User's Guide

TRENDNET



Outdoor 2MP Full HD PoE Day/Night Dome Network Camera

TV-IP342PI

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Product Overview



TV-IP343PI

Package Contents

- TV-IP342PI
- Multi-Language Quick Installation Guide
- CD-ROM (Utility, Software & User's guide)
- Power adapter (12V DC. 1A) (1.5M / 5 ft.)
- Network cable (1.5 M/ 5 ft.)
- RJ-45 coupler
- Camera Mounting hardware

Features

The Outdoor 2MP Full HD PoE Day/Night Dome Network Camera, model TV-IP342PI, offers 15 m (50 feet) night vision, an IP66 weather rating, tamper detection, and 3x manual optical zoom for installation flexibility. Record full 1080p HD video (1920 x 1080) at 30 fps in a space saving H.264 compression format. Manage up to 32 TRENDnet cameras with included complimentary software and mobile apps.

Resolution

Record 2 Megapixel Full 1080p HD, 1920 x 1080 at 30 fps, in the space saving H.264 compression format

Multi-Language Interface Support for English, French, Spanish, German, and Russian

Time and Text Stamp Enable time and additional identifying text stamp overlays

IPv6 IPv6 support

ONVIF ONVIF v2.20 and v1.01 compliant

Dynamic DNS Support Support for dyn.com, no-ip.com, and iptecno.com

Samba Support Record video to a defined network storage device

Tamper Detection

Receive tamper detection video clips via email, ftp, or save to network storage device or Micro-SD card

D-WDR

Improved image quality in high contrast light environments with Digital Wide Dynamic Range technology

Image Rotation

90 degree and 180 degree rotation for wall and ceiling installations

Motion Detection

Create up to 3 motion detection windows with separate sensitivity settings and event triggers

Privacy Masks

Create up to three privacy masks to conceal sensitive areas

Product Hardware Features

Camera Overview



Weatherproof housing

- IR Lens: IR lens for the camera.
- Weatherproof Housing: Housing is rated with IP66.

Camera Connectors



- Ethernet/PoE Port: Plugs the network cable to connect to your local area network (LAN). If you are using the PoE, you must have the network cable connect to your PoE switch or PoE Injector.
- **Power Connector:** Connects the power adapter to supply power to the camera if using non-PoE connection
- **Speaker Out**: Connects an external audio device (such as the active speaker) to deliver sound via the camera.
- **Microphone In**: Connects an external microphone to receive the on-the-spot sound where the camera is installed.
- **BNC Video Out**: Connect a CRT monitor or handheld monitor.
- **GPIO Port**: Connect external device. Please refer to I/O setting paragraph. It's also used for IP camera reset. Please refer to Factory Default paragraph.

Installation

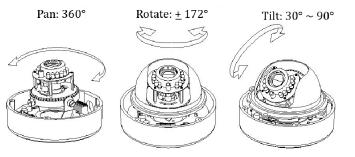
Hardware Installation

Viewing Angle

Choose a location that has good angle to shoot the image you expect to see. The motion detection area should also be considered when installing the camera.

Manual Pan/Tilt

The camera can manual pan/tilt to your desired location.



Vari-Focal Lens

The camera equipped with external vari-focus lens control. Achieve clear focus by adjusting the zoom/focus button.



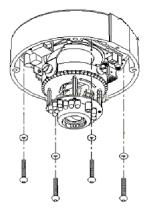
Waterproofing

The camera is designed to be waterproof. However, you need to protect the connectors from water damage. For example, you can tape the junction points of the connectors while you connect the cables or purchase a weatherproof cable/power cord protector.

Vandal Dome Installation Tips

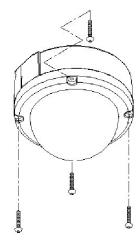
In order to ensure IP66 waterproof level, please install the vandal dome according to the instructions.

- a. The unused cable outlet hole must be closed and the waterproof connector on the used hole must be firmly locked.
- b. We recommend the bottom of housing be set and firmly sealed on a smooth flat surface.
- c. When mounting the camera housing on a ceiling or wall, please use the screws with the black rubber o-rings. Without the o-ring, water may seep into the machine.



d. Turn and loosen the control stick, shift right and left to adjust the vari-focal lens until the image becomes clear, then turn and tighten the stick to fix it.

- e. Before closing the dome cover, make sure that the black rubber band sticks to the inside of the cover completely. If the rubber band is crooked or uneven, it may cause the camera to no longer be waterproof.
- f. Lock the screws on the dome cover tightly to ensure there's no gap between the lid and the base.



Note: When connecting cables into machine, it is recommended to use a hose to include all the cables inside instead of plugging in several cables separately. Water may seep through a gap from bundled cables. You can also seal the connector hole with silicone after installation.

Camera Installation

2.

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

TRENDNET	Select your language: English 👱
Outdoor 2MP Full HD PoE Day/Night Dome Network Camera TV-IP342PI	Install Cemera Install TRENDnetVIEW Pro Software Quick Installation Guide User's Guide Product How-Tos Product Registration

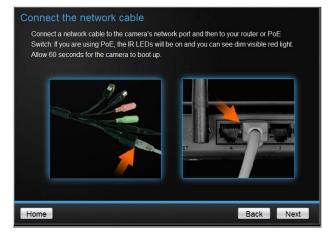
3. Write down the MAC ID of the camera.



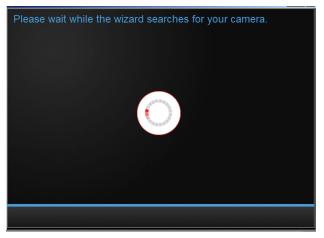
4. Plug in and connect the power adapter to the camera. If you are using the PoE to supply power to the camera, please skip to the next step. Click **Next** when you are done.



5. Connect a network cable to the camera's network port and then to your router. If you are using PoE, please ensure the cable is connected to a PoE switch or PoE injector.



6. Wait while searching the cameras.



7. The founded cameras will show on the screen. The camera already selected by default if you have only one camera installed. If you have more than one camera in the same Network, you will need to identify the camera by the MAC ID. Click Next.

Select your camera	
The following cameras were on Camera you are going to setu	detected on your network. Check the MAC address of the IP up and select it from the list.
Model	Mac Address
TV-IP343PI	FF:FF:FF:FF:FF
	MAC address: confirm that the camera is powered up, nected to your network, and then click the Retry button.
Home	Retry Back Next

8. Select "DHCP" option to assign an IP by DHCP server or Select "Fixed IP" to set IP address manually. Click **Next**.

Selec	Select a Connection Option			
		inection option based on your network environment. If you do not know ption to choose, select DHCP.	v	
	o DHCP	Select this option if your camera is connected to a router and DHCP is enabled		
	Fixed IP	Select this option if you want to configure the camera with a static IP address		
Home	e	Back	ext	

9. If you select "Fixed IP", fill out the IP address, subnet mask, default gateway, DNS server. Please ensure that the IP address of the camera and the computer must within the same network. Click **Next**.



10. Type in the Password. The default password is "admin". You must change the default password of the camera. Enter the default password: admin and enter the new password. The password must be between 8 and 32 characters. (Alphanumeric: a-z, A-Z, 0-9), and confirm the new password by entering the password twice.

Chan	ige Password			
You	MUST change the default pass Enter the default password: Enter your new password. m 0-9, Special Characters: !,@	admin lust be between 8 and 32 c	haracters.(Alphanumeri	ic: a-z, A-Z,
	Admin ID	admin		
	Password	••••		
	Change Password			
	New password	•••••		
	Confirm new password	•••••		
Home	•		Back	Next

11. Click the hyperlink to access to the camera's web page or click **Next.** It is recommended that you access the IP camera now if it was using a DHCP connection.



- TV-IP342PI
- 12. Click **Finish** to exit the program or click **Home** to return to the main screen. This device also supports the Mobile App. Using your mobile device to scan the QR code to install the App.



Configuration

Viewing Camera Basic Function

Open the Web browser on your computer (example showed in this User's Guide is based on the Internet Explorer). In the Address bar, type the IP address you got from "Camera Installation" chapter or found by IP Installer, and then press [Enter].

🙋 New Tab - Windows Internet Explorer					
File	Edit	View	Favorites	Tools	Help

When the login window appears, enter the User name (admin) and Password and press OK to access to the main screen of the camera's Web Configuration.

Login to the TV-IP342PI		
User Name		
Password:		
Language:	English 🔹	
	Login	

Note: if you are initially access to the camera, you will be prompted to install a new plug-in for the camera. Permission request depends on the Internet security settings of your computer. Click **Allow** and **Install** to process.



After you login into the live screen of the camera, the main page will appear as below:



The live screen of the IP camera configuration provides you with many useful information and functions, including:

- **SETUP** : Click the button to configure the camera.
- SNAPSHOT: Click the button to take a snapshot. The snapshot will pop up another window for your review first. Right click the mouse to save the snapshot at the desire destination.
- **System Information**: It shows current system Date, Time, Video Resolution, and Video Refreshing Rate.
- Digital Zoom: The drop down menu has 3 images size available, 1/2x, 1x and 2x. The default is 1/2x.
- Streaming Profile: Use the drop down menu to select Streaming 1 & Streaming 2 video. (If the streaming 2 setting is closed on "AUDIO/VIDEO SETTING >> Video", this option will not appear)

- **(6) Speaker/Microphone**: Click the "Mic" to speak out through the camera. Click the "Speaker" to receive the on-side sound and voice from the camera.
- Online Visitor: It shows how many people connect to this IP camera.
- (8) Relay On: Click the Relay out "ON" to trigger the relay output for testing. click "Off" to stop triggering. To switch between these two types of relay out, please refer to Event Configuration >> GPIO Setting session for detail.
- (9) Logout: Click to logout the camera

One the live view video, right click the mouse for the additional menu options.



2014/MAY/09 11:09:50 Size:1920x1080 FPS: 3

- Snapshot: Save a JPEG picture
- **Record Start**: Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select "Record Stop". The video format is AVI. Use Microsoft Media Player to play the recorded file.
- Mute: Turn off the audio. Click again to turn on it.

The "mute" button does not affect the playback recording video. As long as the "2-Way Audio" option in the audio setting is enabled, all the audio will be recorded into the playback video even you click "mute" in the live page.

- Full Screen: Full-screen mode.
- **Zoom**: Enable zoom-in and zoom-out functions. Select "Enable digital zoom" option first within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.

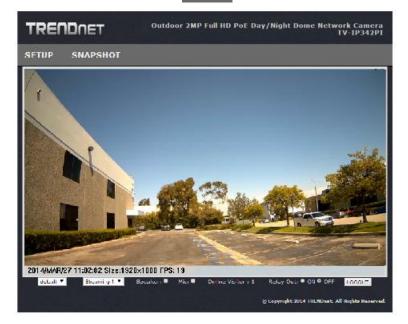


Frame Buffer mSec: This function is to build a temporary buffer to accumulate several video frames. This function can make video smooth-going when the Network speed is slow and lag. If you select "100", then it plays video after 100 mSec when starting receiving images from camera. The slower of the Network is, the bigger value should be selected. The default value is null.

	Snapshot	1	
	Record Start		
	Mute		
	Full Screen		
	Zoom		
	FrameBuffmSec +	\checkmark	Null
_			100
			200
			300
			400
			500

Configuring the Camera Setting

To configure the camera, click **SETUP** on the live screen.



The Web Configuration contains the settings that are required for the camera in the left menu bar, including System, Network, Audio/Video Setting, Event Setting and Logout.

To return to the live screen, please click the LIVE VIEW button.

System

LIVE VIEW	System In	formation	
SYSTEM			
	Server Informa	ntion	
NETWORK	MAC Address:	00:0F:FF:FF:FF.FF	
AUDIO / VIDEO SETTING	Server Name:	TV-IP342PI Status Bar	
	Language:	О English ● Français ● Deutsch ● España ● Росси́я	
EVENT CONFIGURATION			
LOGOUT	OSD Setting		
203001	Time Stamp:	Enabled O Disabled	
	Text:	Enabled O Disabled	
	Text.	OSD_TV-IP342PI Text Edit	
	Time Setting		
	Server Time: 2014/05/05 17:02:42		
	Date Format:	● yyyy/mm/dd ● mm/dd/yyyy ● dd/mm/yyyy	
	Time Zone:	GMT-08:00 Pacific Time (US & Canada)	

System >> System Information >> Server Information

Server Information				
MAC Address:	00:0F:FF:FF:FF:FF			
Server Name:	TV-IP342PI	🗖 Status Bar		
Language:	● English ● Росси́я	Français	Deutsch	España

- MAC Address: It indicates the IP Camera's MAC address.
- Server Name: The Camera name.
- LED Indicator: Turn the LED light on or off by click the ON/OFF button.
- Language: There are 5 languages options. When changing the language, it will prompt dialogue box for confirmation. Click "Yes" to proceed.

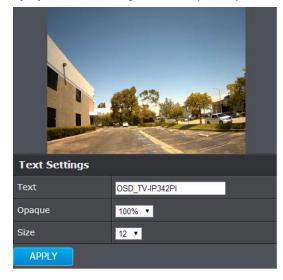
System >> System Information >> OSD Setting

OSD Setting	
Time Stamp:	Enabled O Disabled
Text:	Enabled O Disabled
Text.	OSD_TV-IP343PI <u>Text Edit</u>

- **Time Stamp**: Enable or disable the time that will show on the live screen.
 - Position: After enabling time stamp, you can select the position of time stamp on the live screen.

OSD Setting	
Time Stamp:	Enabled Disabled
Text:	Enabled O Disabled
	OSD_TV-IP342PI Text Edit

- **Text**: Enable the Text option to have the desire text show on the camera live screen.
 - Text Edit: Click it to call out "text edit" window:
 - **Text**: Key in the words you want to show on the live screen.
 - **Opaque**: Set the background transparency of the text.



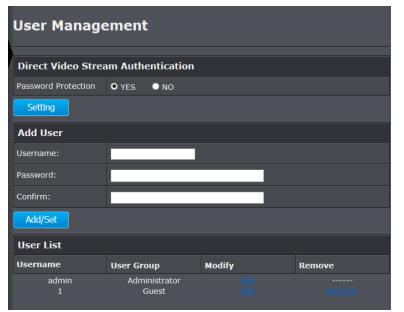
System >> System Information >> Time Setting

Time Setting			
Server Time:	2014/05/05 17:13:01		
Date Format:	♀ yyyy/mm/dd ● mm/dd/yyyy ● dd/mm/yyyy		
Time Zone:	GMT-08:00 Pacific Time (US & Canada)		
Enable Daylight	Saving:		
O NTP NTP Server: pool.n Update: 6 Time Shift: 0	NTP Server: pool.ntp.org		
Synchronize with PC's time Date: 2014/05/05 Time: 18:12:32			
• Manual Date: 2014/ Time: 17:55			

- Server Time: It shows current IP camera server time.
- Date Format: Select the date display format.
- Time Zone: Select your time zone. It affect server time when you use "NTP" time.
- Enable Daylight Saving: select the start and end daylight saving time.
- NTP: Type in the IP address of the NTP server and interval time. The time of the IP camera will be synchronized with NTP server time. To use this option, if the NTP Server is under WAN, the IP camera must be set to access WAN (Using the WAN IP that provide by your ISP provider, or setup by UPnP Port Forwarding (page 18)
- Synchronize with PC's time: In "Date" and "Time" column it shows your current PC time. Click "Apply" to make the IP camera time the same with PC time. Note that IP camera will not check with PC at every moment automatically. Every time when you want to synchronize the IP camera time with PC time again, please select this option and click "Apply".
- Manual: Type in the date and time, and click "Apply".

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System >> User Management



Direct Video Stream Authentication:

To stream the video directly without going through the configuration page, you can access it via Internet.

Stream 1 Video: <u>http://camera_ip_address:port/stream1view.htm</u> Stream 1 Video: <u>http://camera_ip_address:port/stream2 view.htm</u>

- Enable Password Protection:
 - Yes: User needs to enter user name and password to stream the camera.
 - **No:** User can stream the camera without entering the username and password.
- Add user: Enter the username and password to add guest users to access the camera. The guest user can only view the live view video and is not allowed to do any configuration.

• User List: List all users that were added into the camera. Click "Edit" to modify the user information. Click "Remove" to remove the users from the list.

System >> Tools

Tools				
Firmware Upgrade				
Firmware Version:	V1.03.33			
New Firmware:	Browse Upgrad			
System Reboot				
Click the "Reboot" butt	Click the "Reboot" button to reboot your IP Camera.			
Factory Reset				
Click the "Reset" button to reset to factory default settings.				
Configuration				
	Save the device configurations to your local hard drive	2.		
Backup:	Password:	Backup		
	Password:			
Restore:	Browse	Restore		

• Firmware Upgrade:

To update the firmware, click "**Browse**" to select the firmware, then click "**Upgrade**" to proceed. Please do not disconnect power or Network cable during firmware upgrading.

- System Reboot: Click Reboot to reboot the IP camera.
- Factory Reset: Click Reset to reset all the settings back to factory default value
- Configuration:

- Backup: Click Backup to back up the camera configuration file that will be saved on the local computer. A password is required to save a configure file. You will need to enter the same key when restoring the configure file to the camera.
- Restore: Click "Browse..." to select the configure file from your computer then click Restore to restore all setting. A previous saved password on this configure file is required to restore configure file.

<u>NETWORK</u>

LIVE VIEW	Network Setting		
SYSTEM	IP Address Setting		
NETWORK	O DHCP ● Static		
Natural Oatling	IP Address: 192.168.10.30		
Network Setting Advanced	Subnet Mask: 255.255.255.0		
HTTPS	Gateway: 192.168.10.1		
SNMP	DNS 1: 192.168.10.1		
IP Address Filter	DNS 2:		
QoS/DSCP	IPv6 Setting		
IEEE 802.1x	IPv6 Enabled:		
PPPoE & DDNS	Manually setup the IPv6 address:		
Event Server	DHCPv6: • Enabled • Disabled		
AUDIO / VIDEO SETTING	1Pv6 Address: fe80::20f:dff:fe26:9a30		
	Port Setting		
EVENT CONFIGURATION	Web Page Port: 80		
	HTTPS Port: 443 HTTPS Setting		
LOGOUT	Web Authentication		
	Authentication: Digest T		
	UPnP		
	UPnP: Enabled ODisabled		

Network >> Network Setting >> IP Address Setting

IP Address Setting			
• DHCP • Stat	• DHCP • Static		
IP Address:	192.168.10.30		
Subnet Mask:	255.255.255.0		
Gateway:	192.168.1.254		
DNS 1:	192.168.1.249		
DNS 2:	168.95.192.1		

- DHCP: Select this option when your network uses the DHCP server. When the camera starts up, it will be assigned an IP address from the DHCP server automatically.
- Static IP: Select this option to type in IP address, subnet mask, gateway, and DNS manually. Default IP address is 192.168.10.30 if the camera doesn't connect with DHCP server. DNS (Domain Name System) translates domain names into IP addresses. Enter the Primary DNS and Secondary DNS that are provided by the ISP.

Network >> Network Setting >> IPv6 Setting

IPv6 Setting		
🗹 IPv6 Enabled:		
Manually setup the IPv6 address:		
DHCPv6:	Enabled	Disabled
Pv6 Address: e80::20f:dff:fe26:68f6		

IPv6 is a newer numbering system that provides a much larger address pool than IPv4, which accounts for most of today's Internet traffic. You can manually enter IPv6 address , enable DHCPv6 to get IPv6 address automatically.

- Manually setup the IPv6 address: You can set up IPv6 manually by enter IP Address, Gateway, and DNS.
- **DHCPv6**: If you have a DHCPv6 server, enable this option to assign the IPv6 from server. The assigned IP address will be displayed

IPv6 Address: A virtual IPv6 address generated by the IP camera. This virtual IPv6 address cannot use on WAN. To access the IP camera via IPv6 address, open a web browser and type in http:// [IPv6 Address] in the address bar. The [] parentheses mark is necessary for IPv6 address.

Network >> Network Setting >> Port Setting

Port Setting		
Web Page Port:	80	l .
HTTPS Port:	443	HTTPS Setting

- Web Page Port: Setup HTTP web page connecting port which is also video transmitting port (Default: 80)
- **HTTPS Port**: Setup HTTPS connecting port (Default:443)

Network >> Network Setting >> Web Authentication

Web Authentication	on
Authentication:	Digest 🗸

The camera supports two levels of authentication, Basic and Digest. The Basic option having the username and password transmitted as plain text. The digest option encrypted username and password during data transmission. The default authentication is set to Digest.

Network >> Network Setting >> UPnP



TV-IP342PI

• UPnP:

This IP camera supports UPnP (Universal Plug and Play) which is a set of computer network protocols that enable the device to device interoperability

• UPnP Port Forwarding:

When the camera is installed under a router, enable **UPnP Port Forwarding** to let the router open ports so that the video streams can be sent out from a LAN. Set Web Port, Https Port, and RTSP port, and make sure your router supports UPnP and the function has been activated.

After type in the port number and click "Apply", the port forwarding status will display beside the port column. There are three status will show.

- Registered successfully: UPnP port forwarding setting succeeds.
- The router doesn't support UPnP Port Forwarding: The camera can detect the router, but router return a message that it does not support UPnP Port Forwarding.
- The router is with some problems. Please reboot it: The camera cannot detect the router. Please check your router.

If this router has a WAN IP, this function allows the camera to do WAN access. In the address bar of browser, key in: "https:// (router WAN IP) : (external web port) /" to access the IP camera.

Network >> Network Setting >> RTSP Setting



RTSP Server:

Enable it, then you can access camera and get image via RTSP protocol.

If you have a media player that supports RTSP protocol, you can use it to receive the video streaming from IP camera. The RTSP address can be set for two streamings respectively.

RTSP Authentication:

"Disable" means everyone who knows your camera IP Address can link to your camera via RTSP. No username and password are required.

Under "Basic" and "Digest" authentication mode, the camera asks the user to give username and password before allows accessing. The password is transmitted as plain text under basic mode, which provides a lower level of security than under digest mode. Make sure your media player supports the authentication schemes.

- **RTSP Port**: It's used for TCP connection. Setup port for RTSP transmitting (Default: 554)
- **RTSP Start and End Port**: It's used for UDP connection. Setup port for RTSP transmitting (Default: 5000, 9000)

Network >> Network Setting >> Multicast Setting (Based on the RTSP Server)

Multicast Setting (Based on the RTSP Server)				
Stream 1:	Stream 1:			
IP Address:	234.5.6.78	[224.3.1.0 ~ 239.255.255.255]		
Port:	6000	[1 ~ 65535]		
TTL:	15	[1 ~ 255]		
Stream 2:				
IP Address:	234.5.6.79	[224.3.1.0 ~ 239.255.255.255]		
Port:	6001	[1 ~ 65535]		
TTL:	<mark>1</mark> 5	[1 ~ 255]		

Multicast is a bandwidth conservation technology. This function allows several users to share the same packet sent from IP camera. To use Multicast, appoint IP Address and port here. TTL means the life time of packet. The larger the value is, the more users can receive the packet.

To use Multicast, be sure to enable the function "Force Multicast RTP via RTSP" in your media player. Then key in the RTSP path of your camera: "rtsp://(IP address)/" to receive the multicast.

Network >> Network Setting >> ONVIF

ONVIF	
ONVIF:	Ov2.20 Ov1.01 ODisabled
Security:	•Enabled •Disabled
RTSP Keepalive:	OEnabled ODisabled

Under ONVIF connection, the video will be transmitted by RTSP. Be sure to enable the RTSP server in IP setting, or you're not able to receive the video via ONVIF.

• ONVIF:

Choose your ONVIF version. The two devices that use ONVIF to communicate should be set to the same version.

Security:

Select "Disable", then the username and password are not required when accessing the camera via ONVIF. Select "Enable", then username and password are necessary.

RTSP Keepalive:

When the function is enabled, the camera checks once in a while if the user who links to the camera via ONVIF still keeps connecting. If the connection had been broken, the camera stops transmitting video to user.

Network >> Network Setting >> Bonjour

Bonjour		
Bonjour:	Enabled ODisabled	
Bonjour Name:	TV-IP343PI @00:	OF:0D:26:41:40

This function enable Safari browser's bookmark to link to this IP camera. The Bonjour name is the name that display in the bookmark. Please note the Bonjour function on

Safari browser does not support https protocol. If you selected "https" mode, you will see the camera appears on Safari's bookmarks but will not be able to access the camera.

Network >> Network Setting >> LLTD

LLTD (Link Layer Topology Discovery)		
LLTD:	Enabled	ODisabled

If your PC supports LLTD, enable this function then you can check the connection status, properties, and device position(like IP address) of this IP Camera in the network map. In Windows Vista or Windows 7, you can find LLTD through the path: Call out the Control Panel \rightarrow Network and Internet \rightarrow Network and Sharing Center \rightarrow Click "See full map".

Network >> Advanced >> HTTPS

When the users access cameras via Https protocol, the transmitted information will be encrypted so that the security level is arisen.

You can select the connection type.

- **Http**: user can access the camera via Http path.
- Https: user can access the camera via Https path but cannot via Http path.
- Http & Https: Both the Http and Https path can be used to access the camera. When you change the setting of connection type, it may cause connection error or disconnection error if you switch the protocol directly. Therefore, Http & Https mode is necessary. If you want to change from Http to Https, please switch to "Http & Https" mode first, and then switch to "Https" mode. Same method when you change from Https to Http.

The Https protocol has certificate verifying mechanism. When the user access a website via Https, the browser will check the certificate of that domain and verify its trustiness and secure.

Certificate generation process:

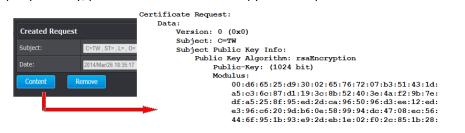
1. **Remove the existing certificate**: Before you generate a new certificate, please remove existing one. Select "Http" connection type and click "Remove". If a dialog box pops up to ask you to confirm, click "Yes".

HTTPS Setting			
Created Request			
Subject:	C=TW , ST= , L= , O= , OU= , CN=		
Date:	2014/Mar/12 16:56:10		
Content	Remove		
Installed Certifie	cate		
Subject:	C=TW, ST=, L=, O=, OU=, CN=		
Date:	Mar 14 08:45:42 2038 GMT		
Content	Remove		
Connection Types			
HTTP V			

2. Created Request: Fill in the following form and click "apply".



3. After you generate a certificate request, if you choose to turn it to the trusted thirdparty to verify, please click "Content" and copy all the request content.



- 4. According to the certificate source, there are two ways to install the certificate.
 - If you had sent the certificate request to do sign and received a signed certificate, please click" browse" and find the certificate file in your computer. Click "Apply" to install it.
 - If you choose to generate a self-signed certificate, fill in the following forms and set validity day, click "Apply" to finish installed it.

Create Self-Signed Certificate	
Country:	
State or province:	
Locality:	
Organization:	
Organizational Unit:	
Common Name:	
Validity:	Days

After finishing installation, you can click "Content" to call out and check the certificate content.

Installed Certificate	
Subject:	C=TW , ST= , L= , O= , OU= , CN=
Date:	Apr 26 02:45:20 2014 GMT
Content	

5. To use Https to access camera, open your browser, and key in "https://(IP address)/" in the address bar. Now your data will be transmitted via encrypted communications, and the browser will check your certificate status. If it shows you a warning message. The warning message meant that the certificate is self-signed or signed by distrusted institution. Click **Continue to this website** to view the view the camera.

8	There is a problem with this website's security certificate.	
	The security certificate presented by this website was not issued by a trusted certificate authority. The security certificate presented by this website has expired or is not yet valid. The security certificate presented by this website was issued for a different website's address.	
	Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.	
	We recommend that you close this webpage and do not continue to this website.	
	Click here to close this webpage.	
	Continue to this website (not recommended).	
	More information	

Network >> Advanced >> SNMP

SNMP (Simple Network Management Protocol) provides a simple framework for administering networked hardware. To manage the IP camera, you have to prepare a MIB browser or similar tools first. SNMPv1, SNMPv2c, and SNMPv3 can be enabled simultaneously.

The following examples are based on MG- SOFT MIB Browser. Depending on your MIS Browser, you may see different interface and options. Please refer to the user manual of your MIB Browser.

• SNMPv1 and SNMPv2:

SNMPv1 SNMPv2c		
Write Community:	write	
Read Community:	public	

The term "Community name" in SNMPv1 and SNMPv2c can be roughly regarded as key. The person who has the community name has the authority to read or edit the information of IP camera via SNMP.

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Click the box to enable SNMPv1 or SNMPv2c protocol, and specify the community name for write (read and write) and read (read-only). The user who use read community name to access the IP camera cannot modify any data of the camera. The community name can be any English characters and numbers, and must be shorter than 31 bits.

SNMPv3:

SNMPv3	
Write Security Name:	write
Authentication Type:	O MD5 O SHA
Authentication Password:	
Encryption Type:	O DES 🔍 AES
Encryption Password:	
Read Security Name:	public
Authentication Type:	O MD5 O SHA
Authentication Password:	
Encryption Type:	O DES 🔍 AES
Encryption Password:	

For data security reason, the authentication and encryption assurances are added when developing SNMPv3. The user has to give not only the security name (similar with "community name" in v1&v2c) but the password in order to access the IP camera. Please set security name, authentication type, authentication password, encryption type, encryption password of write and read respectively. The security name can be any English characters and numbers, and must be shorter than 31 letters. The password must be 8~64 letters in length.

Different from in SNMPv1 and v2c, the user have to create an account when using SNMPv3. In the account parameters, key in the security name and password you set in the camera to get accessing.

• SNMPv1/SNMPv2 Trap:

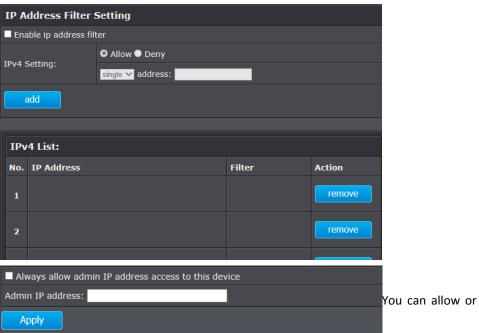
SNMPv1/v2c Trap		
Trap Address:		
Trap Community:	public	
Trap Event:	 Cold Start Setting Changed Network Disconnected V3 Authentication Failed SD Insert/Remove 	

Trap is a mechanism that allows a managed device to send messages to the manager instead of waiting passively for polling from the manager. Specify the trap event. When those events occur, the camera will send the ring message to the Trap Address, which is usually the manager's IP address. Trap Community means the community that can receive the trap message.

Note: Trap Address must be under the same LAN with IP camera.

- **Cold Start**: The camera starts up or reboots.
- **Setting changed**: The SNMP setting is changed.
- **Network Disconnected**: The network connection was broken down. (The camera will send trap messages after the network being connected again)
- V3 Authentication Failed: A SNMPv3 user account tries to get authentication but failed. (Due to incorrect password or community)

Network >> Advanced >> IP Address Filter



deny an IP address or even a range of the IP address to access the IP camera. If you would like to deny a range of IP address but would allow an IP within that range can access the camera, please setup the allow IP address in the 1st priority and set the deny range of IP address as 2nd priority as example below.

IPv4 List:			
No.	IP Address	Filter	Action
1	192.168.1.23	allow	remove
2	192.168.1.1-192.168.1.254	deny	remove

Network >> Advanced >> QoS/DSCP

QoS/DSCP Setting		
Enable QoS/DSCP		
Live Stream:	0 (0~63)	
Event / Alarm:	0 (0~63)	
Management:	0 (0~63)	

DSCP specifies a simple mechanism for classifying and managing network traffic and provide QoS on IP networks. DSCP is a 6-bit in the IP header for packet classification purpose.

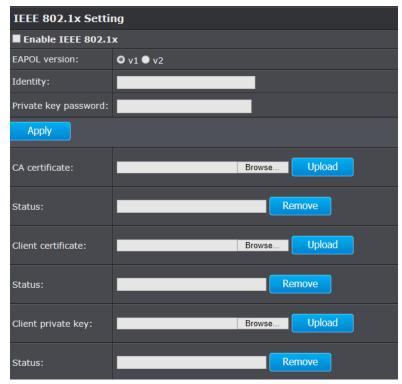
The number 0~63 for Live Stream, Event / Alarm, and Management represent the ratio that the bandwidth is divided. For example, if you set 5, 10, and 20 for these three items, then the bandwidth of these items is 5:10:20. The item getting more bandwidth has lower probability to be delayed. There is no difference between setting "0, 0, 0" or "63, 63, 63" because under these two setting the three items will get equal bandwidth (1/3).

The three stream control the protocols respectively:

- Live Stream (Video and audio) : RTP / RTSP
- Event/Alarm : FTP / SMTP / SAMBA / SIP
- Management : HTTPS / HTTP / SNMP ٠

Note: The "Management" stream handles both the live view and the setting area of the web page on which the data is transferred via http/https protocol. If you prefer to distribute more bandwidth when using the web browser to watch the live video, please adjust the Management Stream instead of Live Stream.

Network >> Advanced >> IEEE 802.1x



IEEE 802.1x is an IEEE standard for port-based Network Access Control. It provides an authentication mechanism to device wishing to attach to a LAN or WLAN. To use this function, you need a device to build IEEE 802.1x LAN at first.

The EAPOL protocol support service identification and optional point to point encryption over the local LAN segment.

Please check what version of the authenticator and authentication server support. This camera supports EAP-TLS method. Please enter ID, password issued by the CA, then upload related certificates.

Network >> PPPoE & DDNS

PPPoE & DDNS	
PPPoE Setting	
Enable:	Enabled Disabled
Username:	
Password:	
Send mail after PPPoE dialed:	Enabled
Subject:	PPPoE_TV-IP343PI
DDNS Setting	
Enable:	Enabled O Disabled
Provider:	www.noip.com 🗸
Hostname:	
Username:	
Password:	
Schedule Update:	1440 Minutes
State	
Idle	A
Note:	

1. Update Schedule: DDNS will be updated automatically. The time range is from 60 to 5000 minutes. If you do not wish to obtain updates, enter "0".

 For dyn.com and 3322.org, it is recommended that updates are done once per day (1440 minutes). Your account may be blocked if frequent updates are detected.

PPPoE

PPPoE Setting	
Enable:	Enabled ODisabled
Username:	
Password:	
Send mail after PPPoE dialed:	Enabled
Subject:	PPPoE_TV-IP343PI

Select "Enabled" to use PPPoE. Type in the username and password for the ADSL connection.

Send mail after dialed: When successfully connecting to the internet, it sends a mail to a specific mail account. As for the mail account setting, please refer to Server setting page.

DDNS

DDNS Setting	
Enable:	Enabled Disabled
Provider:	www.noip.com 🗸
Hostname:	
Username:	
Password:	
Schedule Update:	1440 Minutes

This camera supports following Dynamic DNS server: Dyndns.com, 3322.org, noip.com and IPTECNO DDNS.

Enable DDNS, and select a DDNS provider. Some providers will ask you to register and get an account before you use their service. Fill in the user name, hostname, and password (if need). If setting up IP schedule update too frequently, the IP may be blocked. In general, we suggest set schedule update to once a day (1440 minutes). After click "Apply" the setting.

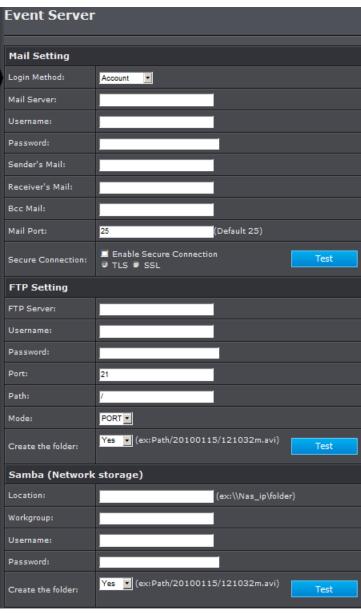
DDNS Status:

- Updating: Information update
- Idle: Stop service
- DDNS registration successful, can now log by http://<username>.noip.com: Register successfully.
- Update Failed, the name is already registered: The user name has already been used. Please change it.
- Update Failed, please check your internet connection: Network connection failed.
- Update Failed, please check the account information you provided: The server, user name, and password may be wrong.

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Network >> Event Server



The settings of Email, FTP and SAMBA are used when the event occurs, schedule snapshot executes, or the alarm input is triggered. Select the item to display the detailed configuration options. You can configure either one or all of them.

• Mail Setting

Mail Setting	
Login Method:	Account 🗸
Mail Server:	
Username:	
Password:	
Sender's Mail:	
Receiver's Mail:	
Bcc Mail:	
Mail Port:	25 (Default 25)
Secure Connection:	■ Enable Secure Connection Test

- Login Method: Select "Anonymous" to disable the authentication feature, or select "Account" and then enter the Username and Password according to the mail server configuration.
- Mail Server: Enter the mail server address. For example, myserver.com. If you are using a free mail service (e.g. Google gmail.com[®], Yahoo[®], Hotmail[®]), please enter the SMTP server address from the service provider.
- **Username & Password**: Enter the sender's username and password to login the mail server. For free mail server, please the email address as the username.
- Sender's Mail: Enter the email address of the user who will send the email.
- Receiver's Mail: Enter the mail address of the user who will receive the email.
 Use semicolon to separate each address. It can contain up to 64 characters in the column.
- Bcc Mail: Enter the mail address of the blind carbon copy receiver.
- **Mail Port**: Assign the SMTP port in the text box. The default SMPT port is 25. For the free mail service, please enter the correct port number from the service provider.

 Secure Connection: If the mail server requires an encrypted connection, you should select the SSL option. TTLS is an extension to plain text communication protocols. It offers a way to upgrade a plain text connection to an encrypted (TLS or SSL) connection.

Click **Apply** to save the setting, then use **Test** button to test the server connection. A message box will tell you "OK!" if it works, and a test e-mail will be sent to receiver's mail address.

• FTP Setting:

FTP Setting	
FTP Server:	
Username:	
Password:	
Port:	21
Path:	1
Mode:	PORT V
Create the folder:	Yes ✓ (ex:Path/20100115/121032m.avi)

- **FTP Server**: Enter the IP address of the target FTP server.
- Username & Password: Enter the username and password to login into the FTP server.
- **Port**: Enter the port number used for the FTP server.
- **Path**: Enter the destination folder for uploading the images. For example, /342PI.
- Mode: In PORT mode, the FTP server builds the connection to the user's data port actively. However, from the user-side firewall's standpoint, the action of connecting from FTP server is often considered to be dangerous and should be blocked. In PASV mode, the problem is solved: The FTP server waits for the data transmission connection built by the user. Make sure that the server supports the mode you select.

- **Create the folder**: Select Yes, then folders will be created folder by date under your FTP path.

Click **Apply** to save the settings, then click **Test** button to test the server connection. A message box will tell you "OK!" if it works, and a test file will be uploaded to FTP server.

• Samba Setting:

Samba (Network storage)			
Location:	(ex:\\Nas_ip\folder)		
Workgroup:			
Username:			
Password:			
Create the folder:	Yes ♥ (ex:Path/20100115/121032m.avi) Test		

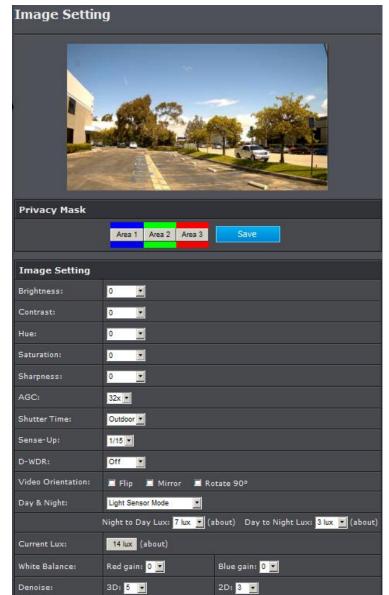
- **Location**: Enter the path of the shared folder.
- **Workgroup**: Type in the workgroup name of the computer.
- Username & Password: Enter the username and password to login into the Samba.
- Create the folder: Select Yes, then folders will be created by date under your Samba Server.

Click **Apply** to save the setting, then use **Test** button to test the server connection. A message box will tell you "OK!" if it works, and a test file will be created in the location.

AUDIO/VIDEO SETTING

	Image Settir	ıg
SYSTEM		l l
NETWORK		
AUDIO / VIDEO SETTING		all the state of the
Image Setting		
Video		
Audio		
EVENT CONFIGURATION	200	
	Privacy Mask	
LOGOUT		Area 1 Area 2 Area 3 Save
	Image Setting	
	Brightness:	
	Contrast:	
	Hue:	
	Saturation:	0
	Sharpness:	
	AGC:	32x 💌
	Shutter Time:	Outdoor
	Sense-Up:	1/15 💽
	D-WDR:	Off 💽
	Video Orientation:	📕 Flip 📕 Mirror 📕 Rotate 90°

Audio/Video Setting >> Image Setting



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 Privacy Mask: For the security and privacy purpose, there are three areas can be setup for privacy mask. Click Area button first and drag an area on the above image, and remember to save your setting. The masked area will not show on both the live view and recording.



- Brightness, Contrast, Hue, Saturation, Sharpness can be adjusted here.
- AGC: Automatic gain control. The sensitivity of camera can be adjusted with the environmental light. Enable this function and the brighter image can be got under dim light, but the level of noise may also increase.
- **Shutter Time**: Choose as the location of your camera or fixed shutter time. The shorter the shutter time is, the less light the camera receives and the image becomes darker.
- **Sense-Up**: This function increases the sensitivity of camera to get brighter image at night. The smaller the value you select, the slower the shutter speed becomes so that the image will get brighter, and moving subjects might be blurred.

Sense-Up option is only enabled when users select "outdoor" or "indoor" in shutter time option.

- **D-WDR**: Digital Wide dynamic range. This function enables the camera to reduce the contrast in the view to avoid the dark zones resulting from over and under exposure.
- Video Orientation: Flip, mirror, or rotate the image.
- Day & Night: The camera can detect the light level of environment. If you choose "Light Sensor Mode", the image will be turned to black and white at night in order to keep clear. To set light sensor mode, appoint a lux standard of switching D/N here. Current lux value is provided for reference. Under "Times Mode" the switch

time of Color / Black and white is according to the given time. If you select "Synchronize with DI input", the image turns to black and white when digital input is triggered. You can also control it by choosing "Color" or "B/W".

- White Balance: Adjust the Red / Blue gain values.
- **Denoise**: This function is able to filter the noise and blur from the image and show a clearer view. 3D and 2D filer values can be adjusted.

Note: When you select a number in "Shutter Time", actually the shutter time varies in a range and controlled by camera automatically. Following table shows the shutter time option and corresponding range.

Option	Shutter Time Range (sec.)	
Outdoor	1/10000 ~ Selected number in "Sense-up"	
Indoor	NTSC: 1/125 ~ Selected number in "Sense-up" PAL: 1/100 ~ Selected number in "Sense-up"	
1/30	1/10000 ~ 1/30	
1/50	1/10000 ~ 1/50	
1/60	1/10000 ~ 1/60	
1/100	1/10000 ~ 1/100	
1/125	1/10000 ~ 1/125	
1/250	1/10000 ~ 1/250	
1/500	1/10000 ~ 1/500	
1/1000	1/10000 ~ 1/1000	
* Sense-up options: 1/30, 1/15, 1/10, 1/5		

Audio/Video Setting >> Video Setting

Video	
Video Settings	
Video System:	PAL •
TV Output:	Auto 🔄 (Auto : Based on the Video System)
TV Output Focus Bar ON/OFF	ON OFF
Stream 1 Setting	
🖲 Basic Mode 🛛 🗎 Ad	lvanced Mode
Resolution:	1920x1080 -
Profile:	High 🔽
Quality:	Best 💽
Video Frame Rate:	30 FPS 🗾
Video Format:	H.284 💽
RTSP Path:	ex:rtsp://IP_Address/ Audio:G.711
Stream 2 Setting	
🖲 Basic Mode 🔍 Adv	anced Mode 🛡 Close
Resolution:	640x480 👱
Profile:	Baseline 💌
Bitrate Control Mode:	CBR VBR
Video Quantitative:	7
Video Bitrate:	512Kbps
Video Frame Rate:	15 FPS 💽
GOP Size:	1X FPS GOP = 15
Video Format:	H.284 💽
RTSP Path:	v2 ex:rtsp://IP_Address/v2 Audio:G.711
3GPP Streaming 9	Setting
Enabled ODisa	bled

• Video Settings

Video Settings	
Video System:	NTSC V
TV Output:	Auto 💙 (Auto : Based on the Video System)
TV Output Focus Bar ON/OFF	O ON ● OFF

Select the Video System (digital signal) and TV Output (analog signal).

• Basic Mode of Streaming 1 and Streaming 2:

Stream 1 Setting		
O Basic Mode 🔍 Ad	lvanced Mode	
Resolution:	1920x1080 🗸	
Profile:	High 🗸	
Quality:	Best 🗸	
Video Frame Rate:	30 FPS 🗸	
Video Format:	H.264 💙	
RTSP Path:		ex:rtsp://IP_Address/ Audio:G.711
Stream 2 Setting		
©Basic Mode 🔍 Adv	vanced Mode 🔍 Clo	ose
Resolution:	640x480 🗸	
Profile:	Baseline 🗸	
Quality:	Medium 💙	
Video Frame Rate:	15 FPS 🗸	
Video Format:	H.284 🗸	
RTSP Path:	v2	ex:rtsp://IP_Address/v2 Audio:G.711

- **Resolution**: 1280x800, 1280x720 , 640x480, 320x240, or 176x144
- **Quality**: The higher the quality is, the bigger the file size is. It might affect Internet transmitting speed if the file gets too large.
- **Video Frame Rate**: The video refreshing rate per second. The max value is affected by the input resolution you choose.
- Video Format: H.264 or M-JPEG.

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- **RTSP Path**: Set the RTSP output connecting route. You can use the RTSP address displaying beside the column to access this IP camera.

• Advanced Mode of Streaming 1 and Streaming 2:

Stream 1 Setting			
Basic Mode Advanced Mode			
Resolution:	1920×1080 💌		
Profile:	High 🔽		
Quality:	Best 💽		
Video Frame Rate:	30 FPS 💌		
Video Format:	H.264 🔽		
RTSP Path:	ex:rtsp://IP_Address/ Audio:G.711		
Stream 2 Setting			
■ Basic Mode ■ Ad	Ivanced Mode 🔍 Close		
Resolution:	640x480		
Profile:	Baseline 🔽		
Bitrate Control Mode:	● CBR ● VBR		
Video Quantitative:	7 💌		
Video Bitrate:	512Kbps 🔽		
Video Frame Rate:	15 FPS 💌		
GOP Size:	1XFPS GOP = 15		
Video Format:	H.264 🔽		
RTSP Path:	v2 ex:rtsp://IP_Address/v2 Audio:G.711		

- **Resolution**: 1280x800, 1280x720, 640x480, 320x240, or 176x144
- Bitrate Control Mode: In CBR(Constant Bit Rate) mode, the bitrate keeps consistent all over the video. In VBR(Variable Bit Rate) mode, the bitrate changes with the complexity extent of the video data. VBR provides a better compression way and the file may be smaller. However, the VBR file size cannot be predicted. The image may become broken or lagged when your bandwidth is not enough for the data quantity you selected.

- **Video Quantitative**: The quality parameter of VBR. You can choose 1~10 compression rate. The higher the value is, the higher the image quality is.
- **Video Bitrate**: The quality parameter of CBR. You can choose 32kbps ~8Mbps. The higher the value is, the higher the image quality is.
- Video Frame Rate: The video refreshing rate per second. The max value is affected by the input resolution you choose.
- **GOP Size**: It means "Group of Pictures". The higher the GOP is, the better the quality is.
- Video Format: H.264 or M-JPEG
- **RTSP Path**: RTSP output connecting route. You can use the RTSP address displaying beside the column to access this IP camera.
- 3GPP Streaming mode:

3GPP Streaming Setting			
Enabled Disabled			
Resolution:	320x240 -		
Video Bitrate:	256Kbps 🔽		
Video Frame Rate:	15 FPS 💌		
Video Format:	MPEG4 -		
RTSP Path:	v3 ex:rtsp://IP_Address/v3 Audio:AMR		

3GPP Streaming is designed for specific mobile viewing. To receive video via 3gpp, please remember to enable rtsp server in the "Network Setting" page.

- **Resolution**: 640x480, 320x240, or 176x144
- **Quality**: The higher the quality is, the bigger the file size is. It might affect Internet transmitting speed if the file gets too large.
- Video Bitrate: You can choose 32kbps ~1Mbps. The higher the value is, the higher the image quality is.
- **Video Frame Rate**: The video refreshing rate per second. The max value is affected by the input resolution you choose.

- Video Format: H.264 or MPEG4.
- RTSP Path: 3GPP output connecting route. If the IP address of your camera is 192.168.1.160 and you type in "3g" in the column, the 3GPP path will be rtsp://192.168.1.160/3g.

Audio/Video Setting >> Audio Setting

IP Camera supports 2-way audio. Audio can be received by the microphone connected with IP camera and transmitted to remote PC. User can also send audio from remote computer's microphone to IP Camera's external speaker.

• Two-Way Audio

Select "Enable", then you can see "Mic" and "Speaker" options on the live page. The Audio compression format can be chosen from 3 options. You can also adjust the volume of 2-way audio.

Two-Way Audio			
Enable:	O Enabled 🛛 Oisabled		
Audio Type:	G.711 (84Kbps) 🗸		
Adjust Volume			
Mic-In:			
Line-Out:			

Receive sound from IP Camera or speak to IP Camera

Click "Mic" check box to receive sound from IP Camera and click "Speaker" to talk to IP camera side. Please ensure both IP camera and the computer sides have the microphone and speaker installed to have this function work properly.

The second s		SET OF		Ser du
2014/MAY/13 14:18:53 Size:1920x1080	FPS: 30			
default • Streaming 1 •	Speaker: 🔲 Mic: 🗖	Online Visitor : 1	Relay Out: ON OFF	LOGOUT
			© Copyright 2014 TRENDn	et. All Rights Reserved.

EVENT CONFIGURATION





Event Configuration >> Motion Detection

Area Setting: Click Area 1 /Area 2/Area 3 icon then draw the motion detection area on the live screen. If there is any motion detected in these areas, the "Motion!" wording will show on the live screen. To clean the motion detection area, click Area 1 /Area 2/Area 3 icon again.

- **Sensitivity**: Select motion detection sensitivity from 1 to 10.
- Trigger Action (Area 1, Area 2, Area 3): When motion is detected, the camera can send video or snapshot to Email, FTP, Output device and Samba.

Note: Due to network/Internet bandwidth constraint, the IP camera may not transfer video to selected destinations simultaneously. Keep the number of destinations as few as possible to avoid possible data loss.

• **Subject**: This subject will appear as the subject when sending the motion detected video or snapshot to email.

- Interval: Each motion triggered in defined interval time. If you select "10 sec" here, once the motion is detected and action is triggered, the next motion will be trigger after 10 seconds.
- **Based on the schedule**: The motion detection will be triggered based on the schedule you define.

Event Configuration >> Motion Detection >> Tampering Detection

Tampering Detection				
Tampering:	Enabled O Disabled			
	■ E-mail ■ FTP ■ Out1 ■ Save to SD card ■ Samba			
Interval:	30 sec 🗸			

• Tampering: Enable / Disable Tampering. When enabled and tampering is detected, the camera will send video or snapshot to Email, FTP, Output device or Samba.

Event Configuration >> Motion Detection >> Record File

Record File		
File Format:	AVI File(with Record Time Setting)	~

When an event occurs, the IP camera can record a video clip or take snapshot, and then send the file to mail/ FTP/ Samba. Select what format you want to save.

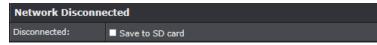
- AVI File (with Record Time Setting): Save AVI video file. The video length is according to the value you set in Record Time Setting.
- JPEG File (Single File with Interval Setting): Save single JPEG picture file when event occurs.
- JPEG Files (with Record Time Setting): Only when you select "JPEG" in streaming 1 video format of Video Setting, this option can be enabled. Select this option to save several JPEG picture files, and the successive picture files cover a period of time according to the value you set in Record Time Setting.

Event Configuration >> Motion Detection >> Record Time Setting

Record Time Setti	ing
Pre Alarm:	5 sec V
Post Alarm:	5 sec ∨

When an event occurs, the IP camera can record a video clip or take snapshot, and then send to mail/ FTP/ Samba. Select the video recording length before and after event occurs.

Event Configuration >> Motion Detection >> Network Disconnected



When enabled, the live view will be stored into the SD card if the IP Camera detects no Internet Connection (the SD card must be pre-installed)

Event Configuration >> Motion Detection >> Network IP Check

Network IP Check	(
IP Check:	Enabled O Disabled
IP Address:	www.google.com
Interval:	30 sec V
Check failed:	Connection failed four times. Reboot IP Camera.
	Save to SD card

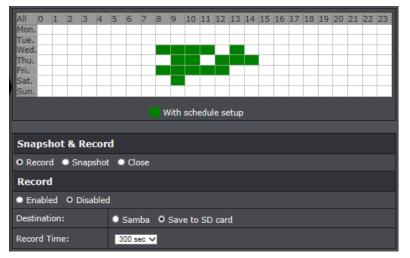
Enter the target IP address and interval. The camera will base on the interval time to check the target IP address. If PIN failed 4 times, the camera itself will reboot.

Event Configuration >> Sound Detection >> Sound Detection

Sound Detection					
Sound Detection:	Enabled ODisabled				
	E-mail	FTP	Out1	Save to SD card	Samba
Detection Level	50db 🗸				
Apply					
100					
90					
80					
70					
60					
50					
40					
20					

- When enabled and the camera detects sound, the IP camera can record a video clip or take snapshot, and then send the file to mail/ FTP/ Samba. Select what format you want to save.
- Detection Level: Selects the decibels value (for the camera to trigger sound detection).

Event Configuration >> Schedule

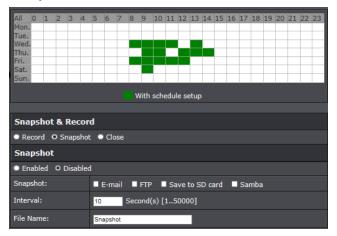


Click on the week calendar to draw color. The actions will be performed during the colored time.

When Record is enabled:

- Enabled / Disabled
- **Destination:** Select between sending the record to Samba or saving it into the SD card
- **Record Time:** Select the video length (seconds)

When **Snapshot** is enabled:

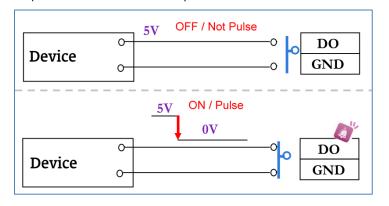


- When enabling the snapshot function, the IP camera will take snapshot according to schedule. Select the snapshot saving way: E-mail, FTP, or Samba.
- Interval: The interval between two snapshots.
- File Name: Give the snapshot file name. The saved file will be named as: "(file name) (saving date) (saving time)"

Event Configuration >> GPIO Setting

Input Setting					
Input 1 Sensor:	N.O Y				
Input 1 Action:	■ E-mail ■ FTP ■ Out1 ■ Save to SD card ■ Samba				
Subject:	GPIO In Detected!				
Interval:	10 sec V				
Based on <u>schedule</u>					
Output Setting					
Mode Setting:	On/Off Switch OTime Switch				
Interval:	10 sec ¥				

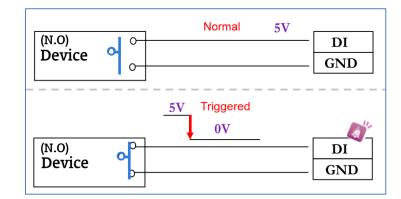
- 1. I/O Connection
 - Please connect the GND & DO pin to the external relay (buzzer) device.
 When no event occurs, DO output is 5V (DO and GND are disconnected). When the camera detects event happening and triggers external alarm, DO output is 0V (DO and GND are connected).



• Please connect the GND & DI pin to the external trigger device.

If you select "N.O" in "Input sensor setting", when external devise or circuit makes DI and GND pin connected, the camera input alarm is triggered, and then camera will execute the action user has set, for example, send snapshot to E-mail address.

If you select "N.C" in "Input sensor setting", when external devise or circuit makes DI and GND pin disconnected, the camera input alarm is triggered, and then camera will execute the action user has set, for example, send snapshot to E-mail address.



GPIO PIN definition

GND (Ground): Initial state is LOW DO (Digital Output): DC 5V DI (Digital Input): Max. 50mA, DC 5V

2. GPIO Setting

Event Configuration >> GPIO Setting >> Input Setting

- Input Sensor: According to your external device and circuit design, select N.O (normally open) or N.C (normally closed).
- Input Action: When the camera input alarm is triggered, it can trigger the relay out, or send the video to E-mail/ FTP/ SAMBA.
- **Interval**: If you select "10 sec" here, once the input alarm is detected and action is triggered, it cannot be triggered again within 10 seconds.
- **Based on the schedule**: When click the option box, only during the selected schedule time the I/O is enabled. That is, for example, the 11th hour of Monday has not been colored in the schedule table, then no action will be triggered even the camera detects input signal during 11:00~12:00 on Monday.

Event Configuration >> GPIO Setting >> Output Setting

- Mode Setting
 - On/Off Switch:

When event occurs, the camera triggers the external devise and lasts for certain of time according to the event "interval" setting. If it's triggered by motion detection, the triggering time is according to "interval" setting of motion detection. If it's triggered by external input alarm, the triggering time is according to input "interval" setting. It triggers the external devise and lasts for 10 seconds if you select "10" in interval setting. You can turn off the alarm manually by click "off" at the bottom-right of the live screen page.

Time Switch:

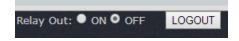
When event occurs, the camera triggers the external devise and lasts for certain of time according to the output "interval" setting, and the user is not allowed to break off the alarm manually.

3. Output Test

After the external output hardware is installed, you can use the "Relay Out" button on the live video page to test if DO device works.

On/Off Switch mode:

Click "ON", the camera will trigger the external output devise. For example, your alarm buzzer will continuously ring. You can manually break off the output signal by clicking "OFF".



• Time Switch mode:

Click "Pulse", the camera will trigger the external output devise for several seconds. The duration length is according to the "interval" setting in Output Setting.



Event Configuration >> Logs

System Logs
Motion Detection Logs
<u>GPIO Logs</u>
<u>All Logs</u>

Click "Logs" to see **System Logs**, **Motion Detection Logs**, **GPIO Logs** and **All Logs**. If you remove the power from IP camera, **Motion Detection Logs** will be cleared away.

How to Switch the Cable Access Port

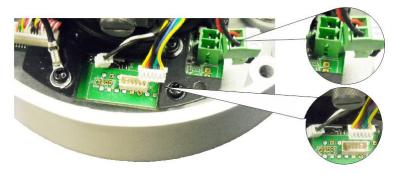
- 1. Unscrew and open the camera's dome cover
- 2. Loosen the sun shield starting from one side then to the other side, then take off the sun shield.



3. Remove the 1st cable from PCB board.



4. Remove the 2nd, 3rd and 4th cable from PCB board.



5. Unscrew the meter cover on the side.



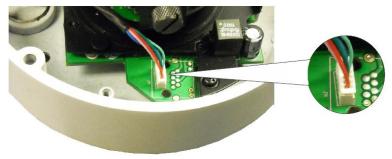
6. Twist the water proof nuts and careful remove all cables out form the bottom of the housing.



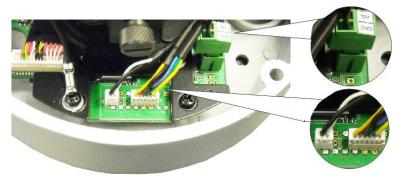
7. Insert the cable into the side of the housing



8. Carefully plug the 1st cable back to the PCB board.



9. Then plug in the 2^{nd} and 3^{rd} cables back to PCB board.



10. Close the water proof nuts and meter cover.



11. Put the sun shield back on.



12. Secure the dome cover to the camera.



How to Access the IP camera via IP Installer

The IP Installer is an optional utility allow you to search the cameras in your network easily.

- 1. Insert the Installation CD-ROM into your computer's CD-ROM drive.
- 2. Click Exit if the Autorun pop up.
- 3. Go to Start >> type in D:\\ (D: is the letter assigned to your CD-ROM Drive, and then press the ENTER.
- 4. Click IPInstaller Folder and click IP Installer.exe
- 5. The main screen will pop up.

Davias lista				TRENDNET
Device lists:				Static DHCP
Device Name	IP Address	MAC Address		TV-IP342PI
TV-IP343PI TV-IP342PI		00:18:1A:0C:2B: 00:30:4F:00:29:A9	Name	
TV-IP343PI		00:0F:0D:26:41:40	IP Address	192 . 168 . 1 . 175
			Subnet Mask	255 . 255 . 255 . 0
			Default	192 . 168 . 1 . 254
			DNS 1	168 . 95 . 1 . 1
			DNS 2	168 . <mark>95 . 1</mark> 92 . 1
			Http Port:	80
			MAC	00:30:4F:00:29.A9
			Account	
<	1	>	Password	
		Search	Access Camera	Change
 Select the IP ca Change the ne Click Change Click Search. Select the IP ca 	amera in the list. twork parameters to apply the chang amera in the devic	ges.		Exit

- Search : Search the IP Camera within the Network
- Access Camera: access the selected camera's web page.
- Change : change the selected camera's IP address via Static IP or DHCP.

If Static is selected, you have to manual type in the IP address, Subnet Mask, Default gateway, DNS 1, DNS 2 and Http Port and IP camera's password.

	TREN	DNET		
	• Static	• DHCP		
Name	TV-IP342PI			
IP Address	192 . 168	. 1 . 175		
Subnet Mask	255 . 255	. 255 . 0		
Default	192 . 168	. 1 . 254		
DNS 1	168 . 95	. 1 . 1		
DNS 2	168 . 95	. 192 . 1		
Http Port:	8	0		
MAC	00:30:4F	:00:29:A9		
Account				
Password				
Access Camera		Change		

• Exit: Exit the IP Installer Utility.

Troubleshooting

1. I inserted the Utility CD-ROM into my computer's CD-ROM Drive but the installation menu does not appear automatically. What should I do?

Windows 8/8.1

If the installation menu does not appear automatically, press the windows icon and press "r" simultaneously. In the "run" box, type D:\autorun.exe, where "D" in "D:\autorun.exe" is the letter assigned to your CD-ROM Drive, and then press the ENTER key on your keyboard.

Windows 7

If the installation menu does not appear automatically, click on the Windows Icon on the bottom left hand corner of the screen, click the "Search programs and files" box, and type D:\autorun.exe, where "D" in "D:\autorun.exe" is the letter assigned to your CD-ROM Drive, and then press the ENTER key on your keyboard.

Windows Vista

If the installation menu does not appear automatically, click Start, click the Start Search box, and type D:\autorun.exe where "D" in "D:\autorun.exe" is the letter assigned to your CD-ROM Drive, and then press the ENTER key on your keyboard.

Windows XP

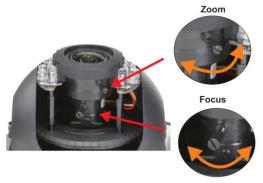
If the window does not appear automatically, click Start, click Run and type D:\autorun.exe where "D" in "D:\autorun.exe" is the letter assigned to your CD-ROM Drive, and then press the ENTER key on your keyboard.

2. The autorun program is unable to detect my camera. What should I do?

- a. Verify that you have followed all the steps in Section 2: Hardware Installation.
- b. Disable any software firewall programs such as ZoneAlarm or Norton Internet Security. If you are using Windows 8, 7, Vista or XP, disable the built in firewall.
- c. Reset the IP Camera
- d. Run the Autorun program from the CD-ROM again.
- 3. I do not have a DHCP server or DHCP is disabled on my network and I am unable to configure the TV-IP343PI. What should I do?
 - a. Go to the TCP/IP settings on your computer and assign a static IP address on your computer's network adapter in the subnet of 192.168.10.x. Since the default IP address of the TV-IP343PI is 192.168.10.30, do not assign a static IP address of 192.168.10.30 on your computer's network adapter.
 - b. Open Internet Explorer and enter http://192.168.10.30 into the address bar.

4. The image is blurry. How can I adjust the focus on the IP camera?

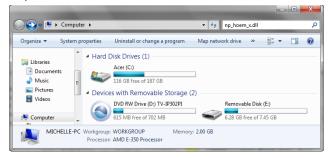
The camera equipped with external vari-focus lens control. Adjust the focus/zoom by parallel turn the switch.



- a. If you are using Internet Explorer, make sure that you install the ActiveX control WEBWATCH.cab.
- b. If you are using non-IE browser (Firefox, Chrome, Safari), make sure that you install the plug-in WebPlugin.exe.

6. How do I uninstall the browser's Active X or Plug-in from my computer?

Click Computer Icon, type in "np_hoem_x.dll" on the top-right corner of the search bar, then click "**Search**".



Delete the file named "np_hoem_x.dll" from search result.

Organize 🔻 Sav	e searc	n		!≡ - □	?
Libraries Documents Music Pictures Videos	• III	Name np_hoem_x.dll Search again in: Libraries PCus	Date modified 6/10/2013 6:15 PM tom C Internet	Type Application extens File Contents	Size
	-	4	III		

Search for the additional ActiveX or plug-in files listed below and delete them to completely uninstall the ActiveX control or plug-in from your computer.

- avcodec-53_v1.8.dll
- avutil-51_v1.8.dll
- swscale-2_v1.8.dll
- WEBWATCH2
- WEBWATCH2.ocx

7. I forgot my password. What should I do?

Please follow the steps below to reset to factory default setting

- a. Remove the power and network cable.
- b. Remove the cover of the camera
- c. Press and hold the reset button for 10 seconds and wait for the camera to finish rebooting (up to 2 minutes).
- d. Run the install camera wizard from the CD-ROM to login to the camera.



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TV-IP342PI – 3 Years Limited Warranty

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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.

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