motion Configuration — EMail Configuration Account Other About	IP Address 19216310.30	Camera name	Location
			Link web page
			Link web page

To Record Video

SecurView[™] provides three methods to record video clips: one is to click the **RECORD/All Record** button to record manually; the second is to record by motion detection; the third is to set the recording schedule in **Setting>Recording Configuration>Schedule Recording Configuration**.

Manually record

Click **RECORD/All record** and it starts recording. Click the button again to stop





• Trigger recording by motion detection

When the motion detection function of the selected camera is enabled, you can configure the camera to start recording triggered by the motion detected. Click **SETTING>Motion Configuration**, and then select the **Recording** option to enable the selected camera to record by motion detection.

Setting	
Camera List Camera Configuration Recording Configuration Motion Configuration Configuration Configuration Configuration Configuration Configuration Context	Cameral 192.168.10.30
	Attention: Please double check the Motion-Detection functions of the IP Camera have been enable and set property otherwise related functions will not work.
	Apply

• Schedule Recording Configuration

This recording method will work after you have completed the required settings in the **Schedule Recording Configuration**. The recording schedule can be defined by **Dates** or **Days**.

- Dates: Select the camera from the pull-down list.

Setting	
Camera List L Camera Configuration Recording Configuration Schedule-Recording Configuration	Cameral 19216810.30
Motion Configuration EMail Configuration Account Other About	No. Statt time Select a camera
	Add Schedule Delete Add Apply

- Then, click **Add** to set the Start/Stop date and time and then click **OK** to add the recording schedule to the list.

Add new schedule		×
Start		
Date	Hour Minute	
Thursday , August 16 💌	8 🗢 🛛 🗘	
Stop Date	Hour Minute	
Friday , August 17 💌		
	OK Cancel	

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	92.168.10.30 ays		
No.	Start time	Stop time	
1	8/16/2007 8:00:00 AM	8/17/2007 12:00:0	D PM
	-		
	L	Delete	Add
			Apply

- Click Apply to save the settings.

Days: First, select the camera from the pull-down list and select **Days** tab. Then, select the weekday from the day buttons and then set the time period. Click **Apply** to save the settings.

Camera1 192.168.10	0.30			*
Dates Days				
Sun Mon	Tue Wed	Thu Fri	Sat	
00:00-00:30 00:30-01:00 01:00-01:30 02:00-02:30 02:30-03:00 03:00-03:30 03:30-04:00 04:00-04:30 04:00-04:30 04:00-05:00 05:00-05:30 05:30-06:00 06:00-06:30 06:30-07:00 07:00-07:30	 07:30-08:00 08:00-08:30 09:00-09:30 09:30-010:00 10:00-10:30 10:00-11:30 11:00-11:30 11:00-12:30 12:00-12:30 13:00-13:30 13:00-13:30 13:00-14:00 14:00-14:30 14:30-15:00 	15:00-15:30 15:30-16:00 16:00-16:30 18:30-17:00 17:00-17:30 17:30-18:00 18:00-18:30 18:30-19:00 19:30-20:00 20:30-21:00 21:00-21:30 21:30-22:00 22:00-22:30	22:30-23:00 23:00-23:30 23:30-00:00	
<				>
Fetch Template	Paste Templat	e	Clear	
			Apply	

To configure the recording settings

To configure the recording settings, including the storage folder and storage options, click **SETTING**>**Recording Configuration**.

Setting	
Camera List — Camera Configuration	Recording File Path
Recording Configuration	C:\Program Files\TRENDnet\SecurView
Schedule-Recording Configuration Motion Configuration Call Configuration Account Other About	Browse Each Recording File Size 20 MB Reserved HDD space for each camera 1000< MB HDD Free space: 106891 MB Enable Recycle Recording
	Cam1 Cam5 Cam9 Cam13
	Cam2 Cam6 Cam10 Cam14
	Cam3 Cam7 Cam11 Cam15
	Cam4 Cam8 Cam12 Cam16
	Арріу

- Recording File Path: To change the destination folder to save the recorded video file, click Browse under the Recording File Path box to assign a new folder.
- Each Recording File Size: This option allows you to select from 20 to 100 MB so that the video will be recorded as another file automatically when the recording file reaches the specified size limit.
- Reserved HDD space for each camera: This option allows you to set to reserve the storage space on the hard disk drive for the recording of each camera. Before setting the reserve space on the hard disk drive, you can check the available storage space that is displayed in the HDD Free space field.

• Enable Recycle Recording: Click on the camera number to clear the files when the unreserved space of the hard disk drive is full.

To playback the recorded video

The recorded video clips are saved in your computer, and can be played using the media player on the computer, such as Windows Media Player.

To start playback, simply click the **PLAY** button on the CONTROLS panel, and the following dialog screen will appear, allowing you to select the file to playback.

Select a r	ecording fil	e to playback	<u>.</u>	? 🗙
Look jn:	🚞 SecurView		💌 G 🖻 🖻	-
My Recent Documents	☐ 192.168.10.3	30_80		
Desktop				
My Documents				
My Computer				
	File <u>n</u> ame:		~	<u>O</u> pen
My Network	Files of type:	AVI File(".avi)	*	Cancel

Select the recorded video file under the [camera] path and then click **Open** to launch the media player to playback.

NOTE If your player on the computer does not have a video codec to playback the recorded video, you can download

the video code from http://www.xvid.org/downloads.15.0.html to support.

To set up motion detection options

When the motion detection function of the selected camera is enabled, you can set the Motion Options by selecting **Alarm**, **Recording**, **Send e-Mail**, and **Trigger Out** under **SETTING**> **Motion Configuration**.

otion Options Alarm Beep	
	Browse
Recording	
✓ Send e-Mail	
Trigger Out	
Attention: Please double check the Motion-Dete functions of the IP Camera have been enable ar property, otherwise related functions will not work	nd set
	Apply

• Alarm: Select Beep or Music to alert you for the motion detected. When you select Music, you can customize the sound by clicking Browse and then selecting your favorite music (*.wav or *.mp3 file) in the computer.

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- **Recording:** Select this option to enable the camera to record by motion detected.
- Send Email: Select this option so that the system will be able to send an email to the specified receiver. Once the option is selected, you have to complete the required information in SETTING>Motion Configuration>Email Configuration.

Mail Server:	
Mail From:	
Mail To:	
User Name:	
Password	
Subject:	
	Apply

- Mail Server: Enter the mail server address. For example, <u>mymail.com</u>.
- Mail From: Enter the email address of the user who will send the email. For example, John@mymail.com.
- **Mail To:** Enter the email address of the user who will receive the email.
- **User Name:** Enter the user name to login the mail server.

- **Password:** Enter the password to login the mail server.
- **Subject:** Enter a subject for the notification email.
- Trigger Out: If the selected camera supports Trigger Out connector, select this option to enable the Trigger out function.

Account

Click **SETTING**>**Account** to setup the username & password to lock & unlock the main screen of the SecurView.

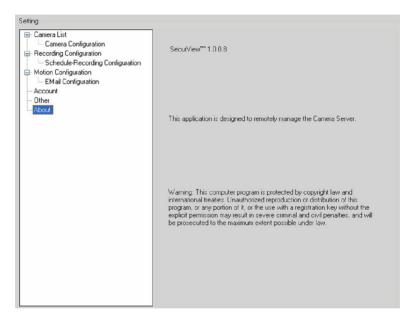
Other

Click **SETTING>Other** to setup the scanning time between cameras. The default setting is 2 seconds. You can set the interval time between 2 ~ 20 seconds.

⊒-Camera List └─ Camera Configuration ⊒-Recording Configuration └─ Schedule-Recording Configuration	Time interval of scan	
 Motion Configuration 	2 Seconds	
EMail Configuration		
Other		
About		

Information

Click **SETTING**>**About** to display the information of the software application.



CHAPTER 6

APPENDIX

A.1 Specification

• System Hardware

- **Processor** ARM9 base
- RAM 32MB SDRAM
- ROM 8MB NOR Flash
- Power DC 12V
- Image Sensor
 - Sensor 1/4" Low Lux CMOS sensor; minimum illumination @ 0.1 LUX
 Resolution 640 x 480

• Lens Assembly

- Lens Type Board Lens
- Aperture (F/No.) 2.0
- Focus Length 4.2 mm
- View Angle (Diagonal) 60 degree
- Video
 - Compression MPEG4/MJPEG
 - Exposure Control Auto
 - White Balance Auto
 - Gain control Auto
 - Video Resolution VGA/QVGA/QQVGA; 30 fps max.
- Communication
 - LAN 10/100Mbps Fast Ethernet, auto-sensed; Auto-MDIX

- **Protocol** TCP/IP, UDP, ICMP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP, Samba, PPPoE, UPnP, Bonjour, RTP, RTSP, RTCP
- User Interface
 - LAN One RJ-45 port
 - Reset One Reset button
 - **GPIO** 2 in / 1 out
 - **TV Out** BNC connecter, 1 Vp-p, 75 Ohms
 - Switches One Power LED switch; one Link LED switch
 - LEDs One Power LED (amber); one Link LED (green)
- Audio

-	Input	External microphone jacl	<
---	-------	--------------------------	---

- **Output** Headphone output jack (Mono)
- Codec PCM/AMR (AMR is for 3GPP only)
- Software
 - **OS Support** Windows 2000/XP/Vista
 - Browser Internet Explorer 6.0 or above
 - **Software** SecurView[™] for playback/recording/ configuration features

• Operating Environment

- **Temperature** Operation: 0°C ~ 45°C
 - Storage: -15°C ~ 60°C
- **Humidity** Operation: 20% ~ 85% non-condensing; storage: 0% ~ 90% non-condensing
- EMI

FCC Class B, CE Class B

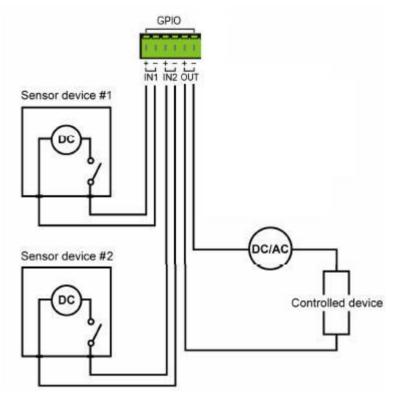
A.2 Glossary of Terms

Typically used in association with programming scripts for developing applications for motion detection, event triggering, alarm notification via e-mail, and a variety of external control functions. The 6-pin I/O Terminal Block is located on the rear panel and provides the interface to: a photo-coupled switch output, a photo-coupled input.

PIN	FUNCTION	SPECIFICATION	
IN1+	Photo-Relay INPUT (+)	Active High voltage 9~40VDC Dropout	
IN1-	Photo-Relay INPUT (-)	voltage 0 VDC.	
IN2+	Photo-Relay INPUT (+)	Active High voltage 9~40VDC Dropout	
IN2-	Photo-Relay INPUT (-)	voltage 0 VDC.	
OUT+	Photo-Relay OUTPUT (Normal Open)	Close circuit current maximum 70mA AC or 100mA DC. Output resistance 30 Ohm.	
OUT-	Photo-Relay OUTPUT (Common)	Open circuit voltage maximum 240V AC or 350V DC.	

Connector Pin Assignment

Interface Schematic



A.3 Glossary of Terms

<u>NUMBERS</u> 10BASE-T 100BASE-TX	10BASE-T is Ethernet over UTP Category III, IV, or V unshielded twisted-pair media. The two-pair twisted-media implementation of 100BASE-T is called 100BASE-TX.
A	
ADPCM	Adaptive Differential Pulse Code Modulation, a new technology improved from PCM, which encodes analog sounds to digital form.
AMR	AMR (Adaptive Multi-Rate) is an audio data compression scheme optimized for speech coding, which is adopted as the standard speech codec by 3GPP.
Applet	Applets are small Java programs that can be embedded in an HTML page. The rule at the moment is that an applet can only make an Internet connection to the computer form that the applet was sent.
ASCII	American Standard Code For Information Interchange, it is the standard method for encoding characters as 8- bit sequences of binary numbers, allowing a maximum of 256 characters.
ARP	Address Resolution Protocol. ARP is a protocol that resides at the TCP/IP Internet layer that delivers data on the same network by translating an IP address to a physical address.
AVI	Audio Video Interleave, it is a Windows platform audio and video file type, a common format for small movies and videos.

<u>В</u> ВООТР

Bootstrap Protocol is an Internet protocol that can automatically configure a network device in a diskless workstation to give its own IP address.

<u>C</u>

- **Communication** Communication has four components: sender, receiver, message, and medium. In networks, devices and application tasks and processes communicate messages to each other over media. They represent the sender and receivers. The data they send is the message. The cabling or transmission method they use is the medium.
- **Connection** In networking, two devices establish a connection to communicate with each other.

D DHCI

DHCP Developed by Microsoft, DHCP (Dynamic Host Configuration Protocol) is a protocol for assigning dynamic IP addresses to devices on a network. With dynamic addressing, a device can have a different IP address every time it connects to the network. In some systems, the device's IP address can even change while it is still connected. It also supports a mix of static and dynamic IP addresses. This simplifies the task for network administrators because the software keeps track of IP addresses rather than requiring an administrator to manage the task. A new computer can be added to a network without the bassle of manually assigning it a unique IP address. DHCP allows the specification for the service provided by a router, gateway, or other network device that automatically assigns an IP address to any device that requests one. DNS Domain Name System is an Internet service that translates domain names into IP addresses. Since

domain names are alphabetic, they're easier to

remember. The Internet however, is really based on IP addresses every time you use a domain name the DNS will translate the name into the corresponding IP address. For example, the domain name *www.network_camera.com* might translate to 192.167.222.8.

<u>E</u> Enterprise network	An enterprise network consists of collections of networks connected to each other over a geographically dispersed area. The enterprise network serves the needs of a widely distributed company and operates the company's mission-critical applications.
Ethernet	The most popular LAN communication technology. There are a variety of types of Ethernet, including 10Mbps (traditional Ethernet), 100Mbps (Fast Ethernet), and 1,000Mbps (Gigabit Ethernet). Most Ethernet networks use Category 5 cabling to carry information, in the form of electrical signals, between devices. Ethernet is an implementation of CSMA/CD that operates in a bus or star topology.
E	
Fast Ethernet	Fast Ethernet, also called 100BASE-T, operates at 10 or 100Mbps per second over UTP, STP, or fiber-optic media.
Firewall	Firewall is considered the first line of defense in protecting private information. For better security, data can be encrypted. A system designed to prevent unauthorized access to or from a private network. Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially Intranets all messages entering or leaving the intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.

G	
Gateway	A gateway links computers that use different data formats together.
Group	Groups consist of several user machines that have similar characteristics such as being in the same department.
<u>Н</u> HEX	Short for hexadecimal refers to the base-16 number system, which consists of 16 unique symbols: the numbers 0 to 9 and the letters A to F. For example, the decimal number 15 is represented as F in the hexadecimal numbering system. The hexadecimal system is useful because it can represent every byte (8 bits) as two consecutive hexadecimal digits. It is easier for humans to read hexadecimal numbers than binary numbers.
l	
Intranet	This is a private network, inside an organization or company that uses the same software you will find on the public Internet. The only difference is that an Intranet is used for internal usage only.
Internet	The Internet is a globally linked system of computers that are logically connected based on the Internet Protocol (IP). The Internet provides different ways to access private and public information worldwide.
Internet address	To participate in Internet communications and on Internet Protocol-based networks, a node must have an Internet address that identifies it to the other nodes. All Internet addresses are IP addresses
IP	Internet Protocol is the standard that describes the layout of the basic unit of information on the Internet (the <i>packet</i>) and also details the numerical addressing format used to route the information. Your Internet service provider controls the IP address of any device it connects to the Internet. The IP addresses in your -97 -

network must conform to IP addressing rules. In smaller LANs, most people will allow the DHCP function of a router or gateway to assign the IP addresses on internal networks.

- IP address IP address is a 32-binary digit number that identifies each sender or receiver of information that is sent in packets across the Internet. For example 80.80.80.69 is an IP address. When you "call" that number, using any connection methods, you get connected to the computer that "owns" that IP address.
- ISP ISP (Internet Service Provider) is a company that maintains a network that is linked to the Internet by way of a dedicated communication line. An ISP offers the use of its dedicated communication lines to companies or individuals who can't afford the high monthly cost for a direct connection.

<u>J</u> .14V4

Java is a programming language that is specially designed for writing programs that can be safely downloaded to your computer through the Internet without the fear of viruses. It is an object-oriented multi-thread programming best for creating applets and applications for the Internet, Intranet and other complex, distributed network.

<u>L</u> LAN

Local Area Network a computer network that spans a relatively small area sharing common resources. Most LANs are confined to a single building or group of buildings.

м	
MJPEG	MJPEG (Motion JPEG) composes a moving image by storing each frame of a moving picture sequence in JPEG compression, and then decompressing and displaying each frame at rapid speed to show the moving picture.
MPEG4	MPEG4 is designed to enable transmission and reception of high-quality audio and video over the Internet and next-generation mobile telephones.
<u>N</u>	
NAT	Network Address Translator generally applied by a router that makes many different IP addresses on an internal network appear to the Internet as a single address. For routing messages properly within your network, each device requires a unique IP address. But the addresses may not be valid outside your network. NAT solves the problem. When devices within your network request information from the Internet, the requests are forwarded to the Internet under the router's IP address. NAT distributes the responses to the proper IP addresses within your network.
Network	A network consists of a collection of two or more devices, people, or components that communicate with each other over physical or virtual media. The most common types of network are:
	LAN – (local area network): Computers are in close distance to one another. They are usually in the same office space, room, or building.
	WAN – (wide area network): The computers are in different geographic locations and are connected by telephone lines or radio waves.
NWay Protocol	A network protocol that can automatically negotiate the highest possible transmission speed between two devices.

<u>P</u>	
PCM	PCM (Pulse Code Modulation) is a technique for converting analog audio signals into digital form for transmission.
PING	Packet Internet Groper, a utility used to determine whether a specific IP address is accessible. It functions by sending a packet to the specified address and waits for a reply. It is primarily used to troubleshoot Internet connections.
ΡΡΡοΕ	Point-to-Point Protocol over Ethernet. PPPoE is a specification for connecting the users on an Ethernet to the Internet through a common broadband medium, such as DSL or cable modem. All the users over the Ethernet share a common connection.
Protocol	Communication on the network is governed by sets of rules called protocols. Protocols provide the guidelines devices use to communicate with each other, and thus they have different functions. Some protocols are responsible for formatting and presenting and presenting data that will be transferred from file server memory to the file server's net work adapter Others are responsible for filtering information between networks and forwarding data to its destination. Still other protocols dictate how data is transferred across the medium, and how servers respond to workstation requests and vice versa. Common network protocols responsible for the presentation and formatting of data for a network operating system are the Internet Protocol (IP). Protocols that dictate the format of data for transferors the medium include token-passing and Carrier Sense Multiple Access with Collision Detection (CSMA/CD), implemented as token-ring, ARCNET, FDDI, or Ethernet. The Router Information Protocol (RIP),a part of the Transmission Control Protocol/Internet Protocol (TCP/IP) suite, forwards packets from one network to another using the same network protocol.

<u>R</u>	
RJ-45	RJ-45 connector is used for Ethernet cable connections.
Router	A router is the network software or hardware entity charged with routing packets between networks.
RTP	RTP (Real-time Transport Protocol) is a data transfer protocol defined to deliver live media to the clients at the same time, which defines the transmission of video and audio files in real time for Internet applications.
RTSP	RTSP (Real-time Streaming Protocol) is the standard used to transmit stored media to the client(s) at the same time, which provides client controls for random access to the content stream.
<u>S</u>	
Server	It is a simple computer that provides resources, such as files or other information.
SIP	SIP (Session Initiated Protocol) is a standard protocol that delivers the real-time communication for Voice over IP (VoIP), which establishes sessions for features such as audio and video conferencing.
SMTP	The Simple Mail Transfer Protocol is used for Internet mail.
SNMP	Simple Network Management Protocol. SNMP was designed to provide a common foundation for managing network devices.
Station	In LANs, a station consists of a device that can communicate data on the network. In FDDI, a station includes both physical nodes and addressable logical devices. Workstations, single-attach stations, dual- attach stations, and concentrators are FDDI stations.
Subnet mask	In TCP/IP, the bits used to create the subnet are called the subnet mask.

I	
(TCP/IP)	Transmission Control Protocol/Internet Protocol is a widely used transport protocol that connects diverse computers of various transmission methods. It was developed y the Department of Defense to connect different computer types and led to the development of the Internet.
Transceiver	A transceiver joins two network segments together. Transceivers can also be used to join a segment that uses one medium to a segment that uses a different medium. On a 10BASE-5 network, the transceiver connects the network adapter or other network device to the medium. Transceivers also can be used on 10BASE-2 or 10BASE-T networks to attach devices with AUI ports.
<u>U</u>	
UDP	The User Datagram Protocol is a connectionless protocol that resides above IP in the TCP/IP suite
User Name	The USERNAME is the unique name assigned to each person who has access to the LAN.
Utility	It is a program that performs a specific task.
UTP	Unshielded twisted-pair. UTP is a form of cable used by all access methods. It consists of several pairs of wires enclosed in an unshielded sheath.

W

- WAN Wide-Area Network. A wide-area network consists of groups of interconnected computers that are separated by a wide distance and communicate with each other via common carrier telecommunication techniques.
- WEP WEP is widely used as the basic security protocol in Wi-Fi networks, which secures data transmissions using 64-bit or 128-bit encryption.

Windows	Windows is a graphical user interface for workstations that use DOS.
WPA	WPA (Wi-Fi Protected Access) is used to improve the security of Wi-Fi networks, replacing the current WEP standard. It uses its own encryption, Temporal Key Integrity Protocol (TKIP), to secure data during transmission.
WPA2	Wi-Fi Protected Access 2, the latest security specification that provides greater data protection and network access control for Wi-Fi networks. WPA2 uses the government-grade AES encryption algorithm and IEEE 802.1X-based authentication, which are required to secure large corporate networks.

Limited Warranty

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TV-IP252P – 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

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