MuxLab

Overview

The CCTV Pass-Thru Balun (500022) allows video, remote power and 2-wire PTZ control signals to be transmitted via one 4-pair Cat5e/6 cable, thus eliminating the need to install multiple cables for more efficient cabling. The CCTV Pass-Thru Balun may be used in pairs or in conjunction with MuxLab's Passive CCTV Hub (500130).



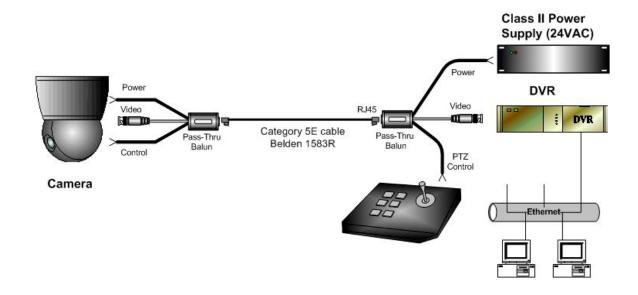
Features/Benefits

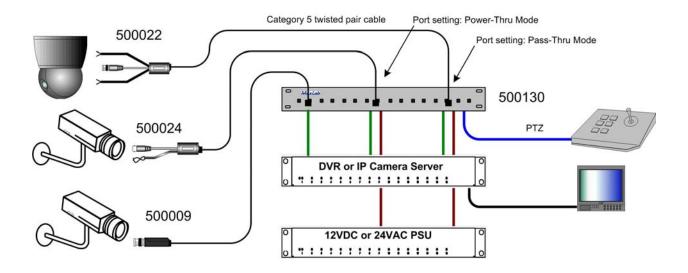
Combines video, power and PTZ control under one 4-pair Cat5e/6 cable for more efficient cabling Video up to 2,200 ft (670m) via Cat 5 UTP* Compact - fits inside dome cameras, back boxes. * Shorter distances may result with certain models of DVR.

Specifications				
Environment	Baseband video; NTSC, PAL	Baseband video; NTSC, PAL, SECAM		
Devices	Close-circuit TV (CCTV) cameras , monitors, switchers, IP encoders, 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	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)* *Certain models of DVR may yield shorter distances of 1,000 to 1,500 ft			
Max. Distance - Black & White	Cat 3 –1,500 ft (457m); Cat 5 – 2,500 ft (762m)			
Remote Power (ie; 24 VAC, 28 VA	, , , , , , , , , , , , , , , , , , , ,	_,000 it (1.02)		
Wiring	Remote low voltage power supported via two (2) twisted pairs. A Class II power			
······9	supply is recommended.			
Max. Distance @ 24VAC via two	5 vA: 350 ft (107m)* 10 vA: 175 ft (53m)*			
twisted pairs*	20 vA: 90 ft (30m)* 30 vA: 60 ft (20m)*			
*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.			
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**			
	**Please consult your CCTV equipment vendor for more detailed performance specifications.			
Maximum Input Voltage	50 Volts (AC RMS/DC)			
Maximum Current Rating	3A (AC RMS/DC)			
Mechanical & Environmental	O4 mayor on layon called account visted and reviewing improduces 400 above at 4 MHz			
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	' '			
Connectors	Impedance: 75 Ω at 1 MHz. (RG59/U). Max. 25 ft. of coax allowed end to end. Combined signals: RJ45 Video: BNC-male 8" mini-coax lead			
Connectors	Power: 2-wire 18AWG lead Control: 2-wire 24AWG twisted pair lead			
Pin Configuration*	Signal	RJ45 Pin	Cable Lead Color	
*Reverse polarity sensitive	Olgilai	110-10 1 111	Subic Load Soloi	
	Power A	1 (common with 3)	Red	
	Power B	2 (common with 6)	Black	
	Power A Control +	3 (common with 1)	Red 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 CCTV Pass-Thru Balun			

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Typical Applications





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