User's Guide

TRENDNET



Outdoor 1.3 MP HD PoE IR Speed Dome Network Camera

TV-IP450PI

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Product Overview



TV-IP450PI (Bracket not included)

Package Contents

In addition to your camera, the package includes:

- TV-IP450PI
- CD-ROM (Software & User's Guide)
- Multi-Language Quick Installation Guide
- Installation gloves & waterproof tape
- PoE injector

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-IP450PI

TRENDnet's Outdoor 1.3 MP HD PoE IR Speed Dome Network Camera, model TV-IP450PI, offers powerful 20x optical zoom, 100 m (330 feet) night vision, an IP66 weather rating, and continuous 360 degree PTZ functionality. Record 1.3 Megapixel HD video (1280 x 960) at 30 fps in a space saving H.264 compression format. Manage up to 32 TRENDnet cameras with included complimentary software and mobile apps. A separate mounting bracket is required—install with TRENDnet's TV-HC400, TV-HW400, TV-HP400, or TV-HN400.

1.3 Megapixel HD Record 1280 x 960 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

Dynamic DNS Support Support for dyn.com andNO-IP.org services

Auto Patrol Choose pre-defined or program up to eight auto patrol sequences with varying zoom levels

Storage

Record video to a Samba client or to a Micro SD card (up to 64 GB sold separately)

Tamper Detection

Receive tamper detection snapshots via email, ftp, or save to Samba client or Micro SD card

D-WDR

Improved image quality and autofocus in high contrast lighting environments with Digital Wide Dynamic Range technology

Motion Detection

Create motion detection windows with separate sensitivity settings and event triggers

Recording Schedule

Define a weekly recording schedule

IPv6

IPv6 support

ONVIF

ONVIF compliant

Camera Management Manage the camera individually through the web-based interface

Complimentary Software Complimentary pro-grade software to manage up to 32 TRENDnet cameras

Complimentary Apps Live video to a mobile device with free Apple[®] and Android[™] apps

<u>Cables</u>



Audio Line in, line out, and grounding wires

Network cable connection



- It is recommended to use the PoE+ injector that comes with the camera or an IEEE 802.3at compliant PoE+ switch.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. Disassembling the product will void the warranty and may cause harm or injury.
- The installation should be done by a qualified service person and should conform to all construction and electric regulations and other local codes.

Cautions:

- Make sure the power supply voltage is correct before using the camera.
- Do not drop the camera or subject to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.
- Do not aim the camera lens at the strong light such as the Sun or an incandescent lamp. Strong light can damage the camera sensor.
- The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor will not be exposed to the laser beam.
- Do not place the camera in extremely hot, cold temperatures (the operating temperature should be between -30°C to 65°C), dusty or damp environment, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- While shipping, the camera should be packed in its original packing.
- Use water proof tape to cover all the wires, cables which will be exposed outdoor after the camera installation.

Plan for Installation

There are a number of factors involved in successful camera installation. Follow the suggested installation steps and go through the check lists. This guide will help you to make your camera installation smooth and easy.

- Setup Your Camera with CD
- Plan for installation location
- Selecting the appropriate mounting accessories, see Mounting Guide

Viewing angle

• The camera is a vari-focal camera with a wide viewing range that provides nondistorted and detailed images. Choose the location where has good angle to shoot the image you expect to see. The motion detection area should also be considered when installing the camera.

Weather Conditions

- The camera is an outdoor dome camera, which fits most installations indoor and outdoor. The camera can work under a wide range of weather conditions. For severe weather conditions. Using the camera in milder weather conditions will help extend the camera's life and preserve the quality of the camera image.
- Moisture: Avoid damp or moist environments whenever you can. The camera is an IP66 grade water proof camera, and it will work in moist environments. However, rain may affect the picture quality, especially at night, water may reflect the light from the infra-red illumination and degrade picture quality.
- **Temperature:** Camera works within a specified temperature range. Areas with severe temperatures should be avoided when installing the camera. It's recommended that you use an enclosure with a heater and blower if you plan on using this camera outside of the specified temperature range.

- **Sunlight:** Avoid direct sun light exposure. Direct sun light will damage the image sensor. If sunlight is necessary for your viewing purposes, provide protection for the image sensor.
- Lighting: Consider installing your camera faces the same direction of the light sources. Shooting images with top-down position outdoor or next to the existing light source are good choices. Avoid the light source if it creates a shade that darkens the viewing area.

Setup Camera with CD

1. Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program. Choose your preferred language and then click the **Install Camera**. (mounting accessories are not included)



2. Write down the MAC Address of the camera.



3. Connect the power/network cable



- 4. Wait while the utility is searches for the camera.
- 5. The installation wizard will list cameras found on your network. If only one camera is found, it will be selected by default. If you have more than one camera on the network, please choose the camera you wish to set up by identifying its MAC address. Select the camera and then click **Next**.
- Select the DHCP option to assign IP address dynamically, or select Fixed IP to assign the camera an IP address, then click Next.
- 7. If you select **Fixed IP**, enter the IP address, subnet mask, default gateway, and DNS server address. Please make sure the IP address you are setting on the camera is in the same network of the computer that you are using. Click **Next**.
- Enter a new password. The default password is admin. You are required to change the password from the default setting to prevent unauthorized access. Enter the default password: admin and enter the new passwords for a brand

new installation^{*}. The password must be between 8 and 16 characters. (Alphanumeric: a-z, A-Z, 0-9, !, @, #, \$).

TV-IP450PI

*This camera installation wizard is also good for finding the camera if it was setup with DHCP. The IP address may change dynamically with the DHCP setting. If you want to access your camera again and you don't know the IP address, you can run this camera installation wizard again. If you have already setup the password and want to keep the password unchanged, un-check the **Change Password** box and click next to get the link to access your camera.)

** Please save the password for future references. This device does not have a hardware reset function for temper proof purpose.

9. Click **here** to access to the camera's web page or click **Next** for mobile app installation.



10. Click **Finish** to exit the program or click **Home** to return to the main screen. You can also download a free app to view video on your mobile devices. Scan the QR code to find and install the TRENDnetVIEW app.

Access Camera through the Web Browser

System Management and Default Settings

It is recommended that you install your camera with the CD that comes with the package and use accompanying TRENDnetVIEW Pro software for Windows computers. If you do not have the CD with you, please go to <u>http://www.trendnet.com/support</u> and enter the model number and download the software.

If you didn't go through the CD installation wizard or you have reset the camera, your camera has following settings:

Management IP :	192.168.10.30 or a dynamic assigned address if you connect the camera to your existing network
Administrator name :	admin
Administrator password :	admin

If you want to access your camera directly instead of using software, you can follow the steps specified in this chapter to login to your camera. A web browser plug-in must be installed to view live image.

Logging-in to the Camera

1. Open the web browser on your computer. In the address bar, enter the IP address you setup through the setup CD or 192.168.10.30. (If you have a DHCP server on your network, the IP address will be assigned dynamically. For example, if you have a home gateway on your network and you plug-in the camera on the same network, you can find the camera's IP address on your home gateway.), and then press **Enter**.

(←) → 2 [2] 192.168.10.30	age
	^
	E

2. Enter the user name, **admin**, and the password you setup through the setup CD or the default password, **admin**, and then click **OK**.

Windows Security	×
The server 192.1	68.1.73 at TV-IP450PI requires a username and password.
	admin
	OK Cancel

If the camera was not setup through the CD and you are accessing it the first time, you will be prompted to change password automatically.

3. The camera management page will detect if you installed the camera video streaming plug-in or not. Click the link to download the plug-in from the camera.



Permission request depends on the Internet security settings of your computer. Click **Run** to install the plug-in.

Note: for Mac systems, the plug-in file is stored on the CD or you can download the latest version from

http://www.trendnet.com/downloads/camera/mac/WebComponents.zip

4. Click **Next** to install the plug-in.



5. Click **Finish** to finish the installation.





Basic Settings

Live View

After you log-in into the camera management page, you'll see the Live View page.



Multi-Language	Change your preferred language anytime	
Snapshot	Click this icon to take a video snapshot	
Zoom	Click once to enable zoom. Then, click and drag the area on the picture to zoom in. Click once on picture for 100% zoom. Click the icon again to disable zoom. The zoom function works in full screen mode as well	
Recording	Click once to start recording. Click it again to stop recording. The status bar will indicate if it is in recording state or not	
Video Stream	The camera has two video streams: H.264 and MJPEG. Switch to view the different video streams by clicking this icon	
3D Zoom	Click the position of the live video, the corresponding position will be moved to the center of the live feed. Click and hold the mouse for a desire portion of the live image, then that position will be moved to the center of the live feed	
2-way Audio	Click to enable 2-way audio	
Full Screen Mode	Click the picture to view in full screen mode. Double click again or press escape key on your keyboard to exit full screen mode	

Status Bar	The status bar shows the status you are at, including enabled the zoom, recording video, and successfully taking a snapshot
<u> </u> • «	The icon expands the PTZ control panel
	Pan / Tilt / Zoom control panel Image: Pan / Tilt / Zoom control panel Image: Pan / Tilt / Zoom in / out Image:
Presets	Use the presets panel to move to previously saved locations

Presets

Configure a Preset position

A preset is a predefined image position. For the defined preset, you can click the Call button to quickly view the desired image position.

1. In the PTZ control panel, select a preset number from the preset list.

1	Preset 1 🛛 👒 🖉	<₀ ^
2	Preset 2	
3	Preset 3	
4	Preset 4	
5	Preset 5	
6	Preset 6	

- 2. Use the PTZ control buttons to move the lens to the desired position.
 - Pan the speed dome to the right or left.
 - Tilt the speed dome up or down.
 - Zoom in or out.
 - Refocus the lens.
- 3. Click do finish the setting of the current preset.
- 4. You can click sto delete the preset. You can configure up to 256 presets.

Calling a Preset position

In the PTZ control panel, select a defined preset from the list and click 💙 to call the preset.



The following presets are predefined with special commands. You can only call them but not configure them. For instance, preset 99 is "Start auto scan". If you call preset 99, the speed dome starts auto scan function.

Special Preset	Function	Special Preset	Function
33	Auto flip	93	Set limit stops manually
34	Back to initial position	94	Remote reboot
35	Call patrol 1	96	Stop a scan
36	Call patrol 2	97	Start random scan
37	Call patrol 3	98	Start frame scan
38	Call patrol 4	99	Start auto scan
39	IR cut filter in	100	Start tilt scan
40	IR cut filter out	101	Start panorama scan
41	Call pattern 1	102	Call patrol 5

42	Call pattern 2	103	Call patrol 6
43	Call pattern 3	104	Call patrol 7
44	Call pattern 4	105	Call patrol 8
45	One-touch patrol		
92	Start to set limit stops		

33	Auto-flip 🏼 🄶
34	Back to in…
35	Call patrol 1
36	Call patrol 2

Note: When you call preset 45 (one-touch patrol), the speed dome patrols from presets 1 to 32. Before you enable this function, please set presets 1 to 32 first.

Patrols

A patrol is a memorized series of preset functions. It can be configured and called on the patrol settings interface. There are up to 8 patrol available for customization. A patrol can be configured with 32 presets.

Ŧ

Configure a Patrol route

- 1. In the PTZ control panel, click to enter the patrol settings interface.
- 2. Select a patrol number from Path 01
- Click 💷 to add a preset to a patrol path.

F	Patrol
Preset:	Preset 1 🔹
Patrol duration	1
Patrol Speed	1
ОК	Cancel

3. Configure the preset number, patrol time and patrol speed.

Name	Description
Patrol Time	This is the duration the camera stays on one patrol point. The speed dome moves to another patrol point after the patrol time.
Patrol Speed	This is the speed that the camera moves in between patrol points.

4. Click OK to save a preset into the patrol.

- 5. Repeat the steps from 3 to 5 to add more presets.
- 6. Click 🗒 to save all the patrol settings.

Calling a Patrol route

In the PTZ control panel, select a defined patrol from Path 01 💽 and click 💴 to call the patrol.

Path	01 💌			Ħ	G
1	Preset1	15	1		
82	Preset2	15	1		

Buttons on the Patrol interface:

Buttons	Description
8	Save a patrol
	Call a patrol
	Stop a patrol
0	Add a preset to a patrol path
1	Modify a preset
0	Delete a preset
8	Delete all the presets in the selected patrol path

Pattern

A pattern is a memorized series of pan, tilt, zoom, and preset functions. A pattern can be called in the pattern settings interface. There are up to 4 patterns available for customization.

Configure a Pattern

- 1. In the PTZ control panel, click
- to enter the pattern settings interface.
- 2. Select a pattern number from the list as shown in **Error! Reference source not found.**

e3
000

Figure 1-1 Patterns Settings Interface

- 3. Click does not a click to enable recording the panning, tilting and zooming actions.
- 4. Use the PTZ control buttons to move the lens to the desired position after the information of **PROGRAM PATTERN REMAINNING MENORY (%)**.
 - Pan the speed dome to the right or left.
 - Tilt the speed dome up or down.
 - Zoom in or out.
 - Refocus the lens.

5. Click 🗒 to save the pattern settings.

Buttons on the Patterns interface:

Buttons	Description
I	Start recording a pattern.
8	Stop recording a pattern.
D	Call the current pattern.
0	Stop the current pattern.
0	Delete the current pattern.

- These 4 patterns can be operated separately and with no priority level.
- When configuring and calling the pattern, proportional pan is valid; the limit stops and auto flip will be invalid; and the 3D positioning operation is not supported.

<u>Playback</u>

You can playback the video recording on the network storage and download the video clip and snapshots to your local computer.

BASIC ADVANCED English • () Live View	Playback Playback works only when NAS recording was enabled and used. Start Time 2014-04-08 Status
Playback	
(i) System	
	C C C C

Search for video recordings

Click the date selection, and then choose a date for the date range of your recording. Click Search to start searching.

2014-04-08					(110		Search	
(1 4		Apr	2	014		• •	Sec.	
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
		1	2	3	4	5		
6	7	8	9	10	11	12		
13	14	15	16	17	18	19		
20	21	22	23	24	25	26		
27	28	29	30		2			
4		6						

Time line

There is a playback head in the center of the time line represented by a yellow vertical line. To look for a specific video recording, move the time line by clicking and dragging it.

If the recording is short, zoom in by clicking 🕒 button. Click 🖸 to zoom out the time

scale. If you know the exact time of the day you are looking for, click with the enter the time you want to playback.

Different types of recordings are identified differently. The scheduled recordings are marked in blue, and the recordings triggered by motion detection are marked in red.

	2013-11-12 09:36:47		⇒ ⊖ ⊕
	09;35 09;40		09:50
		Schedule	Motion

9	Click and drag the time line to move your time manually
\oplus	Click this button to zoom in the scale
Θ	Click this button to zoom out of the scale
t	Click this button to specify a specific time of the day.
	this dialog box.

Play video

Use playback controls to play back the video recordings.

П	
•	Click this button to play the video
н	Click this button to pause video playback
	Click this button to stop playback
₩	Click this button to increase playback speed*
*	Click this button to decrease playback speed*
₽	Click to playback video frame by frame. Click again for the next frame.
	*There are 5 steps of playback speeds. You can choose from 1/4, 1/2, 1, 2, and 4 times of original speed.

Take Images from a video playback

You can take snapshots from playback video or make new video clips from the video you are playing back.



Ð	Click this button to enable zoom. Then click and drag on the video to define the area you want to zoom in. Click again to get back to 100% zoom. Double click to show video in full screen and press ESC on keyboard to exit full screen mode
.⊕	Click this button to disable zoom

Ø	Click this button to take a snapshot of current playback
Å	Click this button to start clipping a video from playback
&	Click this button to stop clipping a video from playback

Download sections of a video

To save complete video sections or snapshots, you can download the files directly.





Click this button to download video sections

	No.	File Name	Start Time	End Time	File Size Progress
\checkmark	1	ch01_0800000000000401	2013-11-06 07:26:02 2	013-11-06 07:26:22	2 MB Downloaded
	2	ch01_080000000000000501	2013-11-06 07:37:00 2	013-11-06 07:37:20	1 MB
					Download
			Total 2 Item	is First Page Prev Page	1/1 Next Page Last Page

Download snapshots

	ы	
	77	
	_	

Click this button to download snapshots

No. File Name File Date File Size Progress 1 ch0.0_800000000301201213-11-12 09:28:50 65 KB 65 KB 3 ch00_08000000030201 2013-11-12 09:28:50 65 KB 4 ch00_08000000030201 2013-11-12 09:28:52 52 KB 5 ch00_080000000030201 2013-11-12 09:28:53 52 KB 5 ch00_080000000030201 2013-11-12 09:28:55 53 KB 7 ch00_080000000030201 2013-11-12 09:28:55 53 KB 8 ch00_080000000030201 2013-11-12 09:28:55 53 KB 9 ch00_080000000030201 2013-11-12 09:28:57 53 KB 10 ch00_080000000030201 2013-11-12 09:36:57 52 KB 11 ch00_080000000033201 2013-11-12 09:36:57 52 KB 12 ch00_080000000033201 2013-11-12 09:36:57 52 KB 13 ch00_080000000033401 2013-11-12 09:37:00 52 KB 15 ch00_080000000033401 2013-11-12 09:37:00 52 KB 16 ch00_080000000033401 2013-11-12 09:39:07 52 KB 12 ch00_080000000033401 2013-11-12 09:39:07 52 KB 19 ch00_080000000033401 2013-11-12 09:39:07 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
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Select the type of event that triggered the snapshots. Choose the **Start Time** and **End Time**. Then, click **Search** to find the snapshot list. Check the time of the snapshot, and then select the snapshots you want to download, then click **Download**.

Note: Where can I find saved files?

Videos and snapshots captured from Playback will save to your computer.

Log

The log of the TV-IP450PI will be saved on the network storage. You can search the relevant records and save to your local computer.

	Log	work	s onl		- 1	AS İs	avai						
inglish		or Typ					-		Minor T				
(Live View	All	All Types 🗸							All Typ	pes	~	Search	
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Search for logs

Click the type of log and then the Start Time and End Time. Click Search to start searching.

Total 129 Items First Page Prev Page 1/2 Next Page Last Page

Click First Page, Prev Page, Next Page, and Last Page to show the logs. Click Save Log to save the logs to your computer.

<u>System</u>

System Information page shows the camera basic information. Click **System** then click **System Info** to show the page.

BASIC ADVANCED	System Information
nglish	- BASIC INFORMATION
Live View	Device Name : TV-IP450PI
	Firmware Version : V5.1.0 build 140331
Playback	Mac Address : 44:19:b7:26:e4:06
Log	System Time : 2014-04-09T05:52:37
System	NETWORK INFORMATION
	IP Address : 192.168.1.73
System Info	Subnet Mask : 255.255.255.0
	Default Gateway : 192.168.1.254
	Primary DNS : 192.168.1.249
	Secondary DNS :

Basic Information					
Device Name:	User defined device name				
Firmware Version:	Firmware Version				
MAC Address:	MAC address of the camera				
System Time:	Display the system time				
Network Information					
IP Address:	IP address of the camera				
Subnet Mask:	Network range of IP address				
Default Gateway:	Gateway for the camera				
Primary DNS:	Primary DNS server address				
Secondary DNS:	Secondary DNS server address				

Advanced Settings

<u>System</u>

Device Settings

Setup your camera name and location for easy identification. This camera name will also be recognized by other network camera software as the name of this camera.

OSD, On Screen Display, the camera name is setting up here as well.

BASIC ADVANCED	Device Settings Setup your camera name and location for easy identification.
English	NAMES
System	Camera Name : TV-IP450P
Device Settings User Accounts	Location :
Time Settings Daylight Savings	Add or remove security authentication.
Live View Settings	AUTHENTICATION
Maintenance	RTSP : 🗾
	нттр : 🗾
Video	Save
Events	
Storage	
ортz	

Names	
Camera Name:	Name of the camera. The camera name setup here
	can be discovered by other network camera

	software and OSD, On Screen Display. The default is
	the camera's model name:
Location:	Label where you installed this camera
Authentication	
RTSP:	Camera's video stream can be accessed with RTSP,
	Real Time Streaming Protocol. Only the
	administrator and users can view this video stream.
	Un-checking this box will allow everyone access to
	this video stream without authentication. Default:
	checked.
HTTP:	Camera can be accessed via password protected
	web management interface. Un-checking this box
	will allow anyone to access this camera and change
	its settings.

User Accounts

You can setup up to 16 user accounts to access the camera's video stream with a web browser or real time video stream (RTSP). Only one administrator account can be setup to configure the camera and cannot be deleted.



User Accounts				
Add:	Click Add button to add one user account			
Modify:	To change a user's name and password, highlight the user by clicking on it. Then, click Modify button. You can change the user's name and password. You can also change the administrator's password here. But, the administrator's name is fixed, you cannot change that.			
	Confirm			
	Password			
	User Name useri X			
	MODIFY USER			
	Click OK to save the changes.			

Time Settings

The accuracy of the system clock is important for scheduling and accurate logging. You can synchronize the system time with your computer, or automatically check the time accuracy with a network time server (NTP server).

BASIC	ADVANCED	Time Settings Set up the system time for correct scheduling and logging.
English	∠ tem	Time Zone : (GMT-08:00) Pacific Time (US&Canada)
Device Setti	nac	• AUTOMATIC UPDATE
User Accour		NTP Server : time.windows.com
Time Setting Daylight Sav	vings	Interval : 1440 minute(s)
Live View Se Maintenance		• MANUAL TIME SYNC.
a. □ . ■ . ■ . ■ . ■ . ■ . ■ .	work	Device Time : 2013-10-30T04;34;38
La		Set Time : 2013-10-30T04:33:55 📃 Sync. with computer time
Vide	0	
Eve	nts	Save
Stor	rage	

Automatic Update			
NTP Server:	Specify a time server (NTP server) to synchronize		
	with. (e.g. pool.ntp.org)		
Interval:	The time interval that the camera will synchronize		
	the time with NTP server. Default: 1440 minutes (24		
	hours).		
Click Save to save the changes			

Manual Time Sync.		
Device Time:	The system time of this camera.	

Set Time:	Click the calendar icon and manually select the
	date.
	Check the Sync. with computer time to copy the
	time from your computer.
Click Save to save the changes	

Daylight Savings

Setup daylight settings for the camera.

BASIC A	DVANCED	Daylight Saving Set daylight savings time.	gs				
English	~	Enable DST :	•				
System		Start Time :	Apr	✓ First	✓ Sun	✔ 02	✓ o'clock
Device Settings User Accounts		End Time :	Oct	✓ Last	✓ Sun	₩ 02	✓ o'clock
Time Settings		DST Bias :	60mir	~			
Daylight Savings	5						
Live View Setting	gs	Save					
Maintenance							

Enable DST:	Check this box if your time zone has daylight
	savings
Start Time:	Enter the date that daylight savings starts
End Time:	Enter the date that daylight savings ends
DST Bias:	Enter how much time the daylight saving adjusted
	by daylight savings

Live View Settings

Setup daylight settings for system time.

Live View Settings	:		
Live View Parameters			
Live View Buffer	Low	• Medium	High
Record File Settings			
Record File Size	O 256M	● 512M	0 1G
Save record files to	C:\Users\wen\T	RENDnet\RecordFil	es Browse
Save downloaded files to	C:\Users\wen\T	RENDnet\Download	dFiles Browse
Picture and Clip Settings			
Save snapshots in live view to	C:\Users\wen\T	RENDnet\Snapshot	Files Browse
Save snapshots when playback to	C:\Users\wen\T	RENDnet\Playback	Pics Browse
Save clips to	C:\Users\wen\T	RENDnet\Playback	Files Browse
Save			

Live View Parameters			
Live View Buffer:	Configure the buffer size for live view video stream.		
	With low buffer size setting, you can get real-time		
	video stream, but the video may be stop and go if		
	the network is congested. With high buffer setting,		
	you can have smooth video streaming, but the		
	video is delayed from the time happening. Medium		
	size can have moderate video stream smoothness		
	and time delay.		
Record File Settings			

Record File Size:	This size of live view video recording. You can
	choose 256MB, 512MB, or 1GB a file. Smaller file
	size is good for many short recordings.
Save Record Files to:	By default, files will be saved under your user name,
	and under the TRENDnet/RecordFiles. Click Browse
	and choose a new destination if you want to save
	the file somewhere else.
Save Download Files to:	By default, files will be saved under your user name,
	and under the TRENDnet/DownloadFiles. Click
	Browse and choose a new destination if you want
	to save the file somewhere else.
Picture and Clip Settings	
Save Snapshots in live view	By default, files will be saved under your user name,
to:	and under the TRENDnet/CaptureFiles. Click Browse
	and choose a new destination if you want to save
	the file somewhere else.
Save snapshots when	By default, files will be saved under your user name,
playback to:	and under the TRENDnet/PlaybackPics. Click
	Browse and choose a new destination if you want
	to save the file somewhere else.
Save Clips to:	By default, files will be saved under your user name,
	and under the TRENDnet/PlaybackFiles. Click
	Browse and choose a new destination if you want
	to save the file somewhere else.
Click Save to save the changes	5

Maintenance

You can do the camera system maintenance on this page.

BASIC ADVANCED	Maintenance
English	Reboot
English T	Reboot
Device Settings	Reset
User Accounts Time Settings Daylight Savings Live View Settings Maintenance	Reset all parameters, except the IP parameters and user information, to the default. Reset Restore all parameters to the default. Default
■ E Network	Import Config. File
Cideo Video	Config File Import
Events	
Storage	Export Config. File
👰 ртд	Remote Upgrade
	Firmivare Upgrade Upgrade
	Status: Note: The upgrade process may take a couple of minutes, please do not disconnect power to the camera during the process. The device reboots automatically after upgrade.

Reboot	
Reboot:	Click this button to reboot this camera.
Reset	
Reset:	Reset all camera parameters except the IP
	parameters and user information.

Default:	Load complete factory default settings to the			
	camera.			
Import Config. File				
Config. File:	To load previously saved configurations, click			
	Browse to find the configuration file and then click			
	Import.			
Status:	Shows the status in loading configuration file.			
Export Config. File				
Export:	Click Export to download configuration file. The file			
	will be downloaded to the Download folder by			
	default.			
Remote Upgrade				
Firmware:	Click Browse to find the latest firmware and then			
	click Upgrade*.			
Status:	Shows the status in firmware upgrade.			
Click Save to save the changes				

* TRENDnet may periodically release firmware upgrades that might add features or fix problems associated with your TRENDnet model and version. To find out if there is a firmware upgrade available for your device, please check your TRENDnet model and version using the link. http://www.trendnet.com/downloads/

Network Settings

TCP/IP

Setup your basic IPv4 and IPv6 network settings on this page.

BASIC ADVANCED	TCP/IP Network Settings Setup your camera to get network address manually or dynamically.			
English	NETWORK INTERFACE			
System	Mac Address :	44:19:b7:26:e4:06		
E Network	Duplex and Speed :	Auto		
тсрлр	MTU :	1500		
Port DDNS	Primary DNS :	192.168.1.249		
PPPoE (ADSL) SNMP	Secondary DNS :			
802.1X	IPV4			
IP Address Filter QoS	DHCP :			
UPnP	IPv4 Address :	192.168.1.73		
Carleo Video	Subnet Mask :	255.255.255.0		
Events	Default Gateway :	192.168.1.254		
	Multicast Address :			
Storage	IPV6			
🔊 ртг	IPv6 Mode :	Route Advertisement View Rou		
	IPv6 Address :			
	Prefix Length :	0		
	Default Gateway :			
	Save			

Network interface	
MAC Address:	Click this button to reboot this camera.
Duplex and Speed:	Choose one of the Ethernet duplex and speed to
	match your network. Default: auto.
MTU:	Maximum transmission unit. The maximum byte
	size Ethernet data field.
Primary DNS:	Enter your first IPv4 or IPv6 DNS server address
Secondary DNS:	Enter your second IPv4 or IPv6 DNS server address
IPv4	
DHCP:	Check this box if the IP address is assigned by DHCP
	server.
IPv4 Address:	Load complete factory default to the camera.
Subnet Mask:	Network range of the subnet
Default Gateway:	The default route going further from camera IPv4
	subnet.
Multicast Address:	Multicast address for video streaming.
IPv6	
IPv6 Mode:	Choose Manual, DHCP, or Route Advertisement.
Manual DHCP	Click View Route Advertisement to find a route
Route Advertisement	advertisement.
IPv6 Address: IPv6 address of the camera.	
Prefix Length:	Length of network prefix
Default Gateway:	The default route going further from camera IPv6
	subnet.
Click Save to save the changes	

Port

You can change the service ports number of the camera or disable RTSP or HTTPS services.

BASIC	ADVANCED	Service Ports	
		Enable/ disable service ports. Change service port numbers.	
English	~	PORT NUMBERS	
Syst	tem	HTTP Port : 80	
	vork	RTSP Port : 🛛 554	
TCP/IP		HTTPS Port : 🔽 443	
Port DDNS PPPoE (AD: SNMP	SL)	Save	
802.1x			
IP Address	Filter		
QoS UPnP			

Port Numbers	
HTTP Port:	The default web access port. You can change the
	port number. However, you cannot disable the web
	service. The default port number is 80.
RTSP Port:	The Real-Time Streaming Protocol port for video
	streaming. You can change the port number or
	disable the service by uncheck the box. The default
	port number is 554.
HTTPS Port:	The secured web service port. You can change the
	port number, or you can disable the service by
	uncheck the box. The default port number is 443.
Click Save to save the changes	3

DDNS

Dynamic Domain Name Service, DDNS, allows you to find your camera from the Internet with an easy to remember domain name.

BASIC ADVANCED	Dynamic Domain Name Service (DDNS) Easier locate your camera by setting up dynamic domain name service.
English v	Enable DDNS : 🔽
System	DDNS Type : NO-IP
	Server Address :
ТСР/ІР	Domain :
Port DDNS	User Name :
PPPoE (ADSL)	Password :
SNMP 802.1x	Confirm :
IP Address Filter	
QoS	Save
UPnP	

DDNS	
Enable DDNS:	Check this box to enable DDNS Service.
DDNS Type:	Select a DDNS service provider.
Server Address:	Enter the DDNS server address.
Domain:	Enter your registered domain name on selected
	DDNS service.
User Name:	Enter the account name.
Password:	Enter the password.
Click Save to save the changes	

PPPoE

Setup PPPoE (ADSL) connection to connect your camera with your ISP, Internet Service Provider.

BASIC	ADVANCED	PPPoE (ADSL) Connect to the Internet with	PPPoE.
English	~	Enable PPPoE :	Z
Syst	tem	Dynamic IP :	0.0.0
E Netv	vork	User Name :	
TCP/IP		Password :	
Port		Confirm :	
DDNS PPPoe (ADS SNMP	SL)	Save	
802.1x			
IP Address F	Filter		
QoS			
UPnP			

PPPoE (ADSL)	
Enable PPPoE:	Check this box to enable PPPoE connection.
Dynamic IP:	The IP address provided by ISP
User Name:	Enter the account name.
Password: Enter the password.	
Confirm: Enter the password again.	
Click Save to save the changes	

SNMP

SNMP Settings allows you to assign the contact details, location, community name and trap settings for SNMP. This is a networking management protocol used to monitor network-attached devices. SNMP allows messages (called protocol data units) to be sent to various parts of a network. Upon receiving these messages, SNMP compatible devices (called agents) return data stored in their Management Information Bases.

	SNMP V1/V2		
English	Enable SNMPv1 :		
System	Enable SNMP v2c :		
E Network	Read SNMP Community :	public	
ТСРЛР	Write SNMP Community :	private	
Port DDNS	Trap Address :		
PPPoE (ADSL) SNMP	Trap Port :	162	
802.1X IP Address Filter	Trap Community :	public	
QoS	SNMP V3		
UPnP	Enable SNMPv3 :		
Cideo Video	Read UserName :		
Events	Security Level:	Privacy only 👻	
	Authentication Algorithm :	MD5 SHA	
Storage	Authentication Password :		
ФТZ	Private-key Algorithm :	O DES DAES	
	Private-key password :		
	Write UserName :		
	Security Level:	Privacy only 💌	
	Authentication Algorithm :	MD5 SHA	
	Authentication Password :		
	Private-key Algorithm :	O DES OAES	
	Private-key password :		
	SNMP OTHER SET	TINGS	
	SNMP Port :	161	
	Save		

SNMP V1/V2		
Enable SNMPv1:	Check this box to enable SNMP v1 management.	
Enable SNMPv2c:	Check this box to enable SNMP v2c management.	
Read SNMP Community:	Specify the password for access the SNMP	
	community for read only access	
Write SNMP Community:	Specify the password for access to the SNMP	
	community with read/write access	
Trap Address:	Specify the IP address for the SNMP trap community	
Trap Port:	Specify the port number for the SNMP trap	
	community	
Trap Community:	Specify the name of SNMP trap community	
SNMP V3		
Enable SNMPv3:	Check this box to enable SNMP v3 management.	
Read User Name:	SNMP v3 member user name	
Security Level:	Choose one of the security levels.	
	Authentication and Privacy Authentication only Privacy only	
Authentication Algorithm:	Choose the authentication method to verify the	
	source of information: MD5 or SHA.	
Authentication Password:	Specify the authentication password between 8 to	
	32 letters.	
Private-key Algorithm:	Choose the privacy key to encrypt SNMP messages:	
	DES or AES.	
Private-key Password:	Specify the privacy key between 8 to 32 letters.	
Write User Name:	SNMP v3 manager user name	
Security Level:		
Authentication Algorithm:	Choose the authentication method to verify the	
	source of information: MD5 or SHA.	
Authentication Password:	Specify the authentication password between 8 to	
	32 letters.	

Private-key Algorithm: Choose the privacy key to encrypt SNMP messa DES or AES.	
Private-key Password: Specify the privacy key between 8 to 32 letters.	
SNMP Other Settings	
SNMP Port: SNMP service port number.	
Click Save to save the changes	

802.1X

Setup 802.1X for remote authentication service.

BASIC ADVANCED	802.1X Authentication Setup 802.1x Remote Authentication Services	
English v	Enable IEEE 802.1X :	
System	EAPOL version : 1	
■ La Network	User Name :	
TCP/IP	Password :	
Port DDNS	Confirm :	
PPPoE (ADSL)		
SNMP	Save	
IP Address Filter		
QoS		
UPnP		

802.1X Authentication		
Enable IEEE 802.1X:	Check this box to enable 802.1X authentication	
	service.	
EAPOL version:	Extensible Authentication Protocol (EAP) over LAN	
	(EAPoL). Choose version 1 or 2. This version number	
	must matches to your 802.1X service EAPOL	
	version.	
User Name:	Enter the account name.	
Password:	Enter the password.	
Confirm:	Enter the password again.	
Click Save to save the changes	5	

IP Address Filter

Set up a list of clients allow only the clients on the list to access this camera or to reject clients on the list from access this camera.

BASIC	ADVANCED	IP Address Filt	er
		Enable IP Address Filter :	⊻
English v System		IP Address Filter Type :	Forbidden 🖌
		Add Modif	y Delete Clear
TCP/IP		NO.	IP
Port DDNS		1	10.10.10
PPPoE (ADSL) SNMP		Save	
802.1x			
IP Address Filter			
QoS			
UPnP			

Enable IP Address Filter: Check this box to enable IP address filtering		
IP Address Filter Type:	Choose Forbidden to ban the listed IP addresses or	
	Allowed to allow listed host to access this camera.	
Add:	Click Add to add a user account	
Modify:	To modify an entry on the list, highlight the entry by	
	clicking on it. Then, click the Modify button.	
	Modify IP Address IP Address 10.10.10.10 × OK Cancel	
	Enter the IP address then click OK .	
Delete:	To delete an entry on the list, highlight the entry by	
	clicking on it. Then, click Delete .	

QoS, Quality of Service

Setup traffic prioritization to help smooth out the video stream. You can set the Differentiated Services Code Point (DSCP) bits on outgoing data streams. The QoS capable network device will forward different data in different priorities. The meaning of the value is different in different DiffServ domains. Consult your network manager for the setup details.

BASIC ADVANC	ED Quality of Service Setup traffic prioritization to smooth video stream.
English	Video/Audio DSCP : 0
System	Event/Alarm DSCP : 0
	Management DSCP : 0
TCP/IP Port DDNS PPPOE (ADSL) SNMP 802.1x IP Address Filter QOS UPnP	Save

QoS		
Video/Audio DSCP:	Enter Video/Audio DSCP. Default: 0.	
Event/Alarm DSCP:	Enter Event/Alarm DSCP. Default: 0.	
Management DSCP: Enter Management DSCP. Default: 0.		
Click Save to save the changes		

UPnP

Universal Plug-and-Play is a device discovery protocol set. It allows your camera to easily be found, for example, on a Windows operation system.

BASIC ADVANCED	UPnP	
	Enable UPnP™ : ☑	
English v	Friendly Name : UPNP TV-IP311PI - 4194517	
	PORT MAPPING	
	Enable Port Mapping : 🔽	
TCP/IP Port	Port Mapping Mode : Auto	
DDNS	Protocol Name External Port Status	
PPPoE (ADSL) SNMP	✓ HTTP 80 Not Valid	
802.1x	RTSP 554 Not Valid	
IP Address Filter QoS UPnP	Save	

UPnP		
Enable UPnP:	Check this box to enable UPnP connection.	
Friendly Name:	The name that will be appeared when searched.	
Port Mapping		
Enable Port Mapping:	Check this box to enable UPnP connection.	
Port Mapping Mode:	Choose Manual or Auto port mapping.	
External Port:	Choose the port number for mapping.	
Click Save to save the changes		

Video Settings

Video Format

Adjust the format of video.

glish 🗸	Video Encoding :	H.264	×
System	Resolution :	1280*960	×
г ^а	Bitrate Type :	Variable	~
	Video Type :	Video&Audio	~
Video	Video Quality :	Medium	~
Video Format	Frame Rate :	30	Y frames per second
Audio Display Settings	Max. Bitrate :	2048	Kbps
OSD Settings Text Overlay	I Frame Interval :	60	1

Video Format		
Video Encoding:	Choose the video stream you want to modify. H.264 and	
	MJPEG videos are always streaming and can be configured	
	separately.	
Resolution:	H.264	MJPEG
	1280*720P 1280*960	352*240 704*480 320*240
Bitrate Type:	Choose between variable bit rate or constant bit rate for video	
	compression. The default is var	iable rate.
	Variable Constant	
Video Quality:	Choose the video quality. The d	lefault is medium quality.

	Lowest Lower Low <u>Medium</u> Higher Highest		
Frame Rate:	Choose the capturing frame rate. The default value is 30		
	frames per second. Reduce the frame rate to reduce the		
	capture file size.		
	30 1/16		
	1/8 1/4		
	1/2		
	2 4		
	6 8		
	10 12		
	16		
	20 15		
	18 22		
Max. Bitrate:	Choose the maximum video sampling bit rate. Default: 4096		
Frame Interval	An I Frame is a frame that records a complete picture. Frames		
	between I frames, (P frame or B frame) only records the image		
	differences between two frames. Choose the I Frame Interval		
	here. The default is 60.		
Click Save to save the changes			

Audio

Adjust the audio settings for the camera.

Audio	
Audio Encoding :	G.711ulaw
Audio Input :	LineIn
Volume :	50
Save	

Audio		
Audio Encoding:	G.711ulaw, G.711alaw, MP2L2 and G.726	
	selectable.	
Audio Input:	Select LineIn or MicIn to adjust volume.	
Input Volume:	Slid the bar to turn up/down the volume. The value ranges from 0 to 100.	
Click Save to save the changes		

Display Settings

Adjust video image quality, lightness, and color settings here.



Display Settings		
Brightness:	: Use the slider or enter a number (0-100) to adjust the	
	image brightness. Default: 50	
Contrast:	Use the slider or enter a number (0-100) to adjust the	
	image contrast. Default: 50	
Saturation:	Use the slider or enter a number (0-100) to adjust the	
	color saturation. The greater number means the color	
	will be more saturated. Default: 50	
Limit Gain:	Use the slider or enter a number (0-100) to adjust the	
	color shade. Default: 50	
Sharpness:	Use the slider or enter a number (0-100) to adjust the	
	image sharpness. Default: 50	



Display Settings	
Focus Mode:	Auto focus: allows the camera to focus automatically
Semi-auto 🔹	at any time.
- Auto Manual	Manual: use the 🛛 🗇 icon in the live view
Semi-auto	page to control focus manually.
Auto 💌	Semi-auto: cameras focuses only once after
	pan/tilt/zoom.
Minimum Focusing:	This function is used to limit the minimum focus
6m 💌	distance. The value can be set to 1.5m, 3m, 6m, 10cm
10cm 50cm	-and 50cm.
1m 1.5m	
3m 6m	
INFINITE	1
Exposure Mode:	Auto: The iris and shutter values will be adjusted
Auto	automatically according to the brightness of the environment.
- Manual Auto	environment.
Iris Priority Shutter Priority	Manual: Once selected, you can adjust the Iris and shutter speed from the extended options menu.
Iris	Iris Priority:
f4.8	The value of iris needs to be adjusted manually. The
f1.6 f2.0	shutter values will be adjusted automatically
f2.4 f2.8	according to the brightness of the environment.
f3.4 f4.0	Shutter Priority:
f4.8 f5.6	The value of shutter needs to be adjusted manually.
f6.8 f9.6	The iris values will be adjusted automatically
f11	according to the brightness of the environment.
f14 f16	
f19 f22	
	-

Shutter Speed	
1/30 1/30 1/60 1/90 1/100 1/125 1/180 1/250 1/350 1/500 1/725 1/1000 1/725 1/1000 1/1500 1/2000 1/3000 1/4000 1/6000 1/10000	
Video Standard:	This is the base frequency for the video refresh rate. It is recommended to set to the same frequency of your local video standard (NTSC: 60, PAL: 50). Default: 60Hz.
Day/Night Switch:	Choose whether you want the camera to be set to the day mode (color video) or night mode (IR enhanced black/white video). You can manually set it to day mode or night mode, adjust by lighting (Auto), or pre- define schedule.
	Day : The speed dome displays color image. It is used for normal lighting conditions.
	Night : The image will be black and white. Night mode can increase the sensitivity in low light conditions.
	Auto:

In Auto mode, the day mode and night mode can switch automatically according to the light condition of environment.Mirror:Select from OFF or ON option to set the correct direction of the camera view.Slow Shutter:This function can be used in underexposure condition. It lengthens the shutter time to ensure full exposure. The slow shutter value can be set to Low, Normal and High.D-WDR:This Digital Wide Dynamic Range feature helps to improve the image quality under limited light source. Higher value brings brighter images.D-WDR :Enabled D-WDR Level : 10Lens Initialization:The lens operates the movements for initialization when you check the check box.BLC:If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white.White Balance:Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor: You can select this mode when the speed dome is installed in outdoor environment.		
direction of the camera view. Slow Shutter: This function can be used in underexposure condition. It lengthens the shutter time to ensure full exposure. The slow shutter value can be set to Low, Normal and High. D-WDR: This Digital Wide Dynamic Range feature helps to improve the image quality under limited light source. Higher value brings brighter images. D-WDR: D-WDR : Enabled D-WDR Level : 10 Lens Initialization: The lens operates the movements for initialization when you check the check box. BLC: If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white. White Balance: Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:		switch automatically according to the light condition
Slow Shutter: This function can be used in underexposure condition. It lengthens the shutter time to ensure full exposure. The slow shutter value can be set to Low, Normal and High. D-WDR: This Digital Wide Dynamic Range feature helps to improve the image quality under limited light source. Higher value brings brighter images. D-WDR: Enabled D-WDR Level : 10 Lens Initialization: The lens operates the movements for initialization when you check the check box. BLC: If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white. White Balance: Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:	Mirror:	
Inits function can be used in underexposute condition. It lengthens the shutter time to ensure full exposure. The slow shutter value can be set to Low, Normal and High. D-WDR: This Digital Wide Dynamic Range feature helps to improve the image quality under limited light source. Higher value brings brighter images. D-WDR: Enabled D-WDR tevel : 10 Lens Initialization: The lens operates the movements for initialization when you check the check box. BLC: If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white. White Balance: Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment.		
Lens Initialization: The lens operates the movements for initialization when you check the check box. BLC: If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white. White Balance: Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment.	Slow Shutter:	condition. It lengthens the shutter time to ensure full exposure. The slow shutter value can be set to Low ,
D-WDR Level :10Lens Initialization:The lens operates the movements for initialization when you check the check box.BLC:If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white.White Balance:Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:	D-WDR:	improve the image quality under limited light source.
Lens Initialization:The lens operates the movements for initialization when you check the check box.BLC:If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white.White Balance:Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:		D-WDR : Enabled
BLC:If there's a bright backlight, the subject in front of the backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight environment is washed out to white.White Balance:Auto: The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:		D-WDR Level : 10
White Balance:Auto:White Balance:Auto:The camera retains color balance automatically according to the current color temperature.Manual:In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment.	Lens Initialization:	•
The camera retains color balance automatically according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:	BLC:	backlight appears silhouetted or dark. Enabling BLC (back light compensation) function can correct the exposure of the subject. But the backlight
according to the current color temperature. Manual: In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:	White Balance:	Auto:
In MWB mode, you can adjust the color temperature manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:		
manually to meet your own demand. Outdoor: You can select this mode when the speed dome is installed in outdoor environment. Indoor:		Manual:
installed in outdoor environment. Indoor:		
You can select this mode when the speed dome is		Indoor:
installed in indoor environment.		You can select this mode when the speed dome is installed in indoor environment.

	Fluorescent Lamp:
	You can select this mode when there are fluorescent lamps installed near the speed dome.
	Sodium Lamp:
	You can select this mode when there are sodium lamps installed near the speed dome.
	Auto-Track:
	White balance is continuously being adjusted in real- time according to the color temperature of the scene illumination.
Digital Noise Reduction:	Enable or disable noise reduction.
	Noise Reduction Level: Adjust the effect of digital noise reduction. Range: 0-100%, default : 100%
Zoom Limit:	You can set Zoom Limit value to limit the maximum value of zooming. The value can be set to 20, 40, 80, 160 and 320.
HLC:	HLC (High Light Compensation) makes the camera identify and suppress the strong light sources that usually flare across a scene. This makes it possible to see the detail of the image that would normally be hidden.
IR Light Mode:	Auto: The brightness of the infrared light will be adjusted automatically.
	Manual: you need to adjust the brightness value of infrared light manually. IR Light Sensitivity value ranges from 0 to 100.

Note:

- When **IR Light Mode** is set to auto, the day/night mode is adjusted automatically according to the IR Light Mode. Manually setting the day/night mode is invalid.
- When **IR Light Mode** is set to manual and the **IR Light Bright** is 0, you can set the day/night mode manually.

• When **IR Light Mode** is set to manual and the **IR Light Bright** is not 0, night mode is set as the default mode. Manually setting the day/night mode is invalid.

On Screen Display (OSD) Settings

You can display the camera name and the time the video is shooting on the screen.



OSD Display	
Display Name:	Check this box to display the product name that was
	setup in the device settings (refer to page 25 to
	change the device name.)
Display Date:	Check this box to display system time.
Display Week:	Check this box to display time of the week.
Time Format:	Select 12 or 24 hours' time format.
Data Format:	Select different date format.
Display Mode:	Select transparent/flashing format.
OSD Size:	Select different size format. (Auto, 16*16, 32*32,
	48*48, 64*64)
Click Save to save the change	S

Text Overlay

Display extra information on the screen over the image.



Text Overlay	
Check Box:	Check this box to enable text overlay.
Text Field:	Enter the text you want to display. You can enter
	your local language if you want. The text field
	allows maximum 44 English letters or 20 non-
	English characters.
Click Save to save the change	5

TV-IP450PI

Video Recording

BASIC ADVANCED	Video Recording
English	Pre-record 55
English 🔹	Post-record 5s
	Overwrite Yes
⊟ Network	
Video	Enable Record Schedule
	Edit Continuous
Video Format	0 2 4 6 8 10 12 14 16 18 20 22 24
Audio	Mon <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>
Display Settings	Tue
OSD Settings Text Overlay	Wed 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Privacy Mask	Thu 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Video Recording	
	Sat 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Events	Sun 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Storage	
PTZ	Save

Video Recording	
Pre-record:	Recording time before trigger event.
Post-record:	Recording time after trigger event.
Overwrite:	Select Yes to allow older recordings to be
	overwritten.
Enable Record Schedule:	Check this box and then click Save to enable video
	recording.
Edit:	Click Edit to edit the recording schedule.

Mon	Tue Wed The	u Fri Sat Sun		
OAII	Day Contin	uous		
Cu:	stomize			
Period	d Start Time	End Time	Record Type	
1	00:00	00: 00	Continuous	~
2	00:00	00: 00	Continuous	~ ~
4	00:00	00: 00	Continuous	
5	00: 00	00: 00	Continuous	~
6	00:00	00: 00	Continuous	~
7	00:00	00:00	Continuous	~
8	00:00	00:00	Continuous	~
1	. Select	day of the w	eek you want t	o ed
1	. Select schedu	•	eek you want t	o ed
1 2	schedu	ıle.	eek you want t stomized sched	
_	schedu	ıle.	·	
_	schedu . Select day.	ile. All Day or Cu	·	dule
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2	schedu . Select day. . Set the	ile. All Day or Cu e time period	stomized sched	dule (you
2	schedu Select day. Set the to trig	Ile. All Day or Cu e time period ger the vide	stomized schec	dule o you ontir
2	schedu Select day. Set the to trig (alway	Ile. All Day or Cu e time period ger the vide s recording) o	and the event or recording control of the	dule o you ontir ction
2	schedu Select day. Set the to trig (alway Set Click C	Ile. All Day or Cu e time period ger the vide s recording) c Copy to Wee	stomized schect and the event to recording co or motion detect k if you want	dule you ontir ction the
2	schedu Select day. Set the to trig (alway Set Click C	Ile. All Day or Cu e time period ger the vide s recording) c Copy to Wee	and the event or recording control of the	dule you ontir ction the
2	schedu Select day. Set the to trig (alway Click C daily s	Ile. All Day or Cu e time period ger the vide s recording) o Copy to Wee chedule ever	stomized scheo and the event or recording co or motion detect k if you want y day. Or, you	dule of you ontir ction the can
2	schedu Select day. Set the to trig (alway daily so other c	Ile. All Day or Cu e time period ger the vide s recording) of Copy to Wee chedule ever day of the we	stomized schect and the event to recording co or motion detect k if you want y day. Or, you ek and click Co	dule of you ontir ction the can a py to
2	schedu Select day. Set the to trig (alway daily so other c	Ile. All Day or Cu e time period ger the vide s recording) of Copy to Wee chedule ever day of the we	stomized scheo and the event or recording co or motion detect k if you want y day. Or, you	dule of you ontir ction the can a py to
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2 3 4	schedu Select day. Set the to trig (alway Click C daily so other o the sch	Ile. All Day or Cu e time period ger the vide s recording) of Copy to Wee chedule ever day of the we nedule of the nother day of	stomized sched and the event or recording co or motion detect k if you want y day. Or, you ek and click Co day to other da f the week by o	dule of you ontir ction the can a py to ays. clicki
2 3 4	 schedu select day. Set the to trig (alway Click C daily so other of the sch Click a its tab 	All Day or Cu e time period ger the vide s recording) of Copy to Wee chedule ever day of the we nedule of the nother day of to set the	stomized scheo and the event or recording co or motion detect k if you want y day. Or, you ek and click Coj day to other da	dule of you ontir ction the can : can : py to ays. clicki

Click Save to save the changes
<u>Events</u>

Motion Detection

Set up how the motion detection event will be triggered and what actions will be triggered.



Motion Detection				
Enable Motion Detection:	Check this box to enable motion detection. Click			
	Save to save the choice.			
Enable Motion Tracking:	Check this box to enable motion tracking. Motion			
	tracking is a dynamic display that shows the current			

	status of motion detection. The motion tracking is
	displayed by a green grid. The grid area represents
	that the camera detects motion in this area. Click
	Save to save the choices.
Draw Area:	Click Draw Area button to start drawing. Click and
	drag on the area you want to set up the motion
	detection. You can draw up to 8 different areas.
	Click Stop Drawing to stop drawing motion
	detection areas.
	The red grids represent the detection area.
Sensitivity:	Move the slider to adjust detection sensitivity.
Clear All:	Click this button to clear all the set up areas.

	ING	s so	CHE	DUL	.E					_		1.	
											6	dit	
	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon													
Tue													
Wed Thu													
Fri													
Sat													
Sun													
					3 1			1 1		1 1			
ΝΟΤ	IFI	САТ	101	1									
ΝΟΤ	IFI		ION nd En										
NOT		Se		nail :									
NOT	Upl	Se oad S	nd En	nail : hot :									
NOT	Upl	Se oad S	nd En Snaps	nail : hot :	×								
NOT	Upl Net	Se oad S	nd En Snaps	nail : hot :	×								
	Upl Net	Se oad S	nd En Snaps	nail : hot :	×								

Edit: Click Edit to define when you want the motion detection works.

	Edit Schedule Time
	Mon Tue Wed Thu Fri Sat Sun
	Period Start Time End Time
	1 00:00 k 24:00 k
	2 00:00 8 00:00
	3 00:00 👪 00:00
	4 00:00 👪 00:00 👪
	5 00:00 👪 00:00 👪
	6 00:00 👪 00:00 👪
	7 00:00 👪 00:00 👪
	8 00:00 👪 00:00 👪
	Mon Tue Wed Thu Fri Sat Sun Copy OK Cancel
	 Select day of the week you want to edit the schedule. Set the time period you want to enable motion detection. (Default is 0-24 hours, a day). Click Copy to Week if you want the same daily schedule every day or you can select other day of the week and click Copy to copy the schedule of the day to other days. Select another day of the week by clicking or its tab to set next schedule. Click OK when
	you finished your setting.
Notification	
Send Email:	Check this box to send an e-mail notification when
	motion is detected. Go to Events / Email to setup
	-
	email account information.
Upload Snapshot:	Check this box to send snapshots to an FTP server or
	configured Network Storage when motion is
	detected. Go to Network Storage or FTP to setup
1	

server information

Upload to FTP:	Check this box to send snapshots to an FTP server			
	when motion is detected. Go to Storage / FTP to			
	setup FTP server information			
Click Save to save the changes				

Tamper-proof

This is to detect if the camera has been tampered with and surveillance is compromised. You can set up tamper proof notifications to alert the system manager to check the camera.



Enable Tamper Detection:	Check this box to enable tamper detection. Click Save			
	to save the settings.			
Draw Area:	Click Draw Area button to start drawing. Click and			
	drag on the area you want to set up the tamped			
	detection. You can setup only one area for tamper			
	detection. Click Stop Drawing to stop drawing motior			
	detection areas. The gray block represent the			
	detection area.			
Sensitivity:	Move the slider to adjust detection sensitivity.			
Clear All:	Click this button to clear all the set up areas.			
Enable Tamper Detection:	Check this box to enable tamper detection. Click Save			
	to save the settings.			

ARMING SCHE	DULE			Edit Schee	Jule Time		
	······			Mon	Tue Wed Thu Fri S	Sat Sun	
	Edit			Period	Start Time	End Time	
				1	00:00	24:00	iki
				2	00:00	膨 00: 00	18
0 2 4	6 8 10 12 14 16 18 20 22 24			3	00: 00	8 00: 00 00: 00	ik .
				5	00: 00	8 00:00	25
Mon				6	00: 00	iii 00: 00	ik.
Tue				7	00: 00	300: 00	25
Tue				8	00:00	300:00	1
Wed					Week Select All		_
Thu				I Mon []Tue 🗌 Wed 🗌 Thu 🗌	Fri 🗌 Sat 🗌 Sun Copy	
						ок	Cancel
Fri							
Sat				1.	Salact the da	y of the week you	u want to
				1.			
Sun					the schedule.		
				2.	Set the time	e period you wa	ant to ena
				2.			
					tamper deteo	ction. (Default is (0-24 hours
NOTIFICATION					day).		
NOTIFICATION	, M			2		- Maale if you w	
Send Err	ail : 💼			3.	CIICK COPY to	b Week if you w	ant the sa
					daily schedul	e every day. Or, y	you can se
					other day of t	the week and click	Conv to c
Save					-		
					the schedule	of the day to othe	er days.
				4.	Select anothe	er day of the week	k by clicking
- Calcadada						-	
g Schedule						et the next sched	
	Click Edit to define when you want the tamper				when you ha	ve finished your se	ettings.
	detection works.	Notification					
			Send Email:	Check t	his box to senc	l an e-mail notifica	ation when
				motion	is detected. Go	o to Events / Emai	il to setup
					ccount informa		

Click Save to save the changes

Exception

Provides notifications for other system events, set up your notifications here.

BASIC ADVANCED	System Notification
English	Exception Type: Storage Full Y
System	NOTIFICATION
	Send Email :
Video	Save
Events	
Motion Detection	
Tamper-proof Exception	
Snapshot EMail	
Storage	

Notification	
Exception Type:	First choose the exception type, then choose the
	corresponding action.
Send Email:	Check this box to send an e-mail notification when
	motion is detected. Go to Events / Email to setup
	email account information.
Click Save to save the changes	3

Snapshot

You can set up your camera to continuously take snapshots or take snapshots when an event happens.

BASIC ADVANCED	Snapshot		
English	CONTENTIOUS		
System	Enable :		
	Format :	JPEG	
	Resolution :	1920*1080 ~	
Video	Quality :	High	
Events	Interval :	0	millisecoi ~
Motion Detection	EVENT-TRIGGERE	D	
Tamper-proof	Enable :		
Exception Snapshot	Format :	JPEG	
EMail	Resolution :	1920*1080 ~	
Storage	Quality :	High	
	Interval :	0	millisecoi 🗸
	Capture Number :	4	
	Save		

Continuous	
Enable:	Check this box to continuously take snapshots.
Format:	Save snapshots in JPEG format
Resolution:	Uses the same resolution set in Video Format for the
	snapshot resolution.
Quality:	Choose a compression quality for snapshots.
Interval:	State the time interval between snapshots. The
	default interval is 10 seconds.
Click Save to save the changes	5

Event Triggered	
Enable:	Check this box to take snapshots when an event is
	occurred.
Format:	Save snapshots in JPEG format
Resolution:	Uses the same resolution set in Video Format for the
	snapshot resolution.
Quality:	Choose a compression quality for snapshot.
Interval:	State the time interval between this series of
	snapshots. The default interval is 1 second.
Capture Number:	State how many snapshots you want to take in a
	single triggered event. Default: 3 pictures.
Click Save to save the changes	

Email

Set up email accounts for notifications.

BASIC ADVANCED	Email Account Settings
English	SENDER
System	Sender :
	Sender's Address :
■ [<mark>]</mark> Network	SMTP Server :
Video	SMTP Port: 25
Events	Enable SSL :
Motion Detection	Interval : 25 🝸 🖬 Attach Image
Tamper-proof	Authentication:
Exception Snapshot	User Name :
EMail	Password :
Storage	Confirm :
ртz	RECEIVER
	Receiver1 :
	Receiver1's Address :
	Receiver2 :
	Receiver2's Address :
	Receiver3 :
	Receiver3's Address :
	Save

Sender	
Sender:	Enter the name to appear as the email sender.
Sender's Address:	Enter sender's email address.
SMTP Server:	Simple Mail Transportation Protocol Server
	address, the outgoing email server address. Please
	ask your email service provider for details.
SMTP Port:	Service port number for outgoing email.*

	Check this box if your service provider requires a	
Enable SSL:	SSL secured connection.	
Attach Image/Interval:	Check Attach Image if you want to send a snapshot	
	image with the email notification and select the	
	interval of snapshots in seconds.	
Authentication:	Check this box if your server requires a password in	
	order to send email. Most email servers require	
	authentication when sending an email.	
User name:	Enter the user name of outgoing email account	
Password:	Enter the password	
Confirm:	Enter the password again to confirm that the	
	password was entered correctly.	
Click Save to save the changes		

Receiver	
Receiver 1:	The first receiver's name.
Receiver 1's Address:	The first receiver's email address.
Receiver 2:	The second receiver's name.
Receiver 2's Address:	The second receiver's email address.
Receiver 3:	The third receiver's name.
Click Save to save the changes	

* Many ISPs do not allow service port 25 going through their network. Other popular ports are 587 and 465. Please consult your email service provider and ISP for details.

Storage

Storage Management

* Micro SD card or Network storage device must be setup / formatted before it can be managed / stored. Camera will save to SD card only when there is no additional NAS device setup.

Stora	Storage Management				
Format cl	Format checked storage : Format				
	CAPACITY	FREE SPACE	STATUS	PROPERTY	PROGRESS
	29.72GB	28.25GB	Normal	R/W	
	0.00GB	0.00GB	Offline	R/W	
	■ 0.00GB 0.00GB Offline R/W				

*Micro SD slot is located at the opposite side of the lens under a protective black strip. (Please make sure the environment is dry and clean when opening the dome cover)

Network Storage

* **Network Storage** must be setup before it can be managed. For storage management, please refer to the next section.

The camera supports two formats of network storage file systems: NFS and SMB/CIFS. NFS, Network File System, is natively supported by Linux computers and most NAS, Network Attached Storage. SMB/CIFS, Common Internet File System, is natively supported by Windows[®] systems and now is generally supported by Linux and OS X[®].

You can add up to 8 network storages for your camera. The recordings will subsequently be stored in these spaces. Save video from the first storage and then the next when the first one is full. Click on the entry to change the settings and click **Save** to save the settings.

BASIC ADVANCED	Net	Network Storage			
nglish	▼ No.	Туре	Server Address	File Path	Capacity(GB)
System	1	NAS			
■ L Network	NF	S 🔻	User Name	Password	
	2	NAS			
Video	з	NAS		-	
Events	4	NAS			
	5	NAS			
Storage	6	NAS			
Storage Management	7	NAS			
Network Storage FTP Server	8	NAS			
2					
PTZ		ive			

Network Storage	
No:	The sequential number of the network storage.
Туре:	The type of storage.
Server Address:	Enter the IP address of your network storage.
File Path:	Enter the file path on the server for network
	storage.
Capacity:	Enter the size of the disk space you want to assign
	for this storage. The minimum disk space
	requirement is 8GB. If you do not want to limit the
	size and use the full physical disk space, enter 0 in
	this field.
File System:	Choose between NFS or CIFS for file system. If you
	assign the network storage on a Windows®
	computer, set it to SMB/CIFS. (if you use an
	anonymous account, please still enter a random
	user ID and password before saving)

User Name:	Enter the user name if the network storage requires authentication. Leave it blank if no authentication is required.
Password:	Enter the password to access the network storage.
 ✓ Intervente ✓ Intervente <	Tip: To create network storage on your Windows [®] based system, create a shared folder and then test your set up with another computer. Enter the IP address of the computer here and enter the shared folder name with a leading forward slash. For example, if you have a shared folder named "SMB", enter "\SMB" in the File Path .
Click Save to save the changes	

FTP Server



FTP	
Enable Snapshot to FTP:	Check this box if you want to store snapshots on
	the FTP.
Server Address:	Enter the FTP server IP address.
Port:	Enter the service port number of the FTP server.
User Name/Anonymous:	Check Anonymous if the FTP server does not
	require authentication. Enter the User Name if the
	FTP server requires authentication.
Password:	Enter the password of the FTP account.
Confirm:	Enter the password again to make sure the
	password was entered correctly.
Directory Structure:	When saving snapshots on an FTP server, they can
	be saved in a single place or organized with
	meaningful directory names.
	Save in root directory: You can choose to store all
	files in the same folder of FTP login.
	Save in directory: Structure your folders with
	camera name or IP address.
Directory:	Use Camera Name: Use the camera name to
	organize the saved files.
	Use Camera IP: Use the camera IP address to
	organize the saved files.
Click Save to save the changes	;

Pan/Tilt/Zoom (PTZ) Settings

Basic

	BASIC PARAMETER	R	
English 🗸	Enable Proportional Pan :	2	
System	Preset Speed :	4	(
	Keyboard Control Speed :	Normal	
Video	Auto Scan Speed:	28 🗸	1
	Max. Tilt-angle:	(-5 - 90) 🗸	Degree
Events	Auto Flip:	ON 🗸	
Storage	PTZ OSD		
О РТZ	Zoom Status:	Always Close 🗸 🗸	
Basic	PT Status:	Always Close 🗸 🗸	
Limit	Preset Status:	Always Close	
Initial Position Park Action	POWER OFF MEMO	DRY	
Privacy Mask	Set Resume Time Point:	30s 🗸	
Scheduled Tasks Clear Config			i
	Save		

Basic Parameters	
Enable Proportional Pan:	If you enable this function, the pan/tilt speeds
	change according to the amount of zoom.
Preset Speed:	You can set the speed of defined preset from 1 to 8.
Keyboard Control Speed:	Define the speed of PTZ control by a keyboard as
	Low, Normal or High.
Auto Scan Speed:	The camera provides 5 scan modes: auto scan, tilt
	scan, frame scan, random scan and panorama scan.
	The scan speed can be set from level 1 to 40.

Max. Tilt-angle:	The maximum angle that the camera can revolve in	
	the tilt direction is adjustable. The values range	
	from (0-90) to (-5-90)	
Auto Flip:	You can enable/disable the auto flip function	
PTZ OSD		
Zoom Status:	Set the OSD duration of zooming status as 2	
	seconds to 10 seconds, always on or off.	
PT Status:	Set the angle display duration white panning and	
	tilting as 2 seconds to 10 seconds, always on or	
	off.	
Preset Status:	Set the preset name display duration as 2 seconds	
	to 10 seconds, always on or off.	
POWER OFF MEMORY		
Set Resume Time Point:	The camera can resume its previous PTZ status or	
	actions after it is restarted from a power-off. You	
	can set the time point of which the camera resumes	
	its PTZ status from 30 seconds up to 600 seconds	
	before power-off.	
Click Save to save the changes		

Limit

The camera can be programmed to move within the configured stops. (left, right, up or down)



Steps

- 1. Check the **Enable Limit** box and select Manual Stops or Scan Stops from the Limit Type list.
 - a. When manual limit stops are set, you can operate the PTZ control panel manually only in the limited area.
 - b. When scan limit stops are set, all the scan actions are performed only in the limited area.
- 2. Click the PTL control buttons to find the left/right/up/down stop limits, you can also call the presets and set them as the limits for the camera.
- 3. Click Set to save the limits and Clear to clear the limits.

Initial Position

Set the camera initial position, you can also call a preset for the position. Click Set to save the limits and Clear to clear the limits.



Park Action

The feature allows the camera to start at a predefined park action. (scan, preset, pattern) automatically after a period of inactivity (park time).

Scheduled Tasks function has higher priority over Park Action function therefore when two functions are set at the same time, Scheduled Tasks function takes effect.

Enable Park Action:	v	
Park Time:	5	second
Action Type:	Auto Scan Frame Scan Random Scan Patrol Pattern Preset Panorama Scan Tilt Scan	

Private Mask

Create masking area to keep your privacy. You can create up to four independent masking areas by clicking and dragging on the screen.

Enable Privacy Masks			۲		4	ŧ	##
			•	0	•	0	0
		A I	*	۳	4	0	0
And the second s		<u>tt</u> -		_	-	<u> </u>	
		P	res	et 1			^
		P	Pres	et 2			
		P	Pres	et 3			
TITLE		P	res	et 4			
		P	Pres	et 5			~
Draw Area Clear All Privacy Mask List					Add		Delete
	Туре	Enable	Acti	ive Z		r Ratio	Delete
Privacy Mask List	Туре	Enable	Acti	ive Z			Delete

Private Mask				
Enable Privacy Mask:	Check this box to enable privacy masking.			
Draw Area:	Click this button to start drawing.			
Stop Drawing:	Click this button to stop drawing.			
Clear All:	Click this button to clear all the masking areas.			
Add:	Click this button to add the mask.			
Delete:	Click this button to delete the mask.			
Click Save to save the changes				

Schedule Tasks

You can configure the camera to perform a certain action automatically in a userdefined time period.

Timin	g Tas	ks										Edit	Task
	0	2	4	8	8	10	12	14	16	18	20	22	24
Mon													Π
Tue													
Wed													Π
Thu													П
Fri													
Sat													
Sun													

Enable the Scheduled Task, define the Park Time and Edit the Tasks that you would like to perform at certain time.

Mon	Tue Wed T	hu Fri Sat Sur	ו		
OAII ⊑ ●Cust	Day Auto S tomize	Scan 🖌			
Period	Start Time	End Time	Task Type		Task Type ID
1	00:00	24:00	Auto Scan	~	
2	00:00	00:00	Auto Scan	~	
3	00:00	00:00	Auto Scan	~	
4	00:00	00:00	Auto Scan	~	
5	00:00	00:00	Auto Scan	~	
5	00:00	00:00	Auto Scan	~	
7	00:00	00:00	Auto Scan	~	
3	00:00	00:00	Auto Scan	~	
Э	00:00	00:00	Auto Scan	~	
10	00:00	00:00	Auto Scan	~	

- 1. Choose the day you would like to set the task schedule
- 2. Click All Day or Customize to enter the Start Time and End Time for each task.
- 3. Choose the task type from the drop down list.
- 4. Click OK to save the settings.

Note: The time for each task cannot be overlapped, up to 10 tasks can be configured for each day.

Clear Config

You can clear PTZ configurations all at once in this section, select the desire function and click Save to clear.



Restore Default Password

For security purposes, if you find yourself in need of restoring the camera to factory default settings, you will need to contact technical support.

USA/Canada phone support:

Toll Free English: (855) 373-4741

Monday – Friday: 7:00 AM – 5:30 PM PST

After hours 24/7: (866) 845 - 3673

Global Support:

Find the support number for your country at: <u>www.trendnet.com</u>

Online support: www.trendnet.com/support/helpdesk

1. 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.

2. 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.

3. 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.

4. 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 source.

5. 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 www.java.com 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.

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 Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC 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.

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

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

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

Safety of Information Technology Equipment

EN 62311: 2008

Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz-300 GHz)

(IEC 62311:2007 (Modified))

EN 300 328 V1.7.1: (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1 V1.9.2: 2011

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V2.1.1 (2009-05)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states 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.

C E F©EHE

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

IMPORTANT NOTE:

NCC AND FCC Warning Statement

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

छ Česky [Czech]	TRENDnet tímto prohlašuje, že tento TV-IP450PI je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
dal Dansk [Danish]	Undertegnede TRENDnet erklærer herved, at følgende udstyr TV- TV-IP450PI overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt TRENDnet, dass sich das Gerät TV-IP450PI in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
et]Eesti [Estonian]	Käesolevaga kinnitab TRENDnet seadme TV-IP450PI vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, TRENDnet, declares that this TV-IP450PI is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
ि Español [Spanish]	Por medio de la presente TRENDnet declara que el TV-IP450PI cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
፪፱ [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ TRENDnet ΔΗΛΩΝΕΙ ΟΤΙ TV-IP450PI ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
ff Français [French]	Par la présente TRENDnet déclare que l'appareil TV-IP450PI est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Lit]Italiano [Italian]	Con la presente TRENDnet dichiara che questo TV-IP450PI è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Latviski [Latvian]	Ar šo TRENDnet deklarē, ka TV-IP450PI atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo TRENDnet deklaruoja, kad šis TV-IP450PI atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
<u>nl</u> Nederlands [Dutch]	Hierbij verklaart TRENDnet dat het toestel TV-IP450PI in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
[mt]Malti [Maltese]	Hawnhekk, TRENDnet, jiddikjara li dan TV-IP450PI jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
իսMagyar [Hungarian]	Alulírott, TRENDnet nyilatkozom, hogy a TV-IP450PI megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
면 Polski [Polish]	Niniejszym TRENDnet oświadcza, że TV-IP450PI jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
<pre> Português [Portuguese] </pre>	TRENDnet declara que este TV-IP450PI está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
डी Slovensko [Slovenian]	TRENDnet izjavlja, da je ta TV-IP450PI v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	TRENDnet týmto vyhlasuje, že TV-IP450PI spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES
fi Suomi [Finnish]	TRENDnet vakuuttaa täten että TV-IP450PI tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar TRENDnet att denna TV-IP450PI står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TV-IP450PI – 3 Years Warranty

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

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-ofpurchase 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 (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. Customers shipping from outside of the USA are responsible for return shipping fees. Customers shipping from outside of the USA are responsible for custom charges, including but not limited to, duty, tax, and other fees.

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