

Overview

The CCTV Pass-Thru/GLI Balun (500132) allows video, remote power and 2-wire PTZ control to be transmitted via one 4-pair Cat5E/6 cable and is designed for installations where ground loop issues may be present. The product features ground loop isolation (GLI) and is installed either at the camera or DVR side in conjunction with other standard MuxLab CCTV baluns such as the 500009, 500022, 500024/29 and 500130.



Features/Benefits

Video, power and PTZ over one Cat5E/6 cable
Video up to 2,200 ft (670m) via Cat5E/6 UTP*
Ground Loop Isolation (GLI)
May be installed at camera or DVR side.
** Shorter distances may result with certain models of DVR.*

Applications

Campus, high rise, manufacturing, retail and distribution where ground loops may be present.

Specifications			
Environment	Baseband video; NTSC, PAL, SECAM		
Devices	CCTV cameras, monitors, DVR, IP Encoders and other CCTV equipment.		
Transmission	Transparent to the user.		
Video			
Bandwidth	20 Hz to 8 MHz.		
Impedance	Input: 75 ohms (BNC); Output: 100 ohms (RJ45)		
Maximum Input	1.1Vp-p		
Insertion Loss	Less than 4 dB per pair from 20Hz to 8 MHz		
Return Loss	Less than -15 dB		
Common Mode Rejection	Greater than 20 dB		
Ground Loop Isolation	Up to 50VDC		
Max. Distance - Colour	Cat 3 –1,200 ft (365m); Cat5E/6 – 2,200 ft. (670m)* <i>*Certain models of DVR may yield shorter distances of 1,000 to 1,500 ft</i>		
Remote Power (i.e.; 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>*Based on 10% voltage drop at camera. Please consult your CCTV equipment vendor for more info.</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		
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-F Power: 2-pole terminal block Control: 2-pole terminal block		
Switch	Select between Power-Thru (500024/500029) and Pass-Thru (500022) Mode		
RJ45 Pin Configuration*	Signal	500022 Mode	500024/500029 Mode
<i>*Reverse polarity sensitive</i>	Power A (+)	1, 3	1, 3, 5
	Power B (-)	2, 6	2, 4, 6
	Control (+)	4	NA
	Control (-)	5	NA
	Video BNC Center (Tip)	7 [T] same as 500000R	7 [T] same as 500000R
	Video BNC Ground (Ring)	8 [R] same as 500000R	8 [R] same as 500000R
Temperature	Operating: 0° to 55°C. Storage:-20° to 85°C. Humidity: up to 95%		
Enclosure	ABS fire retardant plastic		
Dimensions	2.40" x 2.25" x 1.0" (6.1 x 5.7 x 2.54 cm)		
Weight	1.95 oz (55 gms)		
Warranty	Lifetime		
Order Information	500132 CCTV Pass-Thru/GLI Balun		

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Typical Applications

