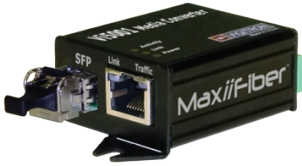


# Vi5001 PoE Media Converter Installation Manual

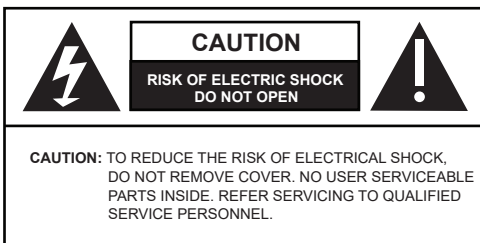


Vigatron's Vi5001 is a media converter that enables Ethernet signals to be transmitted over fiber optic cables to meet long distance transmission applications or reusing existing analog fiber connections for IP applications. The use of SFP fiber modules resulting in compatibility with all major single-mode and multi-mode fiber optics cables to achieve transmission distances depending on the cable and SFP. The Vi5001 also provides IEEE 802.3af/at PoE up to 30W to the connected IP device such as IP camera when used with appropriate power supplies.

The Vi5001 is an ideal solution for converting existing analog fiber infrastructures to IP systems. It provides a unique, reliable, and cost effective solution to combine a variety of transmission methods to meet any application requirement.

## 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 Vigatron equipment.
- DO NOT install the unit in a place where the operating ambient temperature exceeds 75° 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 (including DVRs) 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 power plug is used as the disconnect device and shall remain readily operable.



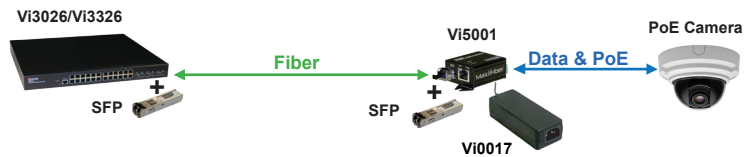
**⚠ WARNING!** - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

**⚠ 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.

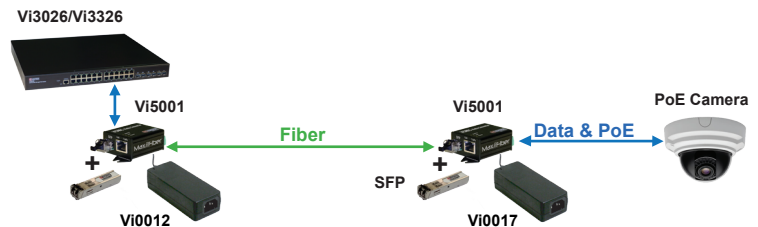
**⚠ WARNING!** - The mains plug is used as the disconnect device and shall remain readily operable.

## Application Drawing

### The Vi5001 connects to the optical port of Network Switch



### The Vi5001 connects to another Vi5001



## IP Camera-end Installation

- Insert a suitable 100Mbps SFP into the SFP socket of the Vi5001. The SFP needs to match the specification of the fiber optics cable.
- Connect the fiber connector of the optical wire to the SFP.
- If the IP Camera is non-PoE use an approved 12VDC or 48VDC power adapter to power the Vi5001.
- If the IP Camera is a PoE enabled use the Vi0017 or another approved 48VDC power adapter to power the Vi5001.
- Connect the IP camera RJ45 connector to the "10/100BaseT Ethernet" port of Vi5001 using a standard Cat5/6 cable of maximum 100m in length.

## Ethernet Switch/NVR-end Installation

- Connect an approved 12VDC power supply to the power connector of Vi5001. A power adapter connector is provided to simplify connection.
- Connect the RJ45 connector of the Ethernet switch to the 10/100BaseT Ethernet port of Vi5001 using a standard Cat5/6 cable of maximum 328 feet (100 m) in length.
- Connect one end of the long fiber optic cable to a SFP module, then connect the SFP module to the SFP socket of Vi5001.

The Ethernet link, Fiber link, activity LEDs should be "ON" and "Blink" to indicate the status of each port.

## Technical Specifications\*

## Status LEDs

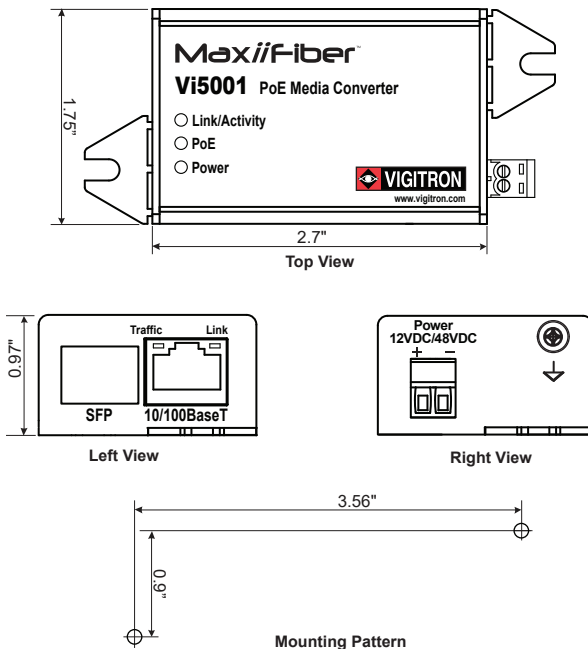
LED Name	Color	Status	Function
Power	GREEN	OFF	Power is OFF
		ON	Power is ON
PoE	GREEN	OFF	No PoE
		ON	PoE
Fiber Port	YELLOW	OFF	Fiber Link is OFF
		ON / FLASHING	Fiber Activity
Traffic (Standard Side)	GREEN	OFF	No connection
		FLASHING	Connection is OK with Traffic
Link (Standard Side)	YELLOW	OFF	No connection
		ON	Connection is OK

## Ordering Information

Part No.	Description
<b>Vi5001</b>	<b>PoE Media converter</b>
<b>Vi00850MM</b>	<b>850nm MM SFP (multi-mode)</b>
<b>Vi01310MM</b>	<b>1310nm MM SFP (multi-mode)</b>
<b>Vi01310SM</b>	<b>1310SM SFP (single-mode)</b>
<b>Vi0012</b>	<b>12VDC @ 12W Power Supply</b>
<b>Vi0017</b>	<b>48VDC @ 40W PoE Power Supply</b>



## Drawings



## 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.