

Overview

The CCTV Power-Thru Converter Balun (500024-CNV) allows video and remote power to be transmitted via one 4-pair Cat 5e/6 cable, thus eliminating the need to install multiple cables for more efficient cabling in the analog CCTV security and surveillance environment. Additionally, the product converts 24VAC to 12VDC to allow 12VDC cameras to be remotely powered from a central 24VAC CCTV power supply. The CCTV Power-Thru Converter Balun is installed at the camera side and works in conjunction with MuxLab's CCTV Power-Thru Balun (500024), Passive CCTV Power Integrator Hub (500136) or Passive CCTV Hub (500130) for a complete cabling solution.



Features/Benefits

- Video and remote power via one 4-pair Cat 5e/6 cable
- Converts 24VAC to 12VDC/400mA at the camera
- Video up to 2,200 ft (670m) via Cat 5e/6 UTP*
- Transmits 24VAC up to 795 ft (242m) @ 400mA max.
- Installed at the camera side
- Works with 500024/130/124/126/127/136

* Shorter distances may result with certain models of DVR.

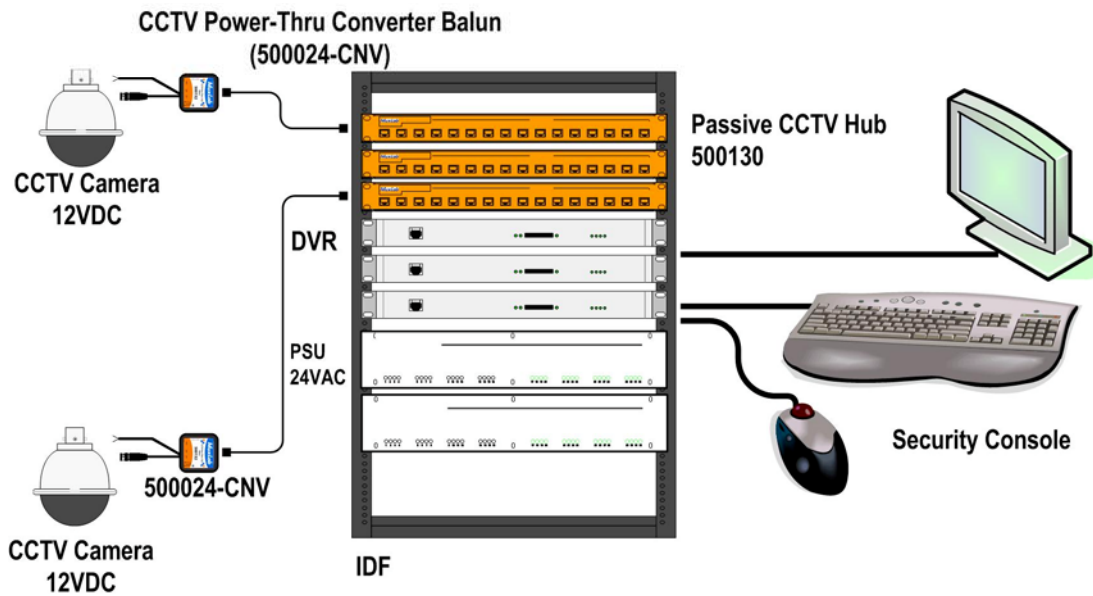
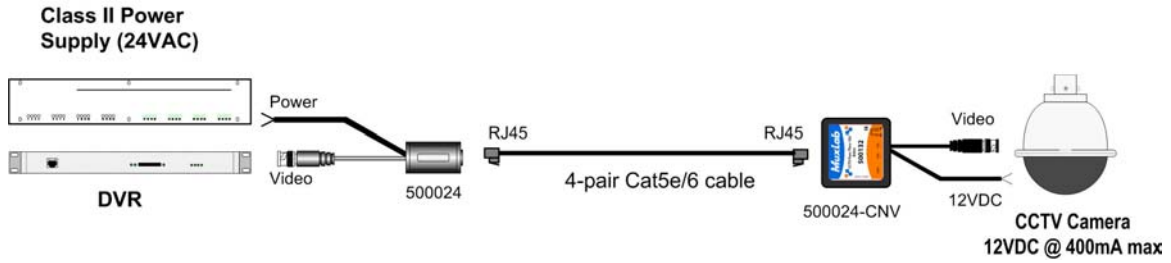
Specifications			
Environment	Baseband video; NTSC, PAL, SECAM		
Devices	Close-circuit TV (CCTV) cameras , monitors, switchers, sequencers, multiplexers, digital video recorders (DVR) and other CCTV equipment.		
Transmission	Transparent to the user.		
Video			
Bandwidth	DC to 8 MHz.		
Impedance	Input: 75 ohms (BNC); Output: 100 ohms (RJ45)		
Maximum Input	1.1Vp-p		
Insertion Loss	Less than 2 dB per pair over 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 5e/6 – 2,200 ft. (670m)* <i>*Certain models of DVR may yield shorter distances of 1,000 to 1,500 ft</i>		
Max. Distance - Black & White	Cat 3 –1,500 ft (457m); Cat 5e/6 – 2,500 ft (762m)		
Remote Power (24 VAC IN converted to 12VDC OUT)			
Wiring	Remote power via three (3) twisted pairs. Class II power supply recommended.		
Input Voltage	13 to 30VAC/DC		
Output Voltage/Current	12 VDC/400 mA		
Max. Distance	795 ft. (242m) with 24VAC or 1,113 ft. (339m) with 28VAC* <i>*With a Maximum Consumption of 400mA</i>		
Mechanical & Environmental			
Cable – UTP	24 AWG 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	Video: BNC-male 8" mini-coax lead Power: 2-wire lead		
Pin Configuration*	Signal	RJ45 Pin	Cable Lead Color
	Power A	1 (common with 3&5)	Red
	Power B	2 (common with 4&6)	Black
	Power A	3 (common with 1&5)	Red
	Power B	4 (common with 2&6)	Black
	Power A	5 (common with 1&3)	Red
	Power B	6 (common with 2&4)	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	2.4" (6.1cm) x 2.25" (5.5cm) x 1.0" (2.5cm) plus cable leads; 8" (20cm) for video; 10" (25.4cm) for power lead		
Weight	1.95 oz (55 gms)		
Warranty	Lifetime		
Order Information	500024-CNV CCTV Power-Thru Converter Balun		

Head Office

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Typical Applications



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