



VID-PB1-Series

Video Transceiver

The Aventura Technologies models VID-PB1-PV and VID-PB1-PVD video baluns are passive (non-amplified) devices that allow for the transmission of real-time monochrome or color video over 4-pair Unshielded Twisted Pair (UTP) network cabling, while providing robust transient voltage protection on the video connections. NTSC, PAL, and SECAM signal formats are supported. Both models allow for the connection of 12VDC or 24/28VAC power connections between the control room and the camera, using Aventura's DNW™ pinout. The VID-PB1-PVD device adds the ability to connect RS-422/485 type, 2-wire, bi-directional data communication signals between the camera and the control room. Both devices are compatible with the entire Aventura DNW™ product line of devices.

SPECIFICATIONS

VIDEO	
Compatible Formats	NTSC, PAL, SECAM
Frequency Response	DC-8MHz
Attenuation	0.55 dB typ.
Common-Mode/Differential-Mode	Rejection: 60 dB typ. Impedance: BNC (Coax)75 Ohms RJ-45 (UTP)100 Ohms
ENVIRONMENTAL CONTROL	
Operating Ambient Temperature	-2 0°C to +80 °C
Storage Temperature	-2 0°C to +80 °C
Operation and Storage Humidity	0% to 95% RH, Non-condensing
PHYSICAL & MEASUREMENTS	
Dimensions	1.69" x 1.97" x 0.87" (43 x 50 x 22 mm)
Weight	35 (g)

Cable Distance Chart (Power vs. Distance)

OPERATING CONDITIONS			
Voltage at Power Supply	12 V	24 V	28 V
Minimum voltage Allowed at Camera	10.5 V	21 V	21 V
2.5 W CAMERA (208 mA@12 VDC or 104 mA 24 VAC)			
2-Pairs of 24AWG (Cat-5e)	209 ft (64m)	835 ft (254m)	1948 ft (594m)
2-Pairs of 23AWG (Cat-6)	263f t (80m)	1050 ft (320m)	2451 ft (747m)
5W CAMERA (417 mA@12 VDC or 208 mA 24 VAC)			
2-Pairs of 24AWG (Cat-5e)	104 ft (32m)	417 ft (127m)	974 ft (297m)
2-Pairs of 23AWG (Cat-6)	131 ft (40m)	525 ft (160m)	1225 ft (374m)
7.5 W CAMERA (625 mA@12 VDC or 312 mA 24 VAC)			
2-Pairs of 24AWG (Cat-5e)	70 ft (21m)	278 ft (85m)	649 ft (198m)
2-Pairs of 23AWG (Cat-6)	88 ft (27m)	350 ft (107m)	817 ft (249m)
12 W CAMERA (1 A@12 VDC or 500 mA 24 VAC)			
2-Pairs of 24AWG (Cat-5e)	43 ft (13m) *	174 ft (53m)	406 ft (124m)
2-Pairs of 23AWG (Cat-6)	55 ft (17m) *	219 ft (67m)	511 ft (156m)

* Not recommended due to excessive current on the UTP cable.

Warranty (Effective Jan 1, 2009)

Limited Lifetime



- Video Transceiver with Power and Data
- Real-Time Monochrome
- Transient Voltage Protection
- 12 VDC/24 VAC/48 VDC Power Connection

AVAILABLE MODELS

Part number	Description
VID-PB1-PV	Video Transceiver with Power
VID-PB1-PVD	Video Transceiver with Power and Data

