User's Guide





HD Wireless Day / Night PTZ Cloud Camera

TV-IP862IC

Table of Contents

Contents

Product Overview	1
Package Contents	1
Features	1
Product Hardware Features	2
Wall Mount Installation	3
Installation, Using the AutoRun Wizard	3
Option A, Connect camera to your network using a network cable	5
Option B, Connect Camera to your wireless network using WPS (Wi-Fi Protected Setup) button	8
Option C, Connect Camera to your Wireless Network Manually	11
Starting the TRENDnet Cloud Service	15
Cloud Mode 1:	17
Cloud Mode 2:	17
Cloud Mode 3:	18
Cloud Service Interface and configuration	18
Mobile Apps	23
Find the IP address of your camera(s)	25
Web Browser Management	25
Main Web User Interface	30
Camera Toolbar	30
Setup	31
Wizard	31
Step 1: LAN Settings	31
Step 2: Internet Settings	32
Step 3: DDNS Settings	32
Step 4: Camera Name Settings	33
Step 5: Time Settings	33
Step 6: Setup Complete	34

Admin
Time and Date
Network
LAN Settings
Wireless Setup
Dynamic DNS 40
Cloud Setting 41
Cloud Status 42
Audio/Video Setting
Image Setup 44
Action
Recording
Video Clip 49
Snapshot
Preset Position
Patrol Position
SD Management 52
Motion Detection
Sound Detection54
Tools
System
Firmware Upgrade
Advanced56
TRENDnetVIEW Pro Software 58
Troubleshooting59

Product Overview





TV-IP862IC

Package Contents

In addition to your camera, the package includes:

- Multi-Language Quick Installation Guide
- CD-ROM (Utility & User's Guide)
- Network cable (1.8m / 6ft)
- Power adapter (12V DC, 1A) (1.5m / 5ft)

If any package contents are missing or damaged, please contact the retail store, online retailer, or reseller/distributor that the item was purchased from.

Features

TV-IP862IC

The TV-IP862IC records at 1280 x 720 pixels (720P HD), 30 FPS (frames per second). You can manage up to 32 TRENDnet cameras with the included complimentary camera management software. The TV-IP862IC also includes adjustable motion detection recording areas, email alerts, scheduled recording sessions, Pan/Tilt auto-patrol, date-and-time overlays, two-way audio, an adjustable lens, and four times digital zoom. A wall/ceiling mounting kit is included and the camera's off white housing blends into most environments.

Easy Installation

The TV-IP862IC includes a CD-ROM with a setup wizard that guides you through the installation process.

Wide Platform Support

The TV-IP862IC supports TCP/IP networking, HTTP, and other Internet related protocols. The TV-IP862IC can be integrated easily into other Internet/Intranet applications because of its standards-based features.

10/100 Ethernet Support

The TV-IP862IC supports 10/100 Ethernet.

Web Configuration

Once setup is complete, administrators can use a standard web browser to access images and video, configure the camera over an intranet or over the Internet. Administration via web browser over the Internet means the IP camera can be accessed and administered from anywhere in the world.

Broad Range of Applications

With today's high-speed Internet connections, many scenarios for the application of your network camera exist, including industrial and public monitoring of properties such as homes, offices, banks, hospitals, child-care centers and amusement parks.

Pan & Tilt

The TV-IP862IC can pan side to side at a remarkable 330 degrees and tilt 115 degrees. **Recording Quality**

The TV-IP862IC can record 1280x720 (720p HD) video resolution.

Product Hardware Features

Rear Panel View

WPS Button

Micro SD Slot

Reset Button

Line Out

Power Port



• **Power Port** – Connect the included power adapter from your camera to an available power outlet.

Note: Use only the adapter that came with your camera.

• **Reset Button** – Use an item such as a paperclip to push and hold this button for 5 seconds and release to reset your camera to its factory defaults.

Rear Air

Antenna

Ethernet Port

WPS Indicator Light

- WPS (Wi-Fi Protected Setup) Push and hold this button for 5 seconds to activate WPS. The button LED is blinking green when WPS is activated.
- Antenna 2dBi detachable antenna.
- Line Out Connects an external active speaker
- Micro SD Slot Insert a micro SD card into this slot to store video/image data.
- Rear Air Vent This is to cool the TV-IP862IC and dissipate heat.

Front Panel View



- IR LED Built-in 6 IR LED, 850nm, for night vision uses. (for TV-IP862IC)
- Light Sensor Detects the light source to turn IR on or off.
- Focus Ring Turn to adjust the focus of the camera.
- Microphone Built-in microphone for audio can be turned on or off.
- **Power** This LED indicator is solid blue when your camera is powered on. Otherwise, if this LED indicator is off, there is no power to your camera.
- Link This LED indicator is blinking green when there is connection/data to your camera.
- Camera Lens Focal Length: 4.6 mm, F2.0; Focal Depth: 20 cm infinity

TV-IP862IC

Wall Mount Installation

Please do not mount the camera until after you complete the installation steps from the CD-ROM. Temporarily place the camera next to your computer.

To attach the metal plates, carry out the following:

- Remove the two rubber pads under the base of the Camera.
- Slide the metal plate onto the base of the camera, making sure that the two holes on the base of the camera align with the two screw holes on the base of the camera.
- Secure the metal plate to the base of the Camera with the two screws provided.
- The camera can now be mounted to the ceiling or a wall. See the diagram below for more information.



Installation, Using the AutoRun Wizard

Insert the included CD-ROM into your CD/DVD drive. The **Install Wizard** program will run automatically.

Note: If the Install Wizard does not run, you may have **autorun** disabled on your machine. In this case, browse to the CD drive and run **InstallWizard.exe** to begin the installation wizard.

Begin by selecting a language from the drop-down list. There is a choice of five languages – English, French, German, Spanish, and Russian.

Next, click Install Camera and follow the on-screen steps to continue the installation.



1. This is TRENDnet's Terms of Use. Click Agree to continue.



 The next step references information on the camera itself. Go to your camera and check the details at the bottom of the device. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu. Also enclosed, is a sticker with the same details attached.



- 3. The most important part of the setup process is the network connection type. There are three options:
 - a. Connect camera to your network using a network cable

Attention	
Before starting the WPS Installation method, confirm you	ir router has already been setu
WPS installation method will not work. To connect to a w	protected with a security key, if ireless network which is not
secured with a wireless security key, we recommend sel wireless network manually. Please refer to your router U key protection.	ecting Connect camera to you ser's Guide to setup a security
Connect camera to your network using a network cable	
Connect camera to your wireless network using Wi-Fi	Protected Setup (WPS) button
(Verify your router has a WPS button. If not, select the	next option)
wps	
Connect camera to your wireless network manually	

 b. Connect camera to your wireless network using Wi-Fi Protected Setup (WPS) button (Verify your router has a WPS button. If not, select the next option).



c. Connect camera to your wireless network manually.



Option A, Connect camera to your network using a network cable

1. The basic connection type is "**A**" using a network cable. Let's begin the installation process using the network cable connection first. Click this **radio button** and click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu**.



Follow the instructions in the next screen to Power up the Camera. Connect one end of the power adapter to the camera and watch the LED flicker. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.



3. Connect one end of the network cable to your camera and the other end to your router. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu**.



4. The wizard searches the network for your camera.



5. If you only have one camera on your network, the wizard will automatically select it (as shown below). Otherwise, if you have more than one camera, it provides several options from the list. The wizard provides the **Model Name** and **MAC Address** of the camera. If you do not see any of your camera(s) in the wizard, click **Retry** to scan for the camera again. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu**.

Select your car	mera
The following came Camera you are go	ras were detected on your network. Check the MAC address of the IP ing to setup and select it from the list.
Model	MAC address
TV-IP862IC	D8EB97D22AA6
lf you don't see your confirm your compu	camera's MAC address: confirm that the camera is powered up, ter is connected to your network, and then click the Refry button.

6. Password Settings. Follow the instructions on the screen. The default username and password is admin. Tick the Change Password checkbox to enter the new password details. The password should be between 8 and 16 characters. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.

It password of the camera.		
idmin		
ist be between 8 and 16 characte Iphanumeric: a-z, A-Z, 0-9; Speci	ers al Characters: !, @	Q, #, \$, %)
admin		
•••••		
u have already changed the password, i	incheck the box.)	
•••••		
•••••		
	Back	Next
	ult password of the camera. admin ust be between 8 and 16 charact sphanumeric: a-z, A-Z, 0-9; Speci admin contained and the password, of contained the password, of contained the password, of	ult password of the camera. admin ust be between 8 and 16 characters sphanumenc: a-z, A-Z, 0-9; Special Characters: I, (admin

If you have entered the incorrect admin details, you are prompted to change the configuration, as shown below.

ange passwor			
ou MUST change the	default password of the camera.		
Enter the default passw	vord: admin		
Enter your new passwo	rd: must be between 8 and 16 characters		
	(Alphanumeric: a-z, A-Z, 0-9; Special Cl Install Wizard	haracters: !, @	D, #, \$, %
Admin ID	Invalid Admin ID or password. Please verify and try again	14	
Password	ок		
Change Passwor	d (If you have already changed the password, unche	ck the box.)	
New password	•••••		
Confirm new passw	ord ••••••		
Confirm new passw	ord •••••		
			_

If the password length is less than 8 characters, you are also prompted to alter the configuration, as shown below.

🕘 Install Wizard			
Change password	Change password		
You MUST change the o	lefault password of the camera.		
Enter the default passwo	ord: admin		
Enter your new passwor	d: must be between 8 and 16 characte	rs	
	(Alphanumeric: a-z, A-Z, 0-9; Specia Install Wizard	al Characters: I, (D, #, \$, %)
Admin ID	The minimum length of the new password is 8 chara	cters.	
Password	ОК		
Change Password	Change Password (If you have already changed the password, uncheck the box.)		
New password	•••••		
Confirm new passwo	тс •••••		
Home		Back	Next

7. The wizard configures your parameters.



8. The initial setup is complete. The main feature is the Cloud Access accessibility feature. Click the link(s) or icon below to create a shortcut on your desktop. Also, below the icon is a warning. This warning is only shown when the Internet connection is inactive or the Cloud server cannot be found. Make sure the Internet connection is active, click **Retry**. If the Cloud server isn't found, the server may be busy or under maintenance. Under these circumstances, click **Retry** later again. If there is no warning, click **Next**.

Please refer to **Starting the TRENDnet Cloud Services** section for additional Cloud service information.

Install Wizard		
Initial setup is complete!		
Cloud Access from any Computer		
This unique URL provides access to this camera connection. Please install ActiveX or Plug-in whe the web browser. http://73859116.cam.trenchetcloud.com	only, from any internet	
Click icon to create a desktop shortcut.		
Attention		
Cloud server not found, please verify your interne Cloud server may be busy or under maintenance	t connection is active, and the , please try again later.	en click "Retry".
Home	Retry	Next
connection. Please install ActiveX or Plug-in whe the web browser. Intro/173850116 cam trendhetcloud com Click icon to create a desktop shortcut.	n you are prompted by the second s	en click "Retry".

Click on the product image to create a shortcut on the desktop. A shortcut will be created.



Click the link provided to browse the settings in the browser.

TV-IP862IC

 Scan the barcode to download the TRENDnet CloudView App for Apple iOS or Android^{™1}. The app can also be found by searching TRENDnet from the Apple App Store or Google Play^{™2}.

Please refer to **Mobile Apps** section for additional app features information.



You are now ready to use your camera. Click Finish to exit.

¹ Android is a trademark of Google Inc.

Option B, Connect Camera to your wireless network using WPS (Wi-Fi Protected Setup) button

Tick the WPS option

🔋 Install Wizard	3
Network connection and initial setup method	
Attention Before starting the WPS Installation method, confirm your router has already been setup with a wireless security key. If your wireless router is not protected with a security key, the WPS installation method will not work. To connect to a wireless network which is not secured with a wireless security key, we recommend selecting <i>Connect camera to your</i> wireless network manually. Please refer to your router User's Guide to setup a security key work chain.	
Connect camera to your network using a network cable Connect camera to your wireless network using Wi-Fi Protected Setup (WPS) button (Verify your router has a WPS button. If not, select the next option)	
Connect camera to your wireless network manually	
Home Back Next	

Please consider these points before using WPS.

- Find the access point (AP) or wireless router you wish to connect to from the **Available AP** drop down menu.
- In most cases you should leave the **Channel** set to **Auto** as the AP will determine the channel of operation.
- Select the type of **authentication** and **encryption** required by the access point and enter the **Key** required to connect.

Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.

Please read the next steps carefully as it pertains to the WPS feature on your router and camera.

² Google Play is a trademark of Google Inc.

 Follow the instructions on the screen to Power up the Camera. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.



Follow the instructions and click **Next** to continue. If you wish to go to the previous screen, click **Back** or **Home** to return to the main menu.



2. The wizard will now search for your camera.



3. If you only have one camera on your network, the wizard will automatically select it (as shown below). Otherwise, if you have more than one camera, it provides several options from the list. The wizard provides the **Model Name** and **MAC Address** of the camera. If you do not see any of your camera(s) in the wizard, click **Retry** to scan for the camera again. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu**.



TV-IP862IC

TV-IP862IC

TRENDnet User's Guide

4. **Password Settings.** Follow the instructions on the screen. The default username and password is **admin**. Click the **Change Password** checkbox to enter the new password details. The password should be between 8 and 16 characters. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu**.

③ Install Wizard			
Change password			
You MUST change the default passw	ord of the camera.		
Enter the default password: admin			
Enter your new password: must be be (Alphanum	tween 8 and 16 character eric: a-z, A-Z, 0-9; Specia	's I Characters: !, @	<u>0</u> , #, \$, %)
Admin ID	admin		
Password	•••••		
Change Password (If you have alr	eady changed the password, ur	check the box.)	
New password	•••••		
Confirm new password	•••••		
Home		Back	Next

5. The wizard will now configure your parameters.



6. The initial setup has been completed. The main feature is the Cloud Access accessibility feature. Click the link(s) or icon below to create a shortcut on your desktop. Also, below the icon is a warning. This warning is only shown when the Internet connection is inactive or the Cloud server cannot be found. Make sure the Internet connection is active, click **Retry**. If the Cloud server isn't

found, the server may be busy or under maintenance. Under these circumstances, click **Retry** later again. If there is no warning, click **Next**.

Please refer to **Starting the TRENDnet Cloud Services** section for additional Cloud service information.



 Scan the barcode to download the TRENDnet CloudView App for Apple iOS or Android[™]. The app can also be found by searching TRENDnet from the Apple App Store or Google Play[™].

Please refer to **Mobile Apps** section for additional app features information.



You are now ready to use your camera. Click Finish to exit.

Option C, Connect Camera to your Wireless Network





 Follow the instructions in the next screen to Power up the Camera. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.



2. Connect one end of the network cable to your camera and the other end to your router. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu.**



3. The wizard will now search the network for your camera.



TV-IP862IC

TRENDnet User's Guide

4. If you only have one camera on your network, the wizard will automatically select it (as shown below). Otherwise, if you have more than one camera, it provides several options from the list. The wizard provides the Model Name and MAC Address of the camera. If you do not see any of your camera(s) in the wizard, click Retry to scan for the camera again. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.

③ Install \	Wizar d				
Sele	ct your camera				
The Can	The following cameras were detected on your network. Check the MAC address of the IP Camera you are going to setup and select it from the list.				
	Model	MAC address			
c	TV-IP862IC	D8EB97D22AA6			
lf yo cont	u don't see your came îrm your computer is c	ra's MAC address: confirm that the onnected to your network, and the	e camera is powered n click the Retry butto	up, In.	
Но	me	Retry	Back	Next	

5. Password Settings. Follow the instructions on the screen. The default username and password is admin. Click the Change Password checkbox to enter the new password details. The password should be between 8 and 16 characters. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.

🛞 Install Wizard	
Change password	
You MUST change the default p	bassword of the camera.
Enter the default password: adr	nin
Enter your new password: must (Alpt	be between 8 and 16 characters Ianumeric: a-z, A-Z; 0-9; Special Characters: I, @, #, \$, %)
Admin ID	admin
Password	•••••
Change Password (If you h	ave already changed the password, uncheck the box.)
New password	•••••
Confirm new password	••••••
Home	Back Next

6. The wizard will now configure your parameters.



 Once your wireless network has been discovered, the wizard will provide you with an option to select the Available Wireless Network and also to provide a Wireless Network Password. If you do not see your wireless network details, click the Rescan link to scan the network again.

🖲 Insta	all Wizard			
Co	nnect camera to vour w	vireless netw	ork	
		In Münchenen Minkeren	han alaman di sume Kark	
5	elect your network from the Availab	le wireless Network	ks arop down list	
	Available Wireless Networks	0001	Rescan	
	Wireless Network Password	0001	^	
	Wileless Network Password	0002		
		0004		
		0005		
		0007		
		8000		
		0009		
		0011		
		0012		
		0013		
		0015		
		0016		
	Home	0017	ick	Next
		0019		
		0020		
		0021		
		0022		
		0024		
		0025		
		0025		
		0028		
		and the second	×	

The wizard will search for wireless Access Points. Click the Rescan button if you do not find your AP.

Once the wizard finds the wireless AP you are looking for, select it and enter the wireless network password of the AP. Click **Next** to continue.

appost comora to your wireless potwork		
innect camera to your wireless network		
Select your network from the Available Wireless Networks d	rop down list	
Available Wireless Networks	- Rescan	
Wireless Network Paceword	_	
WILEIESS NELWORK PASSWOLD		
	_	

 Next, you will be prompted to disconnect your network cable from the camera/router. Click Next to continue, Back to go to the previous screen or Home to return to the Main Menu.



9. The camera will connect to the wireless network.



10. The initial setup has been completed. The main feature is the Cloud Access accessibility feature. Click the link(s) or icon below to create a shortcut on your desktop. Also, below the icon is a warning message. This warning message is only shown when the internet connection is inactive or the cloud server cannot be found. Make sure the internet connection is active, click **Retry**. If the Cloud server isn't found, the server may be busy or under maintenance. Under these circumstances, click Retry again. If there is no warning, click **Next**.



Please refer to **Starting the TRENDnet Cloud Services** section for additional Cloud service information.

 Scan the barcode to download the TRENDnet CloudView App for Apple iOS or Android[™]. The app can also be found by searching TRENDnet from the Apple App Store or Google Play[™].

Please refer to Mobile Apps section for additional Cloud service information.



You are now ready to use your camera. Click Finish to exit.

Starting the TRENDnet Cloud Service

When you first purchase the TV-IP862IC, it's already configured to run on the internet out of the box. To do this, you will need the following:

- The TV-IP862IC must be connected to the network with internet
- A DHCP router, with WPS enabled (optional), or the camera connected to a LAN connection by a network cable.

Before starting the TRENDnet Cloud Service, please properly install the camera through the installation steps on the Quick Installation Guide.

To access the cloud service, follow the steps below

- Open a web browser and type in the URL (eg: <u>http://73859116.cam.trendnetcloud.com</u>) listed on the label located at bottom of the camera. Write it down
- 2. You will reach the cloud service site



3. You will be prompted to install the plug-in needed for TRENDnet access. Click **Install**.

Internet	Explorer - Security Warning			×
Do you	want to install this software?			
	Name: camerastreamctrl.cab			
	Publisher: TRENDnet, Inc.			
💙 Mor	re options	nstall	Don't Install	
١	While files from the Internet can be useful, this your computer. Only install software from publis	file type can hers you tru	potentially harm st. <u>What's the ri</u> s	<u>sk?</u>

4. The log-in screen will appear. Enter the default username (admin) and the default password, admin, at the first time login without running installation steps on CD-ROM ahead or soon after the camera reset. If you have done installation via CD-ROM previously, please enter the password you have setup, and click Login. If you don't want to use the information that you just entered, click **Reset** and reenter your data.





The next is to change the username and password. Enter a username and the existing password. Enter a new password and re-type it to confirm it. Click **OK** to complete.



The next screen will verify that your settings have been successfully changed. Click Login.



5. Now, login with the new username and password and click **Login**.



The camera will now display the Cloud view via the TRENDnet cloud service.



Depending on the network environment, you will be connecting to the cloud services in one of the three modes. If you look under the Live View icon, you will notice Mode 1, 2, or 3. This indicates the connection mode currently in use.

Cloud Mode 1:

Mode 1 indicates the camera is connecting directly to the Internet or local network. This mode offers configuration and management options, together with an Advance Configuration mode.



Cloud Mode 2:

Mode 2 indicates the camera is connecting to media in a peer-to-peer fashion to the Internet or local network. This mode offers configuration and management options but not an Advanced Configuration mode.



Cloud Mode 3:

Mode 3 indicates the camera is connecting to the Internet or local network through a firewall, or limited by your current network environment. This mode offers configuration and management options but without Advanced configuration – just live streaming for 5 minutes (the last 60 seconds is in countdown format). The firewall settings limits live streaming for each user. The "red" notification at the bottom of the viewing area warns users of the limited time. Refresh this screen continuously if you wish to view your camera's live stream.



Cloud Service Interface and configuration

After you login, you will see the main Cloud Service screen. Please properly install the camera prior to cloud service login. The cloud service provides mostly use but not full configuration settings. For full configuration settings, please refer to the Configuration section.



What's on the interface?



- 1. The camera model name.
- 2. Live View mode.
- 3. Mode type
- 4. Notifications (Info on camera)
- 5. Pan/Tilt Control (Camera directional remote control)
- 6. Preset List (the list of your Preset Positions.)
- 7. Edit a Preset Name and Preset Position.
- 8. Speaker on your PC. Click this button to toggle between Sound and Mute.
- 9. Microphone on your PC. Toggle between On/Off.
- 10. Snapshot take a snapshot
- 11. Start recording. Toggle between Start/Stop live view recording into your TV-IP862IC folder, under the "My Document" folder, on your PC.
- 12. Configure settings in the cloud service.
- 13. Profiles (Select the camera profile).
- 14. Aspect Ratio (Zoom in and zoom out.)
- 15. Click to logout
- 16. Username
- 17. Camera Image
- 18. Fit to screen
- 19. Product Registration
- 20. Patrol once continuously at selected pre-set positions (Please refer to the "Patrol Position", under the "Configuration", for details.)

Under Configure settings in the cloud service, there are various options you can reference to configure. Go through the different options to toggle cloud settings.

For Video Configuration

- 1. Profile: Select a Profile from the drop-down list.
- 2. Encoding Type: Select your video encoding type from the drop-down list.
- 3. Resolution: Select the video resolution size from the drop-down menu.
- 4. Frame Rate: Select the frame rate speed from the drop-down menu.
- 5. Encoding Method: Select an encoding method from the drop-down menu.
- 6. Bit Rate: Select the camera bitrate from the drop-down menu.

Click **OK** to put the changes into effect.



For Audio Configuration

- 1. Click to enable the speaker.
- 2. Adjust the volume.
- 3. Click to enable the microphone.
- 4. Adjust the microphone volume.

Click **OK** to complete these settings.



For Image Configuration

- 1. Brightness: Use the slider to adjust the brightness.
- 2. Contrast: Use the slider to adjust the contrast.
- 3. Saturation: Use the slider to adjust the saturation.
- 4. Hue: Use the slider to adjust the hue.
- 5. Mirror: Click the checkbox to mirror the image.
- 6. Flip: Click the checkbox to flip the image.
- 7. Black and White: Click the checkbox to change the image to black and white.
- Click **OK** to complete these settings.



For System Configuration

- 1. Username: Only change the Admin username here.
- 2. Existing Password: Enter the existing Admin Password.
- 3. New Password: Enter the new password.
- 4. Confirm the Password: Enter the new password again.

Click **OK** to complete the settings.



For User Configuration

 Manual Recording and Snapshot/Set Folder Storage – Click the button to Select the directory you want to save your recordings and images. Once you have highlighted the folder you wish to use, click OK.



Locate the folder/directory where you want to store your data, select it and click **OK**.



For Advanced Configuration (Please Note: Only Admin user can operate this option in Mode 1)

1. Advanced Camera Settings: Click the Settings button to be redirected your IP camera. This configuration method is similar to the one you already have locally if you use your local IP address.



During this process you are redirected to your external IP address which is the camera's webpage.



Profiles: - Camera View: The current cloud-based system allows you to set 4 Profiles for each camera you setup. Select which video settings you want to view and create a profile.



Zoom in and zoom out: Click this icon to zoom in and zoom out. Each camera selection appears as you select a viewing option or view the aspect ratio using this icon.



Logout: Use this link to logout

1

Username: View the current user connected to the cloud.

: This is a Fit-to-Screen icon.



Click this area to resize the screen back to normal view.

Camera: This is the camera view



Mobile Apps

Using your mobile³ device, in this example it is an **Android** phone, touch the **Bar Code** scanning app on your mobile device. Hold your mobile device up to the **QR Code** on the wizard that reads "**Android**" and scan the image. The **Bar Code** app will read the QR Code and record it.



The app will copy the QR link and provide a HTML link to the TRENDnet app. Click on the link.



³ Please refer to the **TRENDnet CloudVIEW Quick Installation Guide** for features supported in the CloudView application.

You will be directed to the **Google Play**[™] to download the app.



Download the app, install it and use the app on your mobile device to view the TRENDnet camera.

Apple iOS version



Scan the QR Code using one of IOS's QR Code apps. The app will automatically create an HTML link to the iTunes App Store. Click the link.



You will be immediately directed to the iTunes App Store. Click the link to download.

Find the IP address of your camera(s)

Please install the Setup Wizard utility software (for Windows only) from the setup wizard folder on the CD by double clicking the setup file, to locate the IP address of your camera(s) on the same network with your PC.

Web Browser Management

After completing the Autorun Wizard from the CD, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your TV-IP862IC camera. Open a web browser such as Internet Explorer[®] and enter the IP address of your camera (through the setup wizard utility software on the CD). To log in, type the Username **admin** and the password you created in the Autorun Wizard. If you did not create a password or you just press the reset button for reset, the default password is **admin**. After entering your password, click **OK**.

These initial steps are shown using Internet Explorer.

Connect to 192.16	58.2.11 ? 🔀
The server 192.168.2 and password.	.11 at TV-IP862IC requires a username
User name:	🔮 admin 🛛 🔽
Password:	•••••
	Remember my password
	OK Cancel

When you log in for the first time or camera reset, the TRENDnet Cloud Terms of Use will appear. Click the **Accept** check box and click **Next**.



The **Change Your Account** page will appear. Under Admin User Name, leave it as "admin" or change it accordingly. Enter the Old Password, enter the New Password, and then re-enter the New Password to confirm it. Click OK to continue. Click Cancel if you wish to discontinue.

TRENDNET	Win	eless HD Day / Night PTZ Cloud Camera
Change Your Account		
You will only be prompted to do s	so at the first time l	bg in.
Admin User Name	admin	30 characters maximum
Old Password	••••	Old Password must be 8~16 characters
New Password	•••••	New Password must be 8~16 characters
Confirm New Password	•••••	Password Rule:
		Alphanumeric (A-Z,a-z,0-9), and Special Characters (!,@,#,\$,%)
	ОК	Cancel
		Conversioner & 2012 TDEMIDuer All Direkter Dessensed

The camera will save the information you have entered and restart in 10 seconds.

TRENDNET	v	Vireless HD Day / Night PTZ Cloud Camera TV-IP862IC
Change Your Account		
You will only be prompted to do	so at the first tim	e log in.
Camera is restarting, please wait for	r 8 seconds.	
Admin User Name	admin	30 characters maximum
Old Password		Old Password must be 8~16 characters
New Password		New Password must be 8~16 characters
Confirm New Password		Password Rule:
		Alphanumeric (A-Z,a-z,0-9), and Special Characters (!,@,#,\$,%)
	ОК	Cancel
		Copyright © 2013 TRENDnet. All Rights Reserved

The **Congratulations** page will appear. Click **Login** to go to the Login page again. To log in, enter the Username **admin** and the newly created password. This page only appears the first time log in.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC	TRENDME COM
Congratulations!		
Your new password has been successfully chan Please login to view your camera.	ged.	
(You will only be prompted to do so at the first	time log in.)	Login
	Copyright © 2013 TRENDnet	All Rights Reserved.

The home page for the TV-IP862IC will appear. Now enter the new username and password you just created and click Log In.

TRENDNET	Wireless HD Day / Night	PTZ Cloud Camera
Congratulations!		
Your new password has been successfully changed Please login to view your camera.		
(You will only be prompted to do so at the first tin	te leg in.) Connect to 192 Connect to 192 The server 192.1t Uper name: Epssword:	4 0.2.11 2 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

PLEASE NOTE: Depending on the browser you are using, download the plugin needed to view and access the camera feed.

After you have logged in, you will need to install the plug-in required. Click the link below the camera view finder to install the plug-in.



The plug-in will be saved to your Downloads Folder. Click it to begin the installation. Click **Run** to start the process.



Click Next to continue.



The Camera stream control application will be installed.



Make sure all browsers are closed.

ট camerastreamcontrol	
Close browser	×
Please close the following browsers before you install the plugin:	
* Google Chrome	
* Internet Explorer	
* Firefox	
Close All Retry Cancel	
Lancei K Back	Next>

Click the "**Close All**" button to close all browser windows. Click the "**Retry**" button to attempt it again or click the **Cancel** button to exit the plug-in installer.

F camerastreamcontrol			
Installation Complete			
camerastreamcontrol has been succe	ssfully installed.		
Click "Close" to exit.			
	Cancel	< Back	Close

Refresh your browser. The live camera image will be displayed.

This is the Microsoft Internet Explorer plug-in installation. Login to the camera again after refresh the browser.

The server 192	.168.10.30 at netcam requires a username a	and password.
Warning: This sent in an inse	server is requesting that your username and cure manner (basic authentication without	i password be a secure
connection).		
	User name	
	Password	
	Remember my credentials	

At the top of the browser there will be a pop-up which will prompt you to add the TRENDnet add-on.



Click the ActiveX pop-up to install it.



Another pop-up will appear to warn you that you're installing an add-on. Accept the add-on and click the **Install** button.

(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)		💌 🤧 🗶 🚰 Gaughi	
Pile Edit View Parorites Tools Help	x Convet - Select		
A.C			
Welling Departure Cherry Party			
	Internet Explorer - Security Marning	X	
	the year want to install this software?		
	Name careful cab		
	Dilder TENers In		
	Ware splane Data	Conft Install	
	while files from the internet can be useful, the file type can p	startialy have	
	your computer. Only install onlyware from publishers you trust	Hhat's the risk?	
the second s		• • • • • • • • • • • • • • • • • • •	
		LICE PERMIT	

Once the add-on is installed, Internet Explorer will now display the streaming image. The image below is displayed in both Internet Explorer and Chrome.



Main Web User Interface



- 1. Live View view the live image.
- 2. Setup Configure the camera settings.
- 3. Registration Register your device with TRENDnet.
- 4. Record button Click this button to enable recording.
- 5. Sound/Motion Trigger Click this button to activate sound and motion.
- 6. Directional Controller Control the direction of the camera.
- 7. Pan Button Click this button to pan the camera.
- 8. Patrol Button Click this button for the camera to patrol once continuously at the selected pre-set positions.
- 9. Stop Click this button to stop al Pan/ Tilt/Patrol.
- 10. Go To Select a preset position from the drop-down menu.
- 11. Pan Speed Select a Pan speed from the drop-down menu.
- 12. Tilt Speed Select a Tilt speed from the drop-down menu.
- 13. Language Select a language from the drop-down menu.
- 14. Displays the timestamp.
- 15. Displays the live image.
- 16. Product name and Model number.

Camera Toolbar



Audio	
-------	--

COMPONENT	DESCRIPTION	
Passive Profile	This profile, in grey, means the camera is deselected.	
Active Profile	This profile, in yellow, means the camera is selected.	
Full Screen Mode	The viewable screen is expanded to full screen mode.	
Snapshot	Click this button to take a snapshot of image in the viewfinder.	
Storage Folder	Select this icon to select the folder where you want to store video feeds.	
Audio	Click this button to toggle between sound and mute.	
Microphone	Click this button to use the microphone on the camera and listen to incoming audio.	
IR LED	Click this button to toggle the on/off IR LED Day/Night mode.	
Zoom In/Zoom Out	There are different zoom options under	

	Zoom In/Zoom Out. The viewing angle can be zoomed in from 1 times, 2 times, and 4 times.
Mode Level	There are four modes available: Mode 1, 2, 3, 4.

<u>Setup</u>

View camera settings:

- 1. Login to the camera
- 2. Click **Setup**. The main configurable screen appears.

From the menu on the left side of the screen, select an option.



<u>Wizard</u>

The first screen in the Setup panel displays a Welcome to Internet Connection Setup Wizard. Click Next to continue.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC
Registration	WELCOME TO INTERNET CONNECTION SETUP WIZARD This wicard will guide you through a step-by-step process to configure and connect your camera to the Internet.
Wizard	Step 1: LAN Settings Step 2: Internet Settings
Network Audio/Video	Step 3: DDNS Settings Step 4: Camera Name Settings
Action Motion Detection	 Step 5: Time Settings Step 6: Setup Complete
Sound Detection Tools	Next
Advanced	
	Copyright © 2013 TRENDnet. All Rights Reserved.

Step 1: LAN Settings

Under LAN Settings you are provided with two choices, IPv4 Settings and IPv6 Settings. Select DHCP for the router to choose your IP address. Click Next.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP8621C
Setup	STEP 1: LAN SETTINGS Please select the IP addressing the thatyour camera will be control by DHCP or Static IP Address. If your camera is connected to a node, cryce are unserve which settings to pick, we recommend thatyou could keep the default selection as DHCP connection. Otherwise, select Static IP Address to assign an IP address manual before letting on IP welt bulon.
Wizard System Network Audio/Video Action Motion Detection	IPVI Settings O DicC ^C Connection Static IP Address IPv6 Settings O DicCP Connection Static IP Address Next Concel
Sound Detection Tools Advanced	
	Dopright © 2019 TRENDmit, All Rights Reserved.

For Static options, click Static IP Address.



In the Static IP address field, type in the IPv4 IP Address, the Subnet Mask, Default Gateway, Primary DNS and/or Secondary DNS servers. There is also an option to include a Search Domain if you have one.

When you configure static IP settings, click the radio button next to IPv6 Static IP Address. The field now extends to further options. Type in the IPv6 IP Address in the field provided. Then enter the Default Gateway details, a Primary DNS, and a secondary DNS.



Click the Next button to continue.

Step 2: Internet Settings

If your ISP requires a username and password, now is the time to complete the empty fields. Click the **Enable** checkbox. Enter a **Username** and **Password**, and click the **Next** button.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P852IC
Construction	STEP 2: INTERNET SETTINGS If your ISP is using PPPOE, please enable this sating and enter your ISP Username and Password. Then, click on the vent buttler. Please contact your ISP If you do not know your Username and Password. I Enabled
Wizard	Usemame
System	Password
Network	Back Next Cancel
Audio/Video	
Action	
Motion Detection	
Sound Detection	
Tools	
Advanced	

Step 3: DDNS Settings

Under DDNS Settings, click the checkbox to enable this feature. In Server Address, select one of the domains from the drop-down menu. The field to the left of the drop-down menu will automatically populate. Under Host Name enter the name the DDNS service provided. Enter a Username and Password, repeat the password and finally enter the Timeout. Timeout states the time DDNS is updated. Click Next to continue.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC(TRENDME COME
Construction	STEP 3: DDNS SETTINGS If you have a Dynamic DNS account and would like the camera to update the IP address automat please enable DDNS and enter your host information below. Then, click on the Next button to con	ically, Itinue.
Wizard	Enable Server Address NO-IP.com << NO-IP.com	
System	Host Name	
Network Audio/Video	Password	
Action	Confirm Password Timeout 576 Hour	
Motion Detection Sound Detection	Back Next Cancel	
Tools		
Advanced		

Step 4: Camera Name Settings

Enter a name for the camera. This feature is helpful when you have more than one camera setup. When complete, click **Next**.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC
Struc View	STEP 4: CAMERA NAME SETTINGS We recommend that you rename your camera for easy accessibility. You can be identify and connect to your camera via this name. Please assign a name of your choice before before the start buffor.
Wizard System	Camera Name TV-IP862IC Back Next Cancel
Network Audio/Video Action	
Motion Detection Sound Detection Tools	
Advanced	
	Copyright & 2013 TRENDhet, All Rights Reserved.

Step 5: Time Settings

From the drop-down menu, select a **Time Zone**. Click the checkbox to enable daylight saving. To edit further options, either select **Auto Daylight Saving** or Set DST manually. Auto Daylight will set the Daylight Savings time for you automatically. If you select DST manually, you can offset the time within 1-2 hours. Then select a start time and an end time from the drop-down menus provided. You can also click the "Keep current date and time" which maintains the current time and date of the camera. Other options include, "Synchronize with Network Time Protocol server". Ask your administrator if you have a server like this. The last option, "Setup a Date and Time manually", allows you to manually configure the date and time from the drop-down menus provided. Alternatively, you can also click "Sync with Computer Time". This uses the current time settings on the computer you are using to sync with the camera's time. Click **Next** to continue.





This is the final screen of the wizard. It shows the configuration options you selected. Click Apply to make the changes. After you click through, a notice will appear to mention that the camera will restart in 60 seconds and that it's saving the settings. After the camera restarts, you will be directed back to the start of the wizard.

TRENDNET	Wireless HD Day / N	ght PTZ Cloud Camera TV-IP862IC	TRENDNET	Wi	ireless HD Day / Night PTZ Cloud Camera TV4P862IC
Registration	STEP 6: SETUP CC Below is a summary of your carrers estings. Click on the Ba on the Apaly button if all settings are comet. Bit recommand access your camera on the network or via your web browser.	MPLETE kbulları förevlev ar modify settings or click of to note diven these settings in order to	Constant		STEP 6: SETUP COMPLETE a settings. Cirks on the Bask bildin its review or modify settings or cirks e correct. Dia recommendatio notice own These exitings in order to k or nay your web browser.
Wizard Septem Network Audio/Video Action Holen Deletion South Deletion Tools	Pi-MoNS DKC Pi-MoNS DKC Pi-MoNS DKC Pi-MoNS DKC Pi-MoNS DKC Pi-MoNS DKN DKN DKN DKN DKN DKK DKN	Conce	Wizard System Retwork Action Kolon Kolon Seed Detection Tools	PH4 Address PH4 Address (PhotiLength PC Cannes Harne Trais Zina DDNS PPhoE PPhoE	Version Annual Strate Constrain Constraint Annual Constraint
Advanced		Copyright © 2013 THENDont, All Rights Reserved	Advanced		Degrings II (013 TERDow, All Explan Deserved.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC
Contraction	STEP 6: SETUP COMPLETE
Wizard System Network	Reconnecting, please and for 26 becords
Audio/Video Action Hotion Detection Sound Detection	
Tools Advanced	
	Copyright & 2013 TREMonet. Al Rights Reserved

TV-IP862IC

System

Admin

Password Settings

In this section there are two configuration parts – Admin and Time and Date. These settings can be configured using the **Setup Wizard** but if you have already done the wizard and want to return to these settings, this is the place to do it.

- 1. Enter the **Old Password** (30 characters is the maximum length)
- 2. Enter the New Password (30 characters is the maximum length)
- 3. Confirm New Password Repeat the password you have just entered.
- 4. Click Save.

Please Note the password can only contain: Alphanumeric: A-Z, a-z, 0-9, and Special Characters: !, @, #, \$, %

Add User Account

- 1. User Name enter a new username in this field.
- 2. New Password enter a password for the user in this field.
- 3. Confirm New Password Repeat the password you have just entered.
- 4. Click Add to continue.

User List

The **User List** is now populated with the name(s) of the user(s) you have added to the above configuration. If you wish to delete a user, select the user from the drop-down list and click **Delete**.

Authentication

- RTSP Authentication click the checkbox if you wish to enable the authentication of Real-time Transport Streaming Protocol
- 2. HTTP Authentication click the checkbox if you wish to enable HTTP authentication.
- 3. **Snapshot URL Authentication** click the checkbox if you wish to enable snapshot authentication of the current video stream using the hyperlink next to it.
- 4. Click Save to continue.

Device Settings

- 1. Camera Name In this field enter a name for the camera.
- 2. **OSD** Click the OSD checkbox if you wish to have an On-screen display.
- 3. **Label** If you have clicked the OSD previously, enter a name under the Label field to make the name visible. Also, click the Time Stamp checkbox if you wish to add a timestamp to the image. Click Save to continue.
- 4. **LED Light** From the drop-down list, you have the option to select Power/Link, Off, or Blinking. These options allow you to adjust the LED settings according to your requirements.
- 5. **Calibrate the Device** Click the Calibrate the Device button to do exactly what it says. The camera will now pan and tilt to get the system into calibration mode.

Admin User Name	admin	30 characters	maximum
Old Password		Old Password	must be 8~16 characters
New Password		New Password	d must be 8~16 characters
Confirm New Password		Password Rule	e:
S	ave	Alphanumeric	(A-Z, a-z, 0-9),
		and Special Ci	naracters (!, (@, #, \$, %)
ADD USER ACCOUNT			
User Name		:	30 characters maximum
New Password		:	30 characters maximum
Confirm New Password		I	Password Rule:
	Add 20 users m	aximum	Alphanumeric (A-Z, a-z, 0-9), and Special Characters
		((!, @, #, \$, %)
USER LIST			
User Name User list	✓ Delete		
AUTHENTICATION			
✓ RTSP Authentication			
✓ HTTP Authentication			
Snapshot URL Authentication			
(http://192.168.20.53/image/jpeg.c	<u>(inc</u>		
S	ave		
DEVICE SETTING			
Camera Name	TV-IP862IC		36 characters maximum
On-Screen Display(OSD)			
Label TV-IP86	S2IC	30 chara	cters maximum
Time Stamp			
LED light Blir	nking 🗸		
	ave		
Calibrate The Device	prate the Device		

Under Time Zone, select your region from the drop-down list

- If you need to setup **Daylight Saving** time, click the **Enable Daylight Saving** checkbox.
 - The two options available are Auto Daylight Saving and Set DST Manually. Click **Auto Daylight Saving** to allow the camera to automatically adjust Daylight savings time.
 - Select Set DST Manually if you wish to set the Daylight Savings time yourself. A configurable drop-down menu appears allowing you to set the Daylight time according to your requirements. Select an Offset time and from the drop-down list (Month, Week, Day, Hour, and Minute) select a Start Time and an End Time.



Automatic Time Configuration

Click the **Synchronize with NTP Server** checkbox to enable this feature. An **NTP Server** field will open to prompt you to enter the server details.

Enter the server details, otherwise, consult your administrator for server details.

·治: Live View	TIME CONFIGURATION
©9Setup Registration Wizard System	time Zone (CAIT-08.00) Tages ♥ Enable Dayloyd Swing O Auto Deyloyd Swing © Set CIST Manually Offset • 100 ♥ Model, Watek Day of week Hour Minude
Time and Date Network Audio/Video	Start time 3 2 Monthly 2 0 4 End time 11 1 Sunday 2 0 4 AUTOMATIC TIME CONFIGURATION 1
Action Motion Detection Sound Detection	Synchronize with Network Time Protocol server NTP Server So NTP Server So Set NTP Server from DHCP
Tools Advanced	SET DATE AND TIME MANUALLY Setup Date and Time Manually
	Apply Cancel

TRENDNET

Set Date and Time Manually

Click the **Setup Date and Time Manually** checkbox to enable this feature. Here you will have the option to select a **Year, Month, Day, Hour, Minute, and Second** or just click **Copy Your Computer's Time** button. Click **Apply** to continue.

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Apply C

Wireless HD Day / Night PTZ Cloud Ca

Network

In this section there are five configuration parts – Network, Wireless Setup, Dynamic DNS, Cloud Setting, and Cloud Status. These settings can be configured using the Setup Wizard but if you have already done the wizard and want to return to these settings, this is the place to do it.

LAN Settings

There are wired LAN settings and wireless settings. For LAN settings follow these instructions:

- 1. Select the radio button next to **DHCP Connection** under **LAN Settings**
- 2. Set the **HTTP Port** or leave the default at 80.
- 3. Set the **RTSP Port** or leave the default at 554.
- 4. Under **UPnP**, check the **UPnP** checkbox if you wish to use UPnP and the same goes for UPnP Port Forward.

5. If yo	u use Bonjour for Mac's,	click the Bonjour	checkbox under Apple.
----------	--------------------------	--------------------------	-----------------------

	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC
- 🔆 Live View	AN SETTINGS
Registration	v4 Settings ⊙ DHCP Connection ○ Static IP Address
Wizard	□ PPPoE V6 Settings □ DPIC Properties
Network	Static Padress
Wireless Setup Dynamic DNS	HTTP Port 100 RTSP Port 554 PnP
Cloud Setting Cloud Status Audio/Video	UPnP UPnP PortForward
Action Motion Detection	Ø Bonjour
Sound Detection	Apply Cancel
Advanced	
	Copyright © 2013 TRENDnet. All Rights Reserved.

For Static IP Address issues follow these steps (Best suited for experienced users):

- 1. Select the radio button next to Static IP Address under LAN Settings
- 2. Enter the **IPv4 IP** address in the field provided.
- 3. Set the **Subnet Mask**.
- 4. Set the **Default Gateway IP** settings from your router
- 5. Lastly, set the optional **Primary** and **Secondary DNS** fields.
- 6. Click **Apply** to complete the configuration.

TRENDNET	Wireless HD Da	y / Night PTZ Cloud Camera TV-IP862IC
Live View System Registration Wizard System Network Nirroless Setup Onda Status Audio/Video Action Motion Detection Toois Advanced	AN SETTINOS Pv4 Settings O DHCP Connection Static IP Address IPv4 Address Uefault Gateway (Router) Primary DNS Optional Search Domain PPPOE Pv6 Settings OD DHCP Connection Static IP Address OKT SETTINOS HTTP Port 80 RTSP Pot 554 IPnP V UPnP UPnP UPnP Other Setting Concel	192.188.10.30 255.255.0 192.188.10.1

If you are connecting the camera directly to a **PPPoE** network, the camera also has configuration options for that.

- 1. Click the **PPPoE** checkbox. The viewable window will scroll down to reveal more options.
- 2. Enter the **User Name** and **Password/Confirm Password** details. The Status should indicate a **Success** or **Failure** (if you have a failure please consult your network administrator or your internet provider)
- 3. Set the **Port Settings**, **HTTP Port** and **RTSP Port**.
- 4. Set the UPnP settings, UPnP and UPnP Port Forward.
- 5. Lastly, set the Apple, Bonjour settings.
- 6. Click **Apply** to complete the configuration.

	TRENDNET	Wireless H	ID Day / Night PTZ Cloud Camera TV-IP862IC
* Matchada * Optional according to the optionaccording to the optional according to the optional according to th	Vizard System Network Network Network Network Network Network System Network Network Subasting Cloud setting Cloud	LAN SETTINGS IP4 Settings OHCP Connection OStatu: IP Address FV4 Address Sound Mask Default Oktway (Roder) Primary ONS Optional Becchoard Ontain Optional Becchoard Option User Name Password Confern Password Status Dis: IP46 Settings OHCP Connection Status PAdress PORT SETTINGS HTTP Port B0 RTSP Port S04 UpAP CUPAP Port Forward Apple	1921891030 19221891030 25525550 192169101

Wireless Setup

Click the **Enable Wireless** button to start using this wireless function. This function takes

a while to restart the camera.



After the camera has restarted, the wireless configuration options become available.

1. Check the **Wireless** checkbox. The camera will automatically begin scanning your wireless area.

2. Enter a name in the **Network Name** field manually, or select a wireless network router from the drop-down list under **Site Survey**.

3. Under **Wireless Mode** select between Infrastructure and **Ad-hoc** mode.

Infrastructure Mode - An 802.11 networking framework in which devices communicate with each other by first going through an Access Point (AP). In infrastructure mode, wireless devices can communicate with each other or can communicate with a wired network.

Ad-Hoc - An 802.11 networking framework in which devices or stations communicate directly with each other, without the use of an access point (AP).

Under Security Mode, select among None, WEP, WPA-PSK, or WPA2-PSK.

None – means no security

TV-IP862IC

WEP - a security protocol for wireless local area networks (WLANs) defined in the 802.11b standard. WEP is designed to provide the same level of security as that of a wired LAN. LANs are inherently more secure than WLANs because LANs are somewhat protected by the physicalities of their structure, having some or all part of the network inside a building that can be protected from unauthorized access. WLANs, which are over radio waves, do not have the same physical structure and therefore are more vulnerable to tampering. WEP aims to provide security by encrypting data over radio waves so that it is protected as it is transmitted from one end point to another.

WPA-PSK - uses a pass-phrase, which is between 8 and 63 characters long. This passphrase is created and entered by the user into any client station's configuration utility, as well as into the AP. (A recommendation: do not pick a password already in use within the network, and do not use a variation of your office address.) Generally, when creating or setting up a wireless LAN, the first thing to be configured is the AP, which is then followed by the configuration of client stations. Configuring an AP depends largely upon the manufacturer's instructions; client station configuration is where the real choices about security come into play.

WPA2-PSK - it is a method of securing your network using WPA2 with the use of the optional Pre-Shared Key (PSK) authentication, which was designed for home users without an enterprise authentication server. To encrypt a network with WPA2-PSK you provide your router not with an encryption key, but rather with a plain-English passphrase between 8 and 63 characters long.

Depending on what **Security Mode** you are using, enter the **Key** in the key field next to Key. Click the **Show Hidden Key** if you wish to see what you are typing.

Click Apply to continue.

TRENDNET	Wireless HD Da	ny / Night PTZ Cloud Camera
System Wizard System Network Hetwork Hetwork Uriness Selup Opnamic DIS Cloud Setting Cloud Setting Cloud Setting	WIRELESS CONFIGURATION Wireless Network Name Site Survey Wireless Mode Security Mode Key Security Mode Key Cancel	Rescan 🥵
Audio/Video Action Motion Detection Sound Detection Tools Advanced		Copyright © 2013 TRENDnet. All Rights Reserved

Dynamic DNS

Dynamic DNS is a method of keeping a domain name linked to a changing IP address as not all computers use static IP addresses. Typically, when a user connects to the Internet, the user's ISP assigns an unused IP address from a pool of IP addresses, and this address is used only for the duration of that specific connection. This method of dynamically assigning addresses extends the usable pool of available IP addresses. A dynamic DNS service provider uses a special program that runs on the user's computer, contacting the DNS service each time the IP address provided by the ISP changes and subsequently updating the DNS database to reflect the change in IP address.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC	2
- ;;;;: Live View ©Øsietup	DYNAMIC DNS SETTING	
Registration	Apply Cancel	
System Network		
•Network •Wireless Setup • <u>Dynamic DNS</u>		
Cloud Setting Cloud Status Audio/Video		
Action Hotion Detection		
Sound Detection Tools Advanced		
Astraitee		

- 1. Click the **DDNS** checkbox to enable **DDNS** settings.
- 2. Select the **DDNS Server** from the drop-down list.
- 3. Enter the **Host Name** you setup on this online server.
- 4. Enter a **User Name** in the field provided.
- 5. Enter a **Password** and confirm the **Password**.
- 6. Enter a **Timeout**, in hours, for the length you want the connection to stay active.
- 7. Click **Apply**. The Status should change if you have configured the online DNS settings correctly.

TRENDNET		Wireless HD Day /	Night PTZ Cloud Camera TV-IP862IC
	DYNAMIC DNS SETTING Date Server Address Host Name User Name Center Password Contime Password Contime Password Status Apply Center	NO-IP com	<{ N-iP.cm ₩
			Copyright © 2013 TRENDnet. All Rights Reserved.

Cloud Setting

This section covers connecting to the cloud. What is a cloud? Cloud computing is being able to connect to your TV-IP862IC from any location. You can access and control the device via the internet. To do this, click the radio button next to the **Enable** button. Click **Apply**. Your selection is saved but there will not be any notification.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC
CLOUD SET	TING
Co Co	ntrol 💿 Enable 🔿 Disable
Registration	
Apply	Cancel
Wizard	
System	
Network	
Network	
•Wireless Setup	
Dynamic DNS	
<u>Cloud Setting</u>	
Cloud Status	
Audio/Video	
Action	
Motion Detection	
Sound Detection	
Tools	
Advanced	
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Cloud Status

This section shows you the hyperlink to your cloud connection. Once you click the link, your browser opens to the cloud interface. Click Refresh to update the image.

Audio/Video Setting

In this section there are two configuration parts – Audio and Video and Image Setup. These settings can be configured using the Setup Wizard but if you have already done the wizard and want to return to these settings, this is the place to do it.

Audio and Video - Video Profile



Under each profile settings there are six main functions, Encoder Type, Resolution,

Frames per Second, Encode Method, bps, and RTSP URL settings.

Encode Type: This sets the file format and file quality.

Resolution: This is the size of your image.

Frames Per Second: This is the speed at which each frame is captured.

Encode Method: Is your Constant Bit Rate.

bps: Is the transmission speed of your data (4Mbps-64Kbps).

RTSP URL: is the RTSP URL where video streaming is accessed.

Each Profile offers different specifications. Select the specifications that best suite you.

Audio and Video - Video Profile 1:

Encode Type – H.264 & MPEG4

Resolution - 1280x720/640X352/320X176/160X80

FPS – 30/15/10/6/5/3/2/1

Encode Method – Two options available: CBR/Quality. CBR and Quality can be defined as such. When users choose the CBR encode method, the camera selects the bitrate as the first priority. The TV-IP862IC will adjust the image quality to fit the bitrate. When the user chooses the Quality encode method, the camera select the bitrate to fit the quality **bps:**

4Mbps/3Mbps/2Mbps/1.5Mbps/1Mbps/768Kbps/512Kbps/384Kbps/256Kbps/128Kbps /64Kbps

Quality – Low/Fair/Standard/Good/Excellent

RTSP URL - play1.sdp

VIDEO PROFILE	1				
Encode Type	Resolution	FPS	Encode Method	bps	RTSP URL
H.264 💌	1280x720 💌	30 💌	CBR 💌	4 Mbps	ylay1.sdp



Audio and Video – Video Profile 2 Encode Type – H.264 & MPEG4 Resolution –640X352/320X176/160X80 FPS – 30/15/10/6/5/3/2/1 Encode Method – CBR/Quality

bps

4Mbps/3Mbps/2Mbps/1.5Mbps/1Mbps/768Kbps/512Kbps/384Kbps/256Kbps/128Kbps /64Kbp**s**

Quality - Low/Fair/Standard/Good/Excellent

RTSP URL – play2.sdp

VIDEO PROFILE	2				
Encode Type	Resolution	FPS	Encode Method	bps	RTSP URL
H.264 💌	640X352 🐱	10 💌	CBR 💌	1 Mbps 💉	play2.sdp
8				1x 2x 4x	Mode 1

Audio and Video – Video Profile 3

Encode Type – JPEG

Resolution -1280x720/640X352/320X176/160X80

FPS - 30/15/10/6/5/3/2/1

Encode Method –Quality

Quality – Low/Fair/Standard/Good/Excellent

RTSP URL – play3.sdp



Video Profile Four for Mobile Devices Only - Options: Encode Type – H.264 & MPEG4 Resolution – 1280x720/640X352/320X176/160X80 FPS – 30/15/10/6/5/3/2/1

Encode Method – CBR/Quality

Bps

4Mbps/3Mbps/2Mbps/1.5Mbps/1Mbps/768Kbps/512Kbps/384Kbps/256Kbps/128Kbps /64Kbps

Quality – Low/Fair/Standard/Good/Excellent

RTSP URL – 3gpp

VIDEO PROFILE 4 (FOR MOBILE DEVICE ONLY)					
Encode Type	Resolution	FPS	Encode Method	bps	RTSP URL
MPEG4 💌	320X176 🔽	5 🗸	CBR 💌	384 Kbps 💌	3gpp
<u>ð</u>	8		Rec ┢ 🎧 1	1x 2x 4x	Mode 1

Day/Night Mode

The TV-IP862IC allows users to record data in day and night mode. The TV-IP862IC has LED's for night mode. This section provides day and night options. You can select it to run automatically, manually, in constant day mode or constant night mode.



Toggle this switch On/Off

Day/Night Settings

When you select "Day" mode, the viewing image is in normal "color" mode. However, when you use "Night" mode, the viewing image turns black and white. The reason for this is to create a clearer and smoother image. When you select "Auto" mode, the Day/Night function is concealed.

Please Note: This allows you to set the camera to switch automatically from day to night mode (default) or to permanently set the color and Black/White operations. Also note,

even when the camera is set to color mode, it will switch to Black/White night vision if there is no longer enough ambient light to support the color saturation.

Auto Mode - The camera automatically removes the filter by gauging the amount of ambient light entering the lens.

Day Mode - In Day Mode, the camera switches on the IR cut filter to block infrared light from reaching the sensor so colors aren't distorted.

Night Mode - In Night Mode, the camera switches off the IR cut filter so the sensor can accept infrared light, helping to improve low light sensitivity.

Audio Setup

The TV-IP862IC allows users to record and broadcast audio. Click the Speaker checkbox to change the volume settings on the camera's speaker. Click the Microphone checkbox and select your preference from the volume drop-down list. Click **Apply** to continue.

DAY/NIGHT MODE	
Day/Night Mode	Auto
Sensitivity Level	Median 🔽
AUDIO SETUP	
🗹 Speaker	
Volume	50 💌
Microphone	
Volume	50 💌

Image Setup

Just like any camera, you are able to make changes to the image settings. With the TV-IP862IC, you can change the Brightness, Contrast, color scheme to Black/White, Flip the image, change the Frequency, Shutter Speed, Saturation, Hue, Mirror, Auto Exposure and White Balancing. The settings can be viewed "live" through the **LIVE VIDEO** display in the forefront image

If you wish to discard the changes you made click the Reset to Default button.



<u>Action</u>

Recording

In this section there are five configuration parts – Recording, Video Clip, Snapshot, Preset Position, and SD Management.

This option allows you to record constantly. If you select Always bear in mind that the Recording Type should be Video and that the source usually comes from Profiles 1, 2 or 4 under Source. Make sure the Micro SD Card settings are setup to accommodate the huge storage space required for Always connections. Click **Apply** to complete the configuration.



Trigger By – Schedule

This option allows you to record according to the schedule you setup. If you select Schedule a calendar of the days of the week appear. Here you can select from each day's checkbox which days you want to setup and you can create a start and end time. Click **Apply** to complete the configuration.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC
Vitrad System Network Autio/Video Autio/Video Autio/Video Autio/Video Autio/Video Autio/Video Autio/Video Banaphot	RECORDING Plenatie Trigger for Schedule Weed (Thu (Pri / Sat The Sat)) End)) Recording Type Snapahot O'Vides Source : profile 2 (Configurable in <u>Audio and Video</u>) File Format: an Recording I minute(s) per file Target O'Mice SD Card Keep Free Space (200) MB (minimum is 200) Comb Attwork SNarage
	Copyright & 2013 TRENDries. All Rights Reserved.

Trigger By – Motion

This option allows you to record according to the motion parameters you setup. If you select **Motion**, click the **Schedule** during checkbox. Then a calendar of the days of the week will appear. Here you can click one of the day's checkboxes and you can create a start and end time. The Recording Type changes to pre-event or pre-event settings. This means the camera will start recording before the motion event is observed and after the motion event is inactive. These times can only be set in seconds. Click **Apply** to complete the configuration.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC
-;;;: Live Yiew	RECORDING
Registration	Trigger by Motion
Wizard	Day El Sun El Mon IEl re El Wei El Ini IEl n El Sat Time: Start 0 ; 0 End 0 ; 0
Network	Pre-event recording 5 seconds (between 0 to 5 seconds) Post-event recording 5 seconds (between 0 to 60 seconds)
Audio/Video Action	© Snapshot © Video
Video Clip Snapshot	Suice, privile 2 (Comparable in <u>Auductania video</u>) File Format: av v Recording 1 v minute(s) per file
SD Management	Target ⓒ Micro SD Card
Sound Detection	Keep Free Space 200 MB (minimum is 200)
Toois Advanced	Samba Network Storage
	Copyright © 2013 TRENDnet. All Rights Reserved.

TV-IP862IC

Trigger By: Sound

This option allows you to record according to the audio parameters you setup. If you select Sound, click the Schedule checkbox. You can now configure this by clicking the checkbox of the days of the week. You can edit the Start and End times. Under Recording Type, edit the Pre-event recording and Post-event recording times. Decide whether you want to take a Snapshot or Video. Select the source, File Format, and Recording Time duration (in minutes).

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC
-285-Live View	RECORDING
ÖØSetun	✓ Enable
Registration	Trigger by Sound 🔽
Registration	Schedule
	Day: 🖉 Sun 🗹 Mon 🖉 Tue 🖉 Wed 🖉 Thu 🖉 Fri 🖉 Sat
Wizard	Time: Start 0 : 0 End 0 : 0
System	Recording Type
Network	Pre-event recording 5 seconds (between 0 to 5 seconds)
	Post-event recording 5 seconds (between 0 to 60 seconds)
Audio/Video	O Snapshot
Action	O Video
• Recording	Source : profile 2 🗸 (Configurable in <u>Audio and Video.</u>)
• Video Clip	File Format : 🛛 💌
Preset Position	Recording: 1 💌 minute(s) per file
SD Management	Target
Mating Detection	Micro SD Card ■ Car
Modon Detection	Keep Free Space: 200 MB (minimum is 200)
Sound Detection	Recycle
Tools	○ Samba Network Storage
Advanced	
	Apply Cancel
	Convictor © 2012 TPENDoat All Dichte Dasana

Recording Type

The two main sections here are Snapshot and Video. Snapshot takes a picture from your recorded data and only works with Profile 3. Video captures source data from Profiles 1, 2, and 4 which is configurable in Video/Audio settings. Recording data can be recorded in increments of 1-6 minutes.

Target – Micro SD Card

Keep Free Space is used to set the capacity of your Micro SD card, preventing the system from becoming unstable.

Recycle Click here to recycle the material on your Micro SD card. When the Micro SD card is full all previous data is removed or recorded over thereby freeing up space.

These settings depend on the size of your SD card. The larger your SD card the more storage space you have to record data. Recording data can be recorded in increments of 1-6 minutes. Cyclic settings can also be checked.

Target - Samba Network Device

The **Samba Network Device** requires a NAS server or a Linux server to operate. Under **Server**, enter the server address. Click the **Anonymous** radio button to allow anonymous users to send files to the **Samba server**. Then enter the **Share Folder**, **Sub Folder** (if needed) and enter the **Disk Space** needed. Lastly, click the Recycle checkbox if you want to recycle data in the Share Folder. This is useful when you don't need to keep all the recorded material.

If you click the **Account** radio button, then enter a **Username** and **Password**. This will authenticate the user every time they log on to the samba server. Then enter the **Share Folder**, **Sub Folder** (if needed) and enter the **Keep Disk Space** needed. Lastly, click the Recycle checkbox if you want to recycle data in the Share Folder. This is useful when you don't need to keep all the recorded material. Remember to click the **Apply** button whenever you want to save your changes.

Anonymous View



Account View



Pocording footuros

Recording reactives.						
Function		Recording	Video Clip	Snapshot	Note	
Trigger Type	Always	Y	Y	Y		
<i>n</i> -	Motion	Y	Y	Y		
	Motion with Schedule	Y	Y	Y		
	Schedule	Y	Y	Y		
	Sound	Y	Y	Y		
	Sound with Schedule	Υ	Y	Y		
Video pro Options	file	Profile 1/2/4 supported	Profile 1/2/4 supported	Profile 3 supported	 * For recording and video clip, the available video profile options are 1/2/4. * For snapshot, the default video profile option is profile 3. 	
Target	E-Mail	Ν	Y	Y		
	FTP	Ν	Y	Y		
	SD	Y	Ν	N		

	card				
	Samba	Y	Ν	Ν	
Recording Type	Pre- Event	Y	Y	Y	 * It's only supported when trigger by Motion/Sound is activated. * Snapshot, it's activated using 6 snapshots only.
	Post - Event	Y	Ν	Y	 * It's only supported when trigger by Motion/Sound is activated. * Snapshot, it's activated using 6 snapshots only.
	Real Time	Y	Y	Y	

Click the **Video Clip** checkbox to activate video recording events. There are three main sections:

VIDEO CLIP	
🗆 Enable	
Apply Cancel	

Trigger By: Always, Motion, Schedule, and Sound

Video Clip Type: Configure the recording options

Target: The targets available are FTP and E-mail. If you want to record data to an FTP server, click FTP. If you want to record data to an E-mail account click E-mail.

The Trigger by and Video Clip settings are similar to the options under Recording Type. Please see the above description for details.

Video Clip - Target

Target offers two variables, FTP or Email. You cannot select both. If you select FTP enter the details as laid out in the FTP field.

FTP Server – this is your FTP server address

Port - this is the default FTP Port (21) address

Username - the username your FTP administrator provided

Password – the password your FTP administrator assigned you

Path - the directory

Filename Prefix - the filename you are using to access the data or save the data to

Interval – The interval range is set between 60 and 86400. The default interval is 300 seconds. The interval determines the time between two video clips, and is only used when you trigger, Always and Schedule.

Send next FTP after – The range is 0 to 86400. The default setting is 10 seconds. This determines the interval to send the next video clip once the previous video clip has finished uploading from the FTP server. This is only available when trigger by Motion and Sound is applied.

Passive Mode – It's used as Server/client initiation access to bypass any proxies.

Click the **Test** button if you wish to verify your FTP server information. Click **Apply** to confirm the configuration settings.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC
385 Live View	VIDEO CLIP
©©Setup	
Registration	Trigger by Abways 👻
	Video Clip Type
Wizard	Source : profile 2 💌 (Configurable in Audio and Video)
	File Format : 🛛 💌
System	Pre-event recording 5 Seconds (between 0 to 5 seconds)
Network	Maximum duration 10 Seconds (between 5 to 10 seconds)
Audio/Video	Target
Action	● FTP
• Recording	FTP Server
Video Clip	Port 21
Snapshot Preset Position	User Name
SD Management	Password
Motion Detruction	Path
Modoli Dececubit	Filename Prefix
Sound Detection	Interval 300 Seconds (range 60 to 86400 seconds)
Tools	Passive Mode
Advanced	Test
	O E-mail
	Apply Cancel
	Copyright © 2013 TRENDnet. All Rights Reserv

For Email

Recipient E-mail Address – the email address you want to send information to SMTP Mail Server – the mail server domain details Port - the default Port number (465)

Username – the username settings provided by your email administrator Password - the password settings provided by your email administrator Sender Email Address – the email address of the sender

Interval – The interval range is 60 to 86400. The default interval is 600 seconds. This determines the time between two video clips, and is only used when you trigger by Always and Schedule.

Send next email after – This determines the interval to send the next video clip after the previous video clip is completed via E-mail. This is only available when you trigger by Motion and Sound.

Use SSL-TLS – this is a secure method (please consult your administrator before using this setting). There are three options available: None, SSL-TLS or STARTTLS.

Click the **Test** button to proceed with a test. This will authenticate the email details with your email server.

If the authentication is positive the test will be complete. If the test is a failure, the result will not be successful. Click **Apply** to confirm the configuration settings.

TRENDNET	Wire	pless HD Day / Night PTZ Cloud Camera TV-IP862IC
Wizard Network Aution/Video Aution/Video Aution/Video Aution • Network • Video Clio • Singeniot • Singeniot • Singeniot • Sound Detection Sound Detection Tools	VIDEO CLIP Venable Tilgar by Aveys v Ukleo Clip Type Source: [roffe 2 v Configu File Formati v V Configu File Formati v V Configu Pre-event recording § S Mainmum duration [0] se Target O FTP © E-mail Recipient E-mail Address SMTF Mail Sever Password Sonder E-mail Address Interval	urable in <u>Audio and Video</u>) Seconds (between 0 to 5 seconds) econds (between 5 to 10 seconds) 25 (range 1 to 65533) 50 Beconds (range 60 to 86400 seconds)
AUTORICU	Apply Cancel	Test

Snapshot

These settings control SNAPSHOT settings for your camera. The Trigger by settings are similar to settings above, so please view the settings above. The Snapshot Type provides for a Single snapshot or 6 snapshots at 1-2 second intervals. The Target FTP and Email settings are similar to settings explained above. Please read the configuration in the above explanation. Click **Apply** to confirm the configuration settings.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC
System	SNAPSHOT Finale Trigger by Aways Snapshot Type Source : Profile 3(configurable in <u>Audio and Mideo</u>) Target FTP
Network Audio/Video Action • Recording • Video Clip • Snagshot • Preset Position	E-mail
+SD Management Motion Detection Sound Detection Tools Advanced	

Snapshot - Target

Target offers two variables, FTP or Email. You cannot select both. If you select FTP enter the details as laid out in the FTP field. Click **Apply** to confirm the configuration settings.

FTP Server – this is your FTP server address
Port – this is the default FTP Port (21) address
Username – the username your FTP administrator provided
Password – the password your FTP administrator assigned you
Path – the directory
Filename Prefix – the filename you are using to access the data or save the data to

Interval – The interval range is set between 60 and 86400. The default interval is 300 seconds. The interval determines the time between two video clips, and is only used when you trigger, Always and Schedule.

Send next FTP after – The range is 0 to 86400. The default setting is 10 seconds. This determines the interval to send the next video clip once the previous video clip has finished uploading from the FTP server. This is only available when trigger by Motion and Sound is applied.

Passive Mode – It's used as Server/client initiation access to bypass any proxies. Click the **Test** button if you wish to verify your FTP server information. Click **Apply** to confirm the configuration settings.



For Email

Recipient E-mail Address – the email address you want to send information to

SMTP Mail Server – the mail server domain details

Port - the default Port number (465)

Username – the username settings provided by your email administrator.

Password - the password settings provided by your email administrator. **Sender Email Address** – the email address of the sender.

Interval – The interval range is 60 to 86400. The default interval is 600 seconds. This determines the time between two video clips, and is only used when you trigger by Always and Schedule.

Send next email after – This determines the interval to send the next video clip after the previous video clip is completed via E-mail. This is only available when you trigger by Motion and Sound.

Send next email after – the alert email interval times

Use SSL-TLS – this is a secure method (please consult your administrator before using this setting). There are three options available, None, SSL-TLS or STARTTLS.

Click the **Test** button to proceed with a test. This will authenticate the email details with your email server.

If the authentication is positive the test will be complete. If the test is a failure, the result will not be successful. Click **Apply** to confirm the configuration settings.

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC
Registration Wizard System Action Action Action Action Action Breashed Sinamed Breashed Breas	SNAPSHOT Snapstor V Aways Snapstor Type Source : Profile 3(configurable in <u>Audio and Video) Target Fraget Fra</u>
	Converter & 2013 TEFMTown All Birlds Boorwood

Preset Position

This screen shows the software Pan/Tilt functions. You can set preset positions for fast authentication. Most of the screen is taken up by the camera image. On the right of the main screen is the Pan/Tilt dial.



Preset Position

- 1. **Preset Name** Enter a name in the field provided to give the position a name.
- 2. Click Add.
- 3. To set a new **Preset Position** Use the Pan & Tilt dial to select your Pan & Tilt speeds and select the position.
- 4. Use the Set As Home button to choose it as your home screen.
- 5. Click the **Default Home** button if you wish to use this configuration as your default home viewing area.
- 6. **Preset Locations** –Is a list of presets you can setup under Preset Position. This list is populated with different camera views and angles.

Preset Locations

The **Preset Locations** is a list of presets you have setup under Preset Position. This list is populated with different camera views and angles.

Patrol Position

This area is where you setup the movement of the Pan/Tilt during a particular time frame. This Patrol Position can be setup with different Pan/Patrol Speeds and Dwelling time(s) in seconds. The Dwelling Time is the duration the camera takes to span a particular area.

- 1. Setup the Preset Position Once you have setup the Preset in the previous configuration list, select it from the Preset Locations.
- 2. Click the **Select** button to transfer this preset to the **Patrol Position**.
- 3. Set the position of your **Preset**. This depends on the priority of Patrol Position which item you want to make your priority.
- 4. For each Patrol Position you can adjust the Dwelling Time (in seconds). This indicates the time needed to span each Preset while Patrolling.
- 5. Click Save to continue and finish the process.

SD Management

SD Card

The TV-IP862IC has a tiny Micro SD card slots at the back of the camera. Micro SD cards are smaller than normal SD cards and require an adapter to work properly in a Micro SD slot. Here you can format the SD card, select how many files you want to display on a page, delete a page and also delete a file. When inserting a Micro SD card for the first time, make sure you don't have any important data stored on the card because once you format the drive that data is lost.

- 1. Format the SD Card
- 2. Select how many files you want to display per page.
- 3. Setup recording by going to Action, Recording.
- 4. Designate space for the recording and click Apply.

5. To delete a file. Select the file from the list, click the Delete checkbox and click **Apply**.

TV-IP862IC

TV-IP862IC

TRENDnet User's Guide

TRENDNET		Wireless HD Day	/ Night PTZ Cloud Camera TV-IP862IC (TRENDret Court
iiw View C Sotup Registration	SD MANAGEMENT Micro SD Card TV-IP862IC / Files per Page 5 V Ro Delete	Sfresh- Name	SD Status : U Pages (0 Size	navailable
Wizard System Network	Format SD Card		Total : KB, Used :	KB, Free : KB
Audio/Video Action • Recording				
• Video Clip • Snapshot • Preset Position • <u>SD Management</u>				
Motion Detection Sound Detection Tools				
Advanced			Copyright © 2013 TRENDnet, All	Rights Reserved.

Motion Detection

In this section there are five configuration parts – Video Motion, Sensitivity, and Drawing Mode. Each of these components derives its feature set from a live video stream.

Motion Detection – Live Video

Video Motion Settings

- 1. Draw a red rectangle around the area on the viewable screen you wish to monitor.
- 2. Click the Enable Video Motion checkbox
- 3. Under **Sensitivity**, enter a percentage of how sensitive you want the motion detection to be. 1% is low and 100% is the most sensitive.
- 4. Click **Apply** to enforce your configuration.

Editing Video Motion Settings

- 1. Under **Drawing Mode**, click **Erase motion area** to erase the red rectangle from the screen and motion field. Or, click the **Clear** button to remove the video motion field.
- 2. Click Apply to accept your configuration changes.



TRENDNET

SOUND DETECTION

Detection Sensitivity Level 70 V

Enable

Sound Detection

Sound detection allows the camera to pick up audio from the TV-IP862IC. When you enable sound detection, the camera listens for sounds based on the sensitivity level you created. The lower the sensitivity level the easier it is for the camera to detect sounds, thereby activating the camera to start recording.

Click the checkbox to enable it. Then, in the drop-down list, next to Detection Sensitivity Level, choose the level you want to use. It ranges from 50-90. Click **Apply** when you are finished.

Wireless HD Day / Night PTZ Cloud Camera TV-IP862IC

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Tools

In this section there are two configuration parts – System, and Firmware Upgrade.

Tools – System

The first configurable option is: Backup Configuration File. Click the **Backup** button to save this file to your local hard drive. Then click Save to save it.



Save As						? 🛛
Save in:	🗀 Images		•	· 🔾 🖉	۳. 📂	
My Recent Documents						
Desktop						
My Documents						
My Computer						
	File name:	settings			*	Save
My Network	Save as type:	Data Base File			~	Cancel

<u>Tools</u>

System

Restore Configuration

This feature allows you to restore the file you just saved above, and restore the system to the configuration it was previously at. Click the Browse button to locate the file. Once you have found the file, click Restore. This puts the file back in the system and you are able to click the Restore button to activate it.



Reset to Factory Defaults

Click the **Reset** button to restore the TV-IP862IC to its original state.

TRENDNET		Wireless HD Day / Night PTZ Cloud Camera TV4P8621C
- Cive View	SYSTEM	
Contraction Registration	Badkup Configuration File	Backup
Wizard	Restore Configuration	CATV-IP862ICIImaj Browse Restore
System	Reset To Factory Defaults	Reset
Network Audio/Video	Reboot Camera	Reboot
Action Motion Detection		
Sound Detection		
Tools		
• <u>System</u> • Firmware Upprade		
Advanced		
		Copyright © 2013 TRENDnet. All Rights Reserved

Reboot Camera

Click the Reboot button to reboot the TV-IP862IC. If the camera should freeze for some reason or if you need to reload software, or restart it when using the Micro SD card click the Reboot button.



Firmware Upgrade

This window shows all the details of your current firmware. It shows your Current Firmware Version number and your Current Firmware Build Number. When you want to upgrade to the latest firmware, go to the TRENDnet website, download the latest firmware, save it to a folder on your computer.

TRENDNET		Wireless HD Da	y / Night PTZ Cloud Camera TV-IP862IC	
- Eve Vew	FIRMWARE INFORMATION			
O ^o Setup	Current Firmware Version:		1.0.0	
Registration	Current Firmware Build Number:		3125	
	Current MCU Firmware Version:		0x7	
Wizard	Current Agent Version:		2.087	
System				
Network	FIRMWARE UPGRADE			
Audio/Video	File Path:	Browse	Upload	
Action				
Notion Detection				
Sound Detection				
Tools				
System				
Eirmware Upgrade				
Advanced				
			Consister © 2013 TOENDoor	All Dichts Desenand

- 1. Click the **Browse** button to locate the firmware on your computer.
- 2. Select the file, click **Open**.
- 3. Click OK to continue.
- 4. A warning message appears at the top of the screen asking you not to turn anything off.



Advanced

Advanced – Device Info In this section there are two configuration parts – Device Info and Log. Advanced – Device Info – Information

The Device Information highlights everything about the TV-IP862IC camera. All information refer to the primary software functions on the TV-IP862IC. The list includes the following:

Camera Name – the name of the camera – TV-IP862IC. Time and Date – the current time and date on the camera. **Firmware Version** – the latest firmware running on the camera. Firmware Build Number – the software factory build number. **Agent Version** – This is the agent number. MAC Address – This is the MAC address assigned to the device. IPv4 Address – the current IP address. IPv4 Subnet Mask – the current Subnet Mask. IPv4 Default Gateway – the gateway of your router. **IPv4 Primary DNS** – the primary DNS assigned by your router. IPv4 Secondary DNS – the secondary DNS assigned by your router. Search Domain – This refers to the domain you use in public. **IPv6 Address/Prefix Length** – This is the current IPv6 address and prefix length. **IPv6Default Gateway** – This is the IPv6 gateway. IPv6 Primary DNS – This is the IPv6 Primary DNS. IPv6 Secondary DNS – This is the IPv6 secondary DNS. **PPPoE Status** – if you are using PPPoE will show success otherwise if you are not using it, it will show a failure DDNS Status – this will be disabled if you are not using DDNS.

	и	Vireless HD Day / Night PTZ Cloud Camera TV4P8621C
- LiveView INFC	ORMATION	
Cam	iera Name	TV-IP862IC
Registration	e & Date	2013/1/2 04:03:55
Eim	ware Version	1.0.0
Wizard	ware Build Number	3125
Ager	nt Version	2.087
System	Address	D8:EB:97:D2:2A:A8
Network	Address	192.168.2.11
Audio/Video	Subnet Mask	255.255.255.0
Action IPv4	Default Gateway	192.168.2.1
Notion Detection	Primary DNS	172.19.10.99
Sound Detection	Secondary DNS	172.19.10.100
Sear	rch Domain	
Tools	Address/Prefix Length	fe80::daeb:97ff:fed2:2aa6/64
Advanced	Default Gateway	
Device Info IPv8	Primary DNS	
• Log	Secondary DNS	
PPP	oE Status	Disabled
DDN	IS Status	Disabled
		Convicts © 2013 TRENDort All Biobts Reserved

Advanced – Log

These settings display the **Current Log** of the device. Click the **Clear** button to reset the log or click the **Download** button to download a file in txt format

TRENDNET	Wireless HD Day / Night PTZ Cloud Camera TV4P862IC
Circl Live View	CURRENT LOG 2013-01-01 22 23:34 admin, 192.108.210 is streaming video. 2013-01-01 22 23:49 admin, 192.108.210 is streaming video. 2013-01-01 22:40.44 admin, 192.108.210 is streaming video. 2013-01-01 22:60.95 admin, 192.108.210 is streaming video.
Wizard System	Clear Download
Network Audio/Video	
Motion Detection Sound Detection	
Tools Advanced	
• Device Info • Log	
	Copyright 0 2013 TRENDret. All Flights Reserved.

Registration

Click the **Registration** tab to redirect you to the TRENDnet website.



When you click the Registration button, you are redirected to the TRENDnet registration website.

Sector Sectors			B DEVENCE INC FIELD ST 1.44 X Cd Could	
File Edit View Favorites Tosis Help	×	anvert · 🔂 Select		
Revortes	legistration			
(TRENDNET		Networks People Trust*	
	Company Products V	there to Bay Press Suggest Describeds Partners Mor	THEREPORT	
	Tabled States (sharps)		neede 🗌 🖬	
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	Augus Matus Not logged in			
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TRENDnetVIEW Pro Software

Click Autorun.



Click on the link, Install TRENDnetVIEW Pro Software, to install it.



Using the proprietary-based configuration interface

This section describes the how to setup a camera using the TRENDnetVIEW Pro camera monitoring software. To install TRENDnetVIEW Pro on a system running Windows, launch the TRENDnetVIEW Pro installation software on the installation CD-ROM and follow the setup instructions. Once the software is installed, the TRENDnetVIEW Pro camera monitoring utility is ready for use. Add up to 32 network cameras to monitor using the software. Additional software, TRENDnetVIEW Pro Player software is also installed. The TRENDnetVIEW Pro Player is used for playing recorded video from cameras that have been configured to save recorded files.

Running the Software

When the wizard starts, you have the option to select a language. The default is **English**. Alternatively, there are 13 other languages to choose from. Select the one that best suits your needs.

Select Setup Language			
12	Select the language to use during the installation:		
	English OK Cancel		

The next screen displays the Welcome screen. Click **Next** to continue. Follow the screen to finish the installation.

Setup - TRENDnetVIEW Pro	
	Welcome to the TRENDnetVIEW Pro Setup Wizard
	This will install TRENDnetVIEW Pro 2.3.3 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

Please view the **TRENDnetVIEW Pro User Guide** for more details on the software.

Troubleshooting

1. The Power LED and Ethernet Activity LED do not light up.

The power supply or camera might be faulty. Check that the connection to both the power source and the terminal on the back of the camera are secure and that you are using the provided power supply. If the camera is otherwise functioning correctly, the LEDs might have been disabled in the configuration. See the section of this guide on Configuration of System settings.

2. The camera can't be accessed or access is slow

There might be a problem with the network cable. To confirm that the cables are working, ping the address of a known device on the network. If the cabling is OK and your network is reachable, you should receive a reply similar to the following (...bytes = 32 time = 2 ms).

Another possible problem may be that the network device such as a hub or switch utilized by the Network Camera is not functioning properly. Please confirm the power for the devices are well connected and functioning properly.

3. The camera can be accessed locally but not remotely

This might be caused by a firewall. Check the Internet firewall with your system administrator. The firewall may need to have some settings changed in order for the Network Camera to be accessible outside your local LAN. For more information, please refer to the section about installing your camera behind a router.

Make sure that the Network Camera isn't conflicting with any Web server you may have running on your network.

The default router setting might be a possible reason. Check that the configuration of the router settings allow the Network Camera to be accessed outside your local LAN.

4. White vertical lines appear on the image from the camera

It could be that the CMOS sensor (a square panel situated behind the lens that measures the light signals and changes it into a digital format so your computer can present it into an image that you are familiar with) has become overloaded when it has been exposed to bright lights such as direct exposure to sunlight or halogen lights. Reposition the Network Camera into a more shaded area immediately as prolonged exposure to bright lights will damage the CMOS sensor.

5. The camera images are 'noisy'

Often if the camera is in a low-light environment, the images can contain a lot of noise. Try enabling Night mode and see if that improves the image quality. Otherwise, try to use the camera in a location where there is a bit more light.

6. The camera images are of poor quality.

Make sure that your computer's display properties are set to at least 16-bit color. Using 16 or 256 colors on your computer will produce dithering artifacts in the image, making the image look as if it is of poor quality.

Try also adjusting the brightness, contrast, saturation, light frequency and antiflicker controls on the Video Settings under the Configuration menu. You may also consider adjusting the resolution of the camera and the compression rate to improve the image.

7. Video can't be viewed through the web browser interface.

ActiveX might be disabled. If you are viewing the images from Internet Explorer make sure ActiveX has been enabled in the Internet Options menu. You may also need to change the security settings on your browser to allow the ActiveX plug-in to be installed.

If you are using Internet Explorer with a version number lower than 6, then you will need to upgrade your Web browser software in order to view the streaming video transmitted by the Network Camera. Try also viewing the video using Java. Ensure that you have the latest version of Java installed before you do. Go to <u>www.java.com</u> for more information.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

RoHS

This product is RoHS compliant.



TRENDnet hereby declare that the product is in compliance with the essential requirements and other relevant provisions under our sole responsibility.

Safety

EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013

EMC

EN 301 489-1V1.9.2: 09-2011EN 301 489-17V2.2.1: 09-2012

Radio Spectrum & Health

EN 300 328 V1.9.1: 02-2015 EN 62311: 2008

Energy Efficiency

Regulation (EC) No. 1275/2008, No. 278/2009

This product is herewith confirmed to comply with the Directives.

Directives

Low Voltage Directive 2006/95/EC and 2014/35/EU EMC Directive 2014/30/EU R&TTE Directive 2014/53/EU and RED Directive 2014/53/EU EMF Directive 1999/519/EC Ecodesign Directive 2009/125/EC RoHS Directive 2011/65/EU REACH Regulation (EC) No. 1907/2006





This device is a 2.4GHz Wideband transmission system (transceiver), intended for use in all EU member state and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

This device is designed to provide uninterrupted monitoring and/or recording. This device does not offer power management functionality such as Off mode or Standby mode or network standby mode.

IMPORTANT NOTE: NCC AND FCC Warning Statement

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

Note: This country code selection is for non-US models only and is not available to all US models. Per FCC regulation, all WiFi products marketed in the US must be fixed to US operation channels only.

以下警語適用台灣地區

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變

更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾 現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信, 指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工 業、科學及醫療用電波輻射性電機設備之干擾。 This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Limited Warranty

TRENDnet warrants only to the original purchaser of this product from a TRENDnet authorized reseller or distributor that this product will be free from defects in material and workmanship under normal use and service. This limited warranty is nontransferable and does not apply to any purchaser who bought the product from a reseller or distributor not authorized by TRENDnet, including but not limited to purchases from Internet auction sites.

Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service. Specific warranty periods are listed on each of the respective product pages on the TRENDnet website.

• AC/DC Power Adapter, Cooling Fan, and Power Supply carry a one-year warranty.

Limited Lifetime Warranty

TRENDnet offers a limited lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015.

• Cooling fan and internal power supply carry a one-year warranty

To obtain an RMA, the ORIGINAL PURCHASER must show Proof of Purchase and return the unit to the address provided. The customer is responsible for any shipping-related costs that may occur. Replacement goods will be shipped back to the customer at TRENDnet's expense.

Upon receiving the RMA unit, TRENDnet may repair the unit using refurbished parts. In the event that the RMA unit needs to be replaced, TRENDnet may replace it with a refurbished product of the same or comparable model.

In the event that, after evaluation, TRENDnet cannot replace the defective product or there is no comparable model available, we will refund the depreciated value of the product.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of-purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use, or (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet within the applicable warranty period and providing a copy of the dated proof of the purchase. Upon proper submission of required documentation, a Return Material Authorization (RMA) number will be issued. An RMA number is required in order to initiate warranty service support for all TRENDnet products. Products that are sent to TRENDnet for RMA service must have the RMA number marked on the outside of return packages and sent to TRENDnet prepaid, insured and packaged appropriately for safe shipment. International customers

Limited Warranty

TRENDnet User's Guide

shipping from outside of the USA and Canada are responsible for any return shipping and/or customs charges, including but not limited to, duty, tax, and other fees.

Refurbished product: Refurbished products carry a 90-day warranty after date of purchase. Please retain the dated sales receipt with purchase price clearly visible as evidence of the original purchaser's date of purchase. Replacement products may be refurbished or contain refurbished materials. If TRENDnet, by its sole determination, is unable to replace the defective product, we will offer a refund for the depreciated value of the product.

WARRANTIES EXCLUSIVE: IF THE TRENDNET PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDNET'S OPTION, REPAIR OR REPLACE. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, OR USE OF TRENDNET'S PRODUCTS.

TRENDNET SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THAT THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLECT, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR OR MODIFY, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING, OR OTHER HAZARD.

LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW, TRENDNET ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN

CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATE, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT TRENDNET'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

Governing Law: This Limited Warranty shall be governed by the laws of the state of California.

Some TRENDnet products include software code written by third party developers. These codes are subject to the GNU General Public License ("GPL") or GNU Lesser General Public License ("LGPL").

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Product Warranty Registration

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

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