

Vi10004

4-Channel HD Passive UTP Video Transceiver Hub

Features

- Transmits HD signals over extended distances up to 800 ft.
- Supports HD-TVI, HD-CVI and AHD formats
- No power required
- Compact size for easy installation
- Direct connection to HD format recorders
- Converts BNC coax to single pair twisted wire
- Easy and cost effective conversion of existing analog twisted pair installation to HD
- 1U high rack mount with a Vi0010 panel



Applications

- Security and surveillance
- Elevator surveillance
- Casino security
- Hospitals and airports
- School campuses

Vigtron's Vi10004 is a 4-channel passive HD video transmission device that transmits HD video over unshielded twisted pair wires for average distances of up to 800 feet (244m). Greater distances up to an average of 1,200 ft. can be with this passive balun with an active transmitter. The Vi10004 is compatible with all major HD formats such as HD-TVI, HD-CVI, AHD. It can use Cat 5e or Cat 6 cable and does not require any power source. It mounts directly to cameras and HD recorders without the need of additional cabling. The Vi10004 is the perfect solution for easy and cost effective applications requiring twisting pair and existing applications where twist pair cables are already installed.



The Smart Choice for Transmission Solutions



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DSVi10004_0816

Technical Specification*

Electrical

Video Frequency	HD-TVI, HD-CVI, AHD
Frequency	0 to 45Mhz
Coax	75 Ohms
Twisted Pair	Cat 5e/Cat5 and 18, 22, 24AWG
Insertion Loss	0.3 dB
CMRR	60 dB
Power	No power required
Connectors	Video Outputs: BNC connectors UTP Input: Detachable terminal blocks and RJ45 connector
Transient Immunity	ANSI/IEEE 587 C62.41

Environmental

Humidity	0% to 95%, non-condensing
Temperature	Operating: -10°C to +50°C Storage: -30°C to +70°C

Mechanical

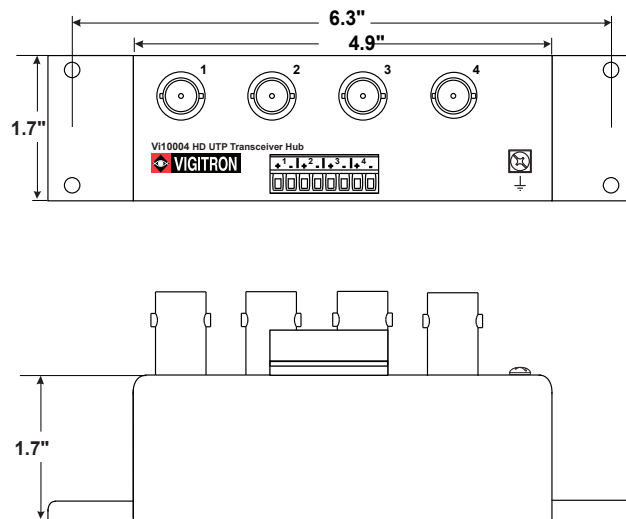
Dimensions	4.9x1.7x1.7 in., 12.4x4.3x4.3 cm (HxWxL)
Weight	0.51 lbs (233g)
Housing Material	ABS plastic, UL rating of 94V-0

Ordering Information

PART No.	Description
Vi10004	4-Channel Passive HD Transceiver Hub

System Configuration

Passive Transceivers	
Channels	Model
1	Vi10001F Vi10001M Vi10001P
4	Vi10004
8	Vi10008
16	Vi10016



Wire and Cable Recommendations

The Vigitron products are designed to be used with unshielded twisted pair (UTP) wiring. The UTP wire must be 24AWG - 22AWG or Cat5e/6 cable. Multi pair cable with an overall shield is acceptable, however individually shielded pairs should be avoided. Multiple UTP video feeds can be operated in the same communication cable along with telephone, computer, control signals and low power voltages. While UTP video may be routed through punch-down block terminals, any resistive, capacitive or inductive devices (such as T-taps or MOV's) must not be used. Please contact Vigitron for more specific information regarding wire types and proper installation techniques.



Application Diagrams

