

## Overview

The VideoEase Dual Audio-Video Balun allows up to two (2) composite video signals and up to two (2) unbalanced audio signals to be transmitted via unshielded twisted pair (UTP) cable in a point-to-point connection.

Used in pairs, the Dual Audio-Video Balun eliminates up to four (4) coaxial cables, allowing audio-video equipment to be connected via space-efficient and cost-effective Category 5 twisted pair cable.

The Dual Audio-Video Balun also works in conjunction with MuxLab's Audio-Video Distribution Hub (p/n500200) allowing audio-video programming to be distributed via UTP to up to eight (8) locations.



## Applications

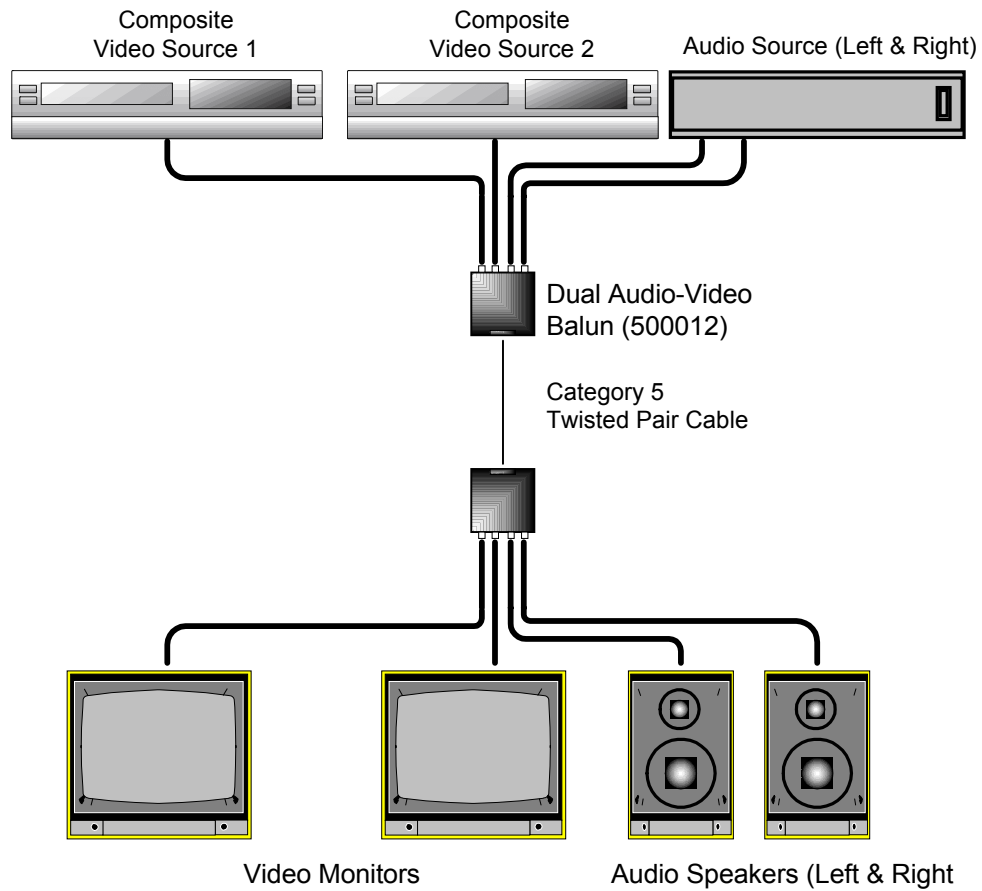
Classroom video distribution, commercial and home audio/video systems, hospital video training, video conferencing, podium presentation systems and video kiosks.

## Features & Benefits

Cost-effective cabling – save up to three cables  
 Up to 2200 feet (670m) in color via Cat 5 UTP  
 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</b>                    | Video: DC to 8 MHz.<br>Audio: 20 Hz to 50 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> | Cat 5 – 2,200 ft   |
| <b>Max. Distance – Audio</b>        | Cat 5 – 5,000 ft   |
| <b>Cable – UTP</b>                  | 24 gauge or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz.<br>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>                   | Two (2) RCA-receptacle for video<br>Two (2) RCA-receptacle for audio<br>One (1) RJ45 jack  |
| <b>Pin Configuration</b>            | Video 1: Pins 7&8<br>Video 2: Pins 4&5<br>Audio 1: Pins 1&2<br>Audio 2: Pins 3&6   |
| <b>Impedance</b>                    | Video: 75 ohms (RCA) unbalanced.<br>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>Warranty</b>                     | Lifetime   |
| <b>Order Information</b>            | 500012 VideoEase Dual Audio-Video Balun  |

### Typical Application



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