

# TRENDNET®



## Quick Installation Guide

### PoE Unmanaged Industrial Switch (V1.1)

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1. Before You Start
2. Quick Reference
3. Hardware Installation and Configuration

<https://www.trendnet.com/qig/1260>



# 1. Before You Start

## •Package Contents

- TI-BG104 / TI-PE50 / TI-PE80 / TI-PG102 / TI-PG160 / TI-PG162 / TI-PG262 / TI-PG50 / TI-PG62 / TI-PG62B / TI-PG80 / TI-PG80B / TI-UPG62 (V1.0R) / TI-UPG62 (V2.0R)
- Quick Installation Guide
- Removable terminal block
- DIN-Rail mount
- Wall mount kit

## •Minimum Requirements

- Existing network
- Power Supply

PoE+ Unmanaged Industrial Switch Model PoE Power Budget / DC Input Requirement.

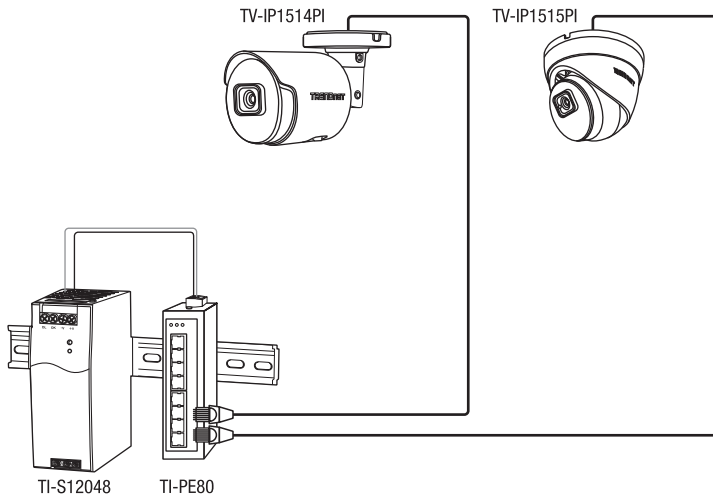
Switch Model	Switch Power Consumption (No PoE Load)	PoE Power Budget	DC Input Voltage Range
TI-BG104	6.2W	360W	48 – 56V
TI-PE50	2.24W	90W	48 – 56V
TI-PE80	5.76W	200W	48 – 56V
TI-PG102	5.67W	240W	48 – 56V
TI-PG160	5.76W	480W	48 – 56V
TI-PG162	5.76W	240W	48 – 56V
TI-PG262	5.76W	480W	48 – 56V
TI-PG50	2.24W	120W	48 – 56V
TI-PG62	5.76W	120W	48 – 56V
TI-PG62B	5.76W	60 – 120W	12 – 56V
TI-PG80	5.76W	200W	48 – 56V
TI-PG80B	5.3W	120 – 200W	24 – 56V
TI-UPG62 (V1.0R)	5.76W	240W	48 – 56V
TI-UPG62 (V2.0R)	6.2W	240W	52 – 56V

Power Supply Model	Max. Power Supplied	DC Output	Type	Note
TI-M6024	60W	24V / 2.5A	DIN-Rail	
TI-S12024	120W	24V / 5A	DIN-Rail	
TI-S12048	120W	48V / 2.5A	DIN-Rail	
TI-S24048	240W	48V / 5A	DIN-Rail	
TI-S48048	480W	48V / 10A	DIN-Rail	
48VDC3000	160W	48V / 3.34A	Power Adapter (4-pin DIN type connector)	Compatible only with TI-PG541i / TI-PG62 / TI-PG102 / TI-PG160 / TI-PG162

**Note:** Select the appropriate power supply according to the switch model you have purchased. When choosing the appropriate power supply, please take into consideration that the switch will also consume some of the power budget supplied in addition to the PoE power budget requirement.

## 2. Quick Reference

**Note:** The switch model and power supply may be different than the one shown in the example below.



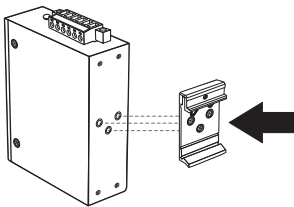
### 3. Hardware Installation

The switch can be placed on a desktop, wall, or mounted to a DIN-Rail.

#### DIN-Rail Mounting Instructions

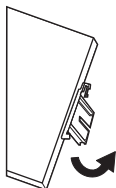
1. Attach the DIN-rail mount bracket to the switch.

**Note:** The switch may be different than the one shown in the examples below.

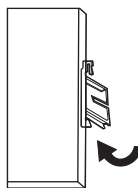


2. Position the unit in front of the DIN-Rail and hook the mount bracket over the top of the rail.

3. Rotate the unit downward towards the rail to lock it into place. You will know it is secure when you hear the click.



**Mounting the unit**



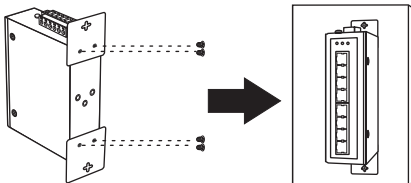
**Releasing the unit**

4. To remove the unit, pull down to clear the bottom of the DIN-Rail and rotate up, away from the rail.

#### Wall Mounting Instructions

1. Attach the wall mount plates to switch.

2. Mount the switch.



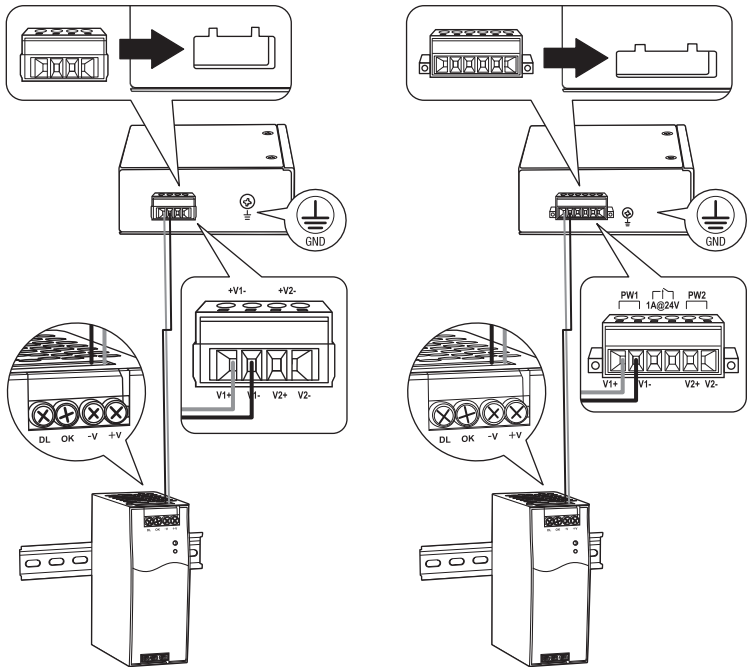
## Applying Power

1. Connect the power supply (sold separately) to the included terminal block (as shown below) and secure with the screws.

**Note:** Polarities must match.

2. Attach the terminal block to the unit, connect the ground wire to the ground, and supply power to the power supply.

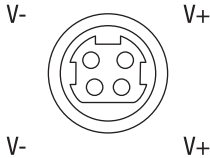
**Note:** The switch model and power supply may be different than the one shown in the example below. Terminal blocks may be 4-pin (dual power input only) or 6-pin (dual power input with alarm relay output) with differences in labeling.



3. Connect a network source and devices to the switch. Check the LEDs to confirm the connections are established. Your installation is completed.

**Note:** Please refer to the LED definition section on page 8-14 for reference to your switch model.

If available on your switch (TI-PG62 / TI-PG102 / TI-PG160 / TI-PG162), the 4-pin DIN type connector can also be used as an additional power input (48VDC3000 power adapter sold separately).



### Safety Note



- Turn off the power before connecting any module or wire. The correct power supply voltage is listed on the product label. Check the voltage of your power source to make sure that you are using the correct part. Do NOT use voltage greater than the maximum listed on the product label.
- Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If the current surpasses the maximum ratings, the wiring could overheat, causing serious damage to your equipment.

## LED Definition Reference

TI-BG104		
	Status	Description
PW1 / PW2 / PW3	Solid Green	Power is Detected
	Off	Power is Not Detected
F9 (GREEN) / F10 (GREEN)	Solid	Link Established
	Blinking	Data Transmitting
	Off	No Link
RLY	Solid Amber	PW1 or PW2 Disconnected
	Off	PW1 and PW2 Connected
SPD	Solid Amber	Connected at 1Gbps
	Off	Connected at 100Mbps / 10Mbps
LNK (GREEN)	Solid Green	Link Established
	Blinking	Data Transmitting
	Off	No Link
POE (P1, P2, P3, P4, P5, P6, P7, P8)	Solid Green	PoE Device is connected
	Off	No PoE Device is connected

## DIP Switch Reference

DIP SWITCH POH 5	POH	Sets Port 5 in POH Mode
	bt	Sets port 5 in PoE++ mode
DIP SWITCH POH 6	POH	Sets Port 6 in POH Mode
	bt	Sets port 6 in PoE++ mode
DIP SWITCH POH 7	POH	Sets Port 7 in POH Mode
	bt	Sets port 7 in PoE++ mode
DIP SWITCH POH 8	POH	Sets Port 8 in POH Mode
	bt	Sets port 8 in PoE++ mode

<b>TI-PG102</b>		
	<b>Status</b>	<b>Description</b>
<b>P1</b>	Solid Green	Power is Detected
	Off	Power is Not Detected
<b>P2</b>	Solid Green	Power is Detected
	Off	Power is Not Detected
<b>P3</b>	Solid Amber	Power is Detected
	Off	Power is Not Detected
<b>RLY</b>	Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected and powered
<b>LNK</b>	Solid Green	Connection
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
<b>SFP (F9, F10)</b>	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
<b>PoE</b>	Solid Amber	PoE is connected
	Flashing Amber	PoE is being detected
	Off	No PoE

<b>TI-PE50 / TI-PE80 / TI-PG50 / TI-PG80 / TI-PG80B</b>		
	<b>Status</b>	<b>Description</b>
<b>PW1</b>	Solid Green	Power is Detected
	Off	Power is Not Detected
<b>PW2</b>	Solid Green	Power is Detected
	Off	Power is Not Detected
<b>RLY (TI-PE80, TI-PG80, &amp; TI-PG80B ONLY)</b>	Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected and powered
<b>LNK</b>	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
<b>POE</b>	Solid Amber	PoE is connected
	Flashing Amber	PoE is being detected
	Off	No PoE

TI-PG62		
	Status	Description
PW1 / PW2 / PW3	Solid Green	Power is Detected
	Off	Power is Not Detected
RLY	Solid Amber	Connected only PW1, PW2 or PW3
	Off	Two of the PW1, PW2, PW3 are connected and powered
LNK / SFP (F5, F6)	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
PoE	Amber	PoE is connected
	Flashing Amber	PoE is being detected
	Off	No PoE

### DIP Switch Reference

DIP SWITCH 1	On	Enable Port T5
	Off	Enable Port F5
DIP SWITCH 2	On	SFP Speed is 100Mbps
	Off	SFP Speed is 1000Mbps

TI-PG160 / TI-PG162		
	Status	Description
P1 / P2	Solid Green	Power is Detected
	Off	Power is Not Detected
P3	Solid Amber	Power is Detected
	Off	Power is Not Detected
RLY	Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected and powered
LNK	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
SFP (F15, F16) (TI-PG162 ONLY)	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
PoE	Solid Amber	PoE is connected
	Flashing Amber	PoE is being detected
	Off	No PoE

TI-PG62B		
	Status	Description
PW1 / PW2	Solid Green	Power is Detected
	Off	Power is Not Detected
ERR	Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected and powered
LNK	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
SPD	Solid Amber	Connected at 1000M
	Off	Connected at 10/100M
SFP (F5, F6)	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
POE (P1, P2, P3, P4)	Solid Green	PoE is connected
	Flashing Green	PoE is being detected
	Off	No PoE

### DIP Switch Reference

DIP SWITCH 1	On	Disable Port F5
	Off	Enable Port F5
DIP SWITCH 2	On	SFP Speed is 100Mbps
	Off	SFP Speed is 1000Mbps

<b>TI-PG262</b>		
	<b>Status</b>	<b>Description</b>
<b>PW1 / PW2</b>	PW1 Solid Green	Power 1 is detected
	PW2 Solid Green	Power 2 is detected
<b>APL</b>	RLY Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected
<b>LINK/ACTIVE TX/RJ-45 PORT (1~24)</b>	Solid Green	TX port is detected
	Flashing Green	TX data is transmitting/receiving
	Off	No Connection
<b>SPEED</b>	Solid Amber	Connected at 1000M
	Off	Connected at 10/100M
<b>SFP (F25 &amp; F26)</b>	Solid Green	SFP port is detected
	Flashing Green	SFP port data is transmitting/receiving
	Off	No Connection
<b>PoE (P1, P2, P3, P4)</b>	Solid Green	PD is detected and PSE is activated
	Flashing Green	PoE is being detected
	Off	PD is not detected

TI-UPG62 (V1.0R)		
	Status	Description
PW1 / PW2	Solid Green	Power is Detected
	Off	Power is Not Detected
ERR	Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected and powered
LNK	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
SPD	Solid Amber	Connected at 1000M
	Off	Connected at 10/100M
SFP (F5,F6)	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
POE (P1, P2, P3, P4)	Solid Green	PoE is connected
	Flashing Green	PoE is being detected
	Off	No PoE

### DIP Switch Reference

DIP SWITCH 1	On	Disable Port F5
	Off	Enable Port F5
DIP SWITCH 2	On	SFP Speed is 100Mbps
	Off	SFP Speed is 1000Mbps

TI-UPG62 (V2.0R)		
	Status	Description
PW1 / PW2	Solid Green	Power is Detected
	Off	Power is Not Detected
ERR	Solid Amber	Connected only PW1 or PW2
	Off	Both PW1 and PW2 are connected and powered
LNK	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
SPD	Solid Amber	Connected at 1000M
	Off	Connected at 10/100M
SFP (F5,F6)	Solid Green	Connected
	Flashing Green	Data Transmitting / Receiving
	Off	No Connection
POE (P1, P2, P3, P4)	Solid Green	PoE is connected
	Flashing Green	PoE is being detected
	Off	No PoE

#### DIP Switch Reference

DIP SWITCH 1	On	Enable Port T5
	Off	Enable Port F5
DIP SWITCH 2	On	SFP Speed is 100Mbps
	Off	SFP Speed is 1000Mbps

# Declaration of Conformity

**TRENDNET**<sup>®</sup>

## Manufacturer's Name and Address

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

Zwolschestraat 156 2587 WB  
The Hague The Netherlands



## Product Information:

**Model Number:** TI-BG104 / TI-PE50 / TI-PE80 / TI-PG102 / TI-PG160 / TI-PG162 / TI-PG262 / TI-PG50 / TI-PG62 / TI-PG62B / TI-PG80 / TI-PG80B / TI-UPG62 (V1.0R) / TI-UPG62 (V2.0R)

## Product Name:

10-Port Industrial Gigabit PoE++ DIN-Rail Switch / 5-Port Industrial Fast Ethernet PoE+ DIN-Rail Switch / 8-Port Industrial Fast Ethernet PoE+ DIN-Rail Switch / 10-Port Industrial Gigabit PoE+ DIN-Rail Switch / 16-Port Industrial Gigabit PoE+ DIN-Rail Switch / 16-Port Industrial Gigabit PoE+ DIN-Rail Switch / 26-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch / 5-Port Industrial Gigabit PoE+ DIN-Rail Switch / 6-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch / 6-Port Industrial Gigabit PoE+ DIN-Rail Switch 12 – 56 V / 8-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch / 8-Port Industrial Gigabit PoE+ DIN-Rail Switch (24 – 56V) / 6-Port Hardened Industrial Gigabit Ultra PoE DIN-Rail Switch / 6-Port Hardened Industrial Gigabit PoE++ DIN-Rail Switch

**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 62368-1:2014 (TI-UPG62, TI-PG162, TI-PG160, TI-PG102, TI-PG80B, TI-PG80, TI-PE80, TI-BG104)

## EMC

EN 55032:2012+ AC:2013 Class A (TI-PG102)	EN 61000-6-4:2007/A1:2011 (TI-PG62B, TI-PG62)
EN 61000-6-2:2005/AC:2005 (TI-PG62B, TI-PG62)	EN 55011:2009/A1:2010 (TI-PG62B, TI-PG62)
EN 55032:2012/AC:2013 (TI-PG62B, TI-PG62)	EN 55032:2015 (TI-BG104)
EN 55032:2015 CISPR 32:2015 (TI-PG160, TI-PE50)	CISPR 22:2008 Class A (TI-PG80)
AS/NZS CISPR 32:2015 Class A (TI-UPG62, TI-PG80B, TI-PG50)	
CISPR 32:2015 + C1:2016 Class A (TI-UPG62, TI-PG162, TI-PG80B, TI-PG50)	
EN 55032:2015 +AC:2016 Class A (TI-UPG62, TI-PG162, TI-PG80B, TI-PG50, TI-PE80)	
EN 55035: 2017 (TI-UPG62, TI-PG162, TI-PG160, TI-PG80B, TI-PG50, TI-PE80, TI-PE50, TI-PG102, TI-PG62B, TI-PG80, TI-PG62, TI-BG104)	

This product is herewith confirmed to comply with the Directives.

**Directives:** EMC Directive 2014/30/EU  
RoHS 3 Directive 2015/863/EU  
RoHS Directive 2011/65/EU  
WEEE Directive 2012/19/EU  
REACH Regulation (EC) No. 1907/2006  
Low Voltage Directive 2014/35/EU

Person responsible for this declaration.

Place of Issue: Torrance, California, USA

Date: April 07, 2023

Name: Sonny Su

Title: VP of Technology

Signature: \_\_\_\_\_



# Declaration of Conformity

**TRENDNET**<sup>®</sup>

## Manufacturer's Name and Address

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

Authorized Representative:  
Office: +44 (0) 1635 887 399  
Unit 4 Rivermead Business Park,  
Pipers Way, Thatcham, RG19 4EP England



## Product Information:

**Model Number:** TI-BG104 / TI-PE50 / TI-PE80 / TI-PG102 / TI-PG160 / TI-PG162 / TI-PG262 / TI-PG50 / TI-PG62 / TI-PG62B / TI-PG80 / TI-PG80B / TI-UPG62 (V1.0R) / TI-UPG62 (V2.0R)

## Product Name:

10-Port Industrial Gigabit PoE++ DIN-Rail Switch / 5-Port Industrial Fast Ethernet PoE+ DIN-Rail Switch / 8-Port Industrial Fast Ethernet PoE+ DIN-Rail Switch / 10-Port Industrial Gigabit PoE+ DIN-Rail Switch / 16-Port Industrial Gigabit PoE+ DIN-Rail Switch / 16-Port Industrial Gigabit PoE+ DIN-Rail Switch / 26-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch / 5-Port Industrial Gigabit PoE+ DIN-Rail Switch / 6-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch / 6-Port Industrial Gigabit PoE+ DIN-Rail Switch 12 – 56 V / 8-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch / 8-Port Industrial Gigabit PoE+ DIN-Rail Switch (24 – 56V) / 6-Port Hardened Industrial Gigabit Ultra PoE DIN-Rail Switch / 6-Port Hardened Industrial Gigabit PoE++ DIN-Rail Switch

**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 62368-1:2014 (TI-UPG62, TI-PG162, TI-PG160, TI-PG102, TI-PG80B, TI-PG80, TI-BG104)

## EMC

BS EN 55032:2012+ AC:2013 Class A (TI-PG102)	BS EN 61000-6-4:2007/A1:2011 (TI-PG62B, TI-PG62)
BS EN 61000-6-2:2005/AC:2005 (TI-PG62B, TI-PG62)	BS EN 55011:2009/A1:2010 (TI-PG62B, TI-PG62)
BS EN 55032:2012/AC:2013 (TI-PG62B, TI-PG62)	BS EN 55032:2015 (TI-BG104)
BS EN 55032:2015 CISPR 32:2015 (TI-PG160, TI-PE50)	CISPR 22:2008 Class A (TI-PG80)
AS/NZS CISPR 32:2015 Class A (TI-UPG62, TI-PG80B, TI-PG50)	
CISPR 32:2015 + C1:2016 Class A (TI-UPG62, TI-PG162, TI-PG80B, TI-PG50)	
BS EN 55032:2015 +AC:2016 Class A (TI-UPG62, TI-PG162, TI-PG80B, TI-PG50, TI-PE80)	
BS EN 55035:2017 (TI-UPG62, TI-PG162, TI-PG160, TI-PG80B, TI-PG50, TI-PE80, TI-PE50, TI-PG102, TI-PG62B, TI-PG80, TI-PG62, TI-BG104)	

## Directives:

Electromagnetic Compatibility Regulations 2016  
The Restriction of the Use of Certain Hazardous Substances in  
Electrical and Electronic Equipment Regulations 2012  
The Waste Electrical and Electronic Equipment Regulations 2013 (as amended)  
The REACH Enforcement Regulations 2008 (as amended)  
Electrical Equipment (Safety) Regulations 2016  
The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019

Person responsible for this declaration.

Place of Issue: Torrance, California, USA

Date: April 07, 2023

Name: Sonny Su

Title: VP of Technology

Signature: \_\_\_\_\_



# TRENDNET<sup>®</sup>

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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: **1-855-373-4741**

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)