

Application Drawings



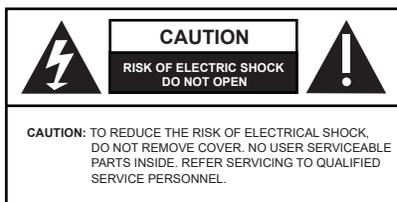
Vigatron's MaxiiNet™ Vi3002WP is an Ethernet and 60W PoE repeater that provides a cost effective method for extending distances beyond the Ethernet limit of 328 feet (100m) for IT or CCTV installations. Each unit can extend Ethernet and PoE for 328 feet (100m). Up to 8 units can be combined to achieve a distance up to 3,000 feet (909m) for IP video and PoE transmission. The Vi3002WP is a high performance device that meets the demands for the highest PoE powered PTZ domes and LED lighting eliminating the need for local power.

The Vi3002WP conforms to IP67 and is designed for the hardest environmental conditions with total dust protection, water immersion, and an operating temperature range of -40°C to +75°C. It uses PoE only and its patent pending Pass-Through-PoE (PTP™) eliminates the need for local power supplies.

It is compact in size and easy to install. The Vi3002WP is very cost effective and is a perfect solution for any extended IP transmission applications.

Important Safety Warning

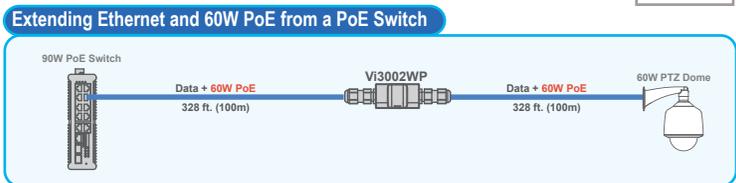
- Read and keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Install in accordance with the manufacturer's instructions.
- This installation should be made by a qualified service person and should conform to all local codes.
- DO NOT bundle UTP or Coax signals in the same conduit as high-voltage wiring.
- To reduce the risk of fire or electrical shock, do not expose these products to rain, moisture, dripping or splashing.
- No objects filled with liquids, such as vases, shall be placed on Vigatron equipment.
- DO NOT install the unit in a place where the operating ambient temperature exceeds 75°C or is below -10°C.
- Make sure that the external power supply output voltage is in the recommended range.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus that produce heat.
- Protect the power cord from being walked on or pinched particularly at power source, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when a power supply cord or plug is damaged, liquid has been spilled, objects have fallen inside the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The main plug is used as the disconnect device and shall remain readily operable.



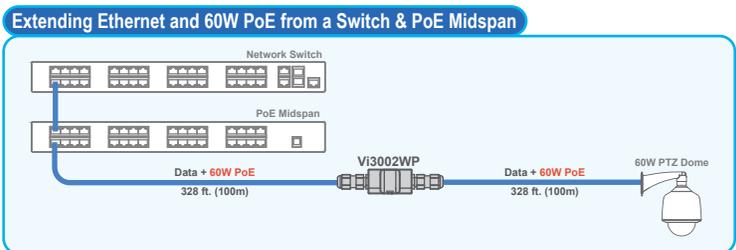
⚠ WARNING! - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

⚠ WARNING! - The Ethernet cable is used as the disconnect device and shall remain readily operable.

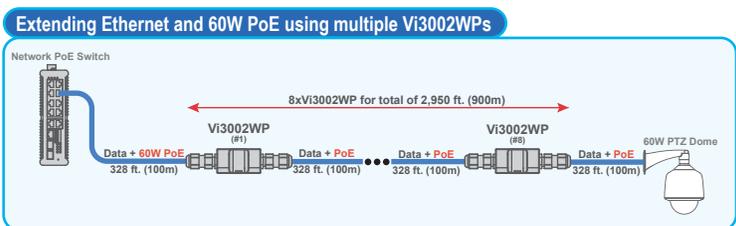
Cat 5/6



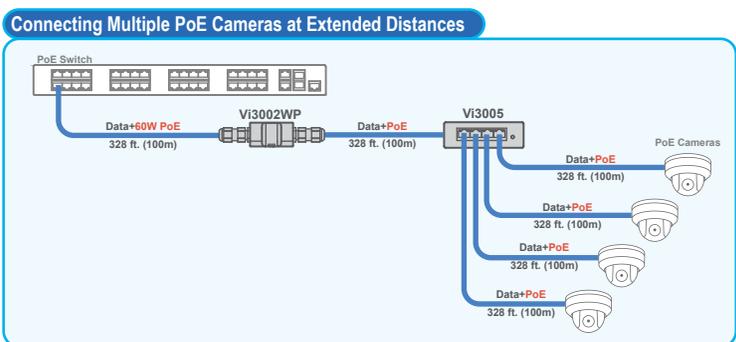
A single Vi3002 extends Ethernet and PoE from a PoE switch for total Distance of 656 ft. (200m).



A single Vi3002 extends Ethernet and PoE from a network switch and a PoE Midspan for total Distance of 656 ft. (200m).



Up to 8 x Vi3002 can be used in series to extend Ethernet and PoE for up to 2,950 ft.



The Vi3002 can be used to connect multiple PoE cameras at extended distances.

PoE	Distance	# of Vi3002W
60W	428 ft. (130m)	1
50W	650 ft. (198m)	1
50W	800 ft. (242m)	2
25.5W	1,200 ft. (364m)	3
12.95W	2,500 ft. (758m)	7
6.5W	3,000 ft. (909m)	8

The maximum reach of PoE for Multiple Vi3002WPs.

PoE Switch-end Installation

a) A single Vi3002WP:

- Connect one of the RJ45 standard connectors of the Vi3002WP to a Cat5/6 cable of maximum 328 feet (100m). Connect the other end of the cable to the Ethernet port of the a PoE Switch or PoE Midspan.

b) Multiple Vi3002WPs:

- Connect one of the RJ45 connectors of the Vi3002WP to a Cat5/6 cable of maximum 328 feet (100m). Connect the other end of the Cat5/6 cable to the Ethernet port of the a PoE Switch or PoE Midspan.
- Connect the other RJ45 connector of the Vi3002WP to a standard Cat5/6 cable of maximum 328 feet (100m).
- Connect the other end of the Cat5/6 to RJ45 connector of next Vi3002WP.

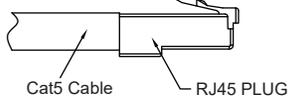
IP Camera-end Installation

- Connect of the other RJ45 connector of the Vi3002WP to a standard Cat5/6 cable of maximum 328 feet (100m).
- Connect the other end of the Cat5/6 cable to the Ethernet port of the the IP camera or any other PoE device.

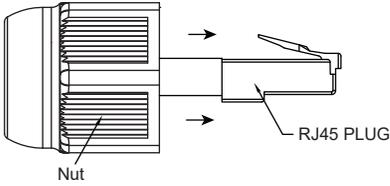
RJ-45 Installation Instruction

Installing cable and connector is critical for maintaining the IP 67 performance of this product. Please follow instructions carefully.

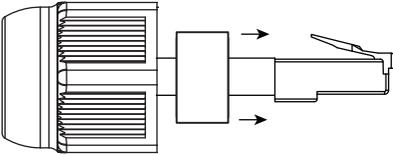
1. Terminate the Cat5 cable with RJ45 plug.



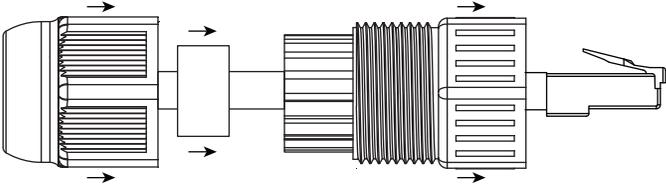
2. Insert the cable through the nut.



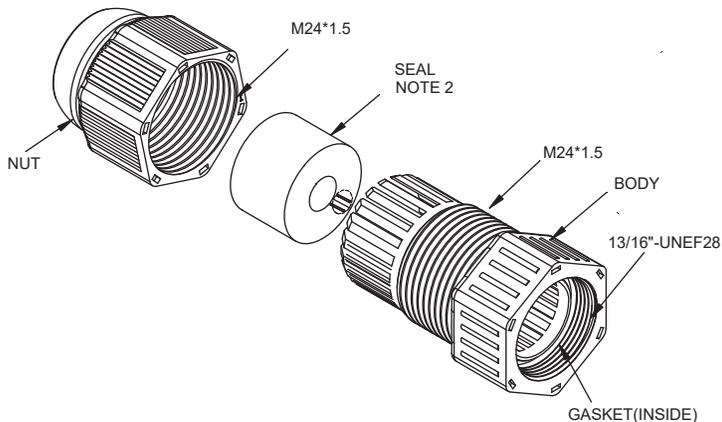
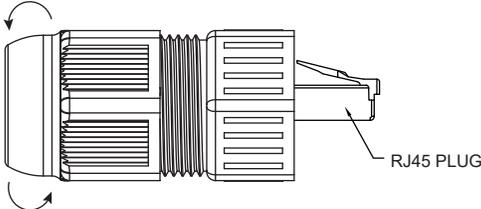
3. Split open the seal and insert the cable through the seal.



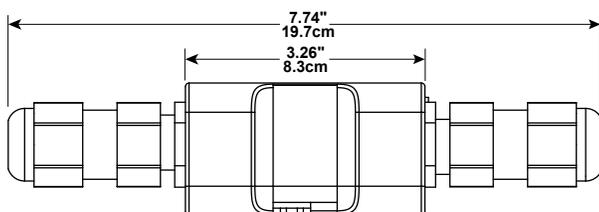
4. Insert the cable through the gasket.



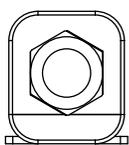
5. Tighten the nut to seal the cable.



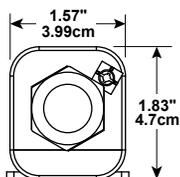
Mechanical Drawings



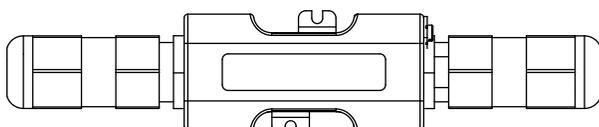
Side View



Right View



Left View



Top View

Technical Specifications*

Electrical

Data Rate	10/100BaseTX (10/100Mbps) Auto-configuring
Power Transmission Standard	802.3af (15.4W), 802.3at (30W), 74W
Network Connection	2 x RJ45 IEC 60603-7
Wiring Support	1 or 4 pair Cat 5/5e/6
Power Consumption	1W (PoE only)
Extended Distance Supported	328 ft. (100m) per link
Data Interfaces and Compliances	RFC 768 UDP, RFC 2068 HTTP RFC 793 TCP, RFC 791 IP RFC 1783 TFTP, RFC 894 IP over Ethernet RFC 2544 TCP/IP Packet Transmission
PoE Compatibility	IEEE 802.3af, IEEE 802.3at, 60W PoE

Mechanical

Dimensions	6.83x1.57x1.83 in., 17.35x3.99x4.65 cm (HxWxL)
Weight	0.50 lb, 227 g
Material	ABS

Environmental

Humidity	Total Moisture Protection Compliant to IP67
Temperature	Operating: -40°C to +75°C Storage: -40°C to +85°C
Dust	Total Dust Protection Compliant to IP67

Regulatory

Safety	CE, FCC
Environmental	RoHS, WEEE

*Specifications subject to change without notice.

Ordering Information

Part No. Description

Vi3002WP	IP67 Ethernet and 60W PoE Repeater
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Limited Lifetime Warranty

Vigtron, Inc. warrants that all Vigtron products ("Product"), if used in accordance with these instructions, will be free of defects in material and workmanship for lifetime defined as the duration period of time until product end of life is announced. After which Vigtron will continue to provide warranty services for a period of 3 years. Period covering valid warranty will be determined by proof of purchase in the form of an invoice from an authorized Vigtron dealer.

Warranty will only be provided for as long as the original end user purchaser owns the product. Warranty is not transferrable. At Vigtron's option, defective product will be repaired, replaced or substituted with a product of equal value. This warranty does not apply if, in the judgment of Vigtron, Inc., the Product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained not conforming to Product manual instructions, has been modified, or serial number removed or defaced. Repair by anyone other than Vigtron, Inc. or an approved agent will void this warranty. Vigtron, Inc. shall not under any circumstances be liable to any person for any incidental, indirect or consequential damages, including damages resulting from use or malfunction of the product, loss of profits or revenues or costs of replacement goods. The maximum liability of Vigtron, Inc. under this warranty is limited to the original purchase price of the Product only.

Prior to returning any defective Product, the end customer or the reseller from whom the end customer originally purchased the Product must obtain a Return Materials Authorization (RMA) number from Vigtron, Inc. All defective Products should be returned to Vigtron, Inc. with shipping charges prepaid. No collect shipments will be accepted.