User's Guide

TRENDIET



Indoor/Outdoor 4 MP PoE Day/Night Network Camera

TV-IP314PI

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Product Overview



Features

The Indoor/Outdoor 4 MP PoE IR Network Camera, model TV-IP314PI, provides powerful 4-megapixel night vision in complete darkness for up to 30 meters (100 ft.). Even in extreme environments, this ultra-compact camera will function all year, thanks to an IP66 weather-rated housing. Use the included pro-grade software to manage up to 32 TRENDnet cameras or download the free iOS[®] or Android™ mobile app.

Hardware

Adjustable Bracket

Fully adjustable integrated mounting bracket provides installation flexibility

PoE

Save installation costs with Power over Ethernet (IEEE 802.3af)

Outdoor Ready

Outdoor IP66 weather rated and an operating temperature range of -30 $^{\circ}$ 60 $^{\circ}$ C (-22 $^{\circ}$ 140 $^{\circ}$ F)

Performance

4 Megapixel

Record 2688 x 1520 pixel video at 20 fps in H.264+ compression

Night Vision

Night vision up to 30m (100 ft.) in complete darkness

Smart IR

Dynamic IR adjustment optimizes night visibility

WDR

120dB Wide Dynamic Range improves video quality in high contrast lighting environments

Camera Management

Multi-Language Interface

Support for English, French, Spanish, German, and Russian

Advanced Playback

Advanced in-camera archived video review functionality

Storage

SMB/CIFS support with notification if storage drive is full

Motion Detection

Create motion detection windows with separate sensitivity settings and event triggers

Recording Schedule

Define a weekly recording schedule

Tamper Detection

Receive tamper detection video clips via email

IPv6

IPv6 support

ONVIF / PSIA

ONVIF 2.4 and PSIA compliant

Free Apps

See live video on a mobile device with free iOS® and Android® apps

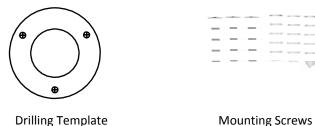
Complimentary Software

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

Package Contents

TV-IP314PI package includes:

- TV-IP314PI
- Quick Installation Guide
- CD-ROM (Utility and User's Guide)
- Camera mounting hardware
- (Optional power adapter not included)





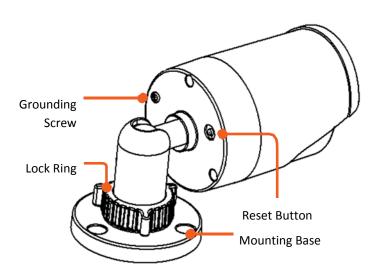
If any package content is missing or damaged, please contact the retail store, online retailer, or reseller/distributor from which the product was purchased.

Front View

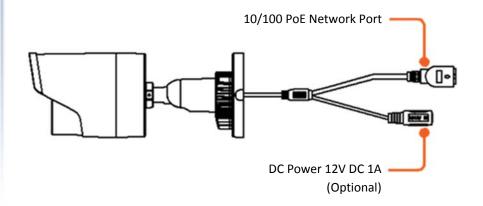


Reset Button	Push and hold the reset button then power on the camera. Keep holding the reset button for more than 10 seconds to reset configuration to factory default.
Grounding Screw	Connects to electric ground.
Lock Ring	Loosen to adjust the camera position. Tighten to hold the camera position.
Ambient Light Sensor	Detects the brightness in the environment and enable day/night modes automatically.
IR LEDs	Infra-red LEDs for night vision.

Mounting Holes



Connectors



Warnings

Serious injury or death may be caused if any of these warnings are neglected. Follow these safety guards to prevent serious injury or death.

- If using the power adapter, please choose the power adapter that meets the safety extra low voltage (SELV) standard or IEC60950-1 and Limited Power Source standard.
- 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.
- To reduce the risk of fire or electrical shock, do not expose this product to rain or water.
- The installation should be done by a qualified service person and should conform to all construction and electric regulations and other local codes.

Cautions

Injury or equipment damage may be caused if any of these cautions are neglected. Follow these precautions to prevent potential injury or material damage.

- 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 -10°C to 60°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.
- Keep out of water and any liquid.
- While shipping, the camera should be packed in its original packing.

TRENDnet User's Guide TV-IP314PI

Installation Procedure

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

- Plan for installation location, see page 6 (next paragraph)
- Setup Your Camera with CD, see page 9
- Hardware Installation, see page 12

Plan for installation location

Viewing angle

The TV-IP314PI is a bullet camera with a focused viewing angle (83° horizontal) that provides non-distorted 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 TV-IP314PI is a small bullet camera, which fits most installations indoor and outdoor. The camera can work under a wide range of weather conditions. For severe weather conditions, a camera housing with temperature and moisture control is recommended. Using the camera in milder weather conditions will help extend the camera's product life and preserve the quality of the video image.

- Moisture: Avoid damp or moist environments whenever you can. The
 TV-IP314PI 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: TV-IP314PI 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 Your 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**.



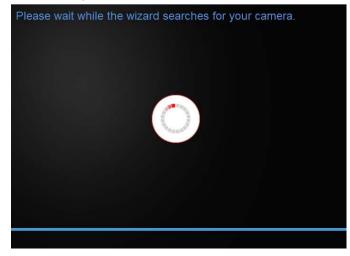
2. Write down the MAC Address of the camera.



- 3. Connect a PoE capable network cable to the camera's network port and then to a PoE switch and wait for the camera to boot up, click **Next.**
 - * A power adapter (sold separately) can be used instead of PoE switch.



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**.



6. Select the **DHCP** option to assign IP address dynamically, or select **Fixed IP** to assign the camera an IP address, and 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**.

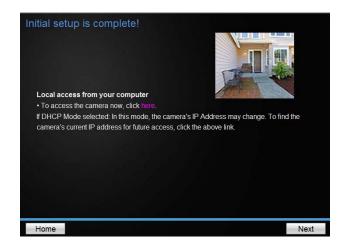


8. Enter a new password. The default password is **admin**. You are required to change the password from the default setting to prevent unauthorized access. Enter the default password: **admin** and enter the new passwords for a brand new installation. The password must be between 8 and 16 characters. (Alphanumeric: a-z, A-Z, 0-9, !, @, #, \$)

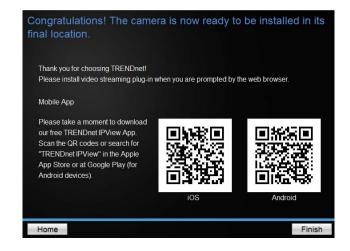
Note: This camera installation wizard is also good for finding the camera if it was setup with DHCP. The IP address may change dynamically with the DHCP setting. If you want to access your camera again and you don't know the IP address, you can run this camera installation wizard again. If you have already 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.)



9. Click **here** to access to the camera's web page or click **Next** for mobile app installation. Windows will prompt you to login, once login the live view on this window will appear.



10. Scan the QR code to find and install the TRENDnet IPView app. Click **Finish** to exit the program or click **Home** to return to the main screen.



Hardware Installation

Cabling

It's recommended that the wiring the cable in your home or office by a professional. If you already have the cable deployed, make sure the cable and the connectors meet the category 5 Ethernet cable standards. At least 2 pairs of twisted lines are required for power and data. Poor cable quality may cause unexpected problems. Testing your cable or running a new cable is suggested for new camera installation.

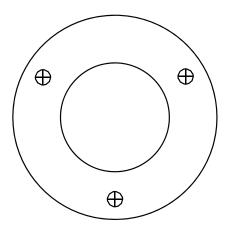
Waterproof cap

The TV-IP314PI itself is IP66 grade water and dust proof. There is a set of network cable water proof caps that comes with the package as well. Run your cable going through the accessories, and then crimp the cable with an RJ45 module. Plug in the network cable and then tighten the waterproof cap to prevent water running into camera through the cable.

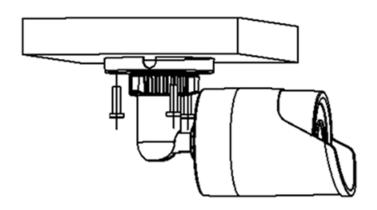


Mount your camera

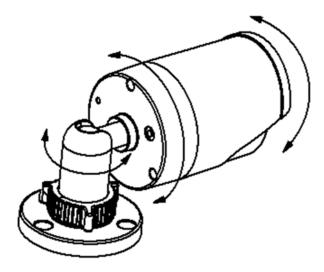
Drill the screw holes and the cable hole if necessary with the drill template comes with the package.



Fix the mounting base on the ceiling or the wall with the screws that come with the package. Route the cables to the cable hole.



Loosen the lock ring and then adjust the camera position. Tighten the lock ring when you setup the camera position.



Access your Camera with 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 (version 2.4.3 or later) for Windows computers. The software is included on the CD comes with the package. If you do not have the CD with you, you can go to http://www.TRENDnet.com/support enter the model number "TV-IP314PI" and download the software.

If you didn't go through the TV-IP314PI CD installation wizard or you have reset the TV-IP314PI to factory defaults by pressing and holding reset button while power on the camera and keep holding the button for over 10 seconds, your TV- IP314PI has following settings:

System Default	
Management	Dynamic assigned if there's a DHCP server on the
IP	network or self-assigned 192.168.10.30
Administrator	admin
name	
Administrator	admin
password	

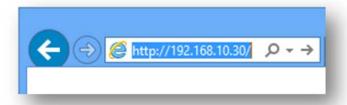
If you want to access your camera directly instead of using software, you can follow the steps specified in this chapter to login to your camera. A web browser plug-in must be installed to watch video smoothly.

For Windows setup, continue to next paragraph.

For **Mac setup**, please go to page 14

Logging-in to the Camera for the First Time (Windows)

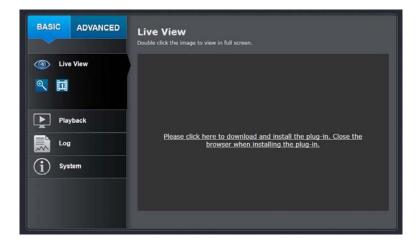
Open the web browser on your computer. In the address bar, enter the IP address you setup through the setup CD or 192.168.10.30.
(If you have a DHCP server on your network, the IP address will be assigned dynamically. For example, if you have a home gateway on your network and you plug-in the camera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



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



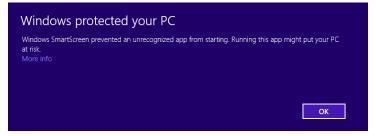
3. The camera management page will detect if you installed the camera video streaming plug-in or not. Click the link to download the plug-in from the TV-IP314PI camera.

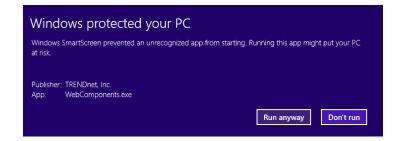


4. Download the plug-in to your computer and then and close your browser. Launch the plug-in installation to install the plug-in.

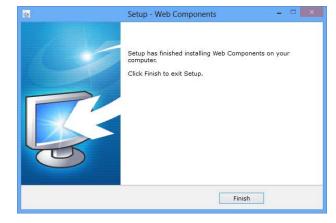


5. Permission request may show up depends on the Internet security settings on your computer. Click **More Info** and then **Run anyway** to install the plug- in.

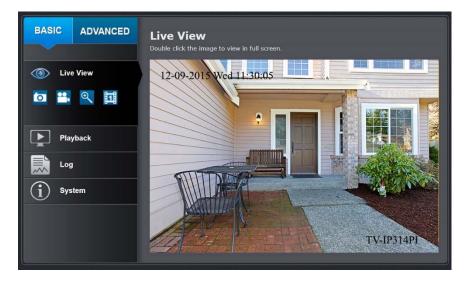




6. Click **Finish** to finish the installation.

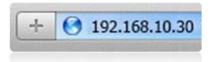


7. Refresh the browser and the Live View page will show up and begin streaming video.



Logging-in to the Camera for the First Time (OS X)

1. Open the web browser on your computer. In the address bar, enter the IP address of the camera 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, then you can find the camera IP address on your home gateway), and then press Enter.

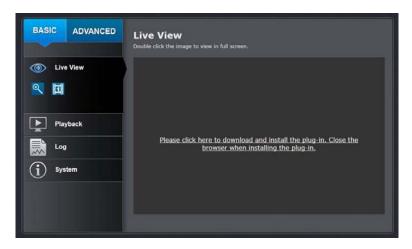


2. Enter the user name, **admin**, and the default password, **admin**, and then click **OK**.



3. The camera management page will detect if you installed the camera webcomponent plug-in or not. Click the link to download the plug-in from the TV-IP314PI camera.

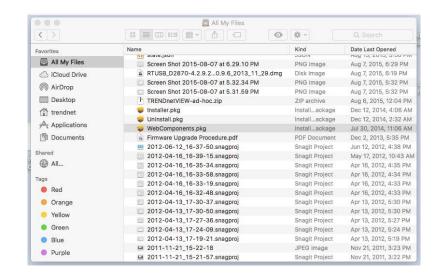
Note: Internet connection is required to download the plug-in. If you do not have Internet access, you can find the plug-in on the CD comes with the package under /Mac folder.



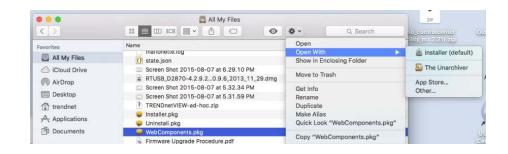
4. Quit your browser completely by **command-Click** on the browser icon and then click **Quit** before installing the plug-in.



5. Go to the **Finder** and navigate to the **Download** folder. **Command-Click** the **WebComponents.pkg** and then click **Open**. (If you are install the plugin from the CD when you don't have internet connection, just browse to /Mac folder and double click the **WebComponents.pkg** file.)



6. Click **Open with** → **Installer** to start installation.



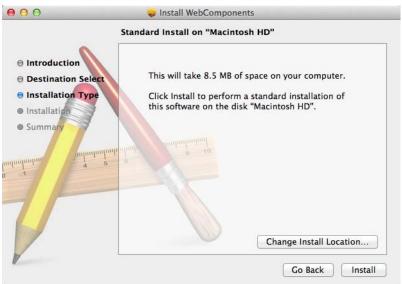
7. Click **Continue** to install the plug-in.



8. Select a destination to install the plug-in. Then click Continue.



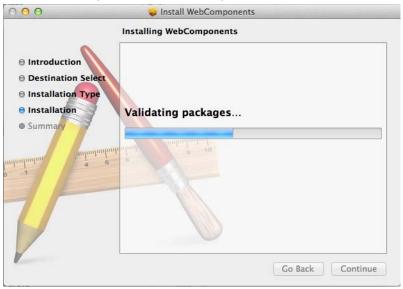
9. Use the default location and click Install.



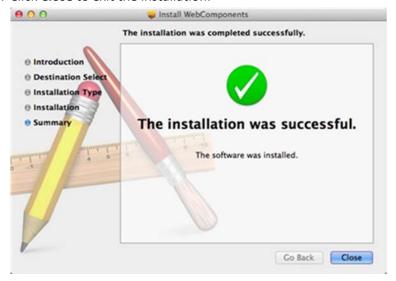
10. Enter your password and click Install Software



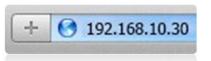
11. Installation will process automatically.



12. Click **Close** to exit the installation.



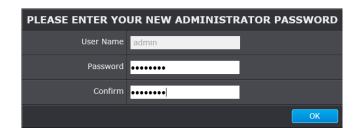
13. Open the browser and login again with the default IP 192.168.10.30 or the IP that was dynamically assigned by your router.



14. Enter the user name, **admin**, and the default password, **admin**, and then click **OK**.

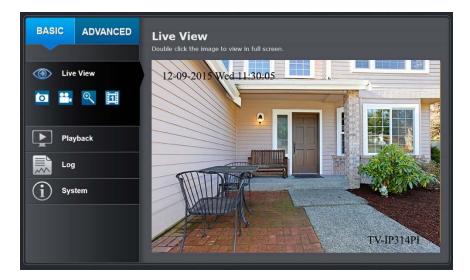


15. The TV-IP314PI will ask you to change your password from the default setting. Please enter the new password twice and click **OK**. The password must be between 8 and 16 characters. (Alphanumeric: a-z, A-Z, 0-9, !, @, #, \$).



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16. The Live View page shows up and the video starts to stream.



Live View

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



Click this icon to take a video snapshot.



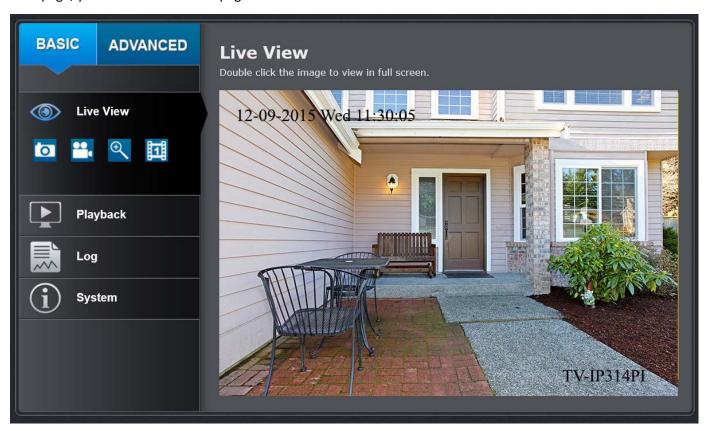
Click once to enable zoom. When enabled, click and drag the area on the picture to zoom in. Right click to resume 100% zoom. Click the icon again to disable zoom. The zoom function works in full screen mode as well.

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.



TV-IP314PI has two video streams: H.264 and MJPEG. Switch to view the different video streams by clicking this icon.



Full Screen Mode

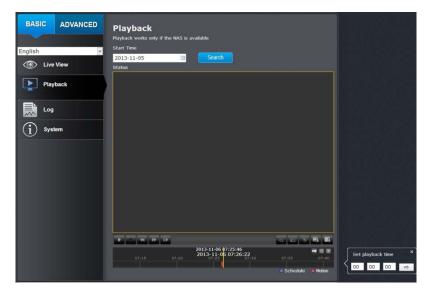
Click the picture to view in full screen mode. Double click again or press escape key on your keyboard to exit full screen mode.

Status Bar

The status bar shows the status you are at, including enabled the zoom, recording video, and successfully taking a snapshot.

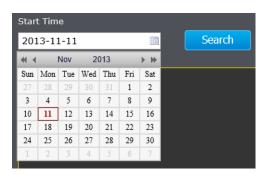
Playback

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



Search for video recordings

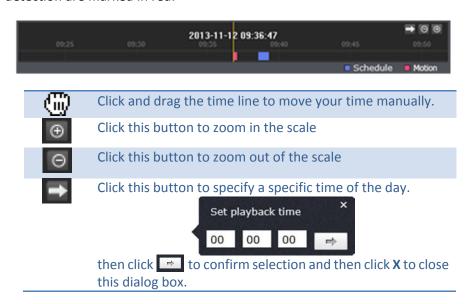
Click the date selection, and then choose a date as the date range of searching. Click **Search** to start searching.



Time Line

There is a play back head in the center of the time line represented in 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 then 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.



Playback

Use playback controls to play back the video recording.





^{*} Note: There are 5 steps of playback speed you can choose from: 1/4, 1/2, 1, 2, and 4 times of original speed.

Slice images from video playback

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



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.

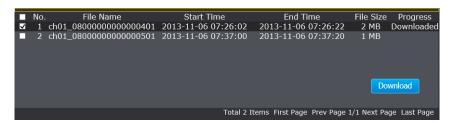
- Click this button to disable zoom.
- Click this button to take a snapshot of current playback.
- Click this button to start clipping a video from playback.
- Click this button to stop clipping a video from playback.

Download sections of video

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



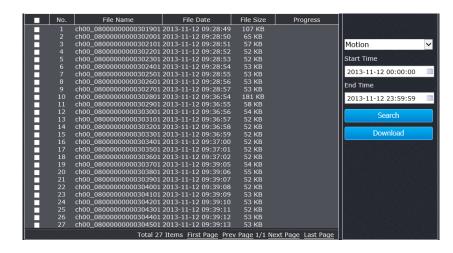
Click button to download video sections.



Check the time of the recording, select the videos you want to download, and then click **Download**.

Download snapshots

Click button to list snapshots to download

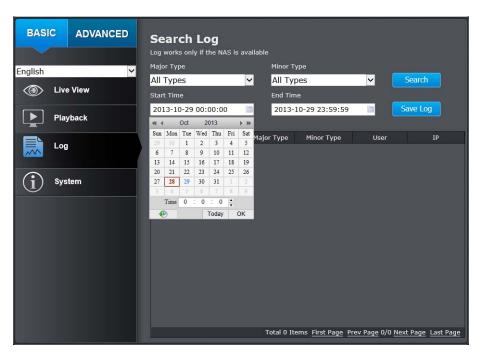


Schedule Motion

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**.

<u>Log</u>

The log of the TV-IP314PI will be saved on the network storage. You can search the relevant records and save to your local computer. (See **Network Storage** on page 49 to setup the storage.)



Search for logs

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

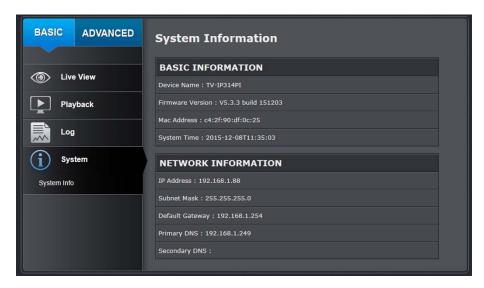
Total 129 Items First Page Prev Page 1/2 Next Page Last Page

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

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System Information

System Information page shows the camera's basic information.



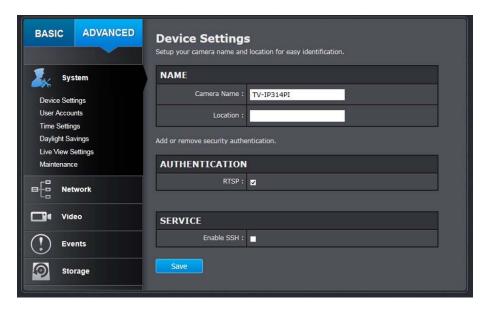
Basic Information	
Device Name:	Human readable device name for easy
	identification.
Firmware Version:	Firmware version
MAC Address:	The MAC address of Ethernet Interface
System Time:	The system time setup in the camera. Keeping this time correct is important for recording, scheduled control and logging accurately.
Device Name:	Human readable device name for easy identification.

Network Information	
IP Address:	IP address of the TV-IP314PI
Subnet Mask:	Network range of IP address
Default Gateway:	The default route going from the TV-IP314PI subnet.
Primary DNS:	Primary DNS server address
Secondary DNS:	Secondary DNS server address

System Configuration

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, camera name is referring to this setting as well.



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 camera name is the model number: TV-IP314PI

Location: Label where you installed this camera for reference

Authentication

RTSP: TV-IP314PI'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.

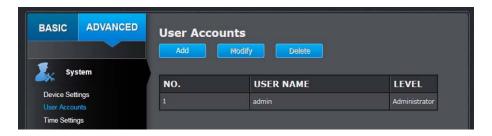
Service

Enable TV-IP314PI embedded Telnet service for multiple camera

Telnet: control for system developer. Default: disabled.

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 TV-IP314PI and cannot be deleted.



User Accounts

Add: Click Add button to add one user account

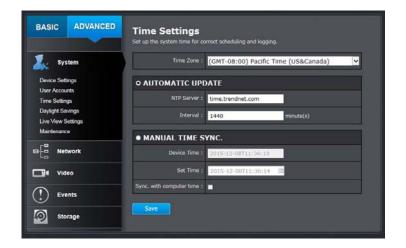
Modify: To change a user's name and password, highlight the user by clicking on it. Then, click **Modify** button. You can change the user's name and password. You can also change the administrator's password here. But, the administrator's name is fixed, you cannot change that.



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).



Automatic Update

NTP Specify a time server (NTP server) to synchronize with.

Server: (e.g. pool.ntp.org)

Interval: The time interval that the TV-IP314PI will synchronize the time

with NTP server. Default: 1440 minutes (24 hours)

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 savings.



Automatic Update

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

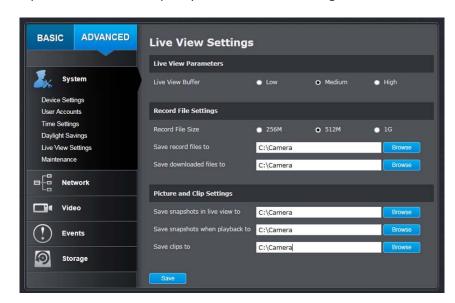
DST Bias Enter how much time the daylight saving adjusted by

daylight savings.

Click **Save** to save the changes

Live View Settings

Setup the live view video quality, file size and file saving directories.



Live View Parameters

Live View Configure the buffer size for live view video stream. With Buffer: 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.

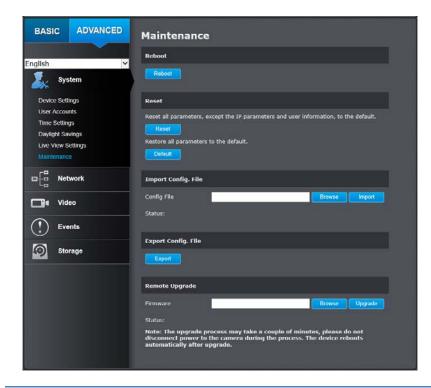
Record File Settings	
Record file size:	This size of live view video recording. You can choose
	256MB, 512MB, or 1GB a file. Smaller file size is good
	for many short recordings.
Save record	Click Browse and then choose a new destination if you
files to:	want to save the file somewhere else.
Save	Click Browse and then choose a new destination if you
downloaded	want to save the file somewhere else.
files to:	

Picture and Clip SettingsSave snapshots
in
live view to:Click Browse and then choose a new destination if you
want to save the file somewhere else.Save snapshots
when playback
to:Click Browse and then choose a new destination if you
want to save the file somewhere else.Save clips to:Click Browse and then choose a new destination if you
want to save the file somewhere else.

Click **Save** to save the changes

Maintenance

You can restart, load camera settings and upgrade the camera firmware on this page.



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 to the camera.

Inport Config. File

Config File: To load previously saved settings, 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.

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

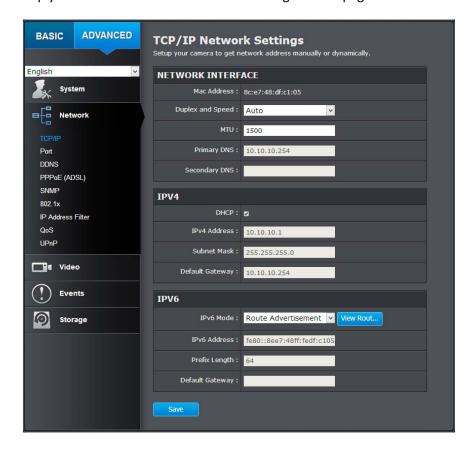
http://www.trendnet.com/downloads/

- 1. If a firmware upgrade is available, download the firmware to your computer.
- 2. Unzip the file to a folder on your computer.
- 3. Read the firmware upgrade instruction for specific version update information.
- 4. Log into the TV-IP314PI.
- 5. Getting to this Maintenance page to upgrade firmware.

Network Settings

TCP/IP

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



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 field size in the Ethernet packet.
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:	The IPv4 dynamic or static address
Subnet Mask:	Network range of the subnet
Default Gateway:	The default route going further from TV-IP314PI IPv4 subnet

IPv6	
IPv6 Mode:	Choose Manual, DHCP, or Route Advertisement. Click
	View Route Advertisement to find a route
	advertisement.
IPv6 Address:	IPv6 address of TV-IP314PI
Prefix Length:	Length of network prefix
Default	The default route going further from TV-IP314PI IPv6
Gateway:	subnet

Port

You can change the service port numbers of TV-IP314PI and enable/disable RTSP or HTTPS services.

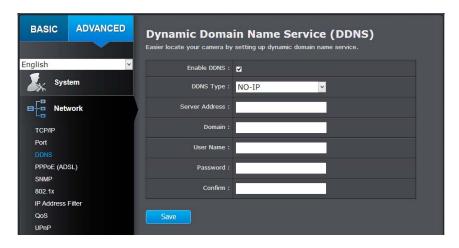


Port Numbers	
HTTP Port:	The default web access port. You can change the port number. However, you cannot disable the web service. The default port number is 80.
RTSP Port:	The Real-Time Streaming Protocol port for video streaming. You can change the port number or disable the service by uncheck the 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

DDNS

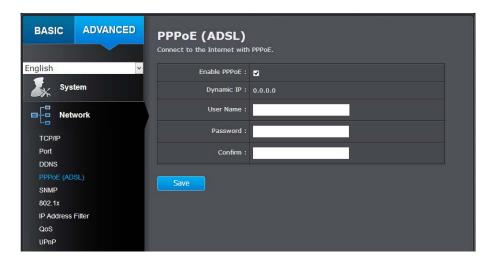
Dynamic Domain Name Service, DDNS, allows you to find your camera from the Internet with an easy to remember domain name.



Enable DDNS: Check this box to enable DDNS Service. DDNS Type: Select a DDNS service provider. NO-IP IPServer DynDNS NO-IP HIDDNS Server Address: Enter the DDNS server address. Domain: Enter your registered domain/host name on selected DDNS service. User Name: Enter the account name. Password: Enter the password. Confirm: Enter the password again.

PPPoE

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



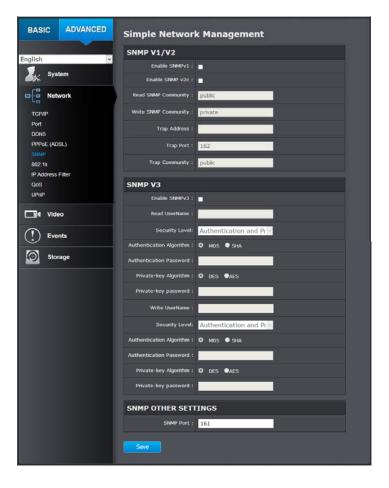
PPPoE (ADSL)	
Enable PPPoE:	Check this box to enable PPPoE connection.
Dynamic IP:	The IP address assigned by ISP
User Name:	Enter the account name.
Password:	Enter the password.
Confirm:	Enter the password again.

Click **Save** to save the changes

Click **Save** to save the changes

SNMP

SNMP Settings allows you to assign the contact details, location, community name and trap settings of 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	
Enable SNMPv1:	Check this box to enable SNMP v1 management.
Enable SNMPv2c:	Check this box to enable SNMP v2c management.
Read SNMP	Specify the password to access the SNMP
Community:	community for read only access.
Write SNMP	Specify the password for access to the SNMP
Community:	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.

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:	Choose one of the security levels.

Authentication and Privacy
Authentication only
Privacy only

Choose the authentication method to verify the source of information: MD5 or SHA.

Authentication Specify the authentication password between 8 to 32 letters.

Private-key Choose the privacy key to encrypt SNMP messages: DES or AES.

Private-key Specify the privacy key between 8 to 32 letters.

SNMP Other Settings

Password:

SNMP Port: SNMP service port number.

Click **Save** to save the changes

802.1X

Setup 802.1X for remote authentication service.



802.1X Authentication

Enable IEEE Check this box to enable 802.1X authentication

802.1X: service.

EAPOL version: Extensible Authentication Protocol (EAP) over LAN

(EAPoL). Choose version 1 or 2. This version number has to match 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

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.

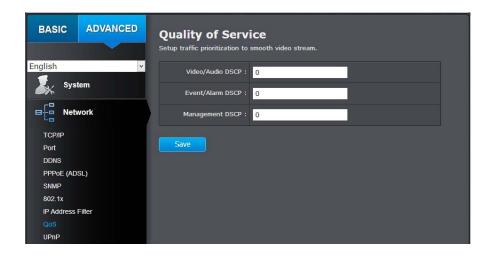




Click **Save** to save the changes

Quality of Service (QoS)

Setup traffic prioritization tags the video packets to go through network switches and routers with assigned priority. 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.



IP Address Filter	
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

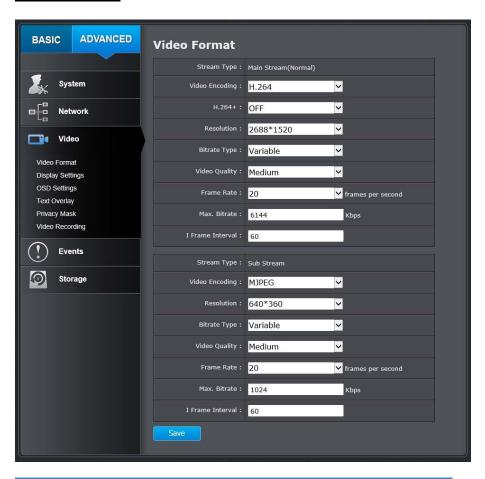
Universal Plug-and-Play is a device discovery protocol set. It allows your camera to easily be found, for example, on a Windows operation system.

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

Click **Save** to save the changes

Video Settings

Video Format



Video Encoding:

H.264
MJPEG

H.264 and MJPEG videos are always streaming and can be configured separately.

H.264+
Higher compression option

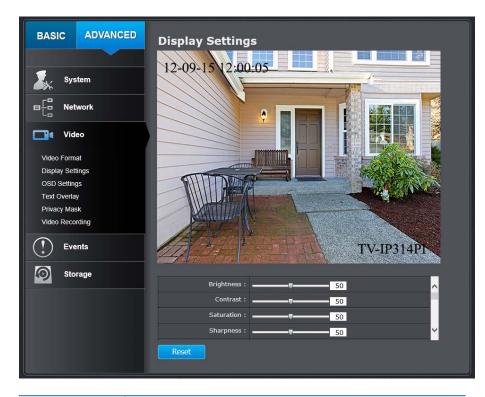
Resolution:	H.264 1280*960 640*480 704*480 1280*720P	MJPEG 320*240 352*240 640*480 704*480
Bitrate Type:		le bit rate or constant bit ion. The default is variable
Video Quality:	Choose the video qualit quality.	y. The default is medium
Frame Rate:		ame rate. The default value . Reduce the frame rate to size.
Max. Bitrate:	Choose the maximum vi Default: 2048	ideo sampling bit rate.
I Frame Interval	frame) only records the	at records a complete n I frames, (P frame or B image differences between I Frame Interval here. The

Click **Save** to save the changes

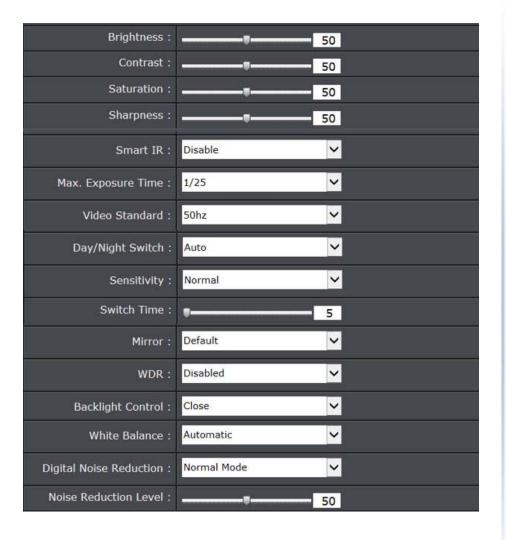
Sub stream can be used for lower resolution needed situation, for example mobile app streaming or NVR streaming.

Display Settings

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



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
Sharpness:	Use the slider or enter a number (0-100) to adjust the
	image sharpness. Default: 50

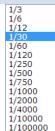


Light sensitivities

Smart IR:

Smart IR can adjust the strength of infrared lights at night depending on the distance of an object to maintain the maximum IR light distance and while maintaining a clear picture when object is close by. Default: On.

Max. Exposure Time:



Adjust this value for exposure time for each picture. You can choose a value between 1/3 second to 1/100,000 second. The default value is 1/30 second exposure time for each picture.

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.

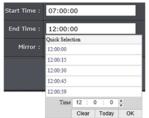
Auto:

Sensitivity: The light sensor sensitivity.

Switch Time: The time delayed to switch between modes. Longer switch time can prevent unnecessary mode flipping if an object is blocking the light source temporarily. Range: 5-120 seconds, default: 5 seconds.

Schedule:

Use guick selection or enter the time down below. Click **OK** to confirm the time you want to set.



Start Time: The start time for day mode. **Stop Time:** The start time for day mode.

Position adjustments

Mirror: Horizontal Vertical Horizontal/Vertical Default

> Choose horizontal, vertical or both to adapt to the physical position of installation.

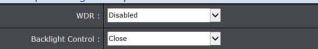
Image adjustments

Back Light

Back light compensation: Setup a fixed light source **Compensation** position to compensate and adjust the image in the and dark.

Wide-Dynamic- Choose the area that you want to enhance (dark area, Range: not light source).

> Note: By default, the WDR is disabled. Please enable WDR to set up back light compensation.



WDR: Wide Dynamic Range compensates for the dark area dynamically.

• WDR Level: The level of compensation. Range: 0-100%, default: 20%.

White Balance:

Automatic Locked Incandescent Lamp(3000K) Warm Light Lamp(4000K) Natural Light(5500K) Fluorescent Lamp(6500K)

Choose a color temperature as the white color and compensate the color on the whole image.

Digital Noise Reduction:

Choose the mode of noise reduction.

Normal Mode

Noise Reduction Level: Adjust the effect of digital noise reduction. Range: 0-100%, default: 100%

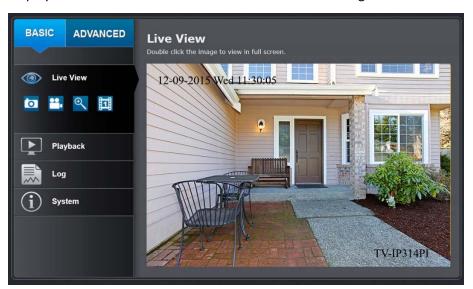
Expert Mode

Space DNR Level: Adjust the special digital noise reduction with adjacent pixels. Change the range (0-100%) to change the adjacency effect, default: 50% **Time DNR Level:** Adjust the 3D digital noise reduction. Compare and reduce noise between video frames. Range: 0-100%, default: 100%

Click **Reset** to reset the display adjustments

On Screen Display Settings

Display the camera name and the time the video is shooting on the screen



Display Check this box to display the product name that was

Name: setup in the device settings

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-hour time format.

Date Format: Select the date format

Display Mode: Choose how the text will show on the screen.

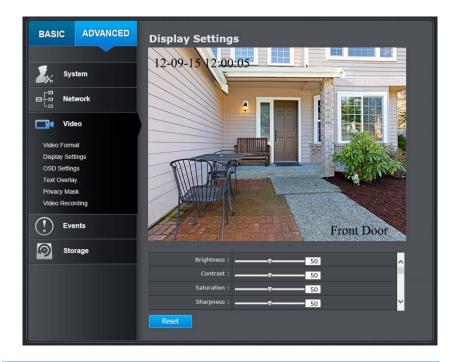
OSD Size: Select the text size from 16 to 64 or adjusted by

screen size automatically.

Move the red box to position the text. Click **Save** to save the changes.

Text Overlay

Display extra information on the screen over the image.



Check Box: Check this box to enable text overlay.

Text Field: Enter the text you want to display. You can enter your

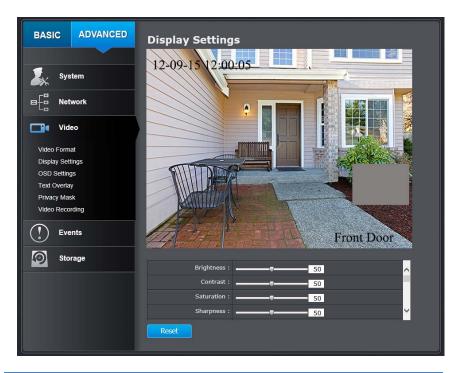
local language if you want. The text field allows maximum 44 English letters or 20 non-English

characters.

Move the red box to position the text.

Privacy Mask

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



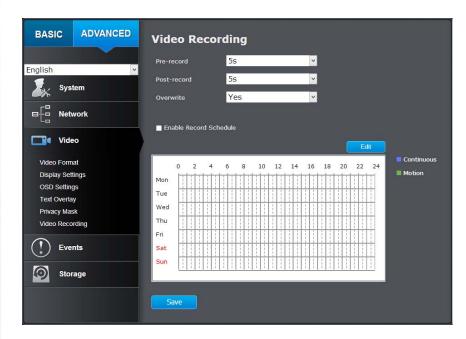
Enable Privacy Mask: Check this box to enable privacy masking.

Stop Drawing: Click this button to stop drawing.

Clear All: Click this button to clear all the masking areas.

Click **Save** to save the changes

Video Recording



Pre-record: Recording time before trigger event.

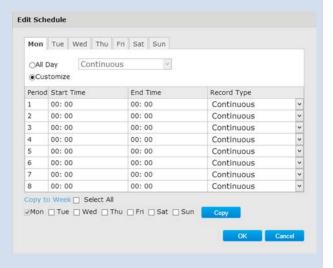
Post-record: Recording time after trigger event.

Overwrite: Select Yes to allow older recordings to be overwritten.

Enable Record Check this box and then click Save to enable video

Schedule: recording.

Edit: Click **Edit** to edit the recording schedule. The Edit Schedule window will pop up.

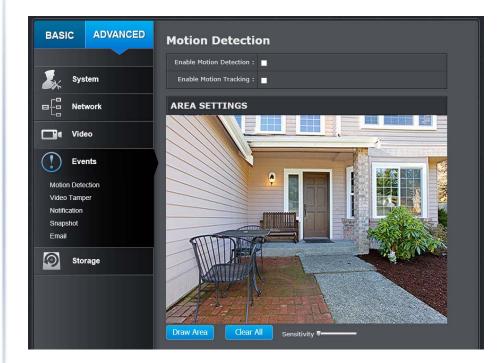


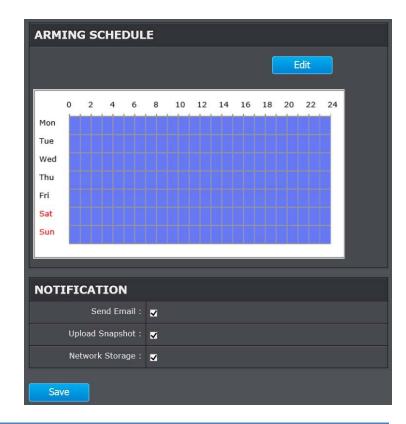
- 1. Select day of the week you want to edit.
- 2. Select **All Day** or **Customized** schedule of the day.
- Set the time period and the event you want to trigger the video recording continuous (always recording) or motion detection.
- 4. Click **Select All** or the weekday you want to have the same schedule on different day.
- Click another day of the week by clicking on its tab to set the next schedule. Click
 OK when you have finished your settings.

Events

Motion Detection

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





Detection:

Check this box to enable motion detection. Click Save **Motion** to save the choice.

Enable Check this box to enable motion tracking. Motion **Motion** tracking is a dynamic display that shows the current Tracking: status of motion detection. The motion tracking is displayed with grids in green. The grid area represents the camera motion is happening. Click Save to save the choices.

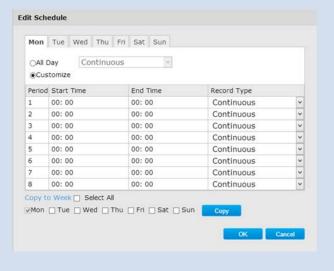
Draw Area: Click Draw Area button to start drawing. Click and drag on the area you want to set up the motion detection. You can draw up to 8 different areas. Click Stop Drawing to stop drawing motion detection areas. The red grids represent the motion detection area.

Sensitivity: Move the slider to adjust detection sensitivity.

Clear All: Click this button to clear all the set up areas.

Arming Schedule

Edit: Click Edit to edit the recording schedule. The Edit Schedule window will pop up.



- 1. Select day of the week you want to edit.
- 2. Select All Day or Customized schedule of the day.

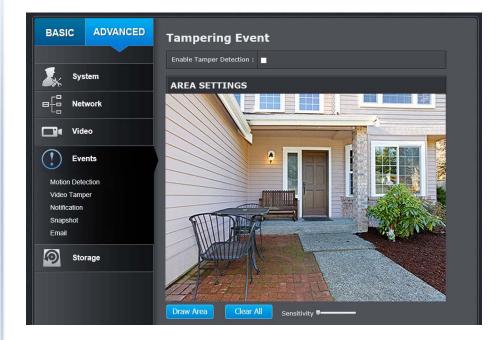
- 3. Set the time period and the event you want to trigger the video recording **continuous** (always recording) or **motion detection**.
- 4. Click **Select All** or the weekday you want to have the same schedule on different day.
- 5. Click another day of the week by clicking on its tab to set the next schedule. Click **OK** when you have finished your settings.

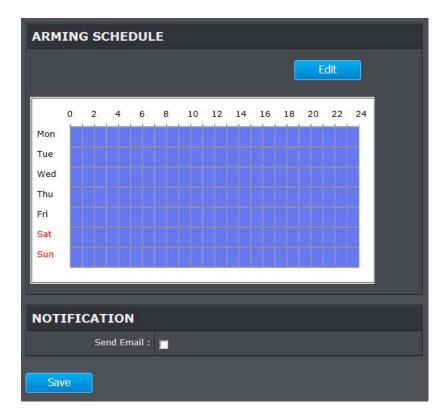
Notification	
Send Email:	Check this box to send an e-mail notification when motion is detected.
	Check this box to record video to network storage when motion is detected.
Upload to FTP:	Check this box to send snapshots to an FTP server when motion is detected.

Click **Save** to save the changes

Video Tampering

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 Check this box to enable tamper detection. Click Save Tamper to save the settings.

Detection:

Draw Area: Click **Draw Area** button to start drawing. Click and drag on the area you want to set up the tamper detection.

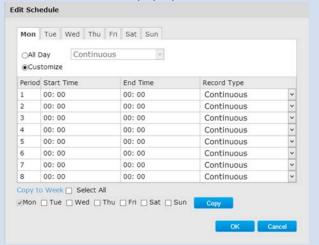
You can setup only one area for tamper detection. Click **Stop Drawing** to stop drawing motion detection areas. The gray block represents the detection area.

Sensitivity: Move the slider to adjust detection sensitivity.

Clear All: Click this button to clear all the set up areas.

Arming Schedule

Edit: Click **Edit** to edit the recording schedule. The Edit Schedule window will pop up.



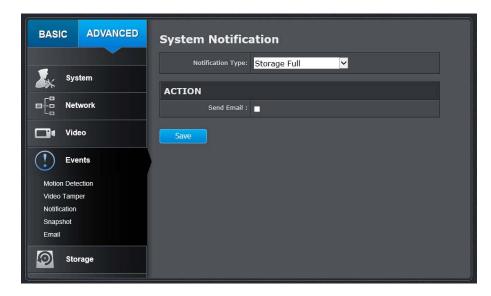
- 1. Select day of the week you want to edit.
- 2. Select **All Day** or **Customized** schedule of the day.
- 3. Set the time period and the event you want to trigger the video recording **continuous** (always recording) or **motion detection**.
- 4. Click **Select All** or the weekday you want to have the same schedule on different day.
- 5. Click another day of the week by clicking on its tab to set the next schedule. Click **OK** when you have finished your settings.

Notification

Send Email: Check this box to send an e-mail notification when motion is detected.

Notification

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



Notification

Notification First, choose the exception type, and then choose

Type: the corresponding action.

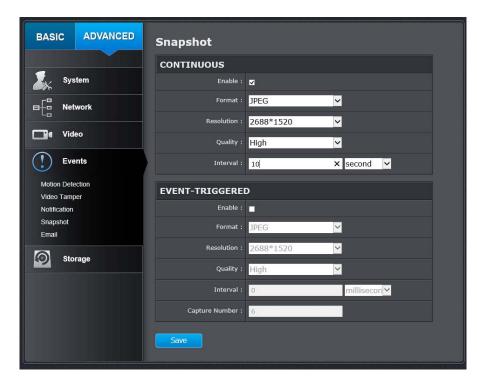
Send Email: Check this box to send an e-mail notification when

motion is detected.

Click **Save** to save the changes

Snapshot

You can set up your camera to continuously taking snapshots or taking snapshots only when events happening.



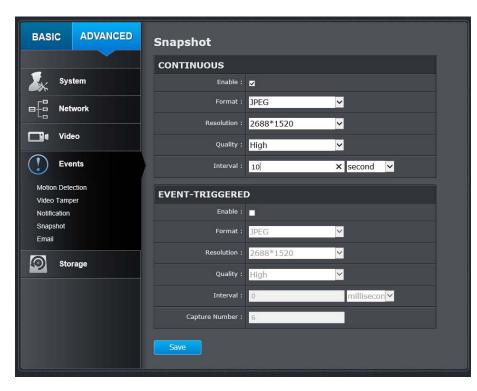
Continuous	
Enable:	Check this box to take snapshots continuously.
Format:	Save snapshots in JPEG format
Resolution:	Uses the same resolution set in Video Format for the
	snapshot resolution.
Quality:	Choose a compression quality for snapshots.
Interval:	State the time interval between snapshots. The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

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.



Sender: Enter the name to be appeared as the email sender. Sender's Enter sender's email address. Address: SMTP Server: Simple Mail Transportation Protocol Server address, the outgoing email server address. It may be has address as your incoming email server, maybe not. Please ask your email service provider for detail. SMTP Port: Service port number for outgoing email.*

Enable SSL:	Check this box if your service provider requires a 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.
Receiver 3's Address:	The third receiver's email address.

Click **Save** to save the changes

Network Storage

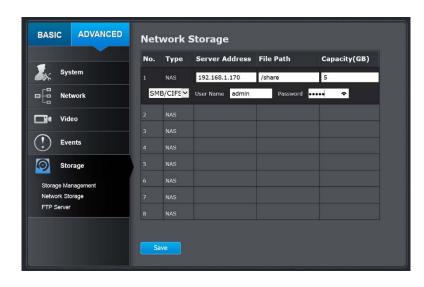
Network Storage

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

The TV-IP314PI supports two formats of network storage file systems: NFS and CIFS. NFS, Network File System, is natively supported by Linux computers and most NAS, Network Attached Storage. CIFS, Common Internet File System, is natively supported by Windows® systems and now is generally supported by Linux. (OS X® file sharing is not standard SMB and not compatible as a network storage disk here.)

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.

^{*}Note: Many ISPs does 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 detail.



No: The sequential number of the network storage.

Type: The type of storage.

Server Enter the IP address of your network storage.

Address:

File Path: Enter the shared folder as file path for network storage. You

can create a folder under the shared folder and make it a network volume here. Just create the folder and enter the

correct path name here.

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, put number 0 in this field.

File System: Choose between NFS or CIFS for file system. If you assign the

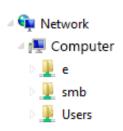
network storage on a Windows® computer, set it to CIFS.

User Name: Enter the user name if the network storage requires user

name and password. Enter any non-blank letters if no

authentication is required.

Password: Enter the password to access the network storage. Enter any non-blank letters if no authentication is required.

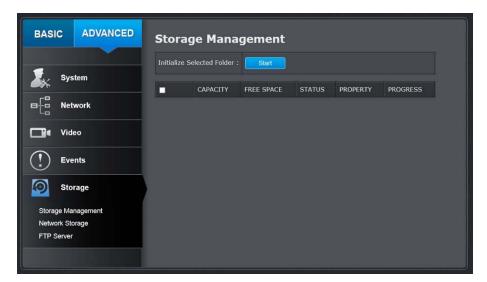


Click **Save** to save the changes. The camera may reboot to make the network storage available. Go to the next section to format and manage your network storage.

Tip: To create a 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**.

Storage Management

Network Storage must be setup before it can be managed. To setup storage, please refer to the previous section.



Format: Select a network storage volume and then click Format to format your network storage. This action will format the network volume (shared folder) for video recording. Placeholder files (formatting files) will be created to make sure disk allocation is appropriate and the file searching is optimized.

The volume format is a proprietary user space storage format. Meaning that you visit the shared folder and see some structured files. Please do not modify these files manually. Modifying these files may cause recording and playback problems. Access your recording and system log via the web management user interface to download the recording and snapshots.

Capacity: The total capacity this network storage can use.

Free Space: The free space left for video recording, snapshot and log.

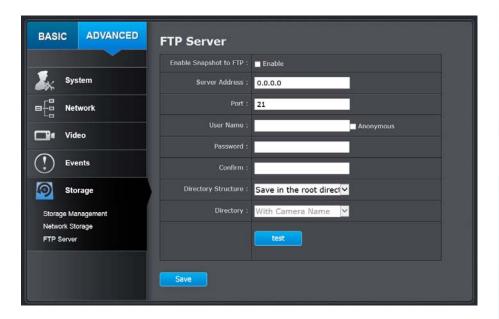
Status: The connection status to the network storage.

Property: This network storage is read only or can be read and write.

Progress: The progress of ongoing task.

Note: The formatting progress depends on the size of the storage and the network bandwidth. It takes a while if you are formatting a big volume or the network connection is not stable.

FTP Server



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	When saving snapshots on an FTP server, they can
Structure:	 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.

Appendix

Direct video access - RTSP

To access the video directly through RTSP, just visit the camera IP address on port 554 by default. For example: 192.168.10.30:554 use the admin or user password the login.

Regulations

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

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

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.



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.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

RoHS

This product is RoHS compliant.



Europe – EU Declaration of Conformity

This device complies with the essential requirements of the Directive 2004/108/EC and 2006/95/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the Directive 2004/108/EC and 2006/95/EC:

Safety: EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

EMC: EN 55022:2010 CLASS B

EN50130-4:2011 EN 61000-3-2:2014 EN 61000-3-3:2013

Directive: EMC Directive 2004/108/EC, RoHS Directive 2011/65/EU

WEEE Directive 2012/19/EU, REACH Regulation No.1907/2006

Česky [Czech]	TRENDnet tímto prohlašuje, že tento TV-IP314PI je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2004/108/ES a 2006/95/ES.
Dansk [Danish]	Undertegnede TRENDnet erklærer herved, at følgende udstyr TV-IP314PI overholder de væsentlige krav og øvrige relevante krav i direktiv 2004/108/EF og 2006/95/EF.
Deutsch [German]	Hiermit erklärt TRENDnet, dass sich das Gerät TV-IP314PI in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2004/108/EG und 2006/95/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab TRENDnet seadme TV-IP314PI vastavust direktiivi 2004/108/EÜ ja 2006/95/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, TRENDnet, declares that this TV-IP314PI is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC and 2006/95/EC.
Español [Spanish]	Por medio de la presente TRENDnet declara que el TV-IP314PI cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2004/108/CE y 2006/95/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑΤRENDnet ΔΗΛΩΝΕΙ ΟΤΙ TV-ΙΡ314ΡΙ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ

	ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2004/108/ΕΚ, 2006/95/ΕΚ και.
Français [French]	Par la présente TRENDnet déclare que l'appareil TV-IP314PI est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2004/108/CE, 2006/95/CE et.
Italiano[Italian]	Con la presente TRENDnet dichiara che questo TV-IP314PI è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2004/108/CE e 2006/95/CE.
Latviski [Latvian]	AršoTRENDnetdeklarē, ka TV-IP314PI atbilstDirektīvas 2004/108/EK un 2006/95/EK būtiskajāmprasībām un citiemar to saistītajiemnoteikumiem.
Lietuvių [Lithuanian]	Šiuo TRENDnet deklaruoja, kad šis TV-IP314PI atitinka esminius reikalavimus ir kitas 2004/108/EB ir 2006/95/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart TRENDnet dat het toestel TV-IP314PI in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2004/108/EG en 2006/95/EG.
Malti [Maltese]	Hawnhekk, TRENDnet, jiddikjara li dan TV-IP314PI jikkonforma mal-ħtiģijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2004/108/KE u 2006/95/KE.
Magyar [Hungarian]	Alulírott, TRENDnet nyilatkozom, hogy a TV-IP314PI megfelel a vonatkozó alapvető követelményeknek és az 2004/108/EK és a 2006/95/EK irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym TRENDnet oświadcza, że TV-IP314PI jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2004/108/WE i 2006/95/.
Português [Portuguese]	TRENDnet declara que este TV-IP314PI está conforme com os requisitos essenciais e outras disposições da Directiva2004/108/CE e 2006/95/CE.
Slovensko [Slovenian]	TRENDnet izjavlja, da je ta TV-IP314PI v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive2004/108/ES in 2006/95/ES.
Slovensky [Slovak]	TRENDnettýmtovyhlasuje, že TV-IP314PI spĺňazákladnépožiadavky a všetkypríslušnéustanoveniaSmernice 2004/108/ES a 2006/95/ES.
Suomi [Finnish]	TRENDnet vakuuttaa täten että TV-IP314PI tyyppinen laite on direktiivin2004/108/EY ja 2006/95/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar TRENDnet att denna TV-IP314PI står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2004/108/EG och 2006/95/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-IP314PI - 3 Years 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-of purchase for their return policies.

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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 and Canada 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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12.10.15 TV-IP314PI 1.0

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Product Warranty Registration

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

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