

Overview

The VideoEase CCTV Pass-Thru Balun (500022) allows video, remote power and 2-wire pan, tilt, zoom (PTZ) control signals to be transmitted via one 4-pair Cat 5 cable, thus eliminating the need to install multiple cables for more efficient cabling.

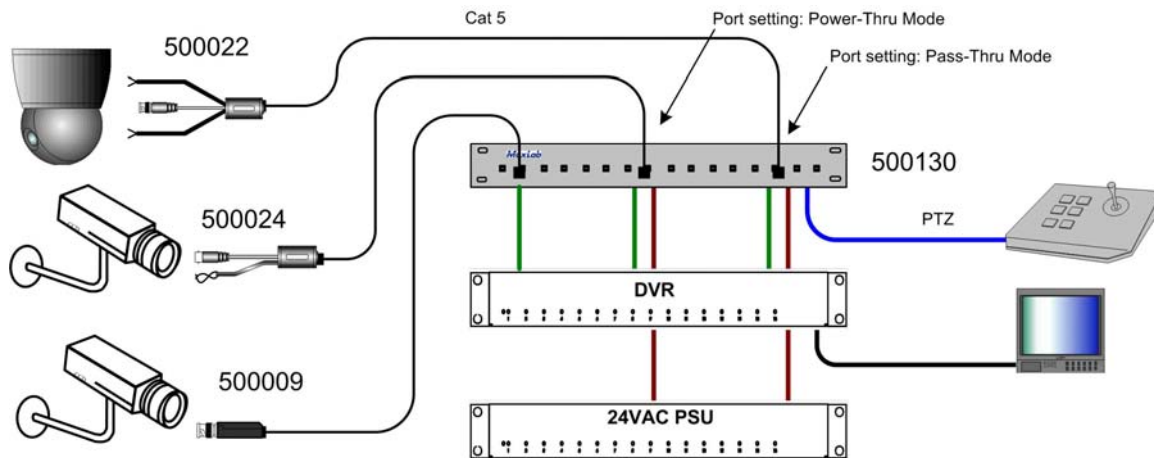
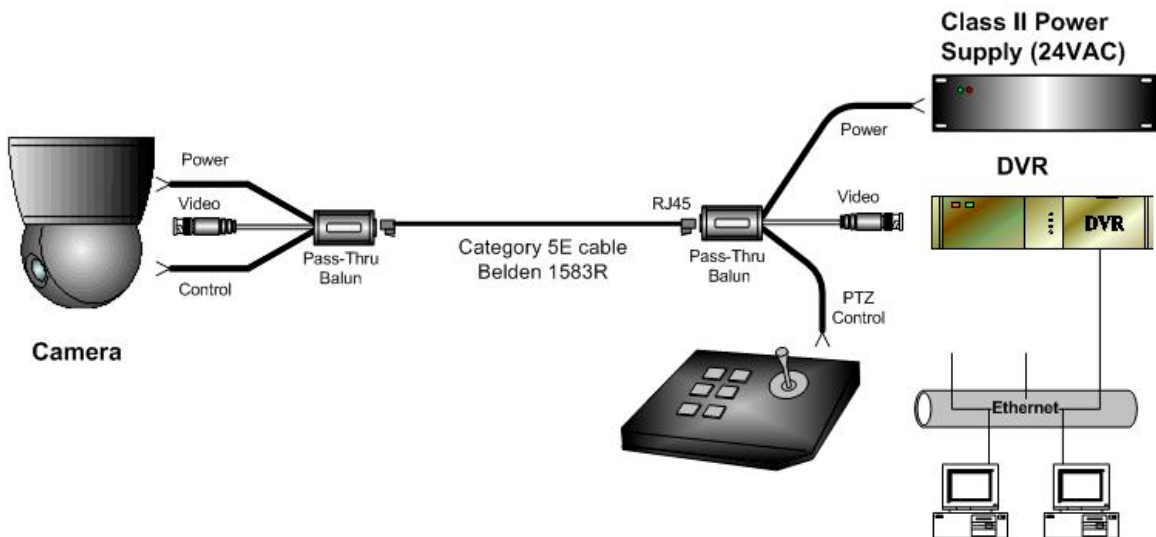
The Pass-Thru Balun may be used in pairs or it may be installed at the camera and connected to standard twisted pair cross-connect devices at the remote end. The product is fully compatible with other MuxLab CCTV baluns such as the 500000, 500009, 500023 and 500015.



Features/Benefits

Combines video, power and PTZ control under one 4-pair Cat 5 cable for more efficient cabling
Video up to 2,200 ft (670m) via Cat 5 UTP*
Compact - fits inside dome cameras, back boxes.
* Shorter distances may result with certain models of DVR.

Typical Applications



Head Office

5450 Cote-de-Liesse, Montreal, Quebec, H4P 1A5

Internet: www.muxlab.com

E-mail: videoease@muxlab.com

VideoEase CCTV Pass-Thru Balun

500022

Specifications			
Environment	Baseband video; NTSC, PAL, SECAM		
Devices	Close-circuit TV (CCTV) cameras , monitors, switchers, sequencers, multiplexers, digital video recorders (DVR) and other CCTV equipment.		
Transmission	Transparent to the user.		
Video			
Bandwidth	DC to 8 MHz.		
Impedance	Input: 75 ohms (BNC); Output: 100 ohms (RJ45)		
Maximum Input	1.1Vp-p		
Insertion Loss	Less than 2 dB per pair over the frequency range from DC to 8 MHz		
Return Loss	Greater than 15 dB over the frequency range from DC to 8 MHz		
Common Mode Rejection	Greater than 40 dB @ 8 MHz		
Max. Distance - Colour	Cat 3 –1,200 ft (365m); Cat 5 – 2,200 ft. (670m)* <i>*Certain models of DVR may yield shorter distances of 1,000 to 1,500 ft</i>		
Max. Distance - Black & White	Cat 3 –1,500 ft (457m); Cat 5 – 2,500 ft (762m)		
Remote Power (ie; 24 VAC, 28 VAC)			
Wiring	Remote low voltage power supported via two (2) twisted pairs. A Class II power supply is recommended.		
Max. Distance @ 24VAC via two twisted pairs*	5 vA: 350 ft (107m)* 10 vA: 175 ft (53m)* 20 vA: 90 ft (30m)* 30 vA: 60 ft (20m)* <i>*Longer distances may be achieved @ 28 VAC. *Based on 10% voltage drop at camera. Please consult your CCTV equipment vendor for more detailed performance specifications.</i>		
2-Wire PTZ Control (i.e. RS-422, Manchester/Bi-Phase, half duplex RS485)			
Wiring	Remote 2-wire PTZ control supported via one (1) twisted pair.		
Maximum Distance	Up to 4,000 ft (1.2 km) depending on the PTZ camera vendor** <i>**Please consult your CCTV equipment vendor for more detailed performance specifications.</i>		
Maximum Input Voltage	50 Volts (AC RMS/DC)		
Maximum Current Rating	3A (AC RMS/DC)		
Mechanical & Environmental			
Cable – UTP	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		
Cable – Coax	Impedance: 75 Ω at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end.		
Connectors	Combined signals: RJ45 Video: BNC-male 8" mini-coax lead Power: 2-wire 18AWG lead Control: 2-wire 24AWG twisted pair lead		
Pin Configuration* <i>*Reverse polarity sensitive</i>	Signal	RJ45 Pin	Cable Lead Color
	Power A	1 (common with 3)	Red
	Power B	2 (common with 6)	Black
	Power A	3 (common with 1)	Red
	Control +	4	Blue solid/White band*
	Control -	5	White solid/Blue band*
	Power B	6 (common with 2)	Black
	Video BNC Center (Tip)	7 [T] opposite to 500000	Mini-coax
	Video BNC Ground (Ring)	8 [R] opposite to 500000	Mini-coax
Temperature	Operating: 0° to 55°C. Storage:-20° to 85°C. Humidity: up to 95%		
Enclosure	ABS fire retardant plastic		
Dimensions	1.875" (4.7cm)x 1.0" (2.54cm) diameter plus cable leads; 8" (20cm) for video; 10" (25.4cm) for power and control leads		
Weight	1.95 oz (55 gms)		
Warranty	Lifetime		
Order Information	500022 VideoEase CCTV Pass-Thru Balun		