

16 Channel HD Passive Video Balun



Overview

The S-PVB-16P 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. The S-PVB-16P is compatible with all HD-TVI, HD-CVI, AHD and CVBS analog cameras.

The S-PVB-16P supports pluggable screw terminal or RJ45 connections. Used with single channel HD passive video transmitter, the S-PVB-16P 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 S-PVB-16P 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".

Key Features

- Real-time transmission over UTP cat5e / cat-6
- No power required
- Compatible with all HD-TVI/CVI/AHD/CVBS analog cameras
- Color video max up to 190m (623ft) for HD-TVI 720P camera
Color video max up to 190m (623ft) for HD-TVI 1080P camera
Color video max up to 200m (656ft) for HD-TVI 3MPX camera
- Color video max up to 440m (1443ft) for HD-CVI 720P camera
If you adjust saturation of DVR, max up to 470m (1541ft)
Color video max up to 230m (754ft) for HD-CVI 1080P camera
Color video max up to 230m (754ft) for HD-CVI 4MPX camera
- Color video max up to 320m (1049ft) for HD-AHD 720P camera
Color video max up to 320m (1049ft) for HD-AHD 960P camera
Color video max up to 250m (820ft) for HD-AHD 1080P camera
- Color video max up to 180m (590ft) for HD-AHD 3MPX camera
Color video max up to 200m (656ft) for HD-AHD 4MPX camera
Color video max up to 200m (656ft) for HD-AHD 5MPX camera
- Color video max up to 400m (1312ft) for CVBS camera
- Female BNC connector
- RJ45 and detachable terminal blocks for UTP cat5e / cat-6
- Built-in solid state 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



Specification

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S-PVB-16P

Applied Devices CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equipment

Video Format HD-TVI/CVI/AHD/CVBS

Operating Frequency DC to 42MHz

| | | | | | | |
|--------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|
| Max Distance | HD-CVI 720P 440m(1443ft) | HD-CVI 1080P 230m(754ft) | HD-CVI 4MPX 230m(754ft) | | | |
| | HD-TVI 720P 190m(623ft) | HD-TVI 1080P 190m(623ft) | HD-TVI 3MPX 200m(656ft) | | | |
| | HD-AHD 720P 320m(1049ft) | HD-AHD 960P 320m(1049ft) | HD-AHD 1080P 250m(820ft) | HD-AHD 3MPX 180m(590ft) | HD-AHD 4MPX 200m(656ft) | HD-AHD 5MPX 200m(656ft) |

Common-mode/Differential-mode rejection 15KHz to 42MHz 60 dB typ

Impedance Coax: female BNC 75 Ω unbalanced
UTP: screw terminal block or RJ45 100 Ω balanced

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 UTP cat5e / cat-6

Impedance 100 \pm 20 ohms

DC Loop Resistance 52 ohms per 1,000ft (18 ohms per 100m)

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)

Surge Protection renewable solid state surge protection

Antistatic YES

Video Input 2KV(common mode), 10/700us IEC61000-4-5/1955(GB/T 1726, 5-1999)

Video Output 2KV(different mode), 10/700us IEC61000-4-5/1955(GB/T 1726, 5-1999)

Dimensions(L*W*H) BNC connector & mounting bracket excluded
430*85*44.5mm

Housing Galvanized

Body Color Black

Operating Temperature -10° ~ 60° C

Relative Humidity 0~95% (non-condensing)

Storage Temperature -40° ~ 70° C

Application Diagram

