Overview

The Stereo AV/IR Pass-Thru Balun (500048, 500049) 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 Balun features full audio bandwidth response for high fidelity applications and features built-in color-coded cable leads for ease of installation.

The Stereo AV/IR Pass-Thru Balun also works in conjunction with third party IR Remote Control equipment allowing the IR Emitter to connected the IR control module using the same Cat5E/6 cable as video and audio for more cost-efficient cabling. 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
Built-in color-coded cable leads
Lifetime warranty

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
Impedance	75 ohms	600 ohms min.
Max. Input	1.1Vp-p	1.1Vp-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	Greater than 40 dB over the frequency range	N/A
Max. Distance – Cat5E/6 UTP	2,200 ft. (670m) IR: Please refer to IR vendor specs.	3,250 ft (990m)
Pin Configuration (RJ45)	Video (Yellow): pins 7[R] & 8 [T] IR Pass-Thru: pins 4 [R] & 5 [T] *Reverse Polarity Sensitive*	Audio 1 (White): pins 1[R] & 2 [T] Audio 2 (Red): pins 3 [R] & 6 [T]
Cable – UTP	24AWG or lower solid copper twisted pair wire Impedance: 100 ohms at 1 MHz; Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz	
Connectors	500048: Three RCA-M connectors: Video (yellow) & stereo audio (red, white) 500049: 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 Cat5	
Temperature	Operating: 0º to 55º C. Storage:-20º to 85º C. Humidity: up to 95% non-cond.	
Enclosure	Fire retardant plastic	
Dimensions	500048: 2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.54 cm) plus 6" (15.24cm) cable leads for video and stereo audio 500049: 2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.54 cm)	
Weight	3.1 oz (89 gms)	
Warranty	Lifetime	
Order Information	500048 VideoEase Stereo AV/IR Pass-Thru Balun, M 500049 VideoEase Stereo AV/IR Pass-Thru Balun, F	

Typical Applications

8495 Dalton Road, Mount Royal, Quebec, Canada, H4T 1V5
Tel: (514) 905 0588 Fax: (514) 905 0589
Toll Free (North America): 877 689-5228
E-mail: videoease@muxlab.com
URL:www.muxlab.com