

Vi30202U 24VDC/VAC Coax Ethernet Extender w/60W PoE Manual



The Vi30202U is the perfect solution for replacing existing analog PTZ cameras with advanced IP PTZ cameras. It uses existing Coax cable for transmitting IP video up to 5000 feet (1,515 m) and the existing 24VDC or 24VAC power supply as power input to provide up to 60W PoE to the cameras. Using the existing Coax cable and power supply provides great time and cost saving.

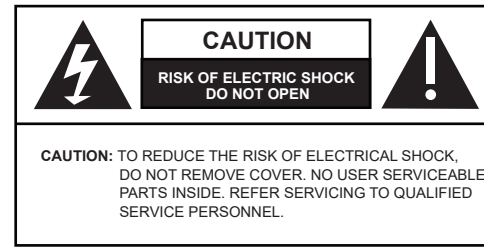
Its unique Symmetric Bandwidth (SBW™) assures full bandwidth transmission is maintained over the entire operational distance for both uploads and downloads with Virtual Zero Packet Loss (VZPL™). Type tested under NEMA-TS2 environmental standards for extended temperature operations between -20C° to +65C°. The Vi30202U is MegaPixel Certified (MPC™), type tested to network packet performance standards, and major manufacturer compatibility tested to assure you error free and reliable operations.

Its compact design allows to be installed in many weatherproof and security houses or many types of camera mounts to further reduce installation costs.

Installation cost savings, proven performance, and major camera brand compatibility all go into making Vigitron's MaxiiCopper™ Vi30202U an ideal solution for extended distance data and power transmission.

Important Safety Warning

- Read these instructions.
- 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 Vigitron equipment.
- DO NOT install the unit in a place where the operating ambient temperature exceeds 65°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 plugs, 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 a power supply cord or plug is damaged, liquid has been spilled, or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The mains 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! - This apparatus is a Class I product. This product must be connected to a mains socket outlet thru an AC to DC Power supply.

WARNING! - The mains plug is used as the disconnect device and shall remain readily operable.

IP Camera-end Installation

- Connect the IP camera RJ45 connector to the 10/100BaseT Ethernet port of Vi30202U using a standard Cat5/6 cable of maximum 100 m in length.
- Connect one end of the long coax cable to the BNC connector of Vi30202U.
- Connect a 24VDC or 24VAC power supply, at least 74W, to the Vi30202U power connector. The power input is a non polarized 2-pin terminal block.

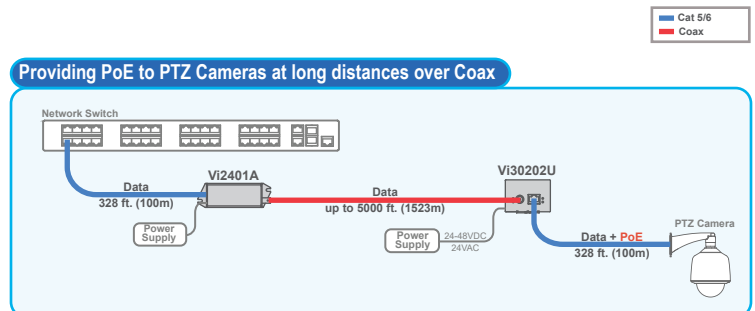
The Power LED, PoE LED and link LED on the 10/100 connector should be "ON" to indicate proper connection between the camera and Vi30202U.

Ethernet Switch/NVR-end Installation

- Use a Vi24xxA on the receiving side.
- If using a Vi2401A set the Master/Slave dip switch to "Slave" mode and Set the Remote/Local switch to Local.
- Connect a qualified 12VDC power supply to the Vi24xxA.
- Connect the RJ45 connector of the Ethernet switch to the 10/100BaseT Ethernet port of Vi2401A using a standard Cat5/6 cable of maximum 100 m in length.
- Connect one end of the long coax cable to the BNC connector of Vi24xxA.

The link LED on the 10/100 Ethernet connector should be "ON" to indicate proper connection between the switch and Vi24xxA. Also the Traffic LED on the Coax side should be on and flashing to indicate proper connection. While the Link LED, Orange for 100BaseT and Green for 10BaseT, in a steady state will indicate confirmed connection between extenders.

Ethernet Switch/NVR-end Installation



Vi30202U along with Vi2401A can be used to provide data and PoE transmission over long distance coax cables.

Technical Specifications*

Electrical

Ethernet Interface	Standard 10/100BaseT
Data Rate	Auto select 10/100 Mb/s Full speed / full duplex at maximum rated distance
Coax	75 Ohm, 5,000 feet (1,524 m) at 10BaseT 1,800 feet (548 m) at 100BaseT
PoE Output Power	60W @ 54 VDC
Input Power	24-48 VDC / 24 VAC, 2.7 A Maximum
Status LEDs	Power On PoE Standard Ethernet: Traffic, Link Extended Ethernet: Traffic, 10/100BaseT
Connectors	Ethernet Interface: Shielded RJ-45 Connector Extended Interface: Female BNC Power: Pluggable 2-pin connector (non-polarized)
RFC	2544 TCP/IP Packet Transmission
PoE Compatibility	IEEE 802.3af , IEEE 802.3at, 60W PoE
RFC	768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
Jumbo Frame Support	Yes

Regulatory

Safety	CE
Environmental	RoHS, WEEE

Mechanical

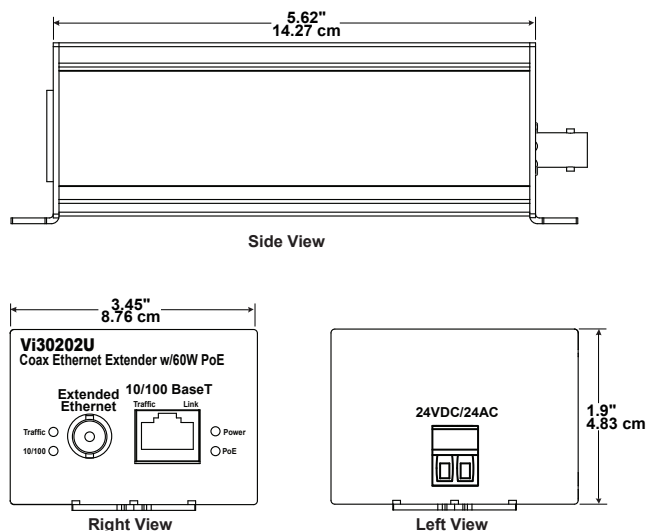
Dimensions	5.62 x 3.45 x 1.9 in., 14.27 x 8.76 x 4.83 cm (HxWxD)
Weight	1.11 lb, 503 g
Material	Extruded Aluminum

Environmental

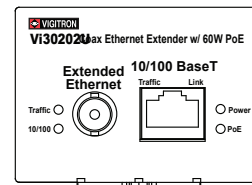
Humidity	0 to 95%, non-condensing
Temperature	Operating: -20°C to +65°C per NEMA-TS2 testing Storage: -40°C to +85°C

*Specifications subject to change without notice.

Drawings



Status LEDs



LED Name	Color	Status	Function
Power	GREEN	OFF	Power is OFF
		ON	Power is ON
Traffic (Extended Side)	YELLOW	OFF	No Traffic
		FLASHING	Traffic
10/100 BaseT (Extended Side)	GREEN	ON	Connection is OK, 10BaseT Mode
		ORANGE	ON
Traffic (Standard Side)	GREEN	OFF	No connection
		FLASHING	Connection is OK with Traffic
Link (Standard Side)	YELLOW	OFF	No connection
		ON	Connection is OK
PoE	GREEN	OFF	PoE Power is Off
		ON	PoE Power is On

Data and PoE Distance**

Data Rate	Distance
10BaseT	5,000 ft./1,524 m
100BaseT	1,800 ft./548 m

*Specifications subject to change without notice.

**Distance figures are based on RG59 coax cables using in house testing mirroring typical installations. Factors such as cabling, connections, use of power and environmental conditions may affect actual distances and should be taken into consideration.

Ordering Information

PART No.	Description
Vi30202U	24VDC/24VAC 60W PoE Coax Extender

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 announcement. 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.



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