

# TRENDnet<sup>®</sup>



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Quick Installation Guide  
TEW-740APB0

# Table of Content

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## **1 English**

1. Before You Start
2. Hardware Configuration
3. Hardware Installation

# 1. Before You Start

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## Package Contents

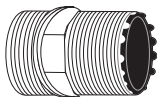
- TEW-740APB0
- CD-ROM (User's Guide)
- Quick Installation Guide
- Proprietary PoE injector
- Power adapter (48 V DC, 0.5 A)
- Mounting Hardware
- Waterproof RJ-45 plug (network cable is not included)
- Grounding wire

## Minimum Requirements

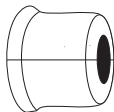
- Computer with a network port and web browser
- A network switch or router with an available network LAN port
- 2 x RJ-45 network cables (sold separately)
- Phillips screwdriver (sold separately)

### **Note:**

1. The TEW-740APB0 does not support IEEE 802.3at/af. You must use the proprietary Power over Ethernet injector that is supplied with the TEW-740APB0.
2. Check package contents for waterproof kit (network cable is not included).



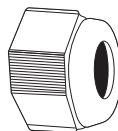
Cable Gland



Seal



Claw



Sealing Nut

## 2. Hardware Installation

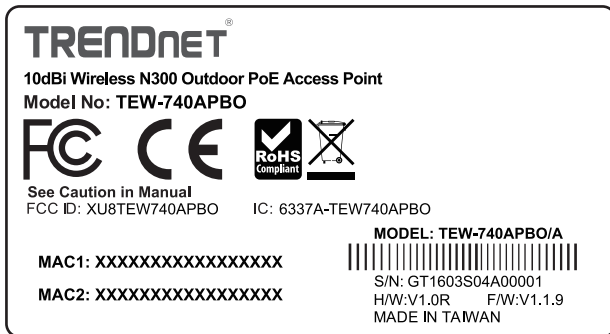
**Note:** The default IP address of the TEW-740APBO is 192.168.10.100. To configure the TEW-740APBO, your network adapter must have an IP address within the 192.168.10.x subnet (e.g. 192.168.10.50). Please refer to the Appendix in the User's Guide for more information.

### Phase 1: Overview

1. Write the MAC address (MAC1) of the two TEW-740APBOs. The MAC address (MAC1) can be found on the side of the unit. In this example, we will assume the following:

TEW-740APBO #1 MAC Address: 00:11:22:00:00:11

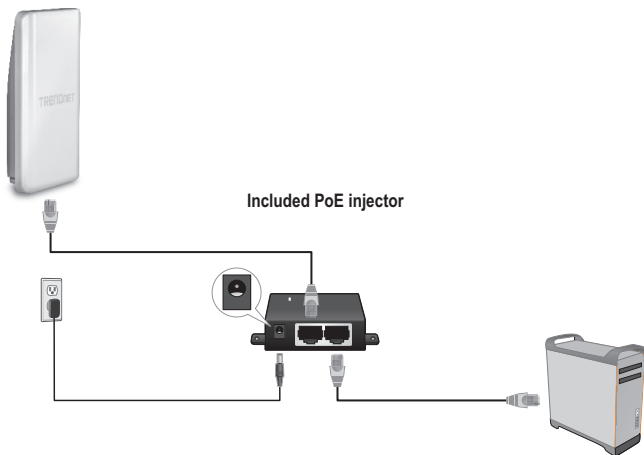
TEW-740APBO #2 MAC Address: 00:11:22:00:11:22



## WDS Setup

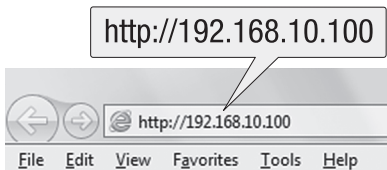
### Note:

1. The initial configuration should be completed in a testing environment with two TEW-740APBO's approximately 15 ft. (5 meters) apart from one another.
2. Configure and connect the devices before mounting.



1. Connect one end of a network cable into TEW-740APBO #1.
2. Connect the opposite end of the network cable to the **P+DATA OUT** port on the Power over Ethernet Injector.
3. Connect one end of another network cable to the **10/100 DATA IN** port on the Power over Ethernet Injector.
4. Connect the other end of a network cable to your computer's Ethernet port.
5. Connect the power adapter into the Power over Ethernet Injector. Then connect the power adapter into a power outlet. (EU models have an on/off switch. Please move the power switch to the "On" position).
6. Assign a Static IP address to your computer's network adapter in the subnet of 192.168.10.x (e.g. 192.168.10.50) and a subnet mask of 255.255.255.0.

- Open your web browser, type the IP address of the access point in the address bar, and then press Enter. The default IP address is 192.168.10.100



- Power on the outdoor access point.
- Login to the browser configuration page.
- Change the administrator password.
- Assign a valid IP address to the access point within the subnet defined by the router. Avoid using an IP address within the DHCP pool of your router. In this example, we will assume the following:

Router IP Address: 192.168.10.1

Subnet Mask: 255.255.255.0

DHCP Pool: 192.168.10.100~192.168.10.149

The TEW-740APB0 will be setup with the following IP address assignment:

TEW-740APB0 #1

IP Address: 192.168.10.50

IP Netmask (Subnet Mask): 255.255.255.0

IP Gateway (Gateway IP Address): 192.168.10.1

Primary DNS: 192.168.10.1

TEW-740APB0 #2

IP Address: 192.168.10.51

IP Netmask (Subnet Mask): 255.255.255.0

Gateway IP Address: 192.168.10.1

Primary DNS: 192.168.10.1

- Enable WDS mode.
- Enable WPA2-PSK AES encryption and configure a wireless password for the access point.
- Enter the MAC address of the other outdoor access point.
- Repeat the process for the second outdoor access point.

16. Confirm connectivity between the two access points.

17. Enter the default username and password, and then click **Log In**.

**Note:** For first time installation, you are required to change the admin password.

User Name: admin

Password: admin

**Note:** Username and password are case sensitive.

Authentication Required

The server http://192.168.10.100 requires a username and password. The server says: TEW-740APBO

User Name:

Password:

Log In Cancel

Log In

18. Enter a new admin password.

19. Confirm the new password.

20. Click **Save**.

Password Setup

admin Password

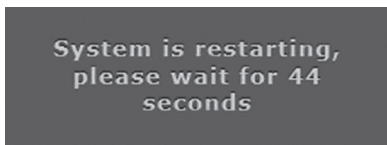
New admin Password:

Check admin Password:

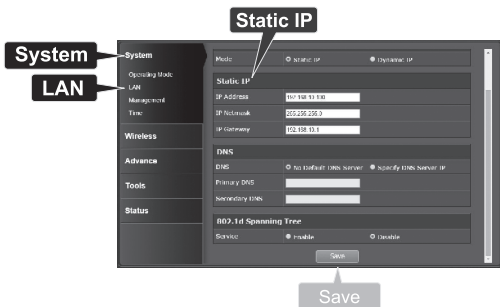
Save

Save

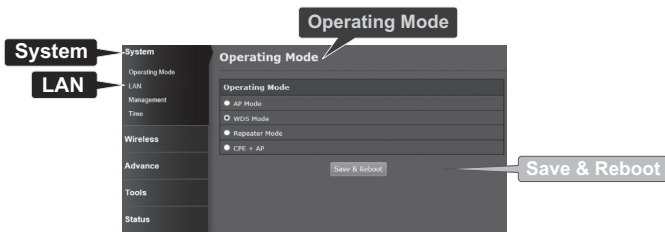
21. Please wait while the access point reboots.



22. Enter your new username and the new password, and then click **Log In**.
23. Click **System** → **LAN**.
24. Select **Static IP**.
25. Configure the IP address, IP Netmask, and IP Gateway based on the example in Phase 1: Overview.
26. Select **Specify DNS Server IP**.
27. Configure the Primary DNS based on the example in Phase 1: Overview.
28. Click **Save**.



29. Click **System** → **Operating Mode**.
30. Select WDS Mode and then click **Save & Reboot**.



31. Please wait while the access point reboots.

System is restarting,  
please wait for 50  
seconds



32. Enter the username and password, and then click **Log In**.

The image shows a dialog box titled "Authentication Required" with a close button (X) in the top right corner. The text inside reads: "The server http://192.168.10.100 requires a username and password. The server says: TEW-740APB0". Below the text are two input fields: "User Name:" and "Password:". A callout box labeled "User Name:" points to the first input field, and another callout box labeled "Password:" points to the second input field. At the bottom of the dialog are two buttons: "Log In" and "Cancel". A separate callout box labeled "Log In" points to the "Log In" button.

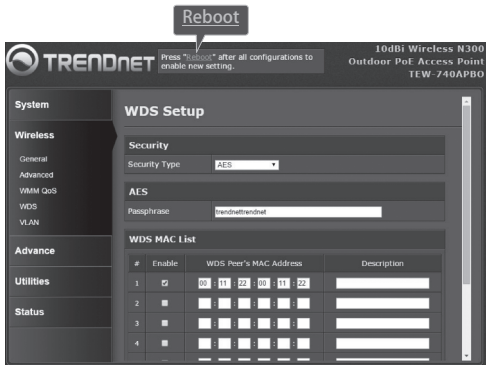
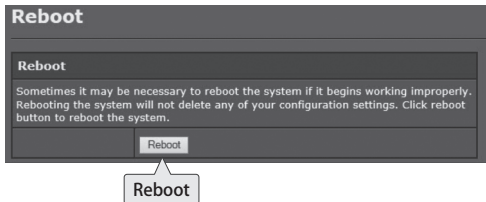
33. Click **Wireless** → **WDS**.

**Note:** To protect your network from any unauthorized access it is recommended to enable wireless encryption.

34. Enter the MAC address of the other access point. The below configuration will be based on the example in Phase 1: Overview.

The image displays two screenshots from a network configuration interface. The top screenshot is the "WDS Setup" page. On the left, a sidebar menu has "Wireless" and "WDS" highlighted. The "WDS Setup" page has a "Security" section with "Security Type" set to "AES" and an "AES" section with a "Passphrase" field containing "password". Callouts point to "Wireless", "WDS", "AES", and "password". The bottom screenshot is the "WDS MAC List" page. The "Wireless" sidebar menu is highlighted. A checkmark icon is placed over the "Enable" checkbox in the first row of the table. The table has columns for "#", "Enable", "WDS Peer's MAC Address", and "Description". The first row contains the MAC address "00 11 02 00 11 02". A "Save" button is at the bottom, with a callout pointing to it.

#	Enable	WDS Peer's MAC Address	Description
1	<input checked="" type="checkbox"/>	00 11 02 00 11 02	
2	<input type="checkbox"/>		
3	<input type="checkbox"/>		
4	<input type="checkbox"/>		
5	<input type="checkbox"/>		
6	<input type="checkbox"/>		
7	<input type="checkbox"/>		
8	<input type="checkbox"/>		

35. Click **Reboot**.36. Click **Reboot**.

## 37. Repeat steps 2-27 for TEW-740APB0 #2.

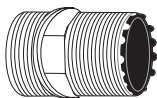
**Phase 3: Confirm Connectivity**

1. Leave TEW-740APB0 #2 connected to your computer.
2. Connect TEW-740APB0 #1 to a LAN port of a router on your network.
3. To verify connectivity, run your computer's command prompt and ping TEW-740APB0 #1's assigned IP address from your computer.
4. A successful ping reply determines that both TEW-740APB0s are configured properly and connected.

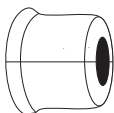
### 3. Hardware Installation

#### Waterproof kit installation

1. Unscrew the sealing nut from the main body.
2. Separate the rubber seal from the claw.
3. Verify that you have the following parts: Cable Gland, Seal, Claw, Sealing Nut



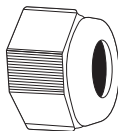
Cable Gland



Seal

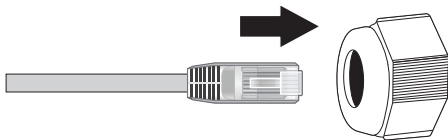


Claw

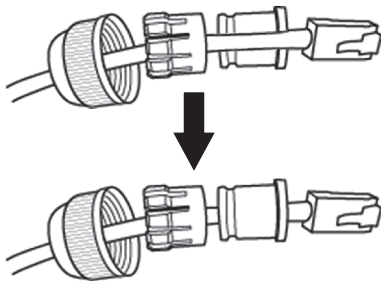


Sealing Nut

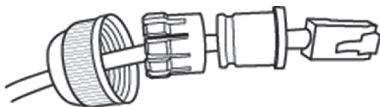
4. Insert one end of an Ethernet cable into the sealing nut.



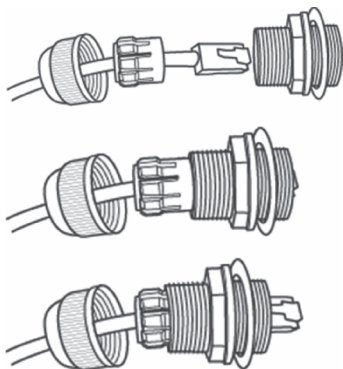
5. Insert the Ethernet cable into the seal.



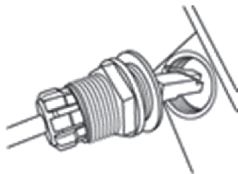
6. Insert the seal into the claw.



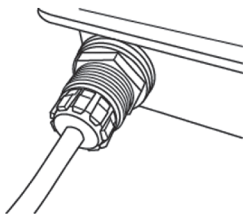
7. Insert the seal/rubber claw into the Cable Gland.



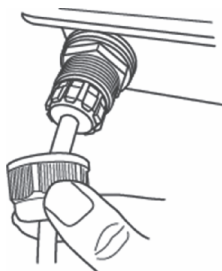
8. Connect the Ethernet cable to the PoE port on the bottom of the TEW-740APB0.



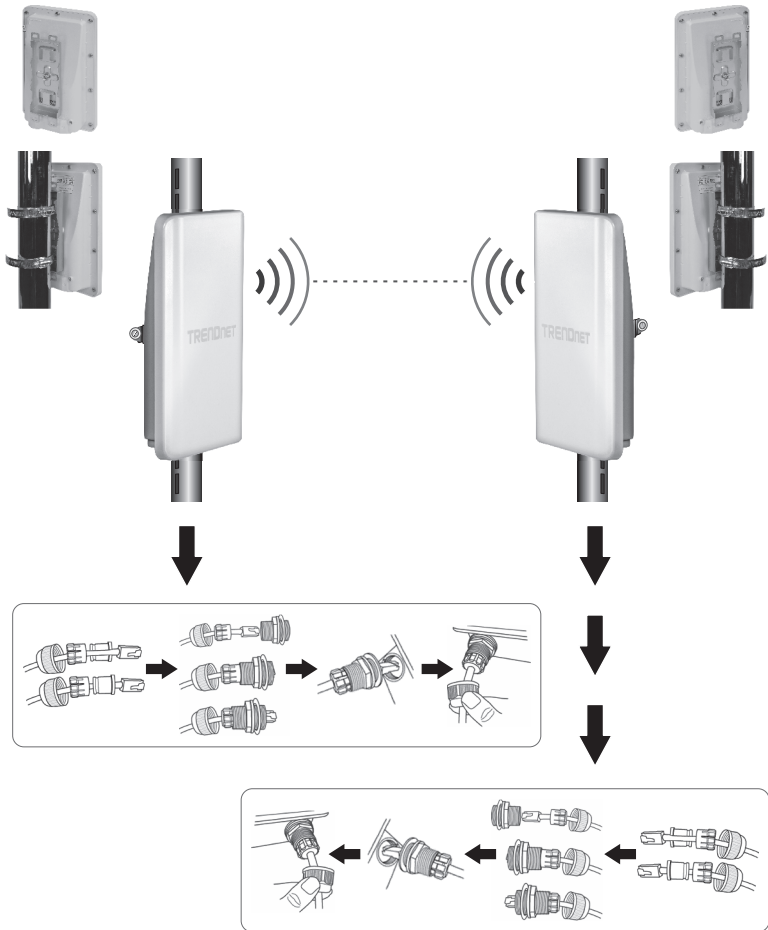
9. Fasten the plug to the housing of the TEW-740APB0.

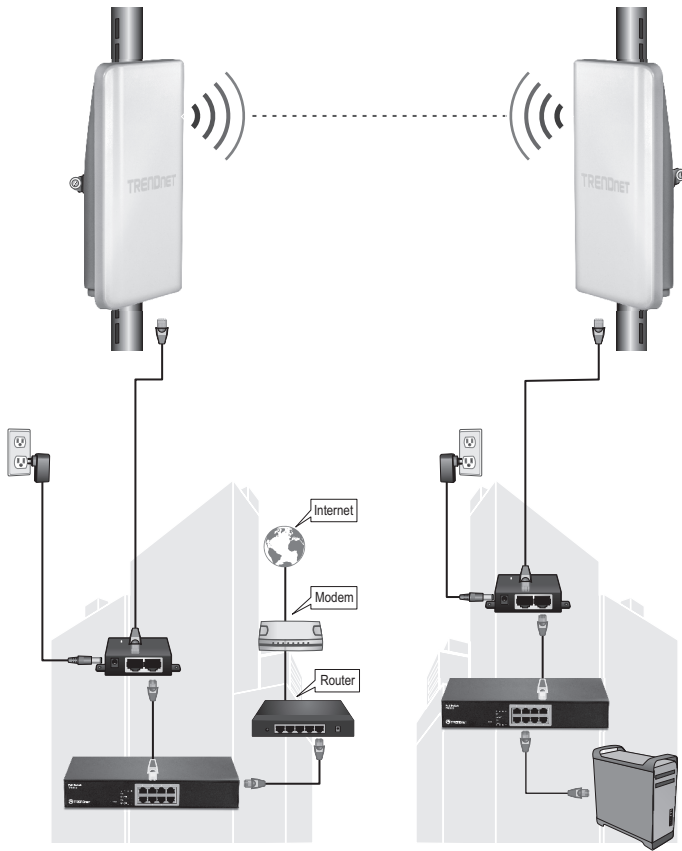


10. Fasten the cap to the weatherproof plug.



## Point-to-Point (WDS Bridge) Installation

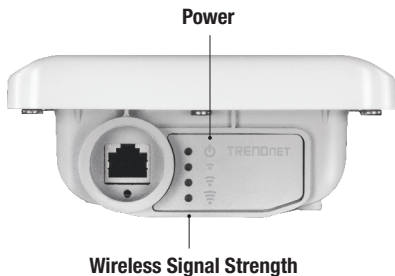




Building 1

Building 2

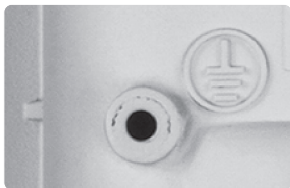
1. Refer to the above diagram.
2. Mount the TEW-740APB0s in your desired location. (See pole mounting the TEW-740APB0 for mounting instructions).
3. Connect the TEW-740APB0s to their respective network.
4. Confirm that the TEW-740APB0s are facing each other.
5. Verify that the status LED indicators on both TEW-740APB0s are fully functional: **PWR [Power] (Green / Solid), Wireless Signal Strength (Blinking / Green).**



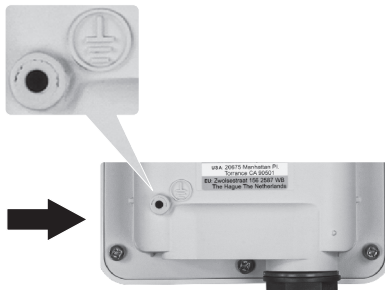
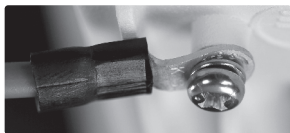


## Connecting the Grounding Wire

1. Identify the grounding hole on the outdoor access point. You will see a symbol next to the hole.



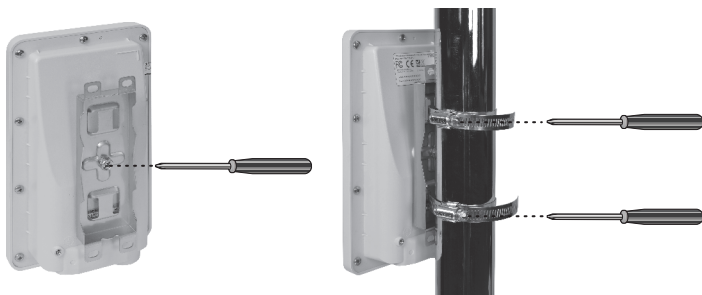
2. Align one end of the grounding wire over the hole. Then secure grounding wire with the provided screw and washer.
3. Connect the green grounding wire to a grounding object.  
e.g. Earth Driven rod, Grounded Electrical System, Building Frame.



## **Pole mounting the TEW-740APB0**

**Note:** The pole mounting clamp supports poles with a maximum diameter of 101 mm (3.98 inches).

1. Align the mounting bracket with the hole on the unit and secure it with the M6x8 screw and washer provided.
2. Slide the two provided pole mounting clamps around the pole. Place the mounting bracket at the desired height and position.
3. Secure the TEW-740APB0 to the pole mounting bracket using the mounting clamp screws.



4. Adjust the orientation of the access point as necessary.



# Declaration of Conformity

TRENDNET<sup>®</sup>

## Manufacturer's Name and Address

TRENDnet, Inc.  
20675 Manhattan Place  
Torrance, CA 90501 USA



## Product Information:

**Model Number:** TEW-740APBO  
**Product Name:** 10dBi Wireless N300 Outdoor PoE Access Point  
**Trade Name:** TRENDnet

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

## Safety

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

## EMC

EN 301 489-1 V1.9.2: 09-2011  
EN 301 489-17 V2.2.1: 09-2012  
EN 55022: 2010 + AC: 2011  
EN 55024: 2010

## Radio Spectrum & Health

EN 300 328 V1.8.1: 06-2012

This product is herewith confirmed to comply with the Directives.

## Directives:

Low Voltage Directive 2006/95/EC and 2014/35/EU  
EMC Directive 2004/108/EC and 2014/30/EU  
R&TTE Directive 1999/5/EC  
RoHS Directive 2011/65/EU  
REACH Regulation (EC) No. 1907/2006

## Note:

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

Person responsible for this declaration.

Place of Issue: Torrance, California, USA

Date: April 12, 2016

Name: Sonny Su

Title: Director of Technology

Signature:

A handwritten signature in black ink, appearing to read 'Sonny Su', is written over a horizontal line.

## Limited Warranty

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

## Garantie Limitée

TRENDnet garantit ses produits contre les problèmes de matériel ou de fabrication, dans des conditions normales d'utilisation et de service. Les périodes de garanties précises sont mentionnées sur chacun des pages produits du site web de TRENDnet.

## Eingeschränkte Garantie

TRENDnet gewährt eine Garantie für seine Produkte im Falle von Material- und Bearbeitungsdefekten, bei normaler Verwendung und Wartung. Spezielle Garantiezeiträume werden auf jeder Produktseite auf der Website von TRENDnet genannt.

## Garantía limitada

TRENDnet garantiza que sus productos carecen de defectos en el material y la fabricación, en condiciones de uso y funcionamiento normales. Los periodos específicos de garantía figuran en cada una de las páginas de producto del sitio web de TRENDnet.

## Ограниченная гарантия

Компания TRENDnet предоставляет гарантию на свои изделия от дефектов материалов и сборки при нормальном использовании и обслуживании. Конкретные гарантийные сроки указаны на странице каждого продукта на сайте компании TRENDnet.

## Garantia Limitada

A TRENDnet garante seus produtos contra defeitos de material e mão de obra sob condições normais de uso e serviço. Os períodos de garantia específicos estão listados em cada uma das páginas dos respectivos produtos no site da TRENDnet.

## Piiratud garantii

TRENDneti garantii hõlmab materjali- ja koostamisdefekte, mis ilmnevad toote tavapärasel kasutamisel. Garantiiaja täpne pikkus konkretse toote puhul on leitav TRENDneti kodulehelt vastava toote infolehel.

## Garanzia limitata

TRENDnet garantisce i propri prodotti da difetti di materiali e manodopera, in condizioni di normale uso ed esercizio. I periodi di garanzia specifici sono elencati sulle rispettive pagine di prodotto sul sito TRENDnet.

## Safety notes



Before using your TRENDnet device for the first time, it is essential to read and understand all safety and operating instructions. Keep instructions in a safe place for future reference.

Some TRENDnet products are rated for outdoor applications and can sustain certain weather conditions.

Please refer to the product's Ingress Protection (IP) rating and the operating humidity and temperature range.

### **DANGER due to electricity**

Warning: Never open TRENDnet devices. Doing so poses the risk of electric shock!

The device is voltage free only when unplugging from the mains power supply.

No physical maintenance of TRENDnet devices is required.

If damage occurs, disconnect the TRENDnet device from the power outlet and contact a qualified technician **ONLY**.

Damage is defined as:

- if the power cable/plug is damaged
- if the device has been submerged in liquid (e.g. rain or water; except products that are rated for outdoor applications)
- if the device is inoperable
- if there is damage to the housing of the device

Only operate TRENDnet devices using a mains power supply.

To disconnect devices from the mains supply, remove the device itself or its mains plug from the power outlet. The power outlet and all connected network devices should be easily accessible so that you can pull the mains plug quickly if needed.

TRENDnet devices are designed for indoor use only and in a dry location (except those that are rated for outdoor applications)

To clean a TRENDnet device, disconnect it from the mains supply first and only use a dry towel.

### **DANGER due to overheating**

Never expose TRENDnet devices to extreme heat (e.g. direct sunlight, fire, or other heat sources). For outdoor rated products, please install the product in an environment that is within the product's operating temperature and humidity range.

Do not interlock multiple TRENDnet devices.

Only install TRENDnet devices in locations with adequate ventilation (slots and openings on the housing are used for ventilation).

- Do not cover TRENDnet devices when operating.
- Do not place any objects on TRENDnet devices.
- Do not insert any foreign objects into the openings of TRENDnet devices.
- Do not place TRENDnet devices next to an open flame (e.g. fire or candles).
- Do not expose TRENDnet devices to direct heat (e.g. radiator or direct sunlight).

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## Certifications

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.
- (2) This device must accept any interference received.

Including interference that may cause undesired operation.



Waste electrical and electronic products must not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or Retailer for recycling advice.

Applies to PoE Products Only: This product is to be connected only to PoE networks without routing to the outside plant.

## Note

The Manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

## Advertencia

En todos nuestros equipos se mencionan claramente las características del adaptador de alimentación necesario para su funcionamiento. El uso de un adaptador distinto al mencionado puede producir daños físicos y/o daños al equipo conectado. El adaptador de alimentación debe operar con voltaje y frecuencia de la energía eléctrica domiciliar existente en el país o zona de instalación.

## Technical Support

If you have any questions regarding the product installation, please contact our Technical Support.

Toll free US/Canada: **1-866-845-3673**

Regional phone numbers available at [www.trendnet.com/support](http://www.trendnet.com/support)

## TRENDnet

20675 Manhattan Place  
Torrance, CA 90501  
USA

## Product Warranty Registration

Please take a moment to register your product online. Go to TRENDnet's website at:

**[www.trendnet.com/register](http://www.trendnet.com/register)**