

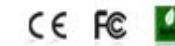
# HD Passive Video Balun

Model: VV - HDP4616

## Features

### 16-Channel HD Passive Video Balun

- Real-time transmission over UTP cat5e/6
- No power required
- NTSC, PAL & SECAM video format compatible
- Compatible with all HD-TVI, HD-CVI, AHD & CVBS analog cameras
- Color video max up to 440m(1443ft) for HD-CVI 720P camera  
If you adjust saturation of DVR, max up to 480m(1574ft)
- Color video max up to 220m(721ft) for HD-CVI 1080P camera
- Color video max up to 190m(623ft) for Hikvision TVI 720P camera
- Color video max up to 190m(623ft) for Hikvision TVI 1080P camera
- Color video max up to 210m(688ft) for TVT HD-TVI 720P camera
- Color video max up to 230m(754ft) for TVT HD-TVI 1080P camera
- Color video max up to 300m(984ft) for AHD 720P camera
- Color video max up to 240m(787ft) for AHD 960P camera
- Color video max up to 220m(721ft) for AHD 1080P camera
- Female BNC connector
- RJ45 and detachable terminal blocks for UTP cat5e/6
- Built-in TVS (Transient Voltage Suppressors) for surge protection
- Wave Filter Design, Anti-Static Design
- Lightning protection design Grade: III
- 60 dB crosstalk and noise immunity
- Exceptional interference rejection
- Compact size and easy installation
- Rack, wall mountable and desk installation with 4 rubber feet
- Black galvanized housing



# HD Passive Video Balun

## Overview

The VV-HDP4616 video balun hub is a passive (non-amplified) device that allows the transmission of real-time CCTV HD video signal via cost-effective Unshielded Twisted Paired (UTP) cable. Baseband (composite) signals of any type are supported.

The VV-HDP4616 is compatible with all HD-TVI, HD-CVI, AHD & CVBS analog cameras.

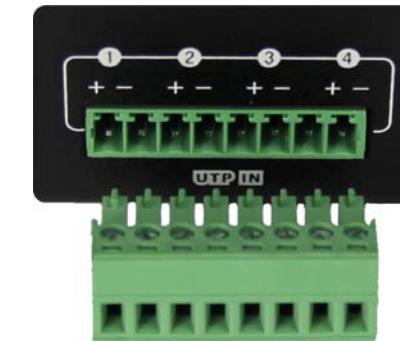
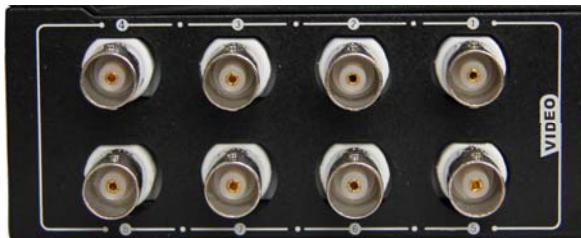
The VV-HDP4616 supports pluggable screw terminal or RJ45 connections. Used with single channel HD passive video transmitter, the FS-HDP4616 is capable to receive 16 channel live CCTV HD video signal from camera end via 4 UTP cables.

The superior interference rejection and low emissions of the VV-HDP4616 allow video signals to coexist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. It is built-in surge suppressor to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

## Wire and Cable Recommendations

The VV-HDP4616 is recommended to use with Unshielded Twisted Paired (UTP) wiring from 24AWG through 22AWG. Individually shielded pairs should be avoided, as they reduce the operating range of the systems drastically. Multi-pair cable (25-pair or more) with an overall shield are acceptable. Video signals can coexist in the same wire bundle as telephone, datacom, or low-voltages power circuits. While video may be routed through telephone punch-down block terminals, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices MUST BE removed from the pair.

For more specific information regarding wire types, gauges and proper installation techniques, please contact us for technical assistance.



# HD Passive Video Balun

## Technical Specifications

Model		VV-HDP4616		
Product Name		16 Channel HD Passive Video Balun		
Applied Devices		CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equipment		
Video	Video Format	PAL, NTSC, SECAM		
	Operating Frequency	DC to 42MHz		
	Max Distance	HD-TVI 720P: 190m	HD-CVI 720P: 440m	AHD 720P: 300m
		HD-TVI 1080P: 190m	HD-CVI 1080P: 220m	AHD 960P: 240m AHD 1080P: 220m
	Common-mode/Differential-mode rejection	15KHz to 42MHz 60 dB typ		
	Impedance	Coax, female BNC	75Ω unbalanced	
		UTP, screw terminal block or RJ45	100Ω balanced	
Wire Type	Attenuation	1.5 dB typ Max		
	Network Wiring	One Unshielded Twisted Pair (for each video signal) 24-16 AWG (0.5-1.31mm)		
	Category Type	2 or better		
	Impedance	100 ± 20 ohms		
	DC Loop Resistance	52 ohms per 1,000ft (18 ohms per 100m)		
Connector	Differential Capacitance	19 pF/ft max (62 pF/m max)		
	Power	No external power required		
	Video input/output	Female BNC connector		
	Video output/input	pluggable screw terminal block and RJ45 for UTP ( select one connection)		
Protection	Surge Protection	renewable solid state surge protection		
	Antistatic	YES		
	Video Input	2KV(common mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999)		
	Video Output	2KV(different mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999)		
Mechanical	Dimensions(L*W*H)	BNC connector & mounting bracket excluded		
		430*85*44.5mm		
	Housing	Galvanized		
	Body Color	Black		
Environmental	Net Weight	1250g		
	Operating Temperature	-20° ~ 70° C		
	Relative Humidity	0~95% (non-condensing)		

# HD Passive Video Balun

Storage Temperature

-40° ~ 150° C

## Applications

- Security Monitoring System
- Multimedia Network Teaching System
- Medical Monitoring Display System
- Industrial Automation Control System
- Banking, securities, financial information display system
- Remote Network Server Monitoring
- Department Store Security
- Casino Security
- Hospitals, Airports and banks
- School Campuses

## Application Diagram

