



## Overview

The VideoEase Audio-Video Hub allows up to two (2) baseband composite or one (1) S-Video signal and up to two (2) audio signals to be distributed to up to eight (8) destinations via twisted pair (UTP) cable for more cost-effective and versatile cabling.

The Audio-Video Hub when used in conjunction with MuxLab's line of VideoEase baluns, allows coax cable to be eliminated between the audio-video source and the destinations. The product works with the CCTV Baluns (500000, 500009), Stereo Audio-Video Balun (500001), Dual Audio-Video Balun (500012) and S-Video Baluns (500016, 500017).

A looping output allows the source input to be distributed to other baseband audio/video equipment including matrix switchers, multiplexers, VCRs and monitors.



## Applications

Classroom audio/video instruction  
Corporate audio/video presentations  
Tradeshaw demonstration systems  
CCTV security and surveillance

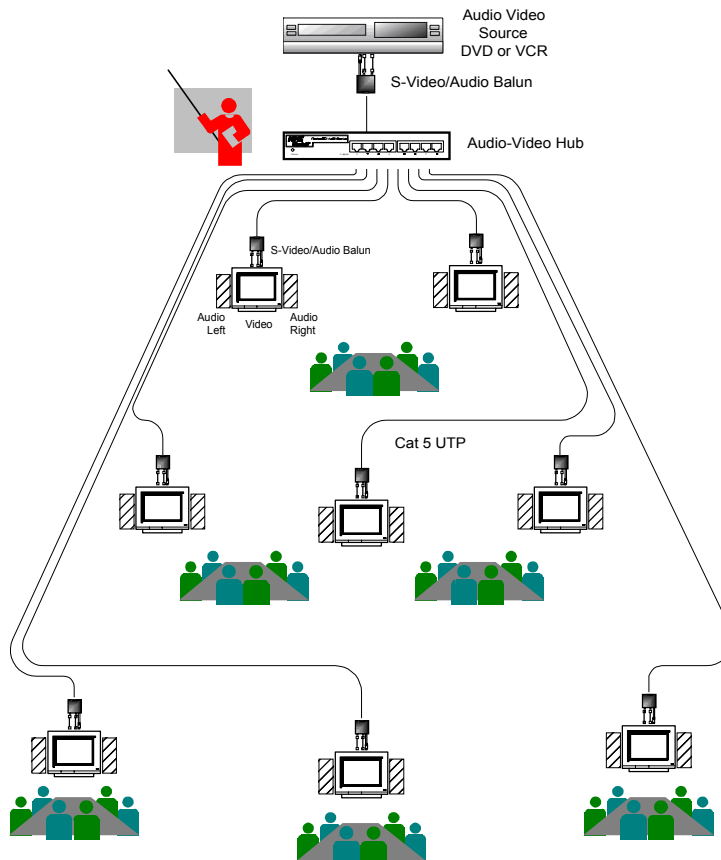
## Benefits

Distribute audio-video to multiple locations via UTP  
Eliminates costly and bulky coax cable  
Centralised cabling for greater control  
Quicker moves, adds and changes

## Features

Supports NTSC and PAL  
Up to 2200 ft in color via Cat 5 twisted pair cable.  
Supports up to 2 video and 2 audio channels  
Integrates seamlessly with MuxLab VideoEase baluns  
Looping output to other hubs or audio-video equipment.  
2-year warranty.

## Typical Application



Specifications	
<b>Environment</b>	Composite baseband audio-video (NTSC, PAL), S-Video, CCTV.
<b>Devices</b>	DVD, VCR, DVR, audio-video matrix switchers, digital video players (MPEG), sequencers, multiplexers, video-conferencing, CCTV cameras, CCTV monitors and other analogue baseband audio-video equipment.
<b>Transmission</b>	Transparent to the user.
<b>Source Impedance Req'ts</b>	Video OUT: 75 ohms                      Audio OUT: 600 ohms max
<b>Destination Impedance Req.</b>	Video IN: 75 ohms                        Audio IN: 600 ohms min.
<b>Hub Impedance</b>	Video IN: 100 ohm balanced            Audio IN: 10 kohms min. balanced Video OUT: 100 ohms balanced        Audio OUT: 600 ohm balanced
<b>3 dB Bandwidth</b>	Video: DC to 8 MHz.                      Audio: 50 Hz to 16 kHz
<b>Max. Differential Input</b>	Video: 0.55 Vp-p                         Audio: .50 Vp-p
<b>Max. Differential Output</b>	Video: 0.55 Vp-p                         Audio: .50 Vp-p
<b>Insertion Loss (differential)</b>	Video: 0 dB max. @ 4 MHz Audio: 1 dB max. @ 1 kHz
<b>Video Return Loss</b>	24 dB minimum
<b>Common Mode Rejection</b> Input: balanced. Output: unbalanced	Video: Greater than 40 dB over the frequency range. Audio: Greater than 60 dB over the frequency range.
<b>Crosstalk Immunity</b>	60 dB minimum over the frequency range
<b>Max. Distance via Cat 5 Twisted Pair (UTP) *</b>	Composite Video Color:    2200 ft (670m) * Composite Video B&W:    2500 ft (762m) * S-Video:                      1000 ft (305m) * <i>*Measured between Source (ie;DVD) and Destination (ie;Monitor) with Hub placed anywhere between the source and destination</i>
<b>Cable – UTP</b>	24 gauge or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz. Cat 3 or better.
<b>Connectors</b>	Source Input:                                One (1) RJ45 on rear panel Looping Output:                            One (1) RJ45 on rear panel Distribution Outputs:                        Eight (8) RJ45 on front panel
<b>RJ45 Pin Configuration</b> <i>Reverse Polarity Sensitive</i>	Video 1: Ring 7 Tip 8                      Audio 1: Ring 1 Tip 2 Video 2: Ring 4 Tip 5                      Audio 2: Ring 3 Tip 6
<b>Compatible Baluns</b>	500000, 500009, 500001, 500012, 500016, 500017
<b>Diagnostics</b>	Power LED – green
<b>Power Supply</b>	External AC: 110V and 220/240V DC: +/- 12VDC, 5W total max.
<b>Power Supply Connector</b>	5-pin DIN; pin 1 GND, pin 2 GND, pin 4 -12V, pin 5 +12V.
<b>Temperature</b>	Operating: 0 to 55 C. Storage:-20 to 85 C. Humidity: up to 95%
<b>Dimensions</b>	8.5" x 4" x 1.3"
<b>Compliance</b>	FCC, CE-EMC Directive 89/336/EEC
<b>Warranty</b>	2 years
<b>Order Information</b>	500200 VideoEase Audio-Video Hub, 110V 500201 VideoEase Audio-Video Hub, 220/240V

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