



# LEMAR INDUSTRIAL CORP.



## CCTV BALUN Power-thru Type

PART NO.: 11819021

### Description:

The CCTV Power-thru Balun allows video signals and remote power to be transmitted via a single unshielded twisted pair (UTP) cable for more versatile cabling. The CCTV Power-thru Balun is used in pairs to allow you to eliminate more expensive coaxial cable, including coupling signals from remote video cameras to display systems, video capture, security and surveillance monitoring applications.

The use of existing twisted pair infrastructure such as telephone cable and cat.5 computer networking cables are also available. All our Baluns are 100% test for reliability and durability to guarantee your signal integrity.

### Specification:

Bandwidth	Video DC to 8MHz
Maximum input	1.0Vp-p
Impedance	75 ohm to 100 ohm (or 75ohm to 120ohm on request)
Insertion loss	Max. 2dB per pair over the frequency range
Return loss	Greater than 15dB over the frequency range
Common mode rejection	Greater than 40dB over the frequency range
Environment	Close-Circuit TV (CCTV) equipment for security and surveillance.
Devices	CCTV cameras, monitors, digital video recorders (DVR) and other CCTV equipment.
Connectors	RJ45 jack, BNC Male, One Power Jack
Cable-UTP	Cat. 5 or better, #24 AWG typical: Maximum capacitance :20pf/ft Attenuation: 6.6dB/1000ft at 1MHz
Cable-BNC	Impedance: 75 ohms at 1MHz (RG59/U) Max. 25ft. of coax allowed per end to end link
Max. distance	Color: Cat.5 2230ft (680 Meters) Monochrome: Cat.5 2550ft (780 Meters)
Power protection (option)	Current limit: 300mA, Resistance: 1 ohm typical at 25°C
RJ45 Pin Configuration	Video: 7+/8- Power: 1,3,5+/2,4,6-
Environment required	Operating temp. 0 to 55° C Storage temp. -22 to 85° C Humidity up to 95%



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**Remote Power: (ie: 24VAC, 28VAC)**

	VA	W/O power protection	With power protection
Max. Distance @ 24Vac via an UTP Cat 5 cable (24 AWG): Based on 10% voltage drop at camera. Longer distance may be achieved @ 28Vac	5VA	558ft(170m)	502ft(153m)
	10VA	279ft (85m)	-----
	20VA	141ft ( 43m )	-----
	30VA	92ft ( 28m )	-----
	Maximum input voltage:	50Vdc/ac	
Maximum current Rating:	4.5A		