

LongReach II Active CCTV Receiver Balun 500124

Overview

The LongReach II Active CCTV Receiver Balun (500124) provides extended distance between the CCTV camera and the DVR via Cat5e/6 cable. The product features Auto Gain Control (AGC) and supports up to 5,000 ft (1.5 km) via Cat5e/6 cable when used in conjunction with MuxLab's full range of passive CCTV baluns.

The LongReach II also allows video, remote power and 2-wire PTZ control to be combined over Cat5e/6 cable and features ground loop isolation (GLI) for optimum video transmission.

Applications

Campus, highways, airports, hotels, casinos, commercial complexes, remote parking lots, self-storage, hospitals, car dealerships.





Features

Up to 5,000 feet (1.5 km) via Cat5e/6 Up to 7,000 feet (2.1 km) via Cat5e/6 with 500100/101 at camera Video, power and PTZ over one Cat5e/6 Auto Gain Control (AGC) Auto Polarity Correction Ground Loop Isolation (GLI) LED diagnostics Supports MuxLab mounting accessories (500900/902/910/915)

Specifications			
Environment	CCTV composite baseband video; NTSC, PAL, SECAM		
Devices	CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equip.		
Transmission	Transparent to the user		
Video			
Bandwidth	20 Hz to 8 MHz.		
Input	1.5 Vp-p max, 100Ω, balanced (RJ45)		
Output	1.1 Vp-p, ± 1 dB, 75Ω, unbalanced (BNC)		
Insertion Loss	-14 dB minimum for luma, -60 dB minimum for chroma. Determined by Automatic Gain Control.		
Return Loss	Greater than 15 dB over the frequency range		
Common Mode Rejection	Greater than 40 dB @ 3.85 MHz		
Ground Loop Isolation	Up to +/-50VDC		
Auto Polarity Correction	Automatically adjusts for any polarity		
Max. Distance via Cat5e/6	NTSC: 5,000 ft (1.5 km) with passive CCTV balun at camera NTSC: 7,000 ft (2.1 km) with 500100/101 at camera *Coax jumper cables must be less than 30 ft (9m)		
LED Diagnostics	Power, Video Sync		
Auto Gain Control (AGC)	Automatically adjusts for gain, sharpness and luminosity. Stabilization time: under 1 second		
Remote Power (i.e.; 24 VAC, 28	VAC)		
Wiring	Remote low voltage power supported via two (2) or three (3) twisted pairs. A Class II power supply is recommended.		
Max. Distance @ 24VAC via	2 VA: 1,500 ft (457m)* 4 VA: 745 ft (227m)*		
three twisted pairs*. *Longer	10 VA: 300 ft (91m)* 20 VA: 150 ft (46m)*		
distances may be achieved @ 28 VAC.	*Based on 10% voltage drop at camera. Please consult your CCTV vendor for more info.		
Max. Current	2.5A rms or DC.		
-	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	48 Volts (AC RMS/DC)		
Maximum Current Rating	2A (AC RMS/DC). No fuse		

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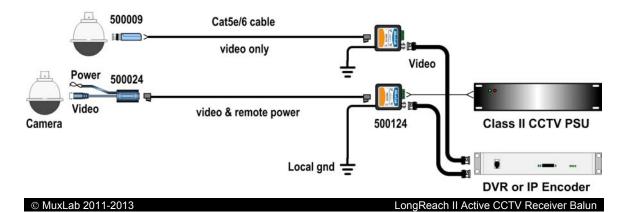
Head Office

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Specifications (Cont'd)				
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)			
Mode Switch	Select between Power-Thru (500024/500029) and Pass-Thru (500022) Mode Note: When used with the 500000, 500000R, 500009, or 500100/101 the Mode switch may be in either position since only video is being transmitted.			
RJ45 Pin Configuration*	Signal	500022 Mode	500024/500029	
*Reverse polarity sensitive if 12DC camera is used	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	
Connectors	Video: BNC-F Remote Power: 2-pole screw terminal block			
	PTZ: 2-pole screw terminal b			
	Power connector Gnd screw terminal			
Compatible Baluns	500000, 500000R, 500009, 500022, 500024, 500029, 500100/101			
Power Supply (included)	5VDC/6W/100mA max. Floating +/- 20%. 150mA max. Interchangeable blades			
Transient Voltage Protection	± 2.5V on the video line			
	± 48V on the power and control lines			
AC/DC power surge protection	Above 34VAC RMS or +/- 48 VDC.			
Fuse Protection	Auto-resettable fuse on 5VDC input and Power A (+) upon power cycling.			
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	3 oz (85 gms)	3 oz (85 gms)		
Regulatory	FCC and CE.			
Warranty	2 years			
Order Information	500124 LongReach II Active CCTV Receiver Balun			

Typical Applications

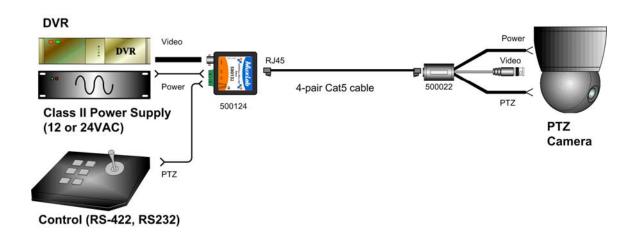


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