

## Overview

The HD CCTV Pass-Thru Balun (500720) allows one HD CCTV (HD-SDI) video channel plus remote power and PTZ control to be transmitted between the HD CCTV camera and the DVR via Cat5e/6 cable in the HD CCTV environment. The 500720 may be used in conjunction with either another 500720 or in conjunction with the 500700-CL or 500721.

## Applications

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



## Features

HD-SDI video, power and PTZ over one Cat5e/6 Up to 100 feet (30m) @ HD-SDI (720p, 1080i) via Cat5e cable

Remote power powers the balun when present Power supply required when no remote power Used in pairs or with 500720-CL or 500721 Supports MuxLab mounting accessories (500900/902/910/915)

Specifications			
Environment	HD CCTV; SDI single link : SD & HD		
Signal transmission	Signal: SDI (no analog),		
0	Power: 12VDC or 24VAC 2A max,		
	Control signal: any signal using a balanced pair, 1A max.		
Devices	HD-SDI CCTV cameras, monitors, DVR HD CCTV equipment.		
Standard supported	SD (270 Mb/s): SMPTE 259M (480I, 576I)		
	HD (1.485 Gb/s):: SMPTE 292M (720p, 1080i)		
Compatible baluns	500720, 500720-CL, 500721		
Speed	270Mb/s & 1.485Gb/s		
Insertion Loss per balun	<6 dB: 5 – 1000 MHz.		
Connectors	One BNC 75 ohm male		
	One 2-wire terminal for remote power		
	One 2-wire terminal for PTZ control		
	One RJ45S for Cat 5e/6 unshielded or shielded twisted pair.		
	When used with another 500720 or 500720-CL		
Maximum distance	SD: 120m (400ft) for CAT 5E UTP		
	150m (500ft) for CAT 6 UTP		
Using a 6' (1.8m) Coax Cable	HD (720p, 1080i):45m (150ft) using Cat 5E UTP 45m (150ft) for CAT 6 UTP		
Using a 6 (1.6m) Coax Cable	45III (150IL) IOI CAT 6 01P		
	When used with 500721:		
	SD: 150m (500ft) for CAT 5E UTP		
	150m (500ft) for CAT 6 UTP		
	HD (720p, 1080i): 45m (150ft) using Cat 5E UTP		
	45m (150ft) for CAT 6 UTP		
	Note: Maximum distance is dependent on the receiving equipment. Dedicated		
	Cat5E/6 cables are recommended with no patch panels		
Dama eta Devuen	Supports up to 201/4/24 via two (2) twisted pairs		
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 Coox	Impedance: $75 \Omega$ at 1 MHz. (RG59/U)		
Cable – Coax			

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HD CCTV Pass-Thru Balun

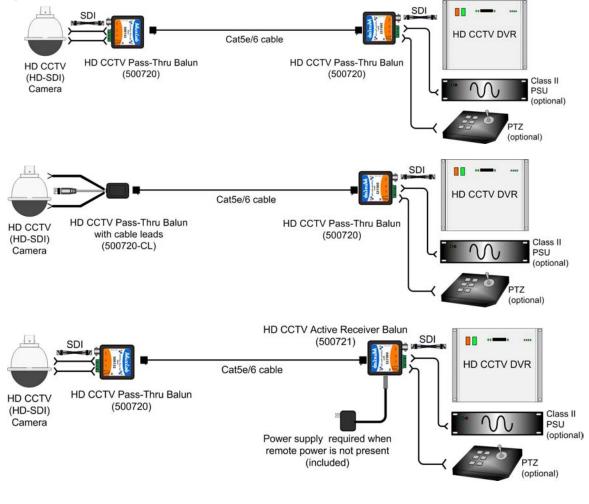
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# HD CCTV Pass-Thru Balun (500720)

RJ45 Pin Configuration	Signal	RJ45 pin	
*Reverse polarity sensitive if 12VDC camera is used	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		
Temperature	Operating: -40° to 60°C (-40° to 140°F) Storage: -40° to 85°C (-40° to 185°F)		
Humidity	Maximum 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 (60g)		
Regulatory	FCC and CE.		
Warranty	Lifetime		
Order Information	500720 HD CCTV Pass-Thru Balun		

## **Typical Applications**



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