

# Vi10001F / Vi10001M

HD Twisted Pair Video Balun

## Features

- Transmits HD signals over extended distances up to 800 ft. (244m)
- 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



## Applications

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

Vigitron's Vi10001F and Vi10001M are passive HD video transmission devices that transmit 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 achieved by combining these passive baluns with active transmitters. The Vi10001F and Vi10001M are compatible with all major HD formats such as HD-TVI, HD-CVI, AHD. They can use Cat 5e or Cat 6 cable and do not require any power source. They mount directly to cameras and HD recorders without the need of additional cabling. The Vi10001F and Vi10001M are the perfect solutions for easy and cost effective applications requiring twisting pair and existing applications where twist pair cables are already installed.



# Technical Specification\*

## Electrical

Video Frequency	HD-TVI, HD-CVI, AHD
Frequency	0 to 45Mhz
Coax	75 Ohms
Twisted Pair	100 Ohms +/- 20%, 24 AWG minimum Up to 800 ft. (244m)* unshielded category 2-7
Insertion Loss	0.3 dB
CMRR	60 dB
Power	No power required
Connectors	Video: Male BNC UTP: Terminal block

## Environmental

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

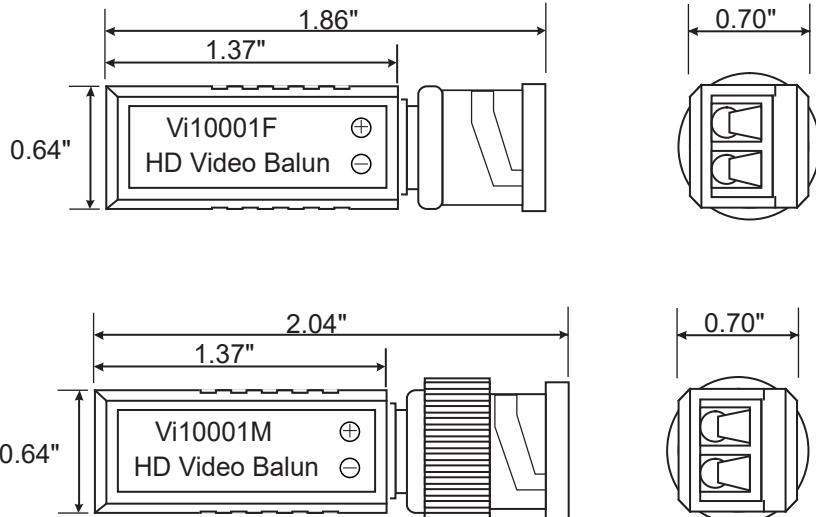
## Mechanical

Dimensions	Vi10001F: 1.86x0.64x0.70 in., 4.7x1.6x1.8 cm (HxWxL) Vi10001M: 2.04x0.64x0.70 in., 5.2x1.6x1.8 cm (HxWxL)
Weight	0.2 lbs (7g)
Housing Material	ABS plastic, UL rating of 94V-0

## Ordering Information

PART No.	Description
Vi10001F	HD Video Balun w/ Female BNC
Vi10001M	HD Video Balun w/ Male BNC

## System Configuration



## 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

