

### 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		
<b>Environment</b>	Composite video (NTSC, PAL, SECAM). Line level analog audio. IR remote	
<b>Devices</b>	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.	
<b>Transmission</b>	Transparent to the user.	
	<b>Composite Video</b>	<b>Audio</b>
<b>Bandwidth</b>	DC to 6 MHz	20 Hz to 20 KHz over the distance range
<b>Impedance</b>	75 ohms	600 ohms min.
<b>Max. Input</b>	1.1 Vp-p	1.1 Vp-p
<b>Insertion Loss</b>	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
<b>Return Loss</b>	Better than 15 dB over the frequency range	N/A
<b>Common Mode Rejection Ratio</b>	Greater than 40 dB over the frequency range	N/A
<b>Max. Distance via Cat 5E/6 UTP/STP Cable</b>	2,200 ft (670 m) IR: Please refer to IR vendor specifications	3,250 ft (990 m)
<b>Pin Configuration (RJ45)</b>	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)
<b>Cable: Cat 5E/6 UTP/STP</b>	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	
<b>Connectors</b>	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	
<b>Temperature</b>	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing	
<b>Enclosure</b>	ABS fire retardant plastic, Color white, Finish glossy.	
<b>Dimensions</b>	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.	
<b>Weight</b>	4.1 oz (115 g)	
<b>Compliance</b>	FCC, CE, Decora® faceplate.	
<b>Warranty</b>	Lifetime	
<b>Order Information</b>	500049-WP-US Stereo AV/IR Pass-Thru Wall Balun UPC: 6-27699-92049-7	

Decora™ is a registered trademark of Leviton Manufacturing Co, Inc..

**Typical Application**

