

Specifications

Environment	CCTV equipment for security and surveillance. NTSC, PAL, SECAM, Coaxitron™, RS232S, RS422A, Manchester, 24 VAC, 20 mA.
Devices	CCTV cameras and Pan, Tilt, Zoom controllers supporting one video and one PTZ signal over the same coaxial cable. Works with Pelco™ Coaxitron™, Vicon™ Vicoax, Videoalarm™ Coaxlynx™ and other digital coax pan, tilt, zoom control systems.
Transmission	Transparent to the user
Bandwidth	Video: DC to 8 MHz
Maximum Input	1.1 Vp-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 Ratio	Greater than 40 dB at 8 MHz
Max. Distance: Color	Cat 3: 875 ft Cat 5E/6: 1,250 ft
Max. Distance: Black & White	Cat 3: 980 ft Cat 5E/6: 1,400 ft
Cable: Cat 5E/6 UTP/STP	24 AWG or lower solid copper twisted pair wire Impedance: 100 ohms at 1 MHz Maximum capacitance: 20 pf/ft Attenuation: 6.6 dB/1,000 ft at 1 MHz
Cable: BNC	Impedance: 75 ohms at 1 MHz (RG59/U) Maximum 25 ft of coax allowed per end to end link
Connectors	One (1) BNC-Female and one (1) RJ45 Female One (1) 10" BNC-to-BNC coax lead included in package
Pin Configuration	RJ45 Pin 7(R) & 8(T). Reverse polarity sensitive.
Impedance	Input: 75 ohms (BNC) Output: 100 ohms (RJ45)
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Enclosure	Fire retardant plastic
Dimensions	2.40" x 2.25" x 1.00" (6.10 x 5.72 x 2.54 cm)
Mounting Option	Velcro
Weight	3 oz (86 g)
Warranty	Lifetime



PTZ Balun

500007

Quick Installation Guide

Overview

The PTZ Balun allows CCTV video and “up-the-coax” Pan, Tilt, Zoom (PTZ) control signals to be transmitted via a single unshielded twisted pair (UTP) cable for more versatile cabling.

Used in pairs, the PTZ Balun allows CCTV security and surveillance equipment to be integrated into structured cabling systems, enabling PTZ devices to be moved to any convenient modular wall outlet. The PTZ Balun provides a versatile cabling solution for CCTV security and surveillance by making use of standard UTP cabling techniques to connect digital coax PTZ and video via a single unshielded twisted pair.

MuxLab

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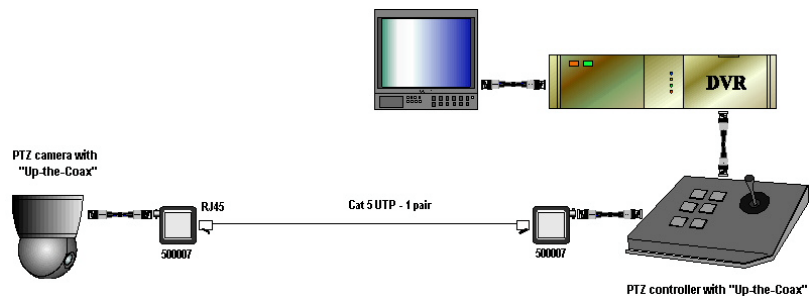
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Installation

1. Power off equipment to be interconnected before installing the PTZ Baluns.
Note: The PTZ Balun has no user serviceable parts inside. Opening the housing may damage the unit and void the warranty.
2. The PTZ Balun works in pairs.
3. Verify that the balun pin configuration corresponds to the pin configuration of your modular outlets and plugs. The factory default is RJ45 pins 7 & 8 active.
4. The PTZ Balun standard connector is BNC-female. A coax cable with BNC-Male comes with each balun for equipment with BNC-female.
5. Install one PTZ Balun at the PTZ controller near the camera. The PTZ Balun comes with Velcro mounting pads. For maximum adhesion, ensure that mounting surfaces are free of dust, oil, or other substances.
Note: Do not mount the unit on top of equipment ventilation openings.
6. Install the second PTZ Balun on the PTZ transmitter near the security center or wiring distribution center.
7. Connect one end of the UTP connection to one PTZ Balun and the other end of the UTP connection to the second PTZ Balun via RJ45 modular connectors, ensuring that the pins match up on both ends. Remove any bridge taps from the line.
8. To avoid signal interference, keep CCTV equipment, baluns and cables away from fluorescent lights, generators, motors, high voltage lines and other high frequency signals.
9. Ensure that a twisted pair is used to transmit the signal. Do not split the twisted pair.
10. Interconnect the baluns by connecting both ends of the same 4-pair UTP building cable, which terminates to the RJ45 jacks of each balun. UTP patch cords may be used if necessary.
11. Power on the PTZ transmitters and receivers and test the system according to the equipment vendor's instructions. The following diagram illustrates a typical application.



Troubleshooting

If you experience problems with the PTZ Baluns, please follow the guidelines below:

- Ensure that the PTZ transmitter and receiver are functioning correctly.
- Replace the questionable balun(s) with known working units.
- Check all cables and connections and eliminate any split pairs or polarity problems. The PTZ Balun is reverse polarity sensitive. Pin 7 must go to pin 7 and pin 8 to pin 8.
- Verify the quality of the UTP cable and the connections.
- Verify that distance limitations have not been exceeded.
- Verify that the equipment, baluns and cables are away from sources of EMI.
- If these steps fail to identify the source of your problem, please call an authorized MuxLab Distributor or call MuxLab Technical Support at 1-877-689-5228.