

Overview

The Active CCTV Transmitter Balun (500100, 500101) provides enhanced performance for a single CCTV video channel via Cat5 unshielded twisted pair (UTP) cable. The balun is installed at the CCTV camera and is powered by the camera power supply.

There are two (2) models; 500100 for 12VDC cameras and 500101 for 24VAC cameras. The Active CCTV Transmitter Balun features ground loop isolation and manual gain compensation adjustment based on cable length.

Applications

Video enhancement for color, sharpness and brightness. Ground loop sensitive installations. Marginal cabling installations.



Features

- Low power consumption
- Derives power from camera power supply
- Ground loop isolation
- Manual gain compensation based on cable length
- Fits inside CCTV dome cameras and back boxes.
- Works with other MuxLab CCTV baluns
- Cable strain relief

Specifications	
Environment	Video NTSC, PAL, SECAM. CCTV equipment for security and surveillance.
Devices	CCTV cameras, DVR, IP camera encoders, monitors, switchers and multiplexers.
Transmission	Transparent to the user.
Bandwidth	DC to 8 MHz.
Maximum Input	1.2Vp-p unbalanced
Maximum Output	+/-5V balanced
Gain	100kHz: Variable from 2dB to 7dB 5MHz: Variable from 13 dB to 40 dB
Return Loss	Greater than 15 dB @ 1MHz.
Ground Loop Isolation	Isolation between video input and output up to ± 5V
Common Mode Rejection	15 kHz: 60 dB typ 8 MHz: 40 dB typ
Max. Distance Colour – Cat5	Up to 3,000 ft (0m to 914m) with passive balun (500009) at receiver Up to 6,000 ft (0m to 1,828m) with active balun (500015, 500120/122) at receiver Up to 7,000 ft (0m to 2,133m) with active balun (5000124/126/127) at receiver
Gain compensation switches	Four (4) settings based on cable length. Factory setting: 750 ft to 1,500 ft (229m to 457m)
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 mini coax).
Connectors <i>Reverse polarity sensitive</i>	BNC-M for video with 8" minicoax lead 2-wire red/black cable lead for input power. Two (2) screw terminals for video twisted pair
Impedance	Input: 75 ohms (BNC) Output: 100 ohms (screw terminals)
Power requirements	500100: 12VDC @ 60mA max. 500101: Floating 24VAC @ 70mA RMS max. Shares power with camera PSU. Connects to camera's power terminals.
Power surge protection	Surge protection on power input.
Compatibility	Compatible with MuxLab CCTV baluns 500009, 500023, 500015, 500130, 500122.
Temperature	Operating: 0° to 50° C. Storage: -20° to 85° C. Humidity: up to 95%
Enclosure	ABS fire retardant plastic, black
Dimensions	1.25" (3.1 cm) x 0.62" (1.6 cm) x 0.62" (1.6 cm) plus 8" (20.3 cm) minicoax lead
Weight	1.0 oz (28 gms)
Warranty	Lifetime
Order Information	500100 Active CCTV Transmitter Balun, 12VDC 500101 Active CCTV Transmitter Balun, 24VAC

Active CCTV Transmitter Balun 500100 (12VDC), 500101 (24VAC)

Typical Application

