

Overview

The CCTV Balun allows a single CCTV video signal to be transmitted via cost-effective unshielded twisted pair (UTP) cable.

Used in pairs, the CCTV Balun eliminates costly and bulky coaxial cable, allowing CCTV security and surveillance equipment to be connected using standard structured cabling techniques for neater and more streamlined cabling.

The CCTV Balun is available in two models; CCTV Screw Terminal Balun (500009) and CCTV Modular Balun (500000, 500031). Both models may be used interchangeably.

Benefits

Cost savings - eliminate costly coaxial cable
Quicker moves, adds and changes
Neater wiring



Features

Up to 2,200 feet (670m) via Cat 5E/6 UTP*
BNC (500000) or RCA (500031) option
Cable strain relief (500009)
Compact design
Low return loss
* Less distance may result with DVR/IP encoders.
Typical: 1,000 to 1,500 ft via Cat5E/6

Specifications	
Environment	Close-Circuit TV (CCTV) equipment for security and surveillance.
Devices	CCTV cameras, monitors, switchers, sequencers, multiplexers, digital video recorders (DVR), IP camera servers and other CCTV equipment.
Transmission	Transparent to the user.
Bandwidth	Video: DC to 8 MHz.
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 –1200 ft; Cat 5 or higher – 2200 ft.* * Less distance may result with DVR equipment. Typical: 1,000 to 1,500 ft via Cat5
Max. Distance Black & White	Cat 3 –1500 ft; Cat 5/6 – 2500 ft
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 – BNC	Impedance: 75 ohms at 1 MHz (RG59/U).
Connectors Reverse polarity sensitive	500000, 500031: RJ45 Pins R7 T8 500000R: RJ45 Pins R8 T7 (pin compatible with 500022, 500024, 500130, 500131, 500133) 500009: Two (2) screw terminals
Impedance	Input: 75 ohms (BNC) Output: 100 ohms (RJ45)
Temperature	Operating: 0° to 55° C. Storage: -20° to 85° C. Humidity: up to 95%
Enclosure	ABS fire retardant plastic
Dimensions	500000, 500031: 1.75" x .75" x 1.00" (4.44cm x 1.9cm x 2.54cm) 500009: 2.30" x 0.62" x 0.62" (5.8cm x 1.57cm x 1.57cm)
Weight	1.5 oz (42.5gm)
Regulatory	FCC Class A, CE, RoHS
Warranty	Lifetime
Order Information	500000 CCTV Modular BNC Balun, R7T8 500000R CCTV Modular BNC Balun, R8T7 500009 CCTV Screw Terminal Balun 500009-2PK CCTV Screw Terminal Balun, Retail 2-Pack 500031 CCTV Modular RCA Balun, R7T8

CCTV Balun

500000, 500000R, 500009, 500009-2PK, 500031

Typical Applications

