



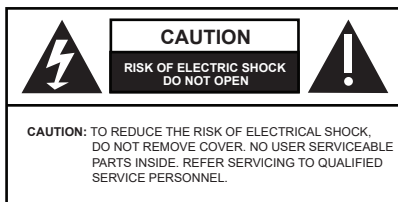
Vigitron's Vi51000 series is a media converter that enables HD-TVI, HD-CVI and AHD signals along with RS485 data to be transmitted over fiber optic cables at long distances. They can be used with single-mode or multi-mode fiber optic cables, new or existing analog fiber connections. The Vi51000 is a transmitter and the Vi51001 is a receiver compatible with 720p/50, 720p/60, 1080p/25, 1080p/30. No Electronic or optical adjustments are required.

The Vi51000 series is an ideal solution for converting existing analog fiber infrastructures to HD systems. It is compatible with 720p/50, 720p/60, 1080p/25, 1080p/30 and provides lossless non-compression real time transmission.

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 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 Vigitron equipment.
- DO NOT install the unit in a place where the operating ambient temperature exceeds 70°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.

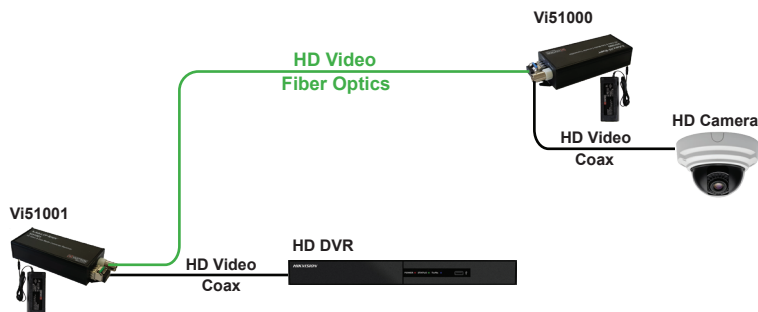


⚠ WARNING! - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

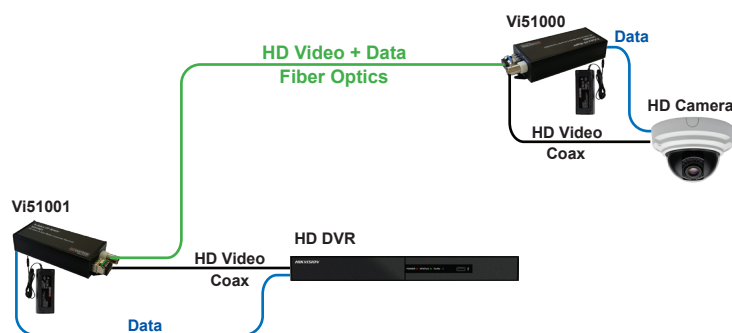
⚠ WARNING! - This apparatus is a Class I product. This product must be connected to a mains socket outlet thru an AC to DC Power supply.

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

Application Drawings



The Vi51000 transmitter transmits HD video to the Vi51001 receiver, over single-mode or multi-mode fiber optics at long distances.



The Vi51000 transmitter transmits HD video and RS485 data to the Vi51001 receiver over a single single-mode or multi-mode fiber optics cable at long distances.

HD Camera-end Installation

The Vi51000 is the HD video transmitter and RS485 receiver that should be powered by a 12VDC local power supply. The Vi51000 is a plug and play device and does not require any set up.

- Connect the long fiber optics cable to the LC connector of the SFP.
- Connect the BNC connector of the Vi51000 to the video output of the HD camera.
- If the camera has data connection, connect the data output of the Vi51000 to the camera data input using a 3-conductor wire.
- Connect the power supply to the power input of the Vi51000.

HD DVR-end Installation

The Vi51001 is the HD video receiver and RS485 transmitter that should be powered by a 12VDC local power supply. The Vi51001 is a plug and play device and does not require any set up.

- Connect the long fiber optics cable to the LC connector of the SFP.
- Connect the BNC connector of the Vi51001 to the video input of the HD DVR.
- If the DVR has data connection, connect the data input of the Vi51000 to the DVR data output using a t3-conductor wire.
- Connect the power supply to the power input of the Vi51001.

Technical Specifications*

Electrical

Optical fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Wavelength	850nm, 1310nm, 1550nm
Optical Output	-9~3dBm
Receiver sensitivity	-24dBm
Optical Connector	LC
Distance	Multi-mode cable: up to 650M Single-mode cable: up to 20Km

Video Output/Input	BNC 75 (unbalance)
Video voltage	1.0Vp-p
Video Bandwidth	60MHz
Differential Gain	< ±1.5%
Differential Phase	< ±1°
Power Source	12VDC @ 0.3A
Status LEDs	Power Fiber Link Video Present RS485 Data

Connectors	Video: 75 Ohm BNC Fiber Optics: LC Data: 3-pin Plugable Terminal Block Power: Circular power connector
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Regulatory

Safety	CE
Environmental	RoHS, WEEE

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -20°C to +75°C Storage: -40°C to +85°C

Mechanical

Dimensions	0.97x1.76x3.96 in., 2.5x4.5x10.06 cm (HxWxL)
Weight	0.24 lb (107 g)
Housing	Aluminum

Status LEDs

LED Name	Color	Status	Function
Power	GREEN	OFF	Power is OFF
		ON	Power is ON
Fiber Link	GREEN	Flashing	Not Connected
		ON	Connected
HD Video	GREEN	OFF	No Video
		ON	Video present
RS485 Data	GREEN	OFF	No connection
		ON	Connected & Data Present

Ordering Information

Part No. Description

Vi51000	HD Video and Data Media Converter Tx
Vi51001	HD Video and Data Media Converter Rx
Vi0012	12W 12VDC Power Supply

Limited Lifetime Warranty

Vigatron, Inc. warrants that all Vigatron 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 Vigatron 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 Vigatron dealer.

Warranty will only be provided for as long as the original end user purchaser owns the product. Warranty is not transferrable. At Vigatron'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 Vigatron, 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 Vigatron, Inc. or an approved agent will void this warranty. Vigatron, 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 Vigatron, 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 Vigatron, Inc. All defective Products should be returned to Vigatron, Inc. with shipping charges prepaid. No collect shipments will be accepted.



Drawings

