

Single Channel HD Video & Power Balun



Overview

The S-PVB-1PV is video & power transmitter and receiver that allows the transmission of real-time CCTV HD video and power signal via cost-effective Unshielded Twisted Paired (UTP) cable. The S-PVB-1PV is compatible with all HD-TVI, HD-CVI, AHD and CVBS analog cameras.

The superior interference rejection and low emissions of the S-PV10 allow video & power signals via cat6 or cat5e cable. The S-PVB-1PV is built-in surge suppressor to protect video equipment against damaging voltage spikes. Its crosstalk and noise immunity ensure quality video signals.

Key Features

- Real-time transmission over UTP cat5e / cat-6
- 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
- Power signal up to 200m (656ft)
- Male BNC with extended 5.9inch (150mm) mini-coax pigtail
- RJ45 Jack for UTP cable
- Built-in solid state TVS (Transient Voltage Suppressor) for surge protection
- Wave Filter Design, Anti-Static Design
- Lightning protection design Grade: III
- 60 dB crosstalk and noise immunity
- Exceptional interference rejection
- ABS engineering plastic housing



Specification

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S-PVB-1PV

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

Video	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: Male BNC 75Ω unbalanced					
UTP:RJ45 100Ω balanced							
Attenuation	1.5 dB typ Max						
WireType	Network Wiring	One Unshielded Twisted Pair (for each video signal) 24-16 AWG (0.5-1.31mm)					
	Category Type	UTP cat 5e/6					
	Impedance	100 ± 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	Power Input	12V/24V,DC/AC					
Connector	Power transmission	12V/24V,DC/AC, via UTP cat5e/6. please refer to power distance chart above					
	Video input/output	Male BNC connector					
Protection	Video input/output	RJ45 Jack					
	Surge Protection	renewable solid state surge protection					
	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)					
Mechanical	Housing	ABS engineering plastic					
	Body Color	Black					
Environmental	Operating Temperature	-10° ~ 60° C					
	Relative Humidity	0~95% (non-condensing)					
	Storage Temperature	-40° ~ 70° C					

Application Diagram

