Overview

The Active HD CCTV Receiver Balun (500721) provides extended distance between an HD-SDI CCTV camera and an HD-SDI DVR via Cat5e/6 cable. The product supports up to 150 ft (45m) via Cat5e cable at HD (720p, 1080i) resolution when used in conjunction with MuxLab's HD CCTV Pass-Thru Balun (500720).

Furthermore, the 500721 allows remote power and 2-wire PTZ control to be combined with HD-SDI video over the same Cat5e/6 for optimized cabling.

Applications

Campus, airports, hotels, casinos, commercial complexes, residential, self-storage, hospitals, car dealerships.

Features

Supports HD CCTV (HD-SDI)
Supports up to 150 feet (45m) @ HD-SDI (720p, 1080i) via Cat5e cable
Supports video, remote power and control over one Cat5e/6
Use in conjunction with 500720
LED diagnostics: power and SDI sync
Supports MuxLab mounting accessories (500900/902/910/915)

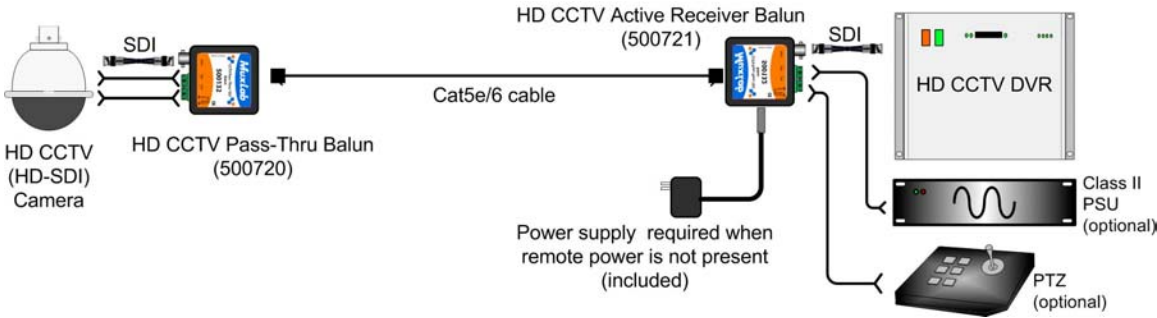| Specifications		
Environment	HD CCTV , HD-SDI	
Devices	HD CCTV/HD-SDI cameras, monitors, DVR HD-SDI equipment	
Signal transmission	Signal: SDI (no analog signal) Power: 12VDC or 24VAC 2A max Control signal: any signal using a balanced pair, 60V 1A max	

Max. Distance via Cat5e/6	SD: 150m (500ft) for CAT 5E UTP,
	     150m (500ft) for CAT 6 UTP.
	HD (720p, 1080I): 45m (150ft) using Cat 5E UTP,
	     60m (200ft) for CAT 6 UTP.
	3G (1080p): 20m (65ft) for CAT 6 UTP only.
	Note: Maximum distance is affected by receiver equipment. Dedicated Cat5E/6 cables are recommended with no patch panels.	

LED Diagnostics	One for power One for SDI signal present	
Remote Power	Supports up to 20VA/2A via two (2) twisted pairs Supports up to 30VA/2A via three (3) twisted pairs Maximum voltage: 28V	
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)	
RJ45 Pin Configuration* *Reverse polarity sensitive if 12VDC camera is used*	**Signal**	**RJ45 Pins**
	Power A (+) *	1, 3
	Power B (-) *	2, 6
	Control (+)	4
	Control (-)	5
	SDI Video BNC Center (Tip)	7
	SDI Video BNC Ground (Ring)	8
Connectors	Video: BNC-F Remote Power: 2-pole screw terminal block PTZ: 2-pole screw terminal block Cat5e/6 Link: RJ45S Power connector	
Compatible baluns	500720, 500720-CL	
Compatible mounting hardware	500902, 500900, 500910, 500915	
Power Requirements	12VDC 90mA, coming from the same power line as source 24VAC 60mA, coming from the same power line as source 5V 130mA using the external wall mount power supply included	

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Temperature	Operating: -25° to 60°C (-13° to 140°F) Storage: -40° to 85°C (-40° to 185°F) Humidity: Max 95% (non-condensing)
Enclosure	ABS UL94HB fire retardant plastic
Dimensions	2.40" x 2.25" x 1.0" (6.1 x 5.7 x 2.54 cm)
Weight	2 oz. (70g)
Regulatory	FCC and CE.
Warranty	2 years
Order Information	500721 Active HD CCTV Receiver Balun

Typical Applications

HD CCTV Active Receiver Balun
(500721)

SDI

HD CCTV DVR

Cat5e/6 cable

SDI

HD CCTV
(HD-SDI)
Camera

HD CCTV Pass-Thru Balun
(500720)

Power supply required when
remote power is not present
(included)

Class II
PSU
(optional)

PTZ
(optional)

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