

Overview

The Stereo AV/IR Pass-Thru Wall Balun (500049-WP-US) allows one (1) composite video, one (1) stereo audio and one (1) IR emitter signal to be transmitted via a single Cat5e/6 cable in a point-to-point connection. The Stereo AV/IR Pass-Thru Wall Balun features full audio bandwidth response for high fidelity applications and is Decora™ compatible.

The Stereo AV/IR Pass-Thru Balun works in pairs or in conjunction with the 500048 or 500049. Some of the applications are; classroom video distribution, commercial and home audio/video systems, hospital video training, video conferencing, and video kiosks.



Features & Benefits

Video up to 2,200 feet (670m) via Cat5e/6

Audio up to 3,250 ft (990m) via Cat5e/6

20 Hz to 20 kHz audio bandwidth

IR 2-wire emitter pass-thru on fourth twisted pair

Compatible with Decora™ face plates

Specifications		
Environment	Composite video (NTSC, PAL, SECAM). Line level analog audio. IR remote	
Devices	DVD players, VCR, satellite receivers, MPEG players, laptops, notebooks, monitors, DLP projectors, CCD cameras, video switchers, sequencers, digital video servers, video multiplexers, video splitters, video converters and other composite video equipment.	
Transmission	Transparent to the user.	
	Composite Video	Audio
Bandwidth	DC to 6 MHz	20 Hz to 20 KHz over the distance range
Impedance	75 ohms	600 ohms min.
Max. Input	1.1 Vp-p	1.1 Vp-p
Insertion Loss	Less than 2 dB per pair over the frequency range from DC to 6 MHz	Less than 2 dB per pair over the frequency range
Return Loss	Better than 15 dB over the frequency range	N/A
Common Mode Rejection Ratio	Greater than 40 dB over the frequency range	N/A
Max. Distance via Cat 5E/6 UTP/STP Cable	2,200 ft (670 m) IR: Please refer to IR vendor specifications	3,250 ft (990 m)
Pin Configuration (RJ45)	Video: Pins 7(R) & 8(T) IR Pass-Thru: Pins 4(R) & 5(T) <i>Reverse Polarity Sensitive</i>	Audio 1: Pins 1(R) & 2(T) Audio 2: Pins 3(R) & 6(T)
Cable: Cat 5E/6 UTP/STP	24 AWG or lower solid copper twisted pair wire Impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/ft Attenuation: 6.6 dB/1,000 ft at 1 MHz	
Connectors	Three RCA-F connectors: Video (yellow) & stereo audio (red, white) One (1) 2-pole terminal block for IR emitter pass-through One (1) RJ45 for Cat 5E/6	
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing	
Enclosure	ABS fire retardant plastic, Color white, Finish glossy.	
Dimensions	4.1" (104 mm) x 1.8" (45.7 mm) x 1.44" (36.6 mm). Choose 1.6" (40 mm) deep back box to allow for Cat 5E/6 wiring connection.	
Weight	4.1 oz (115 g)	
Compliance	FCC, CE, Decora® faceplate.	
Warranty	Lifetime	
Order Information	500049-WP-US Stereo AV/IR Pass-Thru Wall Balun UPC: 6-27699-92049-7	

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Typical Application