



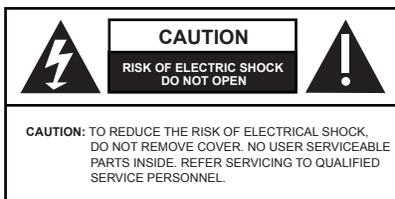
The Vigitron Vi61000 is an advanced active device that transmits HD video over unshielded twisted pair wires. It is compatible with HD-TVI, HD-CVI and AHD video formats. The Vi61000 uses Cat 5/6 UTP cables and can provide quality HD video up to 2000 feet (610 m) depending on the video format when it is paired with Vigitron Vi61001 active receiver.

The Vi61000 requires a 12VDC power supply. The Vi61000 is compact in size and very easy to install. It provides a single slide switch for selecting the distance range for best performance. Vigitron's Vi61000 is tested and certified to assure operational specification performance.

The Vi61000 innovative design offers exceptional quality video and system flexibility that makes it ideal for a wide variety of CCTV applications and makes a cost-effective alternative to expensive Coax or fiber optic solutions.

## 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.

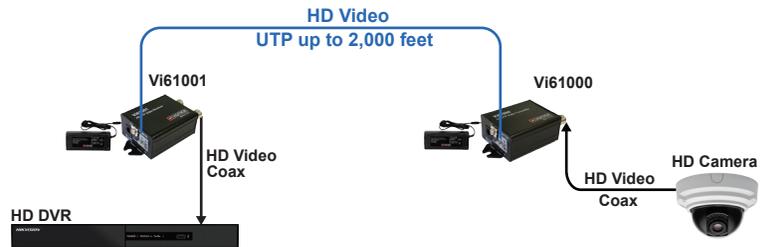


**! WARNING!** - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

**! 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 Vi61000 series can provide HD video transmission over UTP at distances up to 2,000 feet depending on the HD video format.

## HD Camera-end Installation

The Vi61000 is a HD video transmitter that should be powered by a 12VDC local power supply.

### UTP Port (Terminal Block):

- Connect a twisted-pair wire, 24 AWG or better, to the connector labeled "Video Out". It is important to note which wire color connects to the "+" and "-" terminals in order to keep the same polarity on both transmit and receive end of the UTP wire.

### Video:

- Connect the camera video output to the "Video In" BNC connector of the Vi61000.

### Power:

- Connect a 12VDC power supply to the power connector of the Vi61000.
- Connect the GND terminal block with a short 18 AWG wire to Earth Ground.

Set the Distance switch of the Vi61000 to the position that provides the best picture.

## HD DVR-end (Vi61001) Installation

The Vi61001 is a HD video receiver that should be powered by a 12VDC local power supply.

### UTP Port (Terminal Block):

- Connect a twisted-pair wire, 24 AWG or better, to the connector labeled "Video In". It is important to note which wire color connects to the "+" and "-" terminals in order to keep the same polarity on both transmit and receive end of the UTP wire.

### Video:

- Connect the video input of the HD DVR to one of the BNC Video outputs of the Vi61001. The other output can be used for monitoring or recording on another DVR.

### Power:

- Connect a 12VDC power supply to the power connector of the Vi61000.
- Connect the GND terminal block with a short 18 AWG wire to Earth Ground.

## Technical Specifications\*

### Electrical

Video Format	HD-TVI, HD-CVI and AHD
Data	Pass Through
UTP	100 Ohm +/- 20% HD-TVI: 1,200 feet (365m) HD-CVI: 1,300 feet (396m) AHD: 2,000 feet (610m)
Coax	RG59
Power Source	12VDC
Status LEDs	Power: Power On
Connectors	UTP Interface: 2-pin Screw-less terminal blocks Video: 75 Ohm BNC connector Power: Circular power connector

### Regulatory

Safety	CE
Environmental	RoHS, WEEE

### Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: 0°C to +70°C Storage: -40°C to +85°C

### Mechanical

Dimensions	0.97 x 1.76 x 2.15 in., 2.5 x 4.5 x 5.5 cm (HxWxL)
Weight	0.14 lb (63.5 g)
Housing	Aluminum

\*Specifications subject to change without notice.

## Ordering Information

Part No.	Description
Vi61000	Active HD Video transmitter
Vi61001	1-port Active HD Video Receiver
Vi0012	12VDC @ 12W 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

