MuxLab

Overview

The Component Video Hub allows one (1) full component video (YPbPr/RGB) source and one (1) digital or analog audio source to be distributed up to eight (8) or sixteen (16) destinations depending on the model for more cost-efficient cabling. The 500250 and 500252 support up to eight (8) or sixteen (16) ports respectively. The hub works in conjunction with the 500050, 500051, 500052, 500053, 500054, 500055, 500056 and 500057 baluns.

Applications

Digital signage, boardroom systems, residential and commercial multi-display systems, classroom training, retail systems, electronic billboards, electronic signs, video kiosks, point-of-sale displays, in-store video.

Features

Modular RJ45 on input and output
Cascadable up to two (2) levels
Supports 480i/p up to 1,000 ft (305m) via Cat5
Supports 720p/1080i/p up to 500 ft (152m) via Cat5
Supports digital or analog audio on fourth twisted pair
Ground loop isolation on every port
Integrates seamlessly with MuxLab baluns.

Specifications	
Environment	Component baseband video (YPbPr/RGB) and Digital or Mono Analog Audio
Devices	DVD players, DVR, AV matrix switchers, DLP projectors, plasmas, monitors, home theatre.
Transmission	Transparent to the user.
3 dB Bandwidth	Video: DC to 77 MHz. Digital Audio: DC to 52MHz Analog Audio: 20 to 20kHz
Insertion Loss (differential)	Video: -0.8 dB @ 4 MHz Digital Audio: -1.26 dB @ 4 MHz. Analog Audio: 1 dB @ 4 MHz.
Video Return Loss	-23dB @ 4 MHz.
Common Mode Rejection Input: balanced. Output: balanced	Video: Greater than 40 dB over the frequency range. Digital Audio: Greater than 31.5 dB over the frequency range Analog Audio: Greater than 60 dB @ 1 KHz; Greater than 40 dB over the frequency range.
Crosstalk Immunity	-60 dB @ 4 MHz
Total Harmonic Distortion	Analog Audio: Less than 0.007% @ 1KHz.
Max. Distance via Cat 5 Twisted Pair (UTP)*	Component Video (YPbPr): 480i/p: 1,000 ft (305m) * 720p and 1080i: 500 ft (152m) * Digital Audio: 600 ft (182m) * Analog Audio: 3.250 ft (990m) * *Measured between Source (ie;DVD) and Destination (ie;Monitor) with Hub placed anywhere between the source and destination*
Compatible Baluns	500000, 500002, 500009, 500020, 5000021, 500050, 500051, 500052, 500053 ***Not compatible with p/n 500058***
Cascadability	Up to two (2) levels.
Ground Loop Isolation	Ground loop isolation on every port.
Cable – UTP	24 gauge or lower solid copper twisted pair wire impedance: 100 ohms at 1 MHz. Cat 3 or better.
Connectors	Source Input: One (1) RJ45S on rear panel Looping Output: One (1) RJ45S on rear panel Distribution Outputs: Eight (8) or sixteen (16) RJ45S on front panel
RJ45 Pin Configuration *Reverse Polarity Sensitive* *EIA568A or B*	Red (Pr) : Pins 7 [R] & 8 [T] Green (Y) : Pins 3 [R] & 6 [T] Blue (Pb) : Pins 1 [R] & 2 [T] Digital/Analog Audio : Pins 4 [R] & 5 [T]
Configuration Switch	Sets hub to digital or analog audio on fourth twisted pair. Factory default: analog audio.
LED Diagnostics	Power (green), Video Sync (green), Digital Audio Sync (green):
Power Supply	External AC: 110V and 220/240V DC: 12VDC, 1.25A (8-port model) or 2.5A (16-port model).
Temperature	Operating: 0º to 40º C. Storage:-20º to 85º C. Humidity: up to 95% non-condensing.
Dimensions	500250/500251: 9.125" x 6.75" x 1.75" (23.18 cm x 17.15 cm x 4.45 cm) 500252/500253: 19" x 6.75" x 1.75" (48.26 cm x 17.15 cm x 4.45 cm)
Weight	500250/500251: 3.3 lbs (1.5 kgs) 500252/500253: 5.5 lbs (2.5 kgs)
Compliance	FCC, CE-EMC Directive 89/336/EEC, RoHS, WEEE
Warranty	2 years
Order Information	500250 Component Video Hub, 8 Ports, 110V 500251 Component Video Hub, 8 Ports, 220/240V 500252 Component Video Hub, 16 Ports, 110V 500253 Component Video Hub, 16 Ports, 220/240V
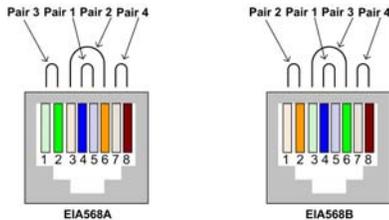
Typical Application
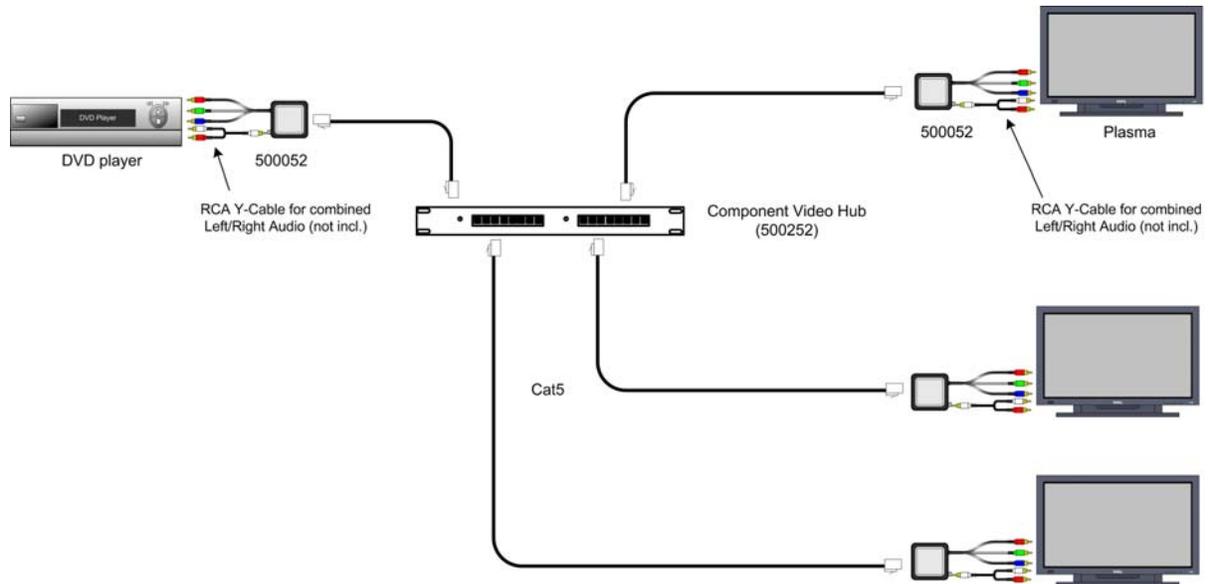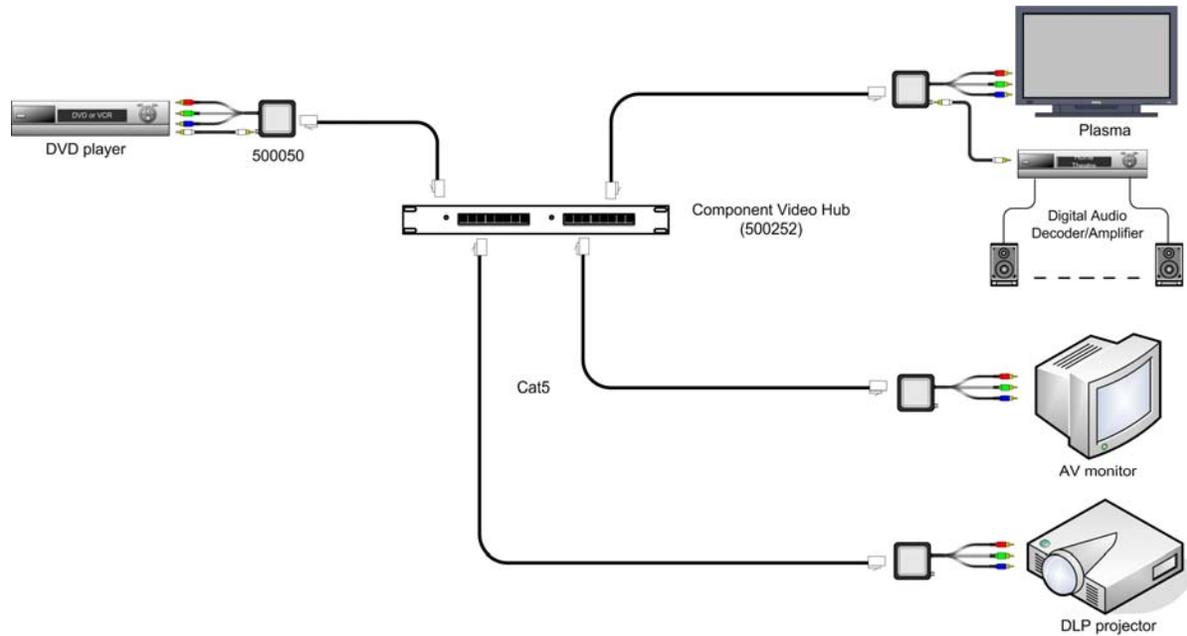
	Compatible Baluns							
Distribute	**500050**	**500051**	**500052**	**500053**	**500054**	**500055**	**500056**	**500057**
Component & Digital Audio	✳	✳						
Component & Analog Mono Audio			✳	✳				
Component Video Only	✳	✳	✳	✳	✳	✳	✳	✳

Tel: (514) 905 0588 Fax: (514) 905 0589
Toll Free: 877 689-5228
E-mail: videoease@muxlab.com
URL:www.muxlab.com