

### Overview

The Stereo Audio-Video Balun allows a single composite video signal and a maximum of two (2) unbalanced audio signals to be transmitted via unshielded twisted pair (UTP) cable in a point-to-point connection.

Used in pairs, the Stereo Audio-Video Balun eliminates up to three (3) coaxial cables, allowing audio-video equipment to be connected via space-efficient and cost-effective Category 5 twisted pair cable.

The Stereo Audio-Video Balun also works in conjunction with MuxLab's Audio-Video Distribution Hub (500200) allowing audio-video programming to be distributed via UTP.

### Applications

Classroom video distribution, commercial and home audio/video systems, hospital video training, video conferencing, and video kiosks.



### Features & Benefits

- Cost-effective cabling
- Up to 2,200 feet (670m) in color via Cat5e/6 UTP
- Includes one (1) 9" coax (BNC/BNC) jumper cable.
- Compact design for neater wiring

Specifications	
<b>Environment</b>	Composite video and unbalanced audio for the consumer and commercial market.
<b>Devices</b>	DVD, VCR, camcorders, audio receivers, audio amplifiers, AV switchers, splitters, AV mixers and other analogue audio-video equipment featuring coaxial input or output with BNC or RCA connectors.
<b>Transmission</b>	Transparent to the user.
<b>Bandwidth (3dB)</b>	Video: DC to 8 MHz. Audio: 20 Hz to 20 kHz
<b>Maximum Video Input</b>	1.1Vp-p
<b>Insertion Loss</b>	Less than 2 dB per pair over the frequency range from DC to 8 MHz
<b>Return Loss</b>	Greater than 15 dB over the frequency range from DC to 8 MHz
<b>Common Mode Rejection</b>	Greater than 40 dB @ 8 MHz
<b>Max. Distance – Colour Video</b>	Cat5e/6 – 2,200 ft.
<b>Max. Distance – Audio</b>	Cat5e/6 – 5,000 ft
<b>Cable – UTP</b>	24 gauge 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
<b>Cable – RCA</b>	Standard audio cable terminated by RCA connectors.
<b>Cable - BNC</b>	75-ohm coaxial cable
<b>Connectors</b>	One (1) BNC-receptacle. Includes 9" coax jumper cable. Two (2) RCA-receptacle One (1) RJ45 jack
<b>Pin Configuration</b>	Video: Pins 7 (R) & 8 (T). Audio 1: Pins 1 (R) & 2 (T). Audio 2: Pins 3 (R) & 6 (T).
<b>Impedance</b>	Video: 75 ohms (BNC) unbalanced. Audio: 600 ohms (RCA) unbalanced.
<b>Temperature</b>	Operating: 0 to 55 C. Storage: -20 to 85 C. Humidity: up to 95%
<b>Enclosure</b>	Fire retardant plastic
<b>Dimensions</b>	2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.54 cm)
<b>Weight</b>	4.25 oz (121 gms)
<b>Warranty</b>	Lifetime
<b>Order Information</b>	500001 Stereo Audio-Video Balun

### Typical Application

