User's Guide

TRENDNET®

Megapixel Wireless Day/Night PTZ Network Camera

TV-IP662WI

Contents

Product Overview

TV-IP662WI

Package Contents

In addition to your camera, the package includes:

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

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

Features(百萬畫素無線夜視旋轉網路攝影機)

The IP camera records at 1280x720 pixels (VGA), 30 FPS (frames per second). You can manage up to 32 TRENDnet cameras with the included complimentary camera management software. The IP camera also includes adjustable motion detection recording areas, email alerts, and scheduled recording sessions. Some other features of the IP camera are Pan/Tilt auto-patrol, date-and-time overlays, one-way audio, an adjustable lens, and four times digital zoom. A wall/ceiling mounting kit is included and the camera's white housing blends into most environments.

Easy Installation
The IP camera includes a CD-ROM with a setup wizard that guides you through the installation process.

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

10/100 Ethernet Support
The IP camera supports 10/100Mbps Ethernet.

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

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

Pan & Tilt
The IP camera can pan side-to-side at a remarkable 330 degrees.

Recording Quality
The IP camera can record 1280x720 (720p) video resolution.

Product Hardware Features

Rear Panel View

Front Panel View

1. **Micro SD Slot** – Insert a micro SD card into this slot to store video/image data.
2. **Power Port** – Connect the included power adapter from your camera to an available power outlet. **Note**: Use only the adapter that came with your camera.
3. **Line Out** – Insert an external microphone to this connection.
4. **Rear Air Vent** – This is to cool the camera.
5. **WPS (Wi-Fi Protected Setup)** – Push and hold this button for 3 seconds to activate WPS.
6. **WPS LED** – The WPS LED will blink green when WPS is activated.
7. **Reset Button** – Use an item such as a paperclip to push and hold this button for 3 seconds and release to reset your camera to its factory defaults.
8. **Antenna** – 2dBi detachable antenna.
9. **LAN Port** – Connect Ethernet cables to your wired network devices.
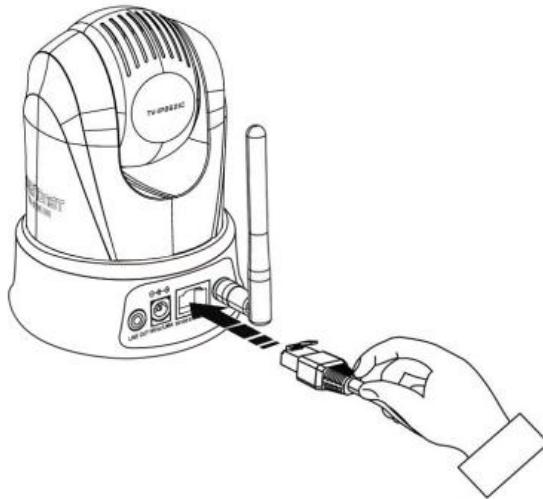
1. **IR LED** – Built-in 6 IR LED for night vision uses. (for TV-IP862IC)
2. **Power/Link LED** – This LED indicator is solid blue when your camera is powered on. If this LED indicator is off, there is no power to your camera. This LED indicator is blinking green when there is connection/data to your camera.
3. **Microphone** – Built-in microphone for audio can be turn on or off.
4. **Light Sensor** – Detects the light source to turn IR on or off.
5. **Camera Lens** – The camera lens.
6. **Focus Ring** – Turn to adjust the focus of the camera.
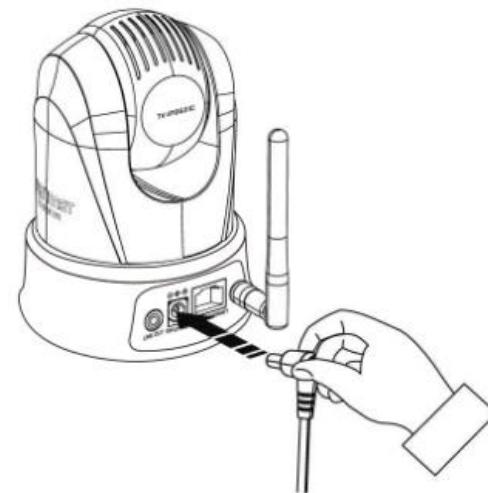
Installation

Wired Connection

1. Connect the Ethernet Cable. If you intend to use the network camera as a wired device, connect one end of the included Ethernet cable into the **Ethernet** port on the rear panel of the camera and connect the other end to an available port on your network. If you prefer to use the camera on a wireless network, see below for instructions on connecting the power adapter.
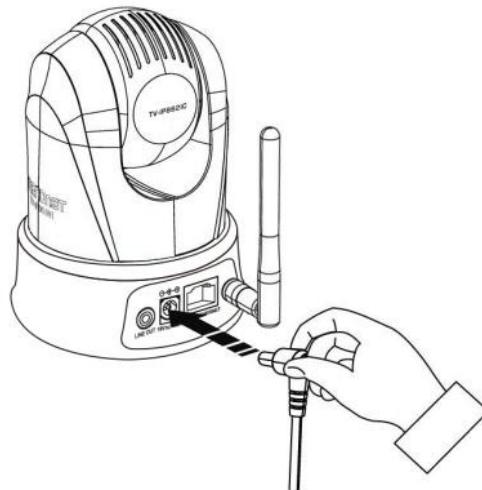
2. Attach the Power Supply. Attach the included power supply to the **DC 12V 1.0A** receptor on the rear panel of the camera and then connect it to a wall outlet or power strip. A blue LED will light up under the lens indicating that the camera has power.
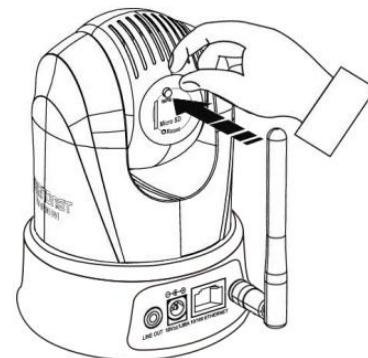
WPS Connection

An alternative method of connecting your camera to your network is by using WPS. WPS is a quick, simple and secure method of adding devices to a network. If you have a router which supports WPS follow the steps below, otherwise, please use the wired mode of setting up the camera.

1. Attach the Power Supply
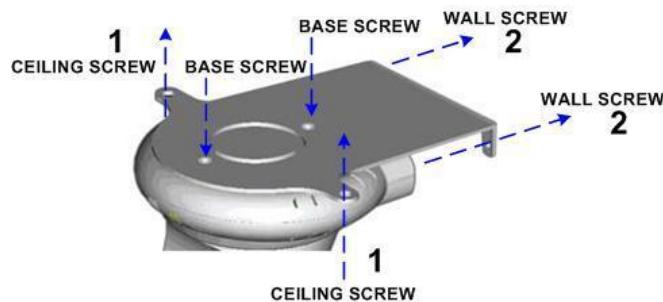
2. Press the WPS button on your wireless device then press the WPS button on the camera.

Wall mount installation

To attach the metal plates carry out the following:

- Remove the two rubber pads under the base of the Camera.
- Slide the metal plate onto the base of the camera, making sure that the two holes on the base of the camera align with the two screw holes on the base of the camera.
- Secure the metal plate to the base of the Camera with the two screws provided.
- The camera can now be mounted to the ceiling or a wall. See the diagram below for more information.
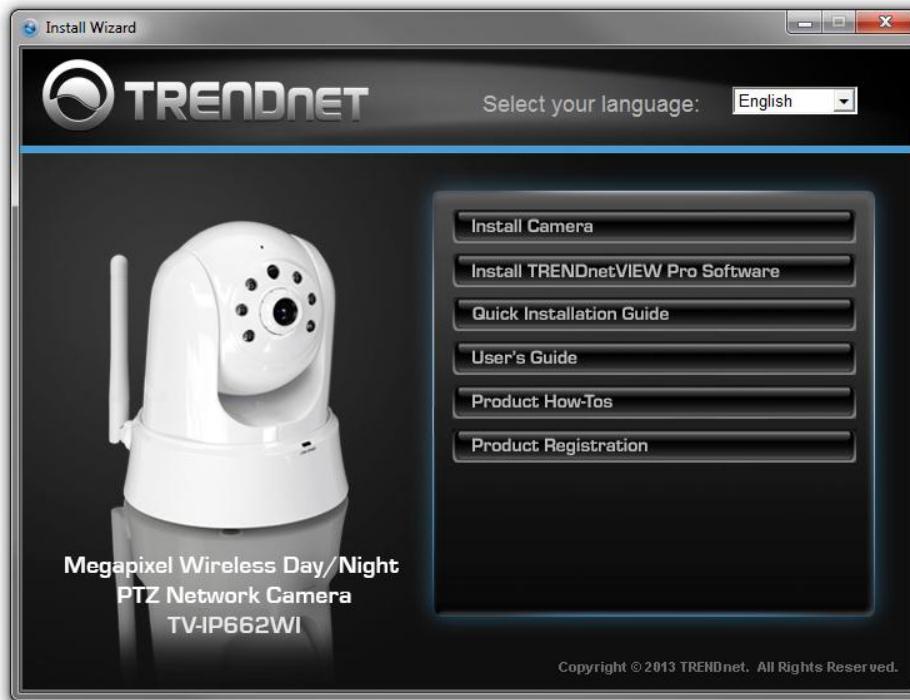
Using the AutoRun Wizard
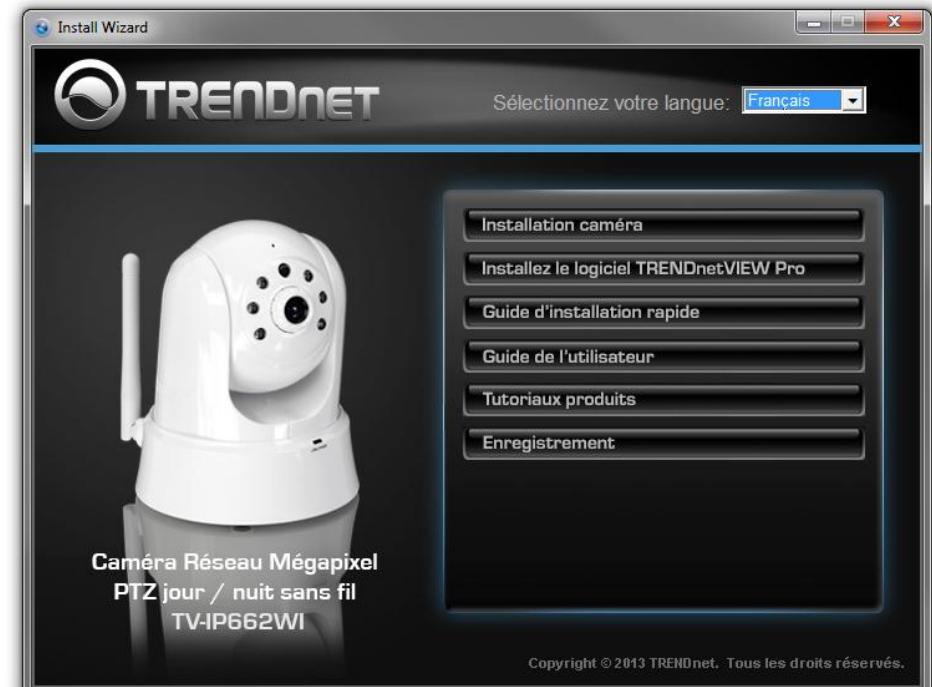
Insert the included CD-ROM into your CD/DVD drive. The **Install Wizard** program will run automatically.

Note: If the Install Wizard does not run, you may have auto-run disabled on your machine. In this case, browse to the CD drive and run **InstallWizard.exe** to begin the installation wizard.
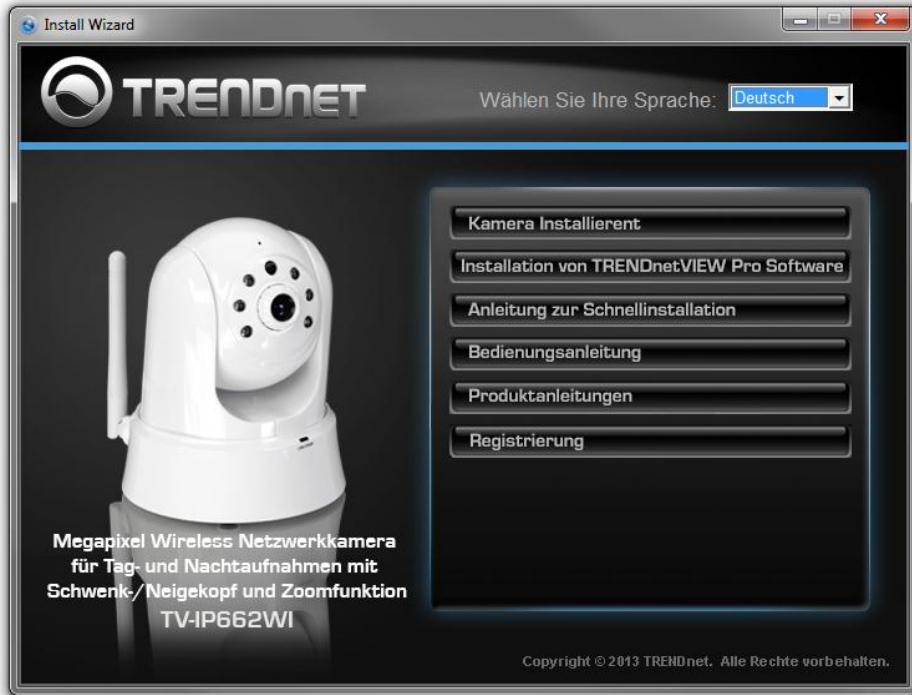
Begin by selecting a language from the drop-down list. There is a choice of five languages – **English, French, German, Spanish, and Russian**.
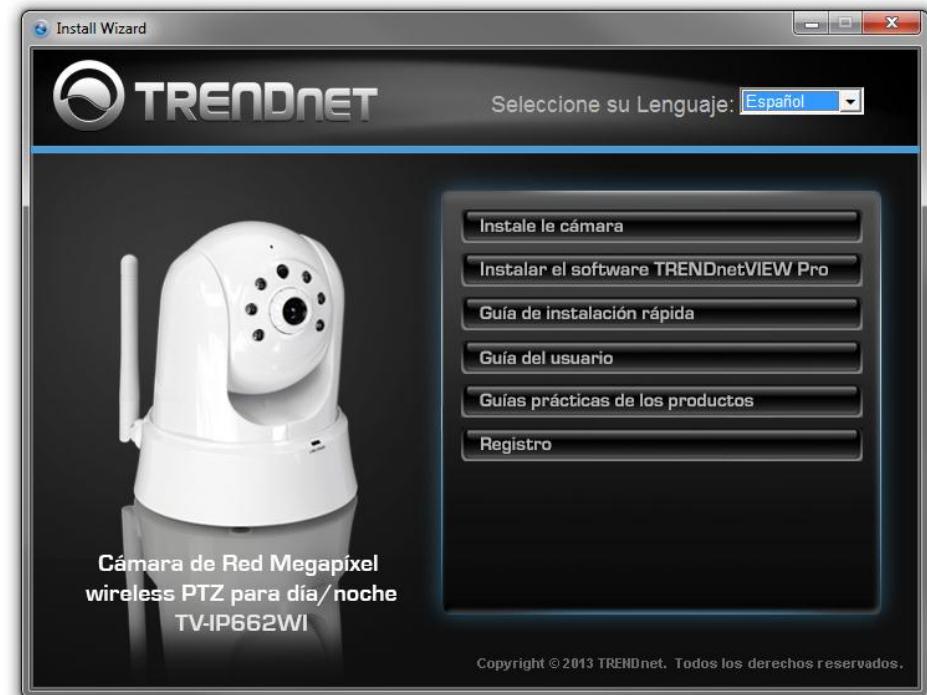
English
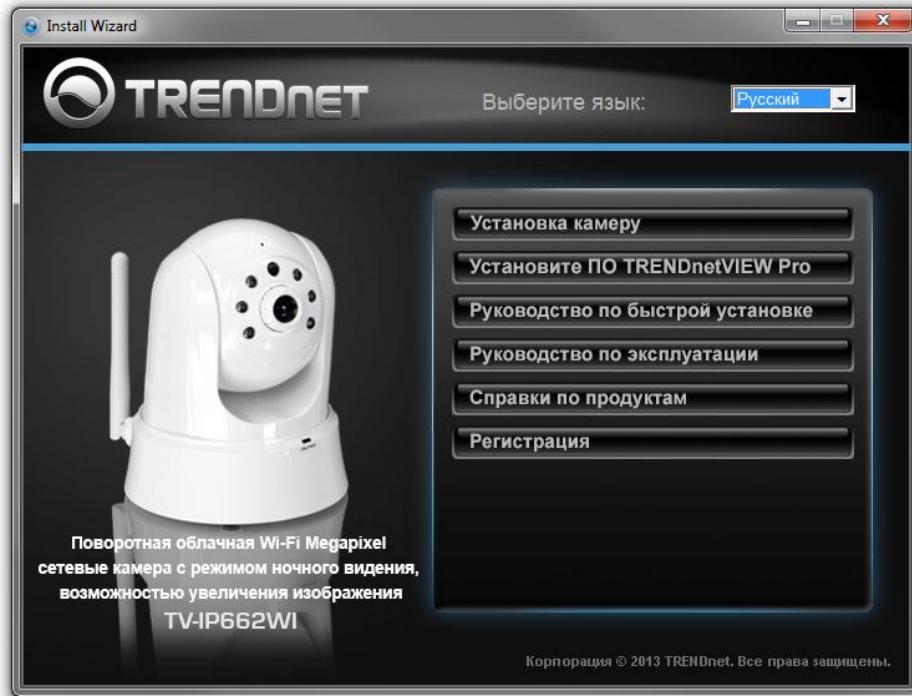
French

German

Spanish
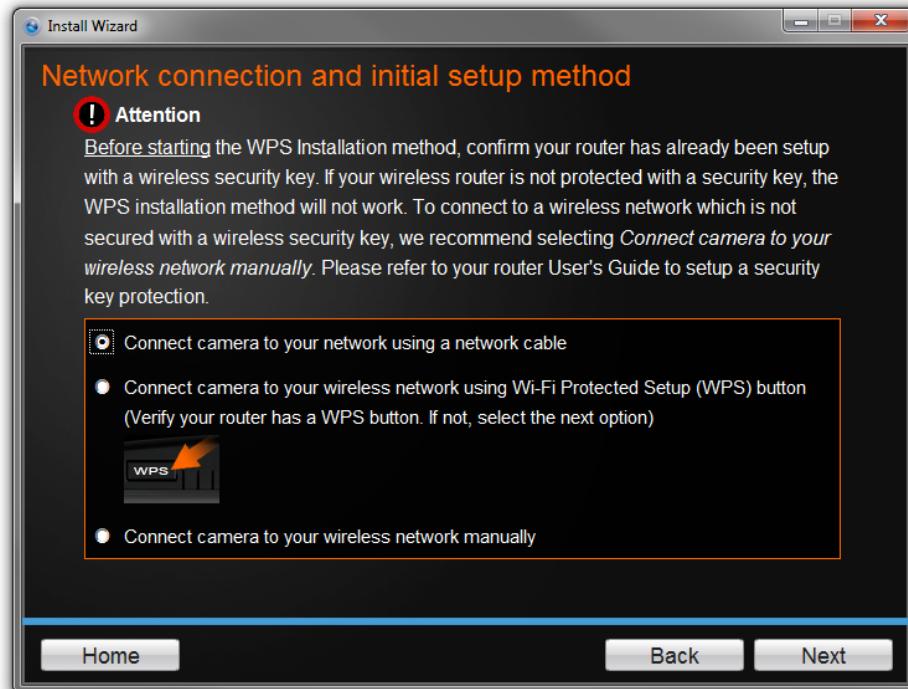
**Russian**

1. Click **Install Camera** and follow the on-screen steps to continue the installation.
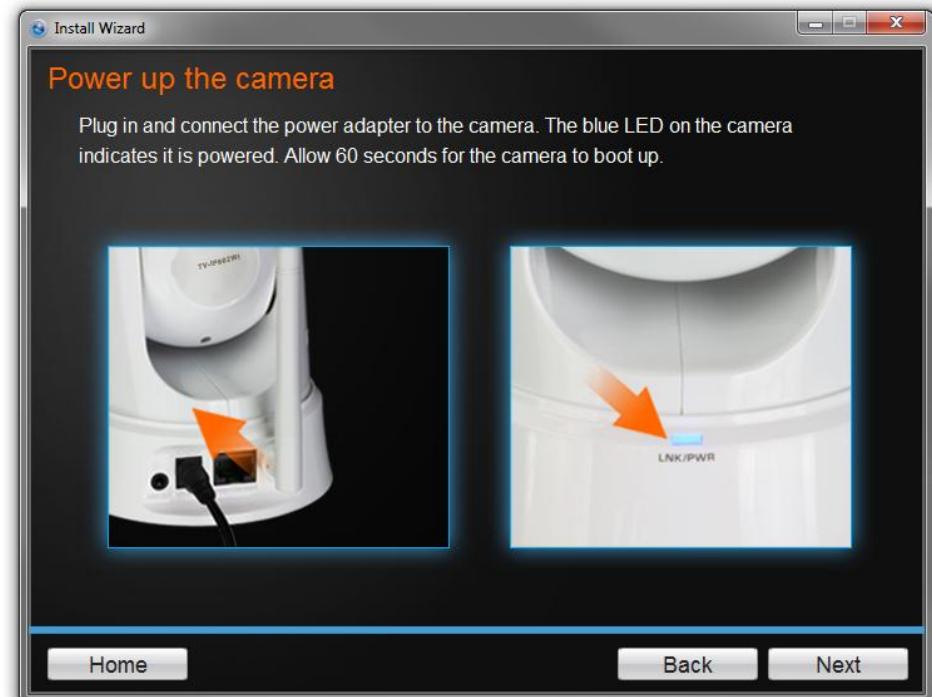
2. This step references information on the camera itself. Go to your camera and check the details at the bottom of the device. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the main menu. Also enclosed, is a sticker with the same details attached.
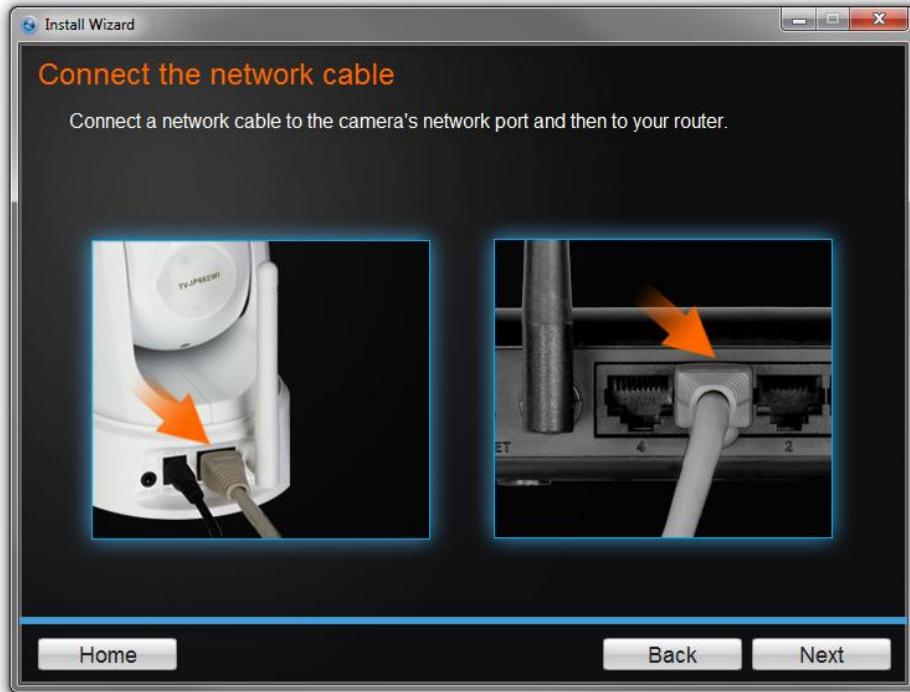
3. The most important part of the setup process is the network connection type. There are three options:
   a. Connect camera to your network using a network cable
   b. Connect camera to your wireless network using Wi-Fi Protected Setup (WPS) button (Verify your router has a WPS button. If not, select the next option).
   c. Connect camera to your wireless network manually.
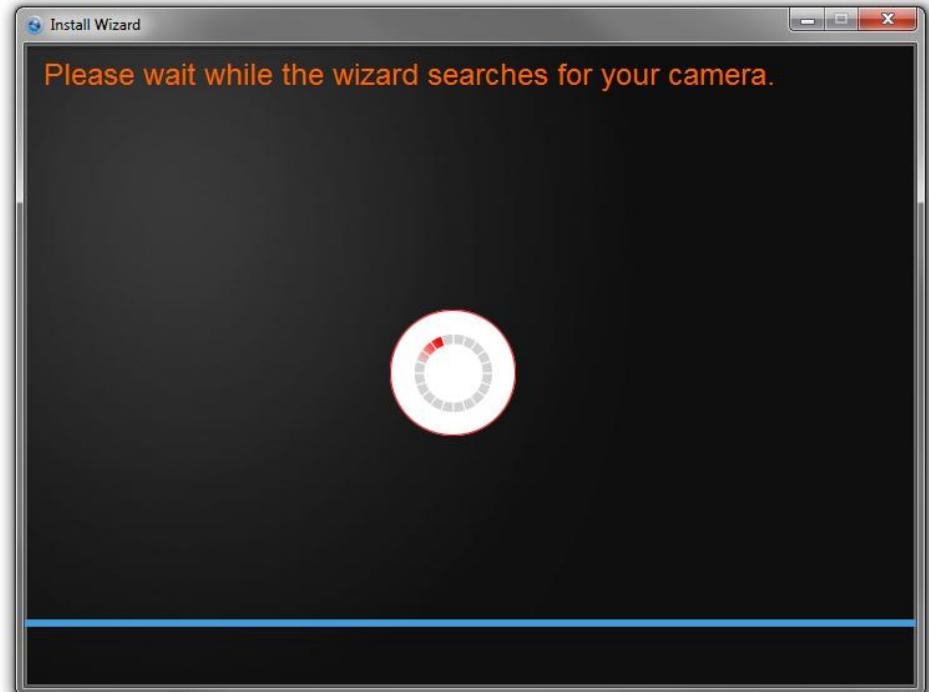
   The basic connection type is the first option, using a network cable. Let's begin the installation process using the network cable connection first. Click this **radio button** and click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the main menu.

4. Follow the instructions in the next screen to **Power up the Camera**. Connect one end of the power adapter to the camera and watch the LED flicker. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu.**
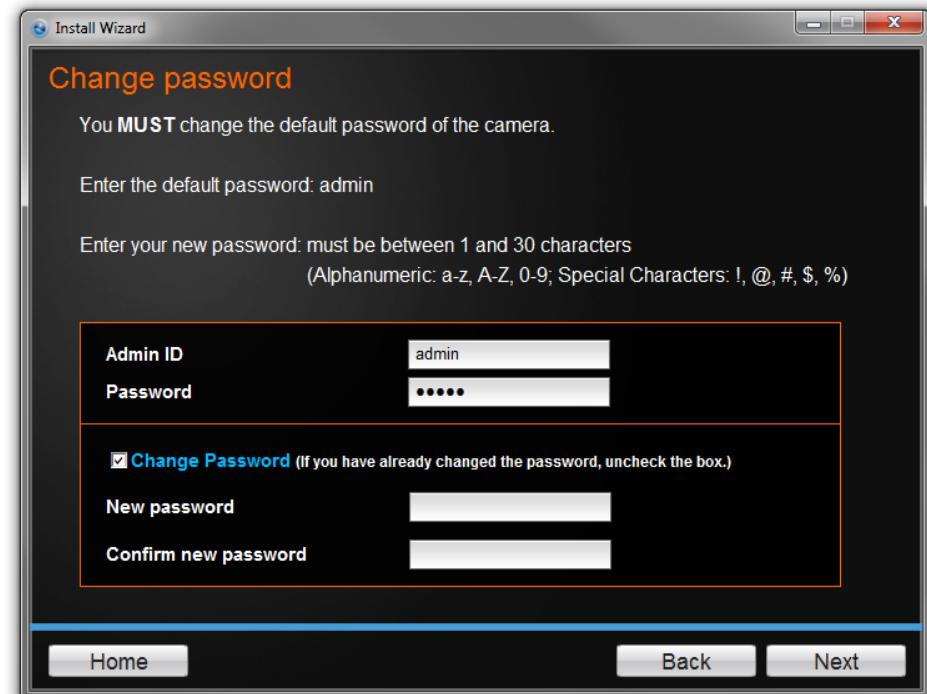
5. Connect one end of the network cable to your camera and the other end to your router. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu.**
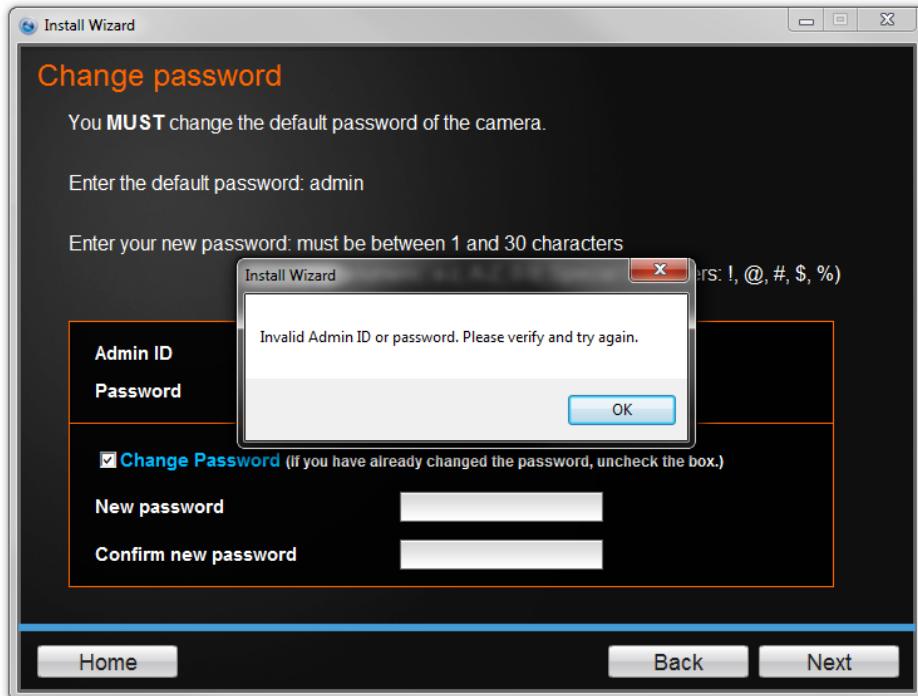
6. The wizard searches the network for your camera.
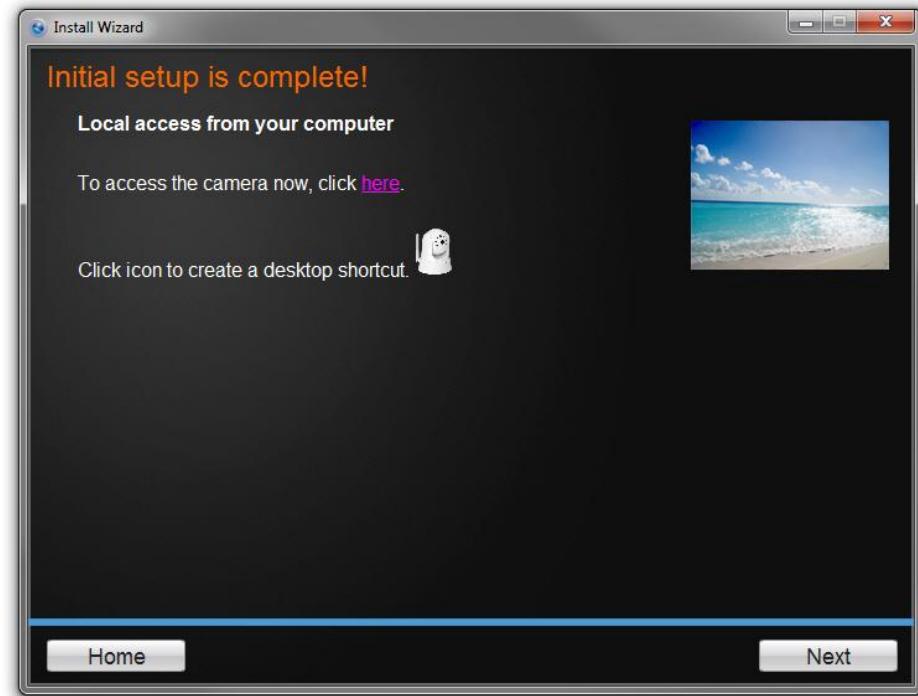
7. If you only have one camera on your network, the wizard will automatically select it. Otherwise, if you have more than one camera, it provides several options from the list. The wizard provides the **Model Name** and **MAC Address** of the camera. If you do not see any of your camera(s) in the wizard, click **Retry** to scan for the camera again. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu.**

8. **Password Settings**. Follow the instructions on the screen. The default username and password is **admin**. Tick the **Change Password** checkbox to enter the new password details. The password should be between 1 and 30 characters. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu**.

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

9. The initial setup is complete. Click the link to navigate to the camera's Web User Interface for further configuration or click **Next** to continue to the next step.

Wireless Connection

Using WPS
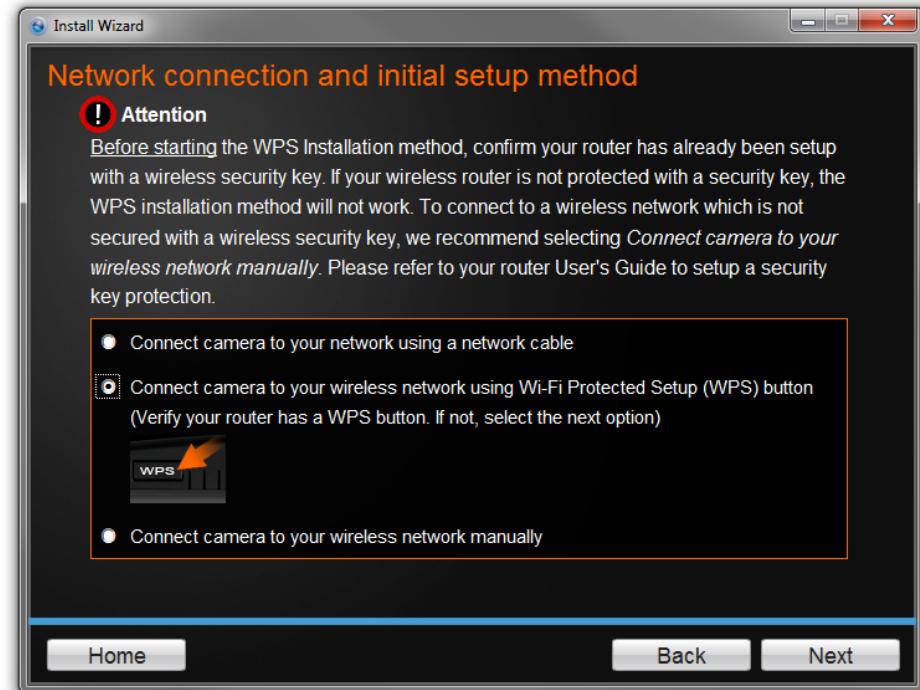
The **Mobile App** section allows the user to download the **TRENDnet Mobile App** either for Apple iOS or Android™[1] devices. To use this feature, the user must have a QR Code Scanner App on their mobile device. This is also available from the Apple App Store or Google Play™[2].

You are now ready to use your camera. Click **Finish** to exit.
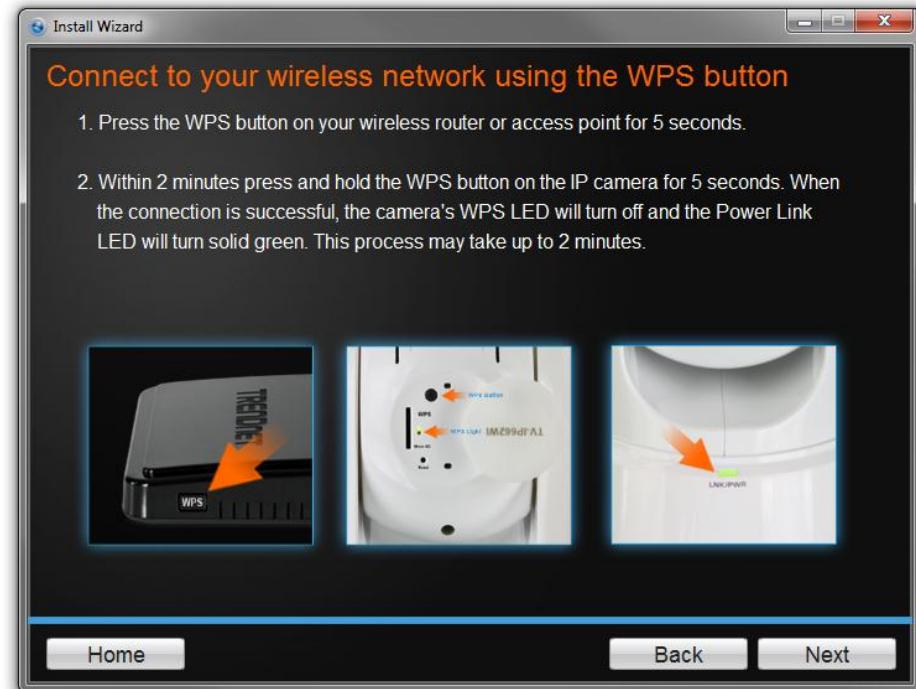
The WPS connection type is the second option, using a wireless router. Click this **radio button** and click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the main menu.

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[1] Android is a trademark of Google Inc.
[2] Google Play is a trademark of Google Inc.
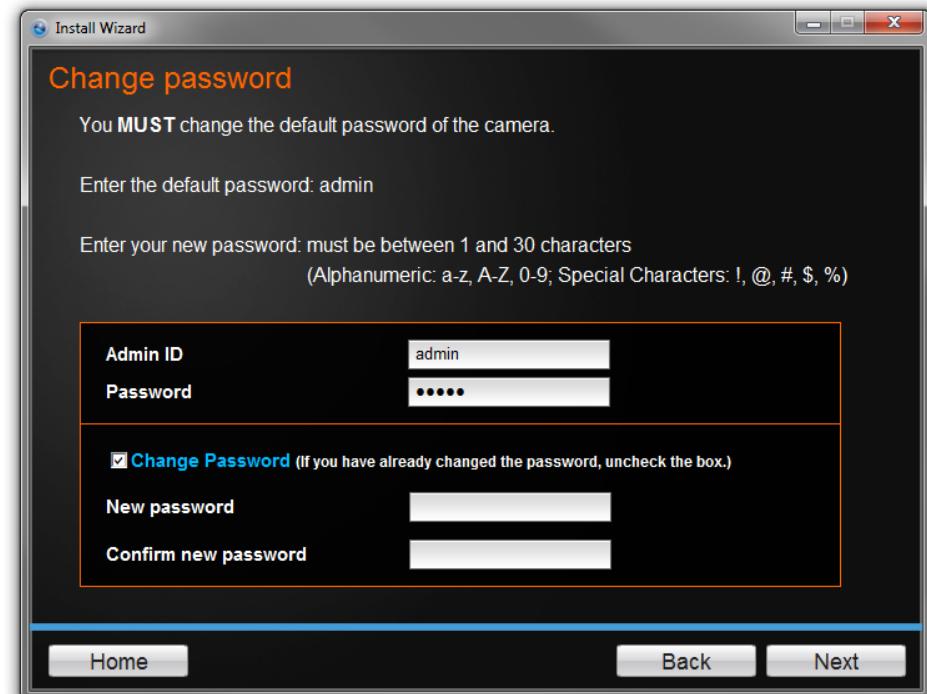
1. Follow the instructions on the screen to **Power up the Camera**. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu.**
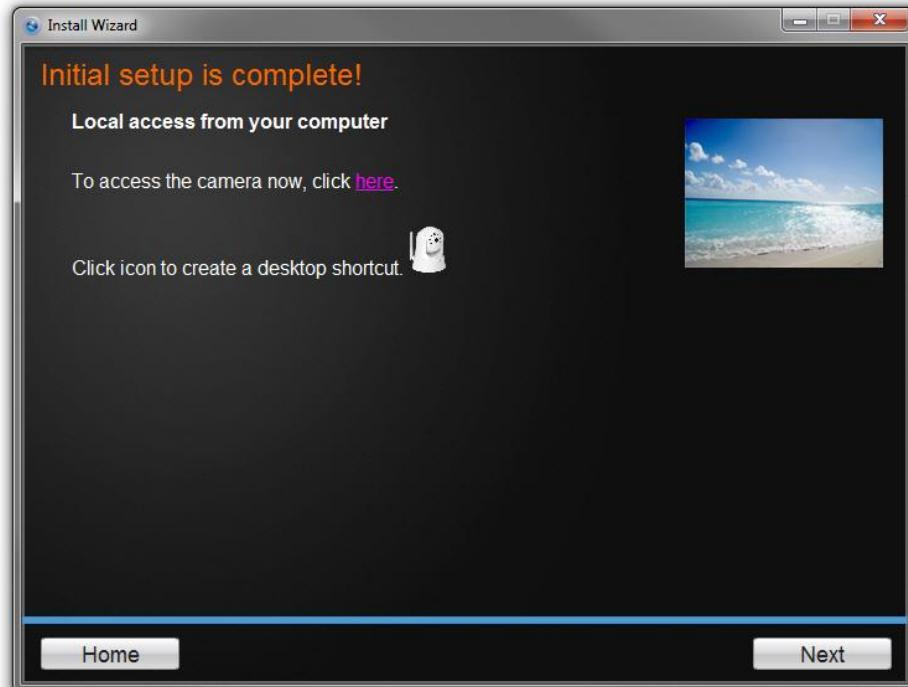
2. Follow the instructions and click **Next** to continue. If you wish to go to the previous screen, click **Back** or **Home** to return to the main menu.

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

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

5. The initial setup is complete. Click the link to navigate to the camera's Web User Interface for further configuration or click **Next** to continue to the next step.
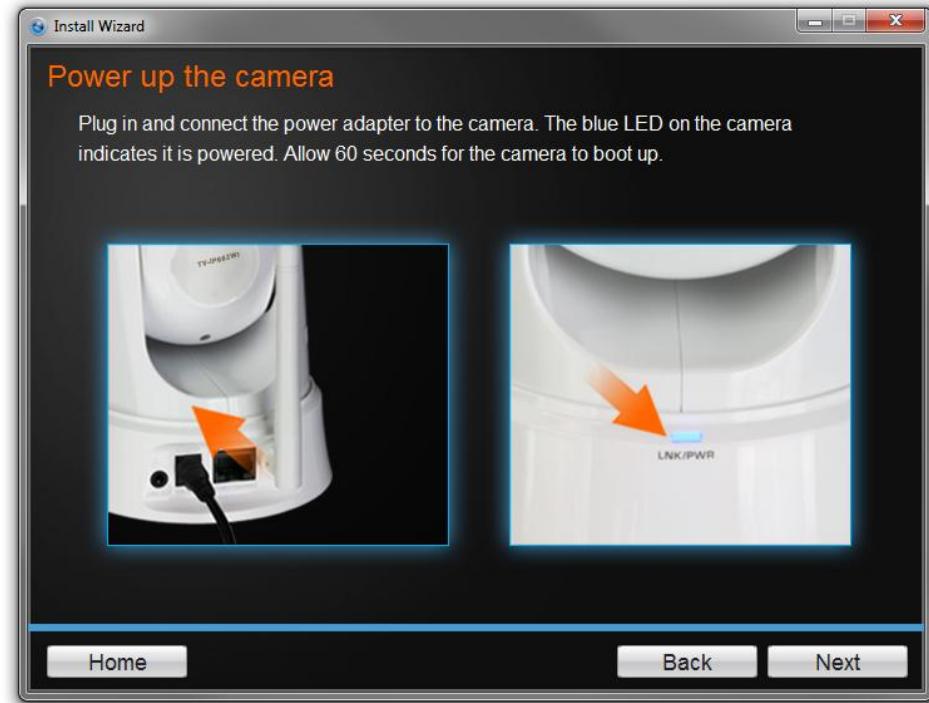
6. The **Mobile App** option allows the user to download the **TRENDnet Mobile App** either for Apple iOS or Android™ format. To use this feature, the user must have a QR Code Scanner App on their mobile device. This is also available from the Apple App Store or Google Play™. You are now ready to use your camera. Click **Finish** to exit.
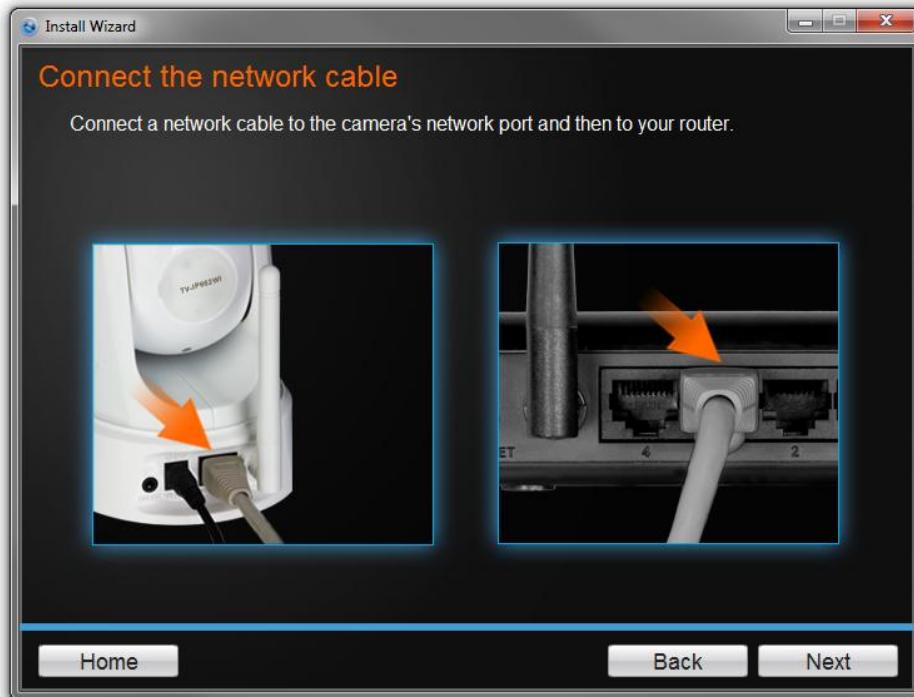
Connecting Wireless Network Manually

The manual wireless connection type is the third option, using a wireless router. Click this **radio button** and click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the main menu.

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

Install Wizard

**Connect the network cable**

Connect a network cable to the camera's network port and then to your router.

Home   Back   Next

Install Wizard

Select your camera

The following cameras were detected on your network. Check the MAC address of the IP Camera you are going to setup and select it from the list.

Model	MAC address
⊙ TV-IP662WI	D8EB97D22AAD

If you don't see your camera's MAC address: confirm that the camera is powered up, confirm your computer is connected to your network, and then click the Retry button.

Home   Retry   Back   Next

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

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

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

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

6. Next, you are prompted to disconnect your network cable from the camera/router. Click **Next** to continue, **Back** to go to the previous screen or **Home** to return to the **Main Menu.**
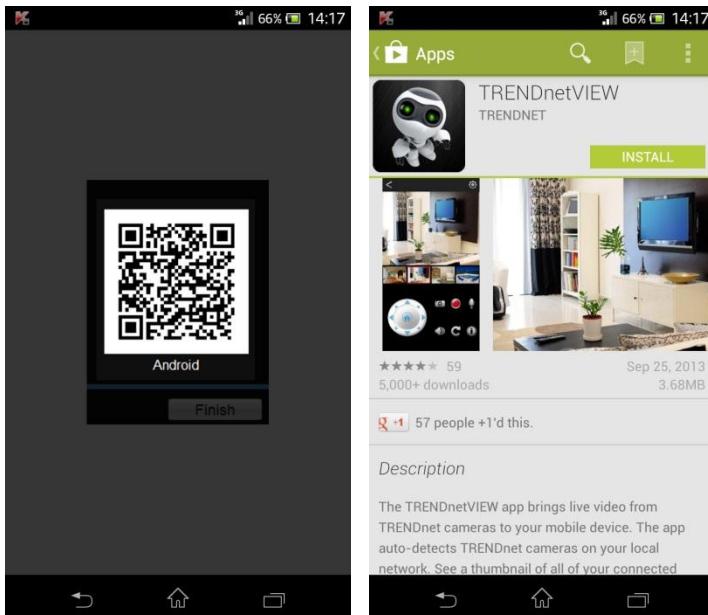
7. The initial setup is complete. Click the link to navigate to the camera's Web User Interface for further configuration or click **Next** to continue to the next step.

8. The **Mobile App** option allows the user to download the **TRENDnet Mobile App** either for Apple iOS or Android™ format. To use this feature, the user must have a QR Code Scanner App on their mobile device. This is also available from the Apple App Store or Google Play™. You are now ready to use your camera. Click **Finish** to exit.
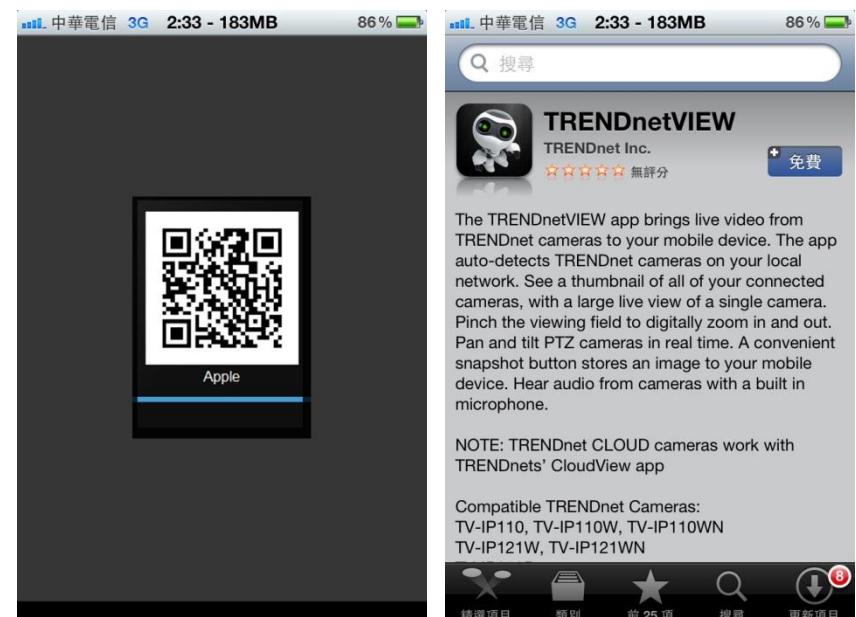
Mobile Apps

Using your mobile[3] device, in this example it is an **Android** phone, touch the **Bar Code** scanning app on your phone. Hold it up to the **QR Code** on the wizard that reads, **Android**, and snap to scan the image. The **Bar Code** app will read the QR Code and record it.

Here is Apple iTunes version

The app copies the QR link and provides a HTML link to the TRENDnet app. You will be directed to the **Google Play™ Storefront** to download the app. Download the app, install it and use the app on your mobile device to view the TRENDnet camera.

Scan the QR Code using one of IOS's QR Code apps. The app automatically creates an HTML link to the iTunes App Store. You are immediately directed to the iTunes App Store. Click the link to download.

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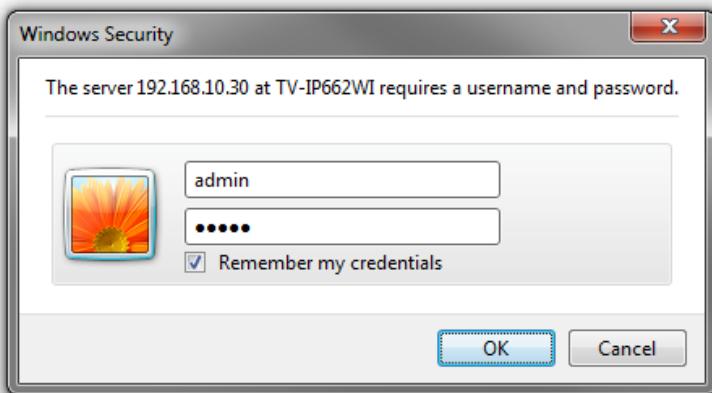
[3] Please use the **Quick Installation Guide** to install the mobile applications or learn how to use mobile accessibility.

Configuration

After completing the AutoRun Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your camera. Open a web browser such as Internet Explorer® and enter the IP address of your camera (Default IP Address: http://192.168.10.30).

To log in, type the Username **admin** and the password you created in the Setup Wizard. If you did not create a password, the default password is **admin**. After entering your password, click **OK**.

These initial steps are using Internet Explorer.

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

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

Download the plugin to a folder on the local PC and run the downloaded plugin installation file after the download.
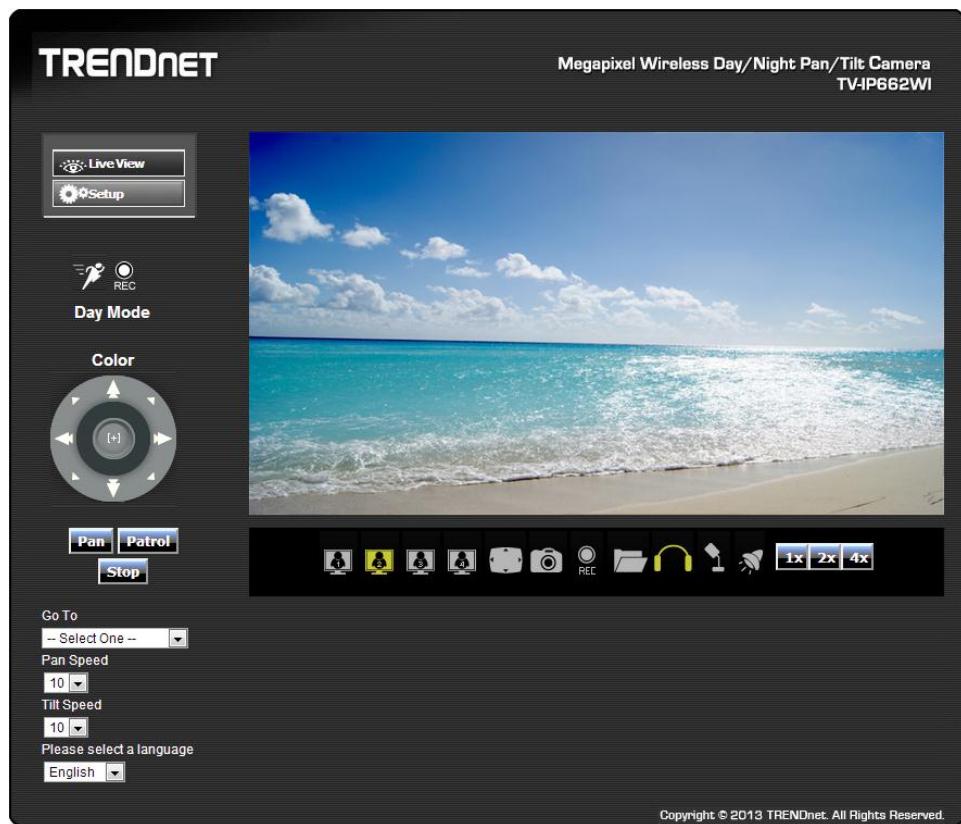
The Camera stream control application will be installed. **Note:** Make sure all Internet browsers are closed during this installation.

Click **Next** to continue.

Click the **Close** button to finish the installation.

Main Web User Interface

After successfully logging into the Web User Interface of the camera, the following window will appear.

The following table describes all the icons and settings that can be configured on the Live View page:
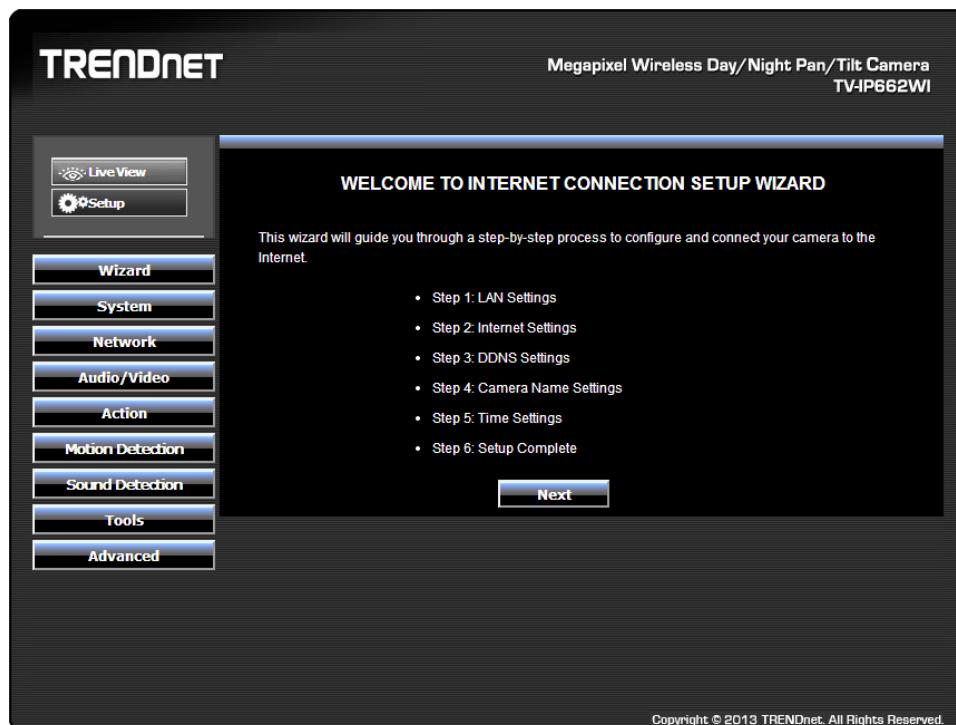
| Icon	Description
	Click this button to view the live video feedback of this camera.
	Click this button to access the setup pages for this camera.
	This icon is used to display the motion detection status of the current live video feed. This icon will be white when no motion is detected and will be yellow when motion is detected.
	This icon is used to display the recording status of the current live video feed. This icon will be white when not recording and will be yellow when recording.
	Day Mode will be displayed when the camera is supplying video feed in a daylight (normal light) environment.
	Night Mode will be displayed when the camera is supplying video feed in a night time (low light) environment.
	When the Day Mode is active, the video feed will be in color.
	When the Night Mode is active, the video feed will be in black and white.
	This is the pan and tilt control panel. Click the left, right, up or down arrows to control the camera to pan or tilt in the direction needed. Also, for more accuracy, arrows are available in between the left, right, up and down arrows. Click the [+] button to return the camera to the home position.

Icon	Description
Pan	Click this button to initiate the automatic pan option. The camera will pan to the far left and then to the far right and then return to the home position.
Patrol	Click this button to initiate the automatic patrol option.
Stop	Click this button to immediately stop the pan or patrol options.
Go To	Select a pre-defined position option here. The camera will then pan/tilt to the position selected.
Pan Speed	Select the pan speed value here.
Tilt Speed	Select the tilt speed value here.
Please select a language	Select the display language here. Options to choose from are English, German, Spanish, Russian, and French.
	Click this icon to view the video profile 1.
	Click this icon to view the video profile 2.
	Click this icon to view the video profile 3.
	Click this icon to view the video profile 4.
	Click this icon to view the video feed in the full screen mode.
	Click this icon to manually take a snapshot of the video feed.
	Click this icon to manually enable or disable video recording.

Icon	Description
	Click this icon to specify the video/snapshot storage folder on the local PC.
	Click this icon to enable or disable the audio feed from the camera.
	Click this icon to enable or disable the audio feed to the camera.
	Click this icon to manually toggle the video feed between the Day and the Night Modes.
1x 2x 4x	Click one of these options to digitally zoom the video feed by 1, 2 or 4 times.

Setup
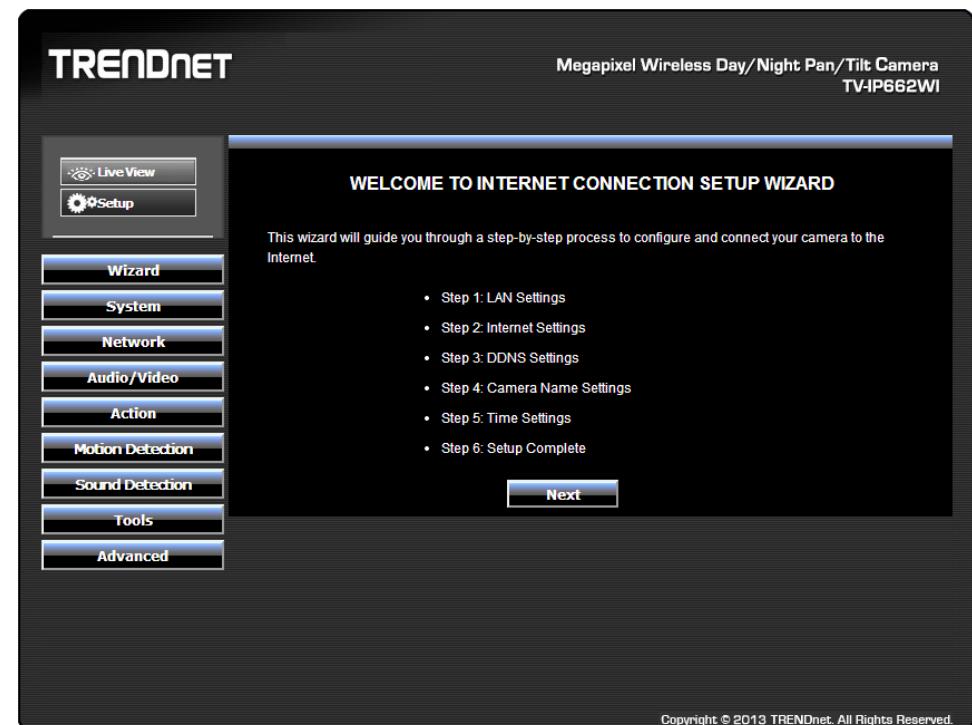
In the **Setup** section we can view and configure more advanced features available on the IP camera. After clicking the Setup button, the following page will be displayed.

In the left side of this page, there is a **Category** menu. Except for **Wizard**, **Motion Detection**, and **Sound Detection**, within each category, there are multiple pages available that is used to configure different types of features available on this camera.

Wizard

The first category option available is **Wizard**. The setup wizard will guide users through a simplified step-by-step wizard to configure basic settings available on this camera.

This first page of the wizard will display a welcome message and layout the steps that will be followed using this wizard. Click **Next** to continue.

Step 1: LAN Settings

On this page users can configure the IPv4 and IPv6 connection settings for this camera. Select **DHCP Connection** to allow the camera to automatically obtain the IPv4 or IPv6 settings from a DHCP server on the local network, or select **Static IP Address** to manually enter the IPv4 and IPv6 connection settings. Click **Next** to continue.

Step 2: Internet Settings

This camera can connect to the Internet directly through the means of a PPPoE connection. On this page users can enter the PPPoE Internet connection's **Username** and **Password**. Click the checkbox to enable this feature. This information can be acquired from your ISP. Click **Next** to continue.

Step 3: DDNS Settings
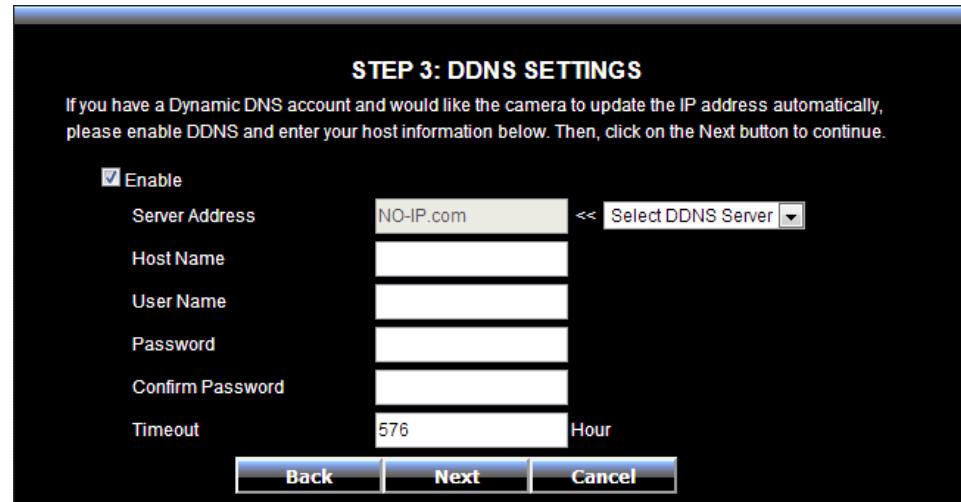
On this page users can configure the Dynamic DNS (DDNS) settings. Click the checkbox to enable this feature. In **Server Address**, select one of the domains from the drop-down menu. The field to the left of the drop-down menu automatically populates. Under **Host Name** enter the name the DDNS service provided. Enter a **Username** and **Password**, repeat the password and finally enter the **Timeout** value. Timeout states the time DDNS is updated. Click **Next** to continue.
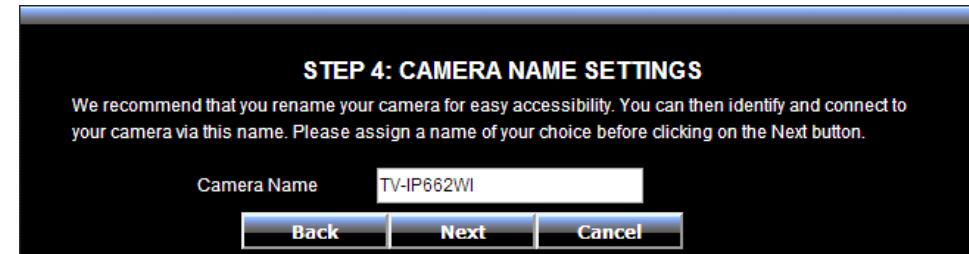
Step 4: Camera Name Settings

On this page users can configure the camera's name. Enter a name for the camera. This feature is helpful when you have more than one camera setup. Click **Next** to continue.

Step 5: Time Settings
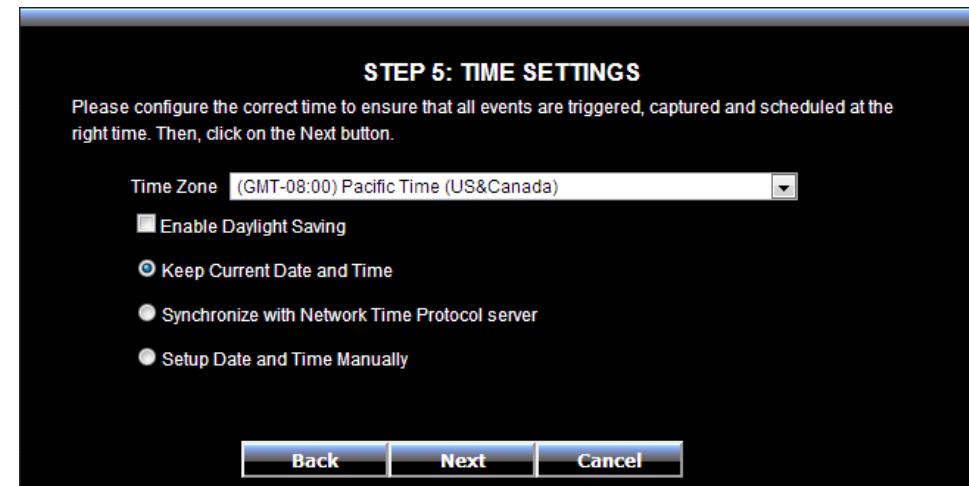
On this page users can view and configure the time settings used by this router. This is a dynamic page and will change depending on the selections made. From the drop-down menu, select a **Time Zone**. To enable daylight saving time, tick the checkbox next to **Enable Daylight Saving**.

After enabling the daylight saving feature, the following will appear.

To allow the camera to automatically detect the daylight saving time, select the **Auto Daylight Saving** option or select the **Set DST manually** option to manually enter the daylight saving time.

After selecting the **Set DST Manually** option, the following will appear.

Select the **Offset** of the time within 1 to 2 hours. Then select a **Start Time** and an **End Time** from the drop-down menus provided.

Select the **Keep Current Date and Time** option to keep the current date and time configured on the camera. Select the **Synchronize with Network Time Protocol server** option to make use of a time server to keep the date and time of this camera updated.
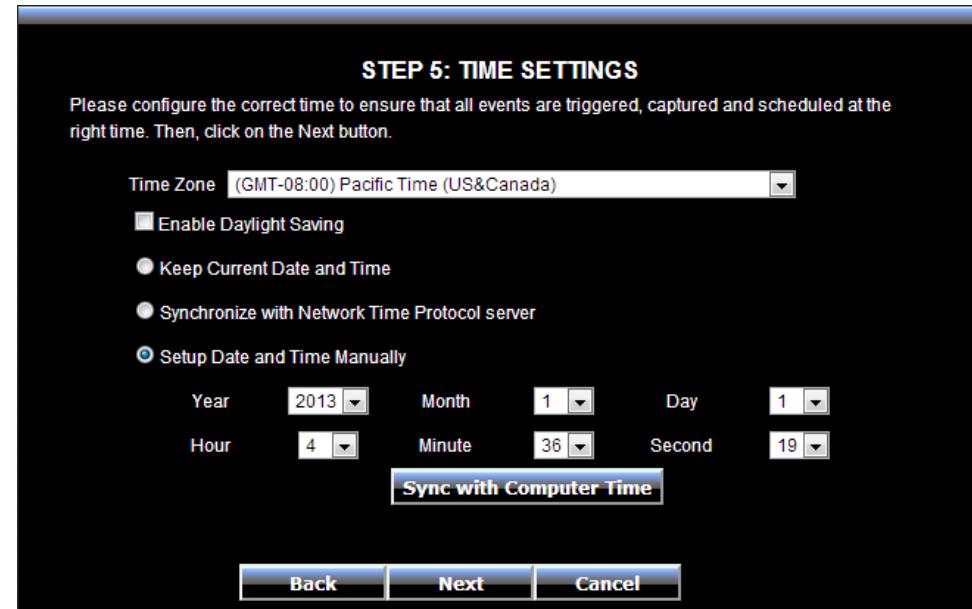
After selecting the **Synchronize with Network Time Protocol server** option, the following will appear.

After selecting the **Setup Date and Time Manually** option, the following will appear.

Select and enter the **NTP Server** address used here or alternatively select the **Set NTP Server from DHCP** option to allow the camera to obtain the date and time settings from the NTP Server that is configured to run in collaboration with the DHCP server on your local network.

Select the **Setup Date and Time Manually** option to manual configure the date and time settings for this camera.

Select the **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second** options from the drop-down menus provided to manually configure the date and time settings used by the camera. Alternatively, click the **Sync with Computer Time** button to automatically configure the camera's date and time settings to be the same as the current date and time settings on the local computer. Click **Next** to continue.

Step 6: Setup Complete

This is the final screen of the wizard. It shows the configuration options selected. Click **Apply** to make the changes. After clicking the **Apply** button, a notice will appear to mention that the camera will restart in 60 seconds and that it is saving the settings to the camera. After the restart, the Web UI will direct back to the start of the wizard.

System

The next category option available is **System**. In the **System** category we can configure administrative settings and the date and time settings.

Admin

In the **Admin Settings** section, we can configure the following.

ADMIN SETTING		
Admin User Name	admin	30 characters maximum
Old Password		30 characters maximum
New Password		30 characters maximum
Confirm New Password		Password Rule: Alphanumeric (A-Z, a-z, 0-9), and Special Characters (!, @, #, $, %)
	Save	

In this section we can configure the **administrator** account's login credentials that will be used to login to the camera's Web UI. In the **Admin User Name** field, enter the login username that will be used for this camera. In the **Old Password** field enter the old/current login password of the camera. In the **New Password** and **Confirm New Password** fields, enter the new login password that will be used for this camera. Click the **Save** button to save the modifications made.

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

In the **Add User Account** section, we can configure the following.

ADD USER ACCOUNT		
User Name		30 characters maximum
New Password		30 characters maximum
Confirm New Password		Password Rule: Alphanumeric (A-Z, a-z, 0-9), and Special Characters (!, @, #, $, %)
	Add 20 users maximum	

In this section we can configure the **user** account's login credentials that will be used to login to the camera's Web UI. In the **User Name** field, enter the login username that will be used for this camera. In the **New Password** and **Confirm New Password** fields, enter the new login password that will be used for this camera. Click the **Add** button to add the new user account created.

In the **User List** section, we can configure the following.

USER LIST	
User Name	-- User list -- ▼ Delete

The **User Name** list will be populated with the names of the user accounts created in the previous section. To delete a user, select the user from the drop-down list and click the **Delete** button.

In the **Authentication** section, we can configure the following.

AUTHENTICATION
☑ RTSP Authentication
☑ HTTP Authentication
☑ Snapshot URL Authentication
(http://192.168.10.30/image/jpeg.cgi)
Save

Tick the **RSTP Authentication** option to enable RSTP real-time authentication. Tick the **HTTP Authentication** option to enable HTTP authentication. Tick the **Snapshot URL Authentication** option to enable snapshot authentication of the current video stream using the hyperlink. Click the **Save** button to save the modifications made.

In the **Device Settings** section, we can configure the following.

DEVICE SETTING

Camera Name	TV-IP662WI	36 characters maximum
☑ On-Screen Display(OSD)		
Label	TV-IP662WI	30 characters maximum
☑ Time Stamp		
LED light	Power/Link ▾	
	Save	
Calibrate The Device	**Calibrate the Device**	

Enter the **Camera Name** in the space provided. Tick the **On-Screen Display (OSD)** option to display the label, date and time on the video feed. Enter the **Label** name in the space provided. Tick the **Time Stamp** option to display the date and time on the video feed. Select the **LED light** option from the drop-down list. When selecting the **Power/Link** option, the LED will light up when the camera has power and a network link. When selecting the **Off** option, the LED will be turned off. When selecting the **Blinking** option, the LED will rhythmically blink.

To calibrate the pan and tilt region of the camera, click the **Calibrate the Device** button.

Time and Date

In the **Time Configuration** section, we can configure the following.

TIME CONFIGURATION

Time Zone	(GMT-08:00) Pacific Time (US&Canada)	▾
☑ Enable Daylight Saving		
○ Auto Daylight Saving		
◉ Set DST Manually		
Offset	+1:00 ▾	

	Month	Week	Day of week	Hour	Minute
Start time	3 ▾	2 ▾	Sunday ▾	2 ▾	0 ▾
End time	11 ▾	1 ▾	Sunday ▾	2 ▾	0 ▾

Select the **Time Zone** option from the drop-down menu. Tick the **Enable Daylight Saving** option to enable the daylight saving feature on this camera. Select the **Auto Daylight Saving** option to automatically receive the daylight saving update from the time server. Select the **Set DST Manually** option to manually configure the daylight saving time options. After selecting to manually configure the daylight saving time, select the **Offset** value used. Select the **Start time** and **End time** options.

In the **Automatic Time Configuration** section, we can configure the following.

Tick the **Synchronize with Network Time Protocol server** option to enable the automatic time configuration option. Enter the **NTP Server** address of the time server used here or select the **Set NTP Server from DHCP** option to allow the camera to obtain the date and time settings from the NTP Server that is configured to run in collaboration with the DHCP server on your local network.

In the **Set Date and Time Manually** section, we can configure the following.
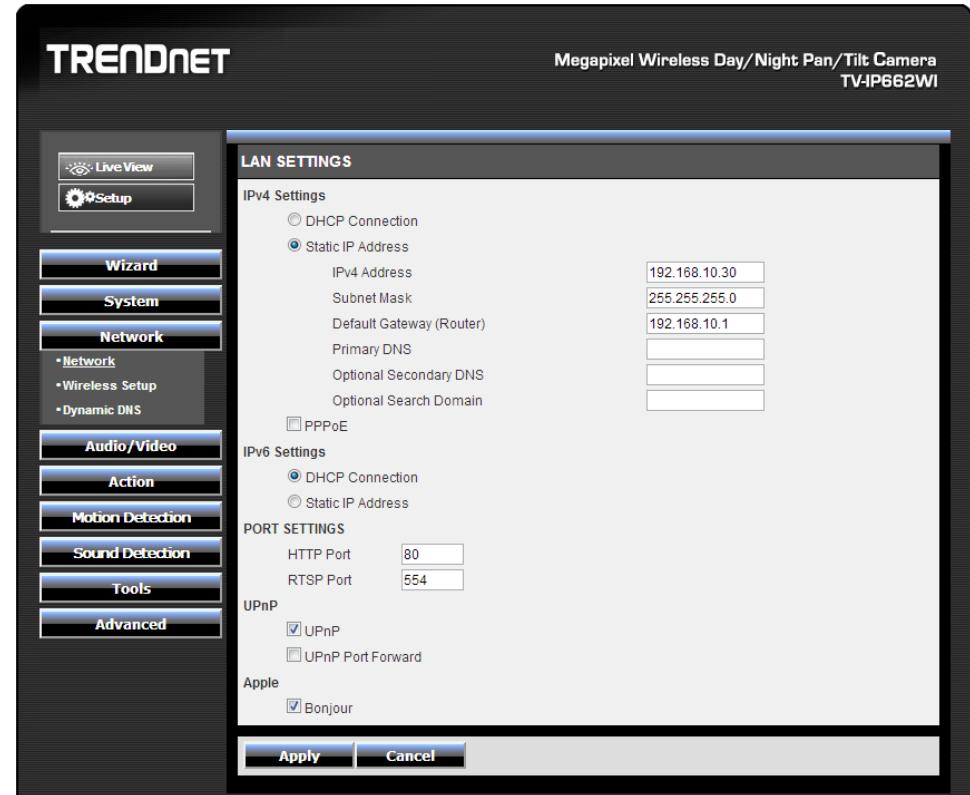
Tick the **Setup Date and Time Manually** option to manually configure the date and time settings for this camera. Select the **Year**, **Month**, **Day**, **Hour**, **Minute**, and **Second** options from the drop-down menus provided to manually configure the date and time settings used by the camera. Alternatively, click the **Sync with Computer Time** button to automatically configure the camera's date and time settings to be the same as the current date and time settings on the local computer. Click the **Apply** button to apply the modifications made.

Network

The next category option available is **Network**. In the **Network** category we can configure the wired and wireless network settings. Also available for configuration in this category is Dynamic DNS.

Network

In the **LAN Settings** section, we can configure the following.

LAN SETTINGS

IPv4 Settings
- ○ DHCP Connection
- ● Static IP Address

IPv4 Address	192.168.10.30
Subnet Mask	255.255.255.0
Default Gateway (Router)	192.168.10.1
Primary DNS	
Optional Secondary DNS	
Optional Search Domain	

☑ PPPoE

User Name	
Password	
Confirm Password	
Status	Disabled

In the **IPv4 Settings** part, we can configure the IPv4 network settings used by this camera. Select the **DHCP Connection** option to automatically obtain the IPv4 network settings, for this camera, from a DHCP server, located on the local network.

Select the **Static IP Address** option to manually configure the IPv4 network settings used by this camera. Enter the **IPv4 Address**, **Subnet Mask**, **Default Gateway**, **Primary DNS**, **Optional Secondary DNS**, and **Optional Search Domain** parameters in the spaces provided.

This camera can connect to the Internet directly through the means of a PPPoE connection. Tick the **PPPoE** option to enable this feature. Enter the PPPoE Internet connection's **User Name** and **Password** in the spaces provided. This information can be acquired from your ISP.

IPv6 Settings
- ○ DHCP Connection
- ● Static IP Address

IPv6 Address / Prefix Length		/ 64
Default Gateway(Router)		
Primary DNS		
Optional Secondary DNS		

In the **IPv6 Settings** part, we can configure the IPv6 network settings used by this camera. Select the **DHCP Connection** option to automatically obtain the IPv6 network settings, for this camera, from a DHCP server, located on the local network.

Select the **Static IP Address** option to manually configure the IPv6 network settings used by this camera. Enter the **IPv6 Address/Prefix Length**, **Default Gateway (Router)**, **Primary DNS**, and **Optional Secondary DNS** parameters in the spaces provided.

PORT SETTINGS

HTTP Port	80
RTSP Port	554

UPnP
- ☑ UPnP
- ☑ UPnP Port Forward

External HTTP	80
External RTSP	554

In the **Port Settings** part, enter the **HTTP Port** and **RSTP Port** numbers used.

In the **UPnP** part, tick the **UPnP** option to enable the UPnP feature on this camera. Tick the **UPnP Port Forward** option to enable the UPnP port forwarding feature. Enter the **External HTTP** and **External RSTP** port number in the respective spaces provided.

Apple
☑ Bonjour

Apply   Cancel
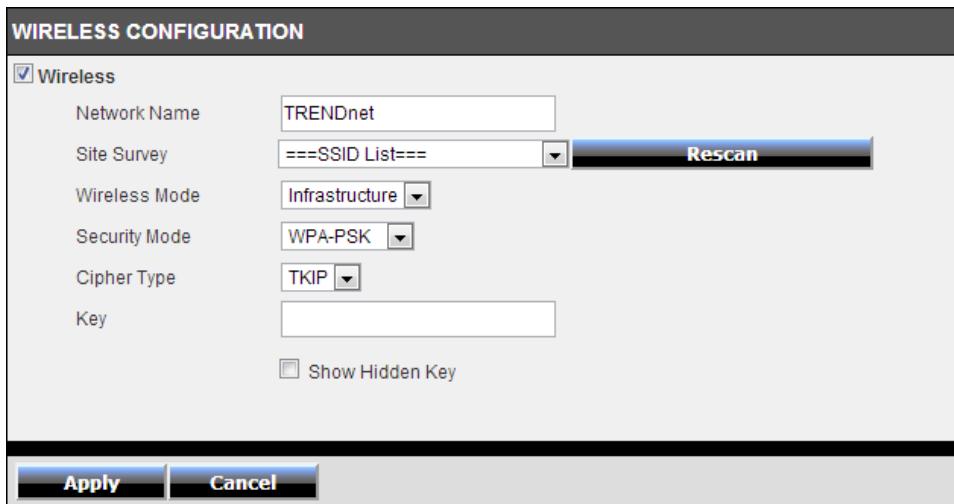
In the **Apple** part, we can enable the **Bonjour** feature. Click the **Apply** button to apply the modifications made.

Wireless Setup

In the **Wireless Configuration** section, we can configure the following.

WIRELESS CONFIGURATION

Enable Wireless

Click the **Enable Wireless** button to enable the wireless feature for this camera. After clicking the **Enable Wireless** button, the camera will restart (80 seconds) and the following page will be available.

WIRELESS CONFIGURATION

☑ Wireless

Network Name	TRENDnet
Site Survey	===SSID List=== ▾	Rescan
Wireless Mode	Infrastructure ▾
Security Mode	WPA-PSK ▾
Cipher Type	TKIP ▾
Key	

☐ Show Hidden Key

Apply   Cancel

Untick the **Wireless** option to disable the wireless functionality of this camera. Enter the wireless **Network Name** (SSID) in the space provide or select the wireless network name from the **Site Survey** drop-down list. If the wireless network exists and is not displayed in the **Site Survey** drop-down list, click the **Rescan** button to rescan for available wireless networks.

Select the **Wireless Mode** for this camera. The two supported modes are **Infrastructure** and **Ad-Hoc**. When connecting the camera to a wireless access point or router, use the infrastructure mode. When connecting the camera to a wireless adapter directly, select the ad-hoc mode. After selecting the ad-hoc mode, we will be able to manually select the wireless **Channel** number used for the connection.

Select the **Security Mode** for this camera. The four supported security modes for this camera are **None**, **WEP**, **WPA-PSK**, and **WPA2-PSK**. After selecting WPA-PSK or WPA2-PSK as the security mode, select the **Cipher Type** used for this security mode. After selecting WEP, WPA-PSK, or WPA2-PSK as the security mode, enter the wireless **Key** used in the space provided.

Tick the **Show Hidden Key** option to display the key entered.

Click the **Apply** button to apply the modifications made.

Dynamic DNS

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

In the **Dynamic DNS Settings** section, we can configure the following.

Tick the **Enable** option to enable the Dynamic DNS feature. Select the DDNS service provider from the drop-down list after which the service provider's name will be moved to the **Server Address** field. Enter the **Host Name**, **User Name**, **Password**, and **Timeout** information in the spaces provided. Click the **Apply** button to apply the modifications made.

Audio/Video

The next category option available is **Audio/Video**. In the **Audio/Video** category we can configure audio and video profiles and settings as well as configure image settings.

Audio and Video

In the **Video Profile** sections, we can configure the following.

VIDEO PROFILE 1					
Encode Type	Resolution	FPS	Encode Method	bps	RTSP URL
H.264	1280x720	30	CBR	4 Mbps	play1.sdp

VIDEO PROFILE 2					
Encode Type	Resolution	FPS	Encode Method	bps	RTSP URL
H.264	640X352	10	CBR	1 Mbps	play2.sdp

VIDEO PROFILE 3					
Encode Type	Resolution	FPS	Encode Method	Quality	RTSP URL
JPEG	640X352	5	Quality	Good	play3.sdp

VIDEO PROFILE 4 (FOR MOBILE DEVICE ONLY)					
Encode Type	Resolution	FPS	Encode Method	bps	RTSP URL
MPEG4	320X176	5	CBR	384 Kbps	3gpp

Select the **Encode Type** option from the drop-down list. Encoding types that can be selected are **MPEG4**, **H.264**, and profile 3 will be on **JPEG** permanently.

Select the **Resolution** size option from the drop-down list. Resolutions that can be selected are **1280x720**, **640x352**, **320x176**, and **160x80**. The resolution of 120x720 is only available on profiles 1 and 3.

Select the Frames Per Second (**FPS**) from the drop-down list. FPS speeds that can be selected are **30**, **15**, **10**, **6**, **5**, **3**, **2**, and **1**.

Select the **Encode Mode** option from the drop-down list. Encoding modes that can be selected are Constant Bit Rate (**CBR**) and **Quality** and profile 3 will use the quality mode permanently.

After selecting **CBR** as the **Encode Mode**, select the Bits Per Second (**bps**) value. Options to choose from are between 64 Kbps and 4 Mbps. After selecting **Quality** as the **Encode Mode**, select the **Quality** option. Options to choose from are **Low**, **Fair**, **Standard**, **Good**, and **Excellent**.

Users can also enter a custom **RSTP URL** in the space provided.

In the **Day/Night Mode** section, we can configure the following.

DAY/NIGHT MODE	
Day/Night Mode	Manual
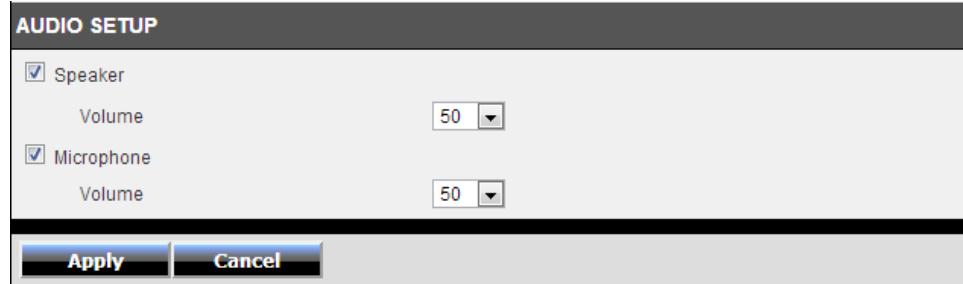
The camera allows users to record data in day and night mode. The camera has IR LED's for night mode. When selecting the Day mode, the viewing image is in normal color. However, when you use Night mode, the viewing image turns black and white. The reason for this is to create a clearer and smoother image. When you select automatic mode, the Day/Night function is concealed.

Please Note: This allows you to set the camera to switch automatically from day to night mode (default) or to permanently set the color and Black/White operations. Also note, even when the camera is set to color mode, it will switch to Black/White night vision if there is no longer enough ambient light to support the color saturation.

Select the **Day/Night Mode** option from the drop-down list. Options to choose from are **Auto**, **Manual**, **Always day mode**, **Always night mode**, and **Schedule**. When selecting **Auto**, the camera will automatically switch between day and night modes depending on the light conditions. When selecting **Manual**, the user can manually toggle between day and night modes by clicking the [icon] button on the **Live View** page. When selecting **Always day mode** or **Always night mode** the camera will stay on the mode selected even when the light conditions change. When selecting the **Schedule** option, the camera will toggle between day and night modes depending on the time schedule configured.

In the **Audio Setup** section, we can configure the following.

Image Setup

In the **Live Video** section, we can view the live video feed while we do image modifications in the **Image Settings** section.

Tick the **Speaker** option to enable the audio feed from the camera to the PC. Tick the **Microphone** option to enable the audio feed from the PC to the camera. Select the **Volume** level for both selections. Click the **Apply** button to apply the modifications made.
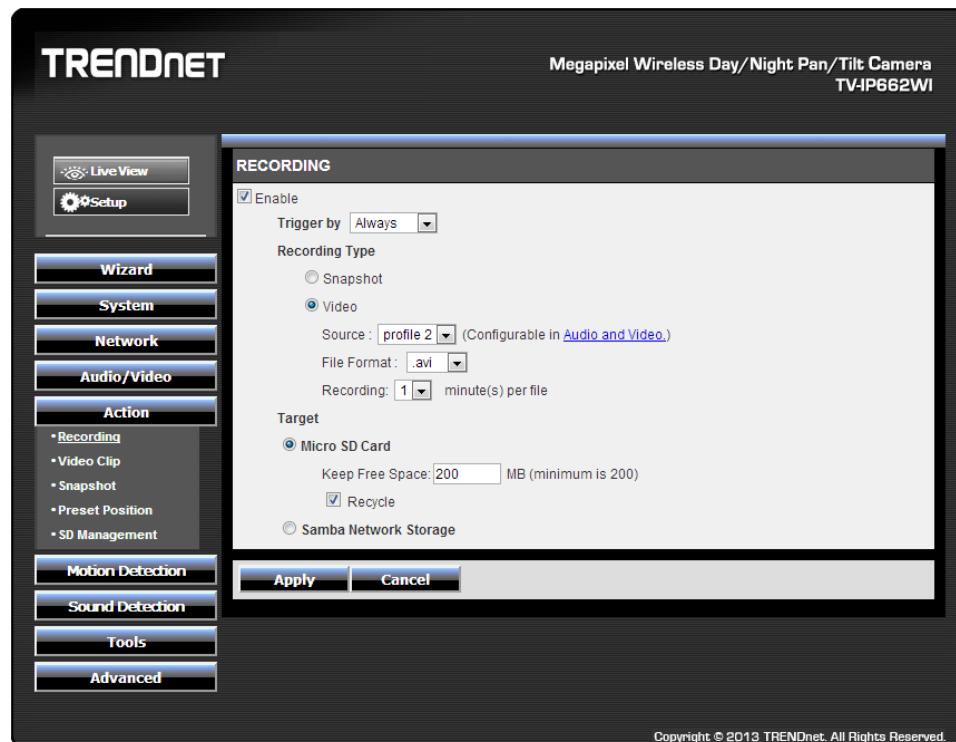
Select the **Brightness**, **Saturation**, **Contrast**, and **Hue** values from the respective drop-down menus. Tick the **Black and White** option to change the image color to black and white. Tick the **Mirror** option to flip the video image horizontally. Tick the **Flip** option to flip the video image vertically for upside-down mounting. Select the video **Frequency** value from the drop-down list.

Select to enable or disable the auto **White Balance** feature. To enable the **Slow Shutter** feature, select one of the time values (**1/15 second**, **1/10 second**, **1/7.5 second** or **1/3.75 second**) from the drop-down list. Click the **Reset to Default** button to return the image settings to their default values.
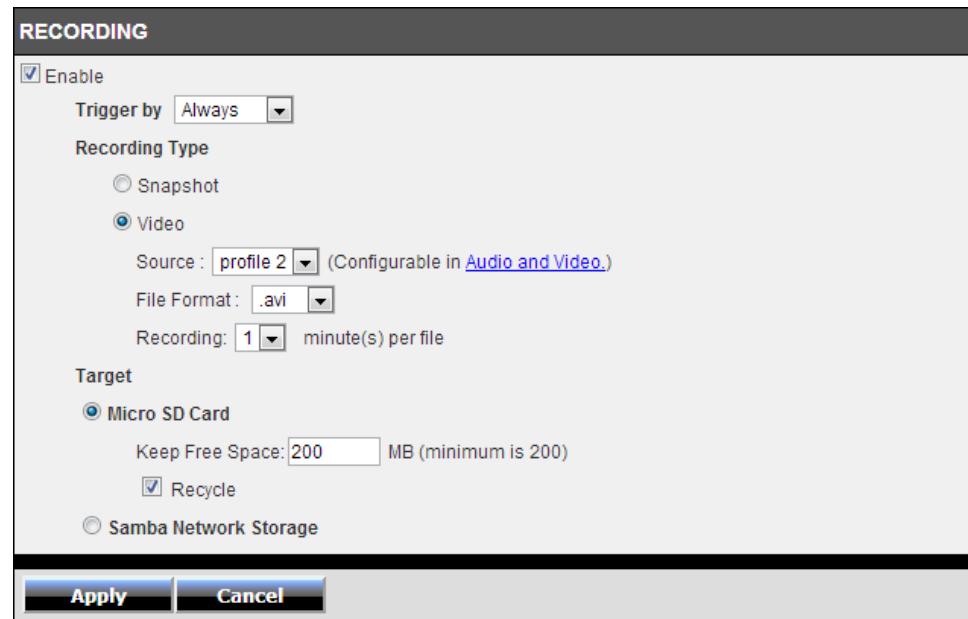
Action

The next category option available is **Action**. In the **Action** category we can configure the action that will be taken when recording is done.

Recording

This camera allows users to record video, based on a trigger event, and then save the video recording either on a micro SD card or on a Samba server shared folder. In the **Recording** section, we can configure the following.

Tick the **Enable** option to enable the recording feature. Select the **Trigger by** option from the drop-down list. Options to choose from are **Motion**, **Schedule**, **Always**, and **Sound**. The parameters available for configuration will change depending on the selections made.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.

Selecting **Motion**, will tell the camera only to record when motion is detected. Tick the **Schedule** option to only record motion at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

Selecting **Sound**, will tell the camera only to record when sound is detected. Tick the **Schedule** option to only record video when sound is detected at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Schedule** option as the **Trigger by** event, the following can be configured.

In the **Recording Type** section, we can configure the following.

Selecting **Schedule**, will tell the camera to record always within the scope of the schedule configured. Tick the **Day** and enter the **Start** and **End** times.

Enter the **Pre-event recording** and **Post-event recording** time values in the respective fields provided.

After selecting the **Always** option as the **Trigger by** event, the following can be configured.

When selecting the **Snapshot** option, the following can be configured.

Selecting **Always**, will tell the camera to record always.

Selecting this option will tell the camera to only take a snapshot (an image capture) of the video feed when the abovementioned criteria are met. Enter the **Interval** value in the space provided. The interval value means that a snapshot will be taken at every interval configured. Only **Profile 3** can be used for this selection.

When selecting the **Video** option, the following can be configured.

Selecting this option will tell the camera to record a video clip when the abovementioned criteria are met. Select the video profile (**Source**) that will be used for the recording. Select the **File Format** that the recording will be saved as. File formats available are AVI and MP4. Select the **Recording** clip time value between 1 and 6 minutes. This will split the total recording into smaller separate files for the duration of the recording.

In the **Target** section, we can configure the following.

After selecting **Micro SD Card** as the recording **Target**, the recording will be saved on the micro SD card installed in the camera. Enter the **Keep Free Space** value that is needed on the micro SD card. Tick the **Recycle** option to record until the space is filled on the micro SD card and then to record over the oldest recordings found on the card.

After selecting **Samba Network Storage** as the recording **Target**, the recording will be saved on the Samba network attached storage available on the local network.

After selecting **Samba Network Storage** as the recording **Target**, the recording will be saved on the Samba network storage available on the network. Enter the **Samba Server Address** in the space provided. To connect to the Samba server as anonymous, select the **Anonymous** option. To connect the Samba server with a user account, select the **Account** option and enter the **Username** and **Password** in the spaces provided.

Enter the **Share Folder** name, **Sub Folder** name, and **Keep Free Space** information in the spaces provided. Tick the **Recycle** option to record until the space is filled on the Samba server account and then to record over the oldest recordings.

Click the **Apply** button to apply the modifications made.

Video Clip

This camera allows users to record video clips and then send it to an FTP server or email the video to an email account. In the **Video Clip** section, we can configure the following.

Tick the **Enable** option to enable the video clip feature. Select the **Trigger by** option from the drop-down list. Options to choose from are **Motion**, **Schedule**, **Always**, and **Sound**. The parameters available for configuration will change depending on the selections made.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.

Selecting **Motion**, will tell the camera only to record when motion is detected. Tick the **Schedule** option to only record motion at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Schedule** option as the **Trigger by** event, the following can be configured.

Selecting **Schedule**, will tell the camera to record always within the scope of the schedule configured. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Always** option as the **Trigger by** event, the following can be configured.

Selecting **Always**, will tell the camera to record always.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.

Selecting **Sound**, will tell the camera only to record when sound is detected. Tick the **Schedule** option to only record video when sound is detected at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

In the **Video Clip Type** section, we can configure the following.

After selecting **E-mail** as the **Target**, the following will be available.

In the **Video Clip Type** section, we can configure the following.

Select the video profile in the **Source** drop-down list to use. Since profile 3 is only for JPEG, it cannot be used here. Select the **File Format** that the video clip will be saved as. Options to choose from are AVI and MP4. Enter the **Pre-event recording** time value and the **Maximum duration** time value in the spaces provided.

In the **Target** section, we can configure the following.

Enter the **Recipient E-mail Address**, **SMTP Mail Server** address, **Port** number, **User Name**, **Password**, **Sender E-mail Address**, and **Interval** information in the spaces provided. Select the **SSL-TLS** option that will be used. Options to choose from are **None**, **SSL-TLS**, and **STARTTLS**. Click the **Test** button to test the E-mail connection.

Click the **Apply** button to apply the modifications made.

In this section we can configure where the recorded video clip will be saved. Select **FTP** or **E-mail** as the target. After selecting **FTP** as the **Target**, enter the **FTP Server** address, **Port** number, **User Name**, **Password**, **Path**, **Filename Prefix**, and **Interval** information in the spaces provided. Tick the **Passive Mode** option to enable the passive mode feature. Click the **Test** button to test the FTP connection.

Snapshot

Snapshots can be taken by this camera based on the trigger by event. In the **Snapshot** section, we can configure the following.

Tick the **Enable** option to enable the snapshot feature. Select the **Trigger by** option from the drop-down list. Options to choose from are **Motion**, **Schedule**, **Always**, and **Sound**. The parameters available for configuration will change depending on the selections made.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.

Selecting **Motion**, will tell the camera only to take snapshots when motion is detected. Tick the **Schedule** option to only take snapshots for motion at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Schedule** option as the **Trigger by** event, the following can be configured.

Selecting **Schedule**, will tell the camera to always take snapshots within the scope of the schedule configured. Tick the **Day** and enter the **Start** and **End** times.

After selecting the **Always** option as the **Trigger by** event, the following can be configured.

Selecting **Always**, will tell the camera to always take snapshots.

After selecting the **Motion** option as the **Trigger by** event, the following can be configured.

Selecting **Sound**, will tell the camera only to take snapshots when sound is detected. Tick the **Schedule** option to only take snapshots when sound is detected at specific times of the week. Tick the **Day** and enter the **Start** and **End** times.

In the **Snapshot Type** section, we can configure the following.

Snapshot Type

    Source : Profile 3(configurable in Audio and Video.)

Only **Profile 3** can be used to take snapshots.

In the **Target** section, we can configure the following.

Target
    ☐ FTP
    ☐ E-mail

Apply   Cancel

In this section we can configure where the snapshot will be saved. Select **FTP** or **E-mail** as the target.

After selecting **FTP** as the **Target**, the following will be available.

Target
    ☑ FTP
        FTP Server
        Port   21
        User Name
        Password
        Path
        Filename Prefix
        Interval   300   Seconds (range 1 to 86400 seconds)
        Passive Mode   ☑
                        Test
    ☐ E-mail

Apply   Cancel

Enter the **FTP Server** address, **Port** number, **User Name**, **Password**, **Path**, **Filename Prefix**, and **Interval** information in the spaces provided. Tick the **Passive Mode** option to enable the passive mode feature. Click the **Test** button to test the FTP connection.

After selecting **E-mail** as the **Target**, the following will be available.
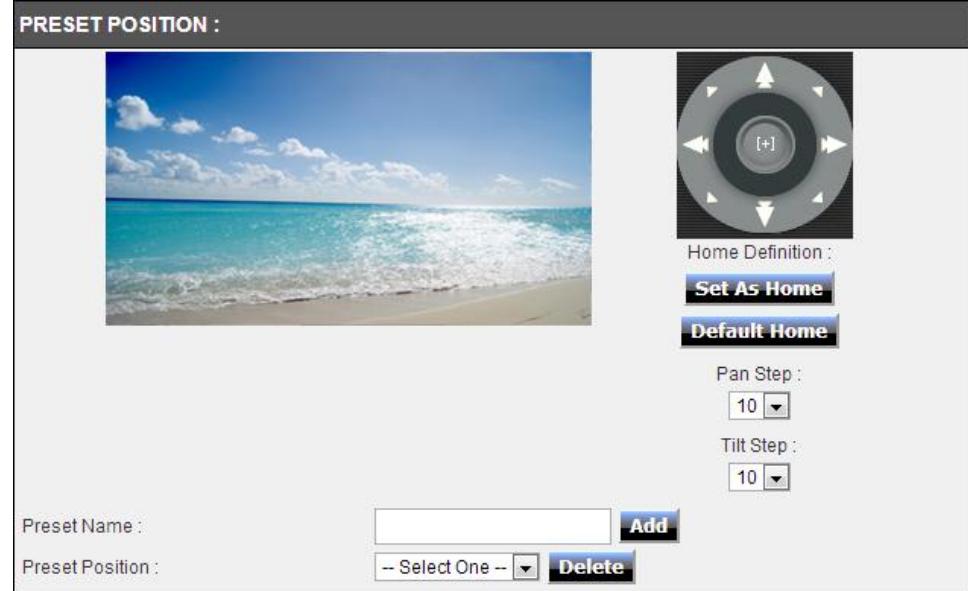
Enter the **Recipient E-mail Address**, **SMTP Mail Server** address, **Port** number, **User Name**, **Password**, **Sender E-mail Address**, and **Interval** information in the spaces provided. Select the **SSL-TLS** option that will be used. Options to choose from are **None**, **SSL-TLS**, and **STARTTLS**. Click the **Test** button to test the E-mail connection.

Click the **Apply** button to apply the modifications made.

Preset Position

On this page we can configure the pan and tilt preset positions. In the **Preset Position** section, we can configure the following.

A live video feed is displayed in the top-left corner to assist users when moving the camera's video angle to a specific position. A control menu, on the top-right corner can be used to pan and tilt the camera's video angle to a specific position. Click the **Set As Home** button to save the current viewing angle as the home position. Click the **Default Home** button to restore the default home position as the home position. Select the **Pan Step** speed and **Tilt Step** speed from the drop-down menus provided. Enter the **Preset Name** in the space provided and click the **Add** button to save the current viewing angle as a saved preset position that can be used later. A list of configured preset positions will be displayed in the drop-down list. Select a configured **Preset Position** from the drop-down list and click the **Delete** button to remove a saved preset position.

In the **Patrol Selection** section, we can configure the following.

In the **Patrol Selection** section we can configure the patrol feature in which the camera will patrol through a list of predefined preset position in order from top to bottom. Select a preconfigured preset position in the **Preset Locations** menu and click on the **Select** button to move it over to the **Patrol Position** menu. To reorder the patrol positions, select it and click either on the **Up** or **Down** buttons. To remove a patrol position from the list, select the patrol position and click on the **Remove** button.

Enter the **Dwelling Time** value in the space provided. This indicates the time needed to span each preset while patrolling. Click the **Save** button to the save the patrol modifications done.

SD Management

On this page the micro SD card can be managed. In the **SD Management** section, we can configure the following.
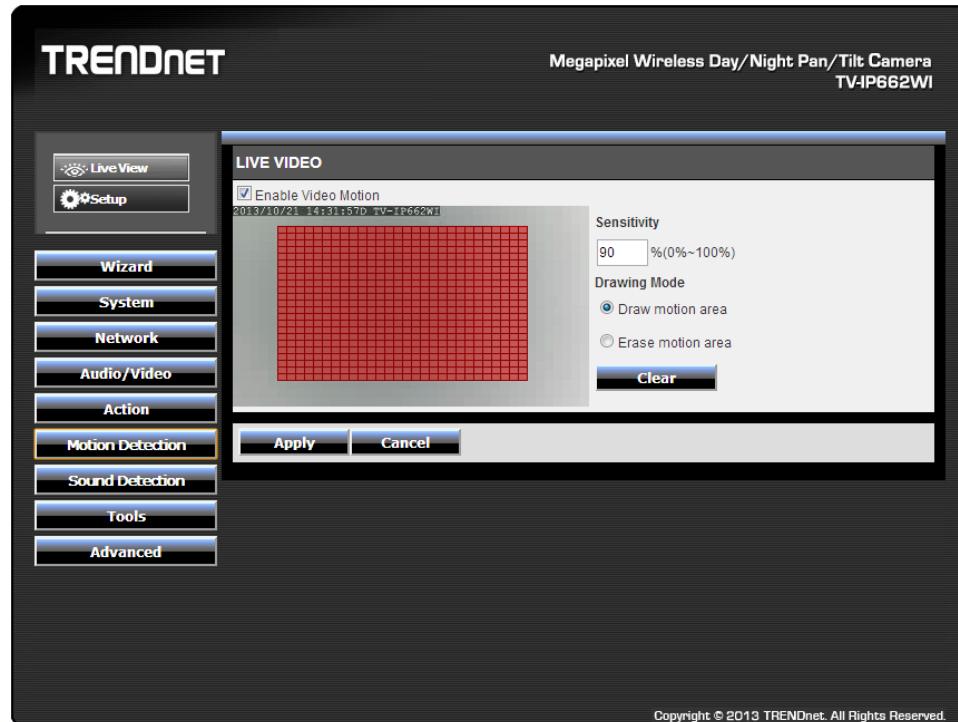
In this section the **SD Status**, Folder **Name**, Folder **Size**, **Total** Space, Total Space **Used**, and Total Space **Free** information will be displayed. Select the **Files per Page** option from the drop-down list to view a certain amount of files per page. Select the **Pages** option from the drop-down list to view a certain page's information, when multiple pages exist. Select a folder's or file's **checkbox** and click the **Delete** button to manually remove a folder or file from the micro SD card. Click the **Format SD Card** button to completely reformat the micro SD card.

Note: When formatting the SD card, all files and folders will be removed from the micro SD card and cannot be recovered.

Motion Detection

The next category option available is **Motion Detection**. In the **Motion Detection** category we can configure the motion detection area and settings for this camera.

Sound Detection

The next category option available is **Sound Detection**. In the **Sound Detection** category we can configure the sound detection settings for this camera.
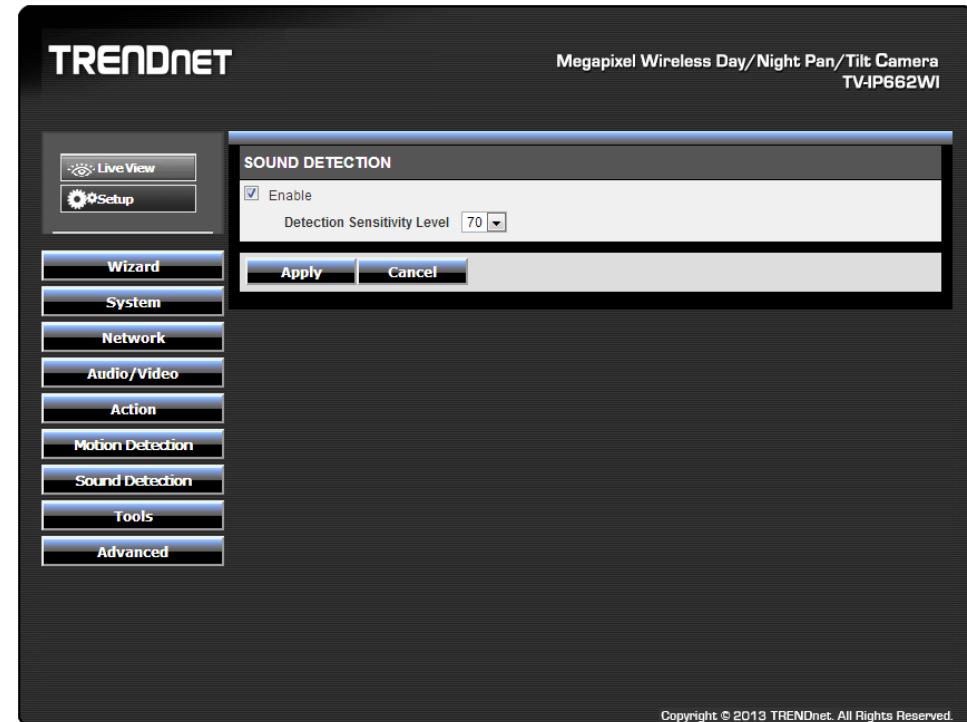
Tick the **Enable Video Motion** option to enable the motion detection feature for this camera. When the **Draw motion area** option is selected, in the live video feed block, use the left mouse button to draw an area that will be used for motion detection. The area will be highlighted with **Red Blocks**. When the **Erase motion area** option is selected, in the live video feed block, use the left mouse button to erase the area that was used for motion detection. Enter the **Sensitivity** value in the space provided. Click the **Clear** button to completely remove all the red blocks from the video feed.

Click the **Apply** button to apply the modifications made.

Tick the **Enable** button to enable the sound detection feature of this camera. Select the sound **Detection Sensitivity Level** value from the drop-down list provided.

Click the **Apply** button to apply the modifications made.
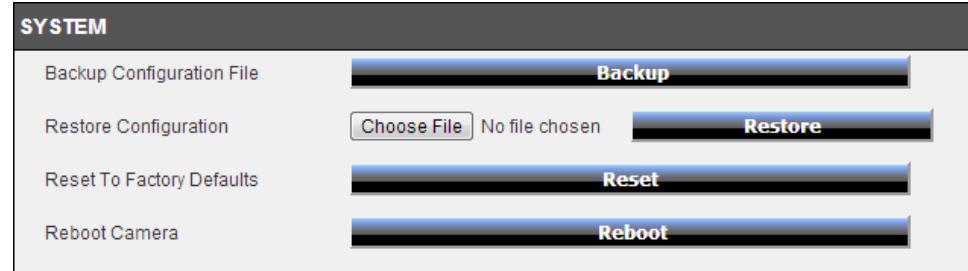
Tools

The next category option available is **Tools**. In the **Tools** category we can backup and restore configuration files, reset or reboot the camera, and perform a firmware update.

System

In the **System** section we can configure the following.

Click the **Backup** button to back the configuration of this camera up to a file that will be saved on the local computer.

Click the **Choose File** button to navigate to the backed up configuration file on the local computer and then click the **Restore** button to restore the configuration of this camera based on the settings saved on the backup configuration file.

Click the **Reset** button to restore the camera to its factory default settings. **Note:** All configurations that were done on this camera will be lost and the camera will return to its factory default configuration.

Click the **Reboot** button to simply reboot the camera.

Firmware Update

In the **Firmware** section we can view and configure the following.

FIRMWARE INFORMATION	
Current Firmware Version:	1.0.0
Current Firmware Build Number:	3216
Current MCU Firmware Version:	0x7
Current Agent Version:	2.075

FIRMWARE UPGRADE	
File Path: Choose File No file chosen	Upload

In the **Firmware Information** section, information regarding the current running firmware version will be displayed.

In the **Firmware Upgrade** section, click the **Choose File** button to navigate to the saved firmware file, located on the local computer, and then click the **Upload** button to upload that firmware to the camera. The camera will then use this firmware file to upgrade the firmware of the camera.

Note: To find the latest firmware available for this camera, visit the TRENDnet website.

Advanced

The next category option available is **Advanced**. In the **Advanced** category we view more detailed information about the camera as well as the system log.

TRENDNET   Megapixel Wireless Day/Night Pan/Tilt Camera
TV-IP662WI

Live View
Setup

Wizard
System
Network
Audio/Video
Action
Motion Detection
Sound Detection
Tools
Advanced
• Device Info
• Log

INFORMATION	
Camera Name	TV-IP662WI
Time & Date	2013/10 /21 15:37:45
Firmware Version	1.0.0
Firmware Build Number	3216
MAC Address	D8:EB:97:D2:2A:AD
IPv4 Address	192.168.10.30
IPv4 Subnet Mask	255.255.255.0
IPv4 Default Gateway	192.168.10.1
IPv4 Primary DNS	
IPv4 Secondary DNS	
Search Domain	
IPv6 Address/Prefix Length	fe80::daeb:97ff:fed2:2aad/64
IPv6 Default Gateway	
IPv6 Primary DNS	
IPv6 Secondary DNS	
PPPoE Status	Disabled
DDNS Status	Disabled

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Device Info

In the **Information** section we can view more detailed information about the camera's configuration.

INFORMATION	
Camera Name	TV-IP662WI
Time & Date	2013/10 /21 15:39:52
Firmware Version	1.0.0
Firmware Build Number	3216
MAC Address	D8:EB:97:D2:2A:AD
IPv4 Address	192.168.10.30
IPv4 Subnet Mask	255.255.255.0
IPv4 Default Gateway	192.168.10.1
IPv4 Primary DNS	
IPv4 Secondary DNS	
Search Domain	
IPv6 Address/Prefix Length	fe80::daeb:97ff:fed2:2aad/64
IPv6 Default Gateway	
IPv6 Primary DNS	
IPv6 Secondary DNS	
PPPoE Status	Disabled
DDNS Status	Disabled

Log

In the **Current Log** section we can view a list of system log entries that was generated based on events that occurred during the runtime of this camera.

CURRENT LOG
2013-10-21 15:42:54 Recording 20131021_154200D.avi at 2013/10/21 15:42:00 to SD Card is OK.
2013-10-21 15:45:00 Recording 20131021_154420D.avi at 2013/10/21 15:44:20 to SD Card is OK.
Clear   **Download**

Click the **Clear** button to remove all the log entries from the table.

Click the **Download** button export the log table to a text file and then save it to the local computer.
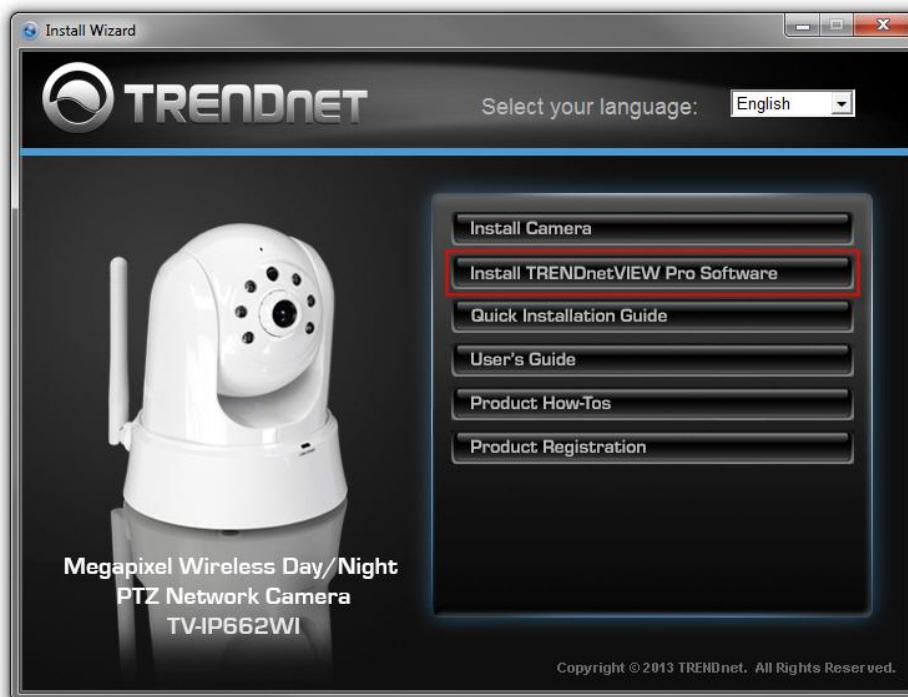
Knowledge Base

Install TRENDnetVIEW Pro Software[4]

Click **Autorun**.

Click on the link, **Install TRENDnetVIEW Pro Software**, to install it.
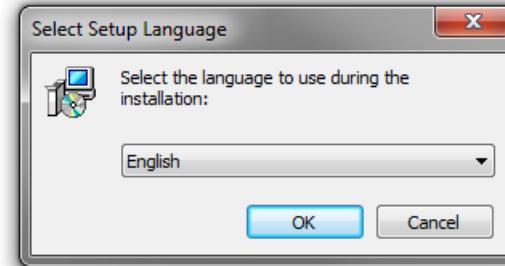
Using the proprietary-based configuration interface

This section describes the how to setup a camera using the TRENDnetVIEW Pro 2.0 camera monitoring software. To install TRENDnetVIEW Pro 2.0 on a system running Windows, launch the TRENDnetVIEW Pro 2.0 installation software on the installation CD-ROM and follow the setup instructions. Once the software is installed, the TRENDnet View Pro 2.0 camera monitoring utility is ready for use. Add up to 32 network cameras to monitor using the software. Additional software, TRENDnet IPView Pro Player software is also installed. The TRENDnetVIEW Pro 2.0 Player is used for playing recorded video from cameras that have been configured to save recorded files.

Running the Software
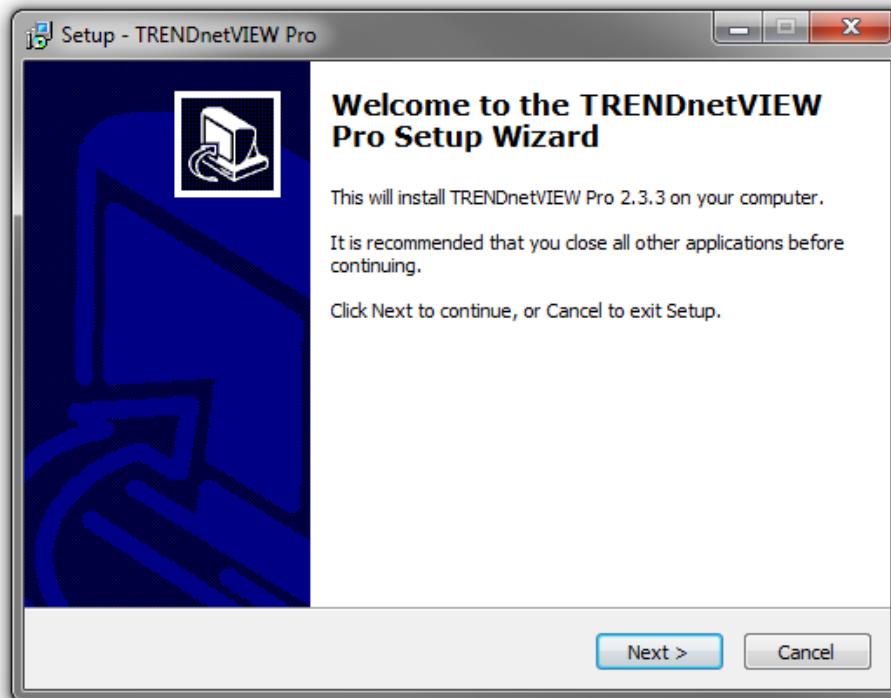
When the wizard starts, you have the option to select a language. The default is **English**.

Alternatively, there are 13 other languages to choose from. Select the one that best suits your needs.

---

[4] *Please refer to TRENDnetView Pro User Guide for a more detailed installation experience.*

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

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

How to setup/access the camera remotely

The Dynamic DNS connection can be configured on the camera itself or the home router. An account from any of the listed Dynamic DNS providers is required prior to this operation.

Configure Dynamic DNS on your Camera

1. Go to camera's **Dynamic DNS** page. Tick **Enable** to activate the feature. Then select a Dynamic DNS provider from the list. After selecting the Dynamic DNS provider, the domain name will be entered into the **Server Address** field.

2. Enter Dynamic DNS' Host Name, User Name and Password. Re-enter the password to confirm it.
3. Open the router's Web configuration page. (In the example, TRENDnet's TEW-651BR Wireless N router is used)

4. Go to **Access > Virtual Server** and select **Enable**. Enter the **Name** for the virtual server rule in the space provided. Select TCP as the **Protocol** option. Enter 80 as the **Private Port** and **Public Port** number. Enter the IP address of the camera in the **LAN Server** space provided. Click **Add** to add the rule.

Refer to the router's user manual for more detailed information about the Virtual Server. Some routers might use **Port Forwarding** or **Special applications** for this function. The setup steps should be very similar.

5. From a remote location the camera can now be accessed using the domain name instead of the IP address.

Configure Dynamic DNS on your router

Again, for this configuration we'll refer to the TEW-651BR TRENDnet router.

1. Login to your router's web configuration page.

2. Go to the **Main > Dynamic DNS** page and **Enable DDNS**. Select the Dynamic DNS provider from the **Server Address** drop-down list and enter the **Host Name**, **User Name**, and **Password** information in the spaces provided.

3. Go to **Access > Virtual Server** and select **Enable**. Enter the **Name** for the virtual server rule in the space provided. Select TCP as the **Protocol** option. Enter 80 as the **Private Port** and **Public Port** number. Enter the IP address of the camera in the **LAN Server** space provided. Click **Add** to add the rule.

Refer to the router's user manual for more detailed information about the Virtual Server. Some routers might use **Port Forwarding** or **Special applications** for this function. The setup steps should be very similar.

4. From a remote location the camera can now be accessed using the domain name instead of the IP address.

Technical Specifications

System	
General	**Network Processor** – Faraday SOC
	System ROM – 16MB Flash
	System RAM – 128MB DDR II
	Ethernet Interface - 10/100BaseT Port x1
	- Compliant to following standards
	-IEEE 802.3 compliance
	-IEEE 802.3u compliance
	-Support Full-Duplex operation
	-MDI/MDIX auto-negotiation
	-802.3x Flow Control support for Full-Duplex mode
	Power Supply - Input : 100 ~ 240 VAC, 0.5 A, 50 - 60 Hz
	-Output : DC 12V / 1 A
	- Power cord length: 1.5 meters
	Power Consumption - Max.10.5W / 12V @motor on and IR on
	Environment - Operation: Temp: 0℃ ~ 40℃ Humidity: 20% ~ 85% non-condensing Storage: Temp: -25℃ ~ 70℃ Humidity: 5% ~ 95% non-condensing
	Certification - FCC / CE class B / LVD / Anatel
Sensor and Lens	
Image Sensor	1/4" CMOS Sensor
Image resolution	1280x 800
F-Stop	F2.0
Focus Length	4.6mm
Sensitivity	1 lux@IR_LED Off (minimum)
	0 lux@IR_LED On
Focus Depth	20cm~Infinity
View Angle	Horizontal – 48.8°
	Vertical – 31.1°
	Diagonal – 57.8°

Image Processing	
Compression	H.264/MPEG4/MJPEG triple format compression simultaneously
Multi-profile	Support 4 video profiles simultaneously
Exposure Control	Auto
White Balance	Auto
Frequency	50 Hz
	60 Hz
Image size and frame rate	1280*800 mode /H.264
	- Max Resolution: 1280x800
	- Max frame rate: 30 fps
Audio	
Input – Internal Microphone	Yes
Input – Sensitivity	42dB +/- 3dB (5 Meters distance min.)
Input – Directivity	Omni-directional
Input – Frequency Response	50~16000Hz
S/N	More than 58 dB
Output Audio Output	Line Out
Two-way audio	Full Duplex
Audio Codec	PCM /ADPCM/AAC
Other	
Day/Night	Built-in ICR
IR LED	Built-in IR LED (Max up to 5 M)
I/O Connector	Micro SD slot *1 , Max support 32GB (SDHC class10)
Pan/Tilt	
Pan range	+165° ~ -165°
Tilt range	+90° ~ -25°

LED & Buttons	
Power LED	Color: Blue (Lighting when power on)
Link/act. LED	Color: Green (Lighting when LAN/WLAN is connected , Flashing when LAN/WLAN is transmitting video stream)
WPS LED	▪ Color: Green ▪ Push WPS button over 3 seconds and then release WPS button, and LED blinking 1 time/sec. -WPS success: Lighting and then reboot directly. -WPS Fail: blinking 5 times/ sec for 20 seconds and then reboot directly.
WPS button	Push button(more than 3 seconds) to enable Wi-Fi Protected Setup (WPS) function
Reset button	Push button for Factory reset
Wireless Interface	
Chipset Model	Ralink RT5370 11b/g/n
Host Interface	USB2.0 Chipset on board
IEEE 802.11b specification	
Standard	IEEE 802.11b
Radio and Modulation Type	DQPSK, DBPSK, DSSS, and CCK
Operating Frequency	2400 ~ 2483.5MHz ISM band
Channel Numbers	11 channels for United States 13 channels for Europe Countries
Data Rate	11, 5.5, 2, and 1Mbps
Media Access Protocol	CSMA/CA with ACK
Transmitter Output Power	Typical RF Output Power at each RF chain, Data Rate and at room Temp. 25degree C 17.5dBm(±2dB) at 1,2,5.5,11Mbps
Receiver Sensitivity	Typical Sensitivity at Which Frame (1000-byte PDUs) Error Rate =8% –92dBm at 1Mbps

	–91dBm at 2Mbps –90dBm at 5.5Mbps –89dBm for 11Mbps
IEEE 802.11g specification	
Standard	IEEE 802.11g
Radio and Modulation Type	BPSK, QPSK, 16QAM, 64QAM with OFDM
Operating Frequency	2400 ~ 2483.5MHz ISM band
Channel Numbers	11 channels for United States 13 channels for Europe Countries
Data Rate	6,9,12,18,24,36,48,54Mbps
Media Access Protocol	CSMA/CA with ACK
Transmitter Output Power	Typical RF Output Power (tolerance +-2dB) at each RF chain, Data Rate and at room Temp. 25degree C 17.5dBm at 6~12 Mbps 17.5dBm at 18 Mbps 17.5dBm at 24 Mbps 16.5dBm at 36 Mbps 15.5dBm at 48 Mbps 14.5dBm at 54 Mbps
Receiver Sensitivity	Typical Sensitivity at Which Frame (1000-byte PDUs) Error Rate =10% –90dBm at 6Mbps –88dBm at 9Mbps –86dBm at 12Mbps –83dBm at 18Mbps –81dBm at 24Mbps –78dBm at 36Mbps –76dBm at 48Mbps –74dBm at 54Mbps
IEEE 802.11n specification	
Standard	IEEE 802.11n
Radio and	BPSK, QPSK, 16QAM, 64QAM with OFDM

Modulation Type	
Operating Frequency	2400 ~ 2483.5MHz ISM band
Channel Numbers	11 channels for United States 13 channels for Europe Countries

Data Rate	From MCS0 to MCS7	
	MCS	GI-400ns / 20MHz
	0	7.2
	1	14.4
	2	21.7
	3	28.9
	4	43.3
	5	57.8
	6	65.0
	7	72.2

Media Access Protocol	CSMA/CA with ACK
Transmitter Output Power	• Typical RF Output Power (tolerance +-2dB) at each RF chain, Data Rate and at room Temp. 25degree C • HT20 • 14.5dBm at MCS0~MCS7

Receiver Sensitivity	• Typical Sensitivity at Which Frame (1000-byte PDUs) Error Rate =10%
	• HT20
	  –88dBm at MCS0
	  –84dBm at MCS1
	  –81dBm at MCS2
	  –78dBm at MCS3
	  –74dBm at MCS4
	  –72dBm at MCS5
	  –70dBm at MCS6
	  –67dBm at MCS7

Antenna Specification	•
Antenna	• Dipole Antenna
Gain	• 2 dBi (max.)

Operating Frequency	• 2.4~2.5Ghz
	•

Firmware Specification

OS	Linux 2.6

Live Video (IE)	• Video Profile : Profile1, Profile2 Profile3 and Profile4
	• Manually Snapshot, Manually Recording, Set Storage Folder
	• Listen/Stop Listening, Talk/ Stop Talking
	• Language selection: English, German, Spanish, Russian, and French
	• IR_LED On/Off (When "Day/Night Mode setting" is "Manual IR" mode)
	• Digital Zoom in /Zoom out control
	• Indicator
	  1. Motion Trigger Indicator
	  2. Recording Indicator

Live Video (Non-IE)	• Video Profile : Profile1, Profile2 Profile3 and Profile4
	• Manually Snapshot, Manually Recording, Set Storage Folder
	• Listen/Stop Listening, Talk/ Stop Talking
	• Language selection: English, German, Spanish, Russian, and French
	• IR_LED On/Off (When "Day/Night Mode setting" is "Manual IR" mode)
	• Digital Zoom in /Zoom out control
	• Indicator
	  1. Motion Trigger Indicator
	  2. Recording Indicator

Digital Zoom	4x
Setup wizard	This wizard will guide you through a step-by-step process to configure your new IP Camera and connect the camera to the internet.

Network setting	• LAN Settings
	  1. Automatic IP Address
	  2. Static IP Address (Default IP:192.168.10.30)
	  3. PPPoE :Enable/Disable
	    ▪ User Name
	    ▪ Password
	    ▪ Confirm password
	• Port Settings
	  1. HTTP Port(default is 80)
	  2. RTSP Port(default is 554)
	• UPnP

	1. UPnP :Enable/Disable 2. UPnP Port Forward :Enable/Disable ▪ External HTTP port(default is 80) ▪ External RTSP port(default is 554) • Apple Bonjour :Enable/Disable			• Reset to Default
Dynamic DNS setting	• Enable/ Disable 1. Server Address 2. Host Name 3. User name 4. Password 5. Confirm Password 6. Timeout 7. Status	**Video Profiles setting**		• Video Profile 1 mode 1. Encode Type: H.264/MPEG4 2. Resolution Type:1280x720, 640x352, 320x176, 160x80 3. Max Frame Rate: H.264@30fps , MPEG4@30fps 4. Fixed Bit Rate: 64K, 128K, 256K, 384K, 512K, 768K, 1M, 1.5M, 2M, 3M, 4M (H.264/MPEG4 only) 5. RTSP Default URL is http://IP_Cam_IP/play1.sdp • Video Profile 2 mode 1. Encode Type: H.264/MPEG4 2. Resolution Type: 640x352, 320x176, 160x80 3. Max Frame Rate: 30fps 4. Fixed Bit Rate: 64K, 128K, 256K, 384K, 512K, 768K, 1M, 1.5M, 2M, 3M, 4M (H.264/MPEG4 only) 5. RTSP Default URL is http://IP_Cam_IP/play2.sdp • Video Profile 3 mode 1. Encode Type: JPEG 2. Resolution Type: 1280x720, 640x352, 320x176, 160x80 3. Max Frame Rate: 1280x720@5fps, 640x352/320x176/160x80@30fps 4. JPEG Quality: Low, Fair, Standard, Good, Excellent (JPEG only) 5. RTSP Default URL is http://IP_Cam_IP/play3.sdp • Video Profile 4 mode 1. Encode Type: H.264/MPEG4 2. Resolution Type: 640x352, 320x176, 160x80 3. Max Frame Rate: 30fps 4. Fixed Bit Rate: 64K, 128K, 256K, 384K, 512K, 768K, 1M, 1.5M, 2M, 3M, 4M (H.264/MPEG4 only) 5. RTSP Default URL is http://IP_Cam_IP/3gpp
Network Protocols support	• IPv4 , IPv6 ,ARP, TCP, UDP, ICMP • DHCP Client • NTP Client • DNS Client • DDNS Client • SMTP Client • FTP Client • HTTP Server • UPnP Port Forwarding • PPPoE • LLTD • RTP (Real Time Protocol) • RTCP (Real Time Control Protocol) • RTSP (Real Time Streaming Protocol) • 3GPP • SAMBA Client			
		Audio setting		• Speaker: -Enable/ Disable -Volume adjustable: 0 ~ 100 • Microphone: -Enable/ Disable -Volume adjustable: : 0 ~ 100
Image setting	• Brightness (0 ~100) • Saturation (0 ~100) • Contrast (0 ~100) • Hue (0~100) • Black/White mode • Mirror (Enable/Disable) • Flip(Enable/Disable) • Frequency: 60Hz ,50Hz and Auto • White balance: Auto/ Disable • Slow Shutter: Disable, 1/15s, 1/10s, 1/7.5s, 1/3.75s	**3GPP support**		• Audio codec: AAC • Video codec/MPEG4 • Protocols / RTSP, RTP, RTCP
		System Time setting		• Time Configuration

	1. Time Zone Setting 2. Daylight Saving: Enable/ Disable -Auto Daylight Saving -Set date and time manually • Automatic Time Configuration 1. Synchronize with NTP Server • Set Date and Time manually manually setting/ Copy your PC's Time settings
Recording	• Enable/ Disable 1. Trigger Event: -Always -Motion Detection ▪ Only during ▪ Pre-event recording: Default is 5 seconds(between 0 to 5 seconds) ▪ Post-event recording: Default is 5 seconds(between 0 to 60 seconds) -Sound Detection ▪ Only during ▪ Pre-event recording: Default is 5 seconds(between 0 to 5 seconds) ▪ Post-event recording: Default is 5 seconds(between 0 to 60 seconds) -Scheduled 2. Recording Type ▪ Snapshot -Source:Profiles3 ▪ Video -Source:Profiles1, 2 and 4(Default is Profile2) 3. Record to: -Micro SD card -Samba network device
Video Clip setting	• Enable/ Disable 1. Trigger Event: -Always -Motion Detection • Scheduled -Sound Detection

	• Scheduled -Scheduled 2. Video Clip Type - Source: Profiles1, 2 and 4(Default is Profile2) -Pre-event recording (Between 0~5 seconds) -Maximum duration (Between 5~10 seconds) 3. Target : -FTP Server ▪ FTP Server IP address and port number ▪ User Name ▪ Password ▪ Path ▪ Filename Prefix ▪ Interval: Between 60~86400 seconds(for Schedule and Always) ▪ Send next FTP after (for Motion only) ▪ Passive Mode: Enable/Disable -E-mail Address ▪ Recipient E-mail Address ▪ SMTP Mail Server ▪ Port ▪ User Name ▪ Password ▪ Sender E-mail Address ▪ Interval: Range :60 to 86400 seconds(for Schedule and Always) ▪ Send next E-mail after(for Motion and Sound) ▪ Use SSL-TLS - Test
Snapshot setting	• Enable/ Disable 1. Trigger Event: -Always -Motion Detection ▪ Scheduled -Sound Detection • Scheduled -Scheduled 2. Snapshot Type -Source:Profiles3

	-Single snapshot
	-6 snapshot with 1 or 2 second interval
	   ▪ 3 frames before and 3 frames after motion frame
	3. Target :
	-FTP Server
	   ▪ FTP Server IP address and port number
	   ▪ User Name
	   ▪ Password
	   ▪ Path
	   ▪ Filename Prefix
	   ▪ Interval: Between 60~86400 seconds(for Schedule and Always)
	   ▪ Send next FTP after (for Motion and Sound)
	   ▪ Passive Mode: Enable/Disable
	-E-mail Address
	   ▪ Recipient E-mail Address
	   ▪ SMTP Mail Server
	   ▪ Port
	   ▪ User Name
	   ▪ Password
	   ▪ Sender E-mail Address
	   ▪ Interval: Range :60 to 86400 seconds(for Schedule and Always)
	   ▪ Send next E-mail after(for Motion and Sound)
	   ▪ Use SSL-TLS
	Test

Motion detection	• Enable/ Disable: Video Motion 1. Sensitivity: Range 0~100 Drawing Mode: Draw motion area/ Erase motion area
Sound Detection	Enable/ Disable Detection Sensitivity: Range 50~100

Maintenance-Admin setting	• Admin password setting
	• Add User account: 20 users maximum
	• User List: Delete
	• Authentication
	  1. RTSP Authentication : Enable/Disable
	  2. HTTP Authentication : Enable/Disable
	  3. Snapshot URL authentication : Enable/Disable
	• Device setting
	  1. Camera Name

	2. OSD: Enable/ Disable
	     -Label
	     -Time Stamp : Enable/ Disable
	3. LED light
	     -Power/Link
	     -Off
	     -Blinking

Backup and restore Setting	• Save to local hard drive • Load from local hard drive • Restore to factory defaults • Reboot Device

Firmware upgrade	• Firmware information
	  1. Current firmware Version
	  2. Current product name
	Firmware upgrade

System log	•512 items (max) stored on the Flash drive • Clear system log • Download from device
System Management	• Web Based Administration • NIPCA support • ONVIF profile S
RESET Function	• Keep the RESET button pressed for at least 6 second to reset all configurations to factory default values. • When factory reset processing, Power LED and Link LED have switch lighting.
Browser	• Internet Explore Version 9 above • Firefox 13.0 or above • Safari 4.0 or above • Google Chrome 24 or above

WLAN setting	• Wireless : Enable/Disable (Default is "Enable")
	• Network Name(SSID): (Default is "TRENDnet")
	• Site Survey
	• Wireless Mode: Infrastructure / Ad-hoc
	• Security Mode: None /WEP /WPA-PSK /WPA2-PSK
	• Authentication:
	  1. WEP 64/128 bits
	  2. WPA-PSK (TKIP/AES) (Infrastructure support only)
	  3. WPA2-PSK (TKIP/AES) (Infrastructure support only)
	• Show Hidden Key

	• Channel (Ad-hoc support only)	
	WPS Support	
Day/Night Mode setting	• Auto • Manual IR • Always day mode • Always night mode • Schedule	
Software Specifications		
OS	Windows XP/Vista/7 (32/64bit platform)	
AutoRun	Installation	One is Executable format, another can install to PC from CD-ROM
	Setting Items	• Search and list IP camera • Suggestion IP address function • IP mode • Wireless setting
API (SDK)	Uniform interface	
CGI	Uniform interface	
Mobile App Specification		
OS Support	• Apple iOS 5 or above • Android™ 2.3 or above.	
Zoom in/ out	Pinch to control	

Troubleshooting

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

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

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

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

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

3. **The camera can be accessed locally but not remotely.**

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

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

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

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

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

    shaded area immediately as prolonged exposure to bright lights will damage the CMOS sensor.

5. **The camera images are 'noisy'.**

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

6. **The camera images are of poor quality.**

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

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

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

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

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

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

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

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

以下警語適用台灣地區

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得

擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾

cs Česky [Czech]	TRENDnet tímto prohlašuje, že tento TV-IP862IC je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
da Dansk [Danish]	Undertegnede TRENDnet erklærer herved, at følgende udstyr TV-TV-IP862IC overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt TRENDnet, dass sich das Gerät TV-IP862IC 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-IP862IC vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, TRENDnet, declares that this TV-IP862IC is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
es Español [Spanish]	Por medio de la presente TRENDnet declara que el TV-IP862IC cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
el Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ TRENDnet ΔΗΛΩΝΕΙ ΟΤΙ TV-IP862IC ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
fr Français [French]	Par la présente TRENDnet déclare que l'appareil TV-IP862IC est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente TRENDnet dichiara che questo TV-IP862IC è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo TRENDnet deklarē, ka TV-IP862IC atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem

	noteikumiem.
Lietuvių [Lithuanian]	Šiuo TRENDnet deklaruoja, kad šis TV-IP862IC atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
nl Nederlands [Dutch]	Hierbij verklaart TRENDnet dat het toestel TV-IP862IC 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-IP862IC jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
hu Magyar [Hungarian]	Alulírott, TRENDnet nyilatkozom, hogy a TV-IP862IC megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.
pl Polski [Polish]	Niniejszym TRENDnet oświadcza, że TV-IP862IC jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
pt Português [Portuguese]	TRENDnet declara que este TV-IP862IC está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
sl Slovensko [Slovenian]	TRENDnet izjavlja, da je ta TV-IP862IC v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	TRENDnet týmto vyhlasuje, že TV-IP862IC spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi Suomi [Finnish]	TRENDnet vakuuttaa täten että TV-IP862IC tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
sv Svenska [Swedish]	Härmed intygar TRENDnet att denna TV-IP862IC 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-IP862IC – 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-of-purchase for their return policies.

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

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