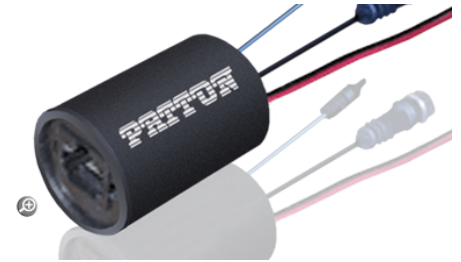# CCTV/CATV Baluns

Connect-IT 320 Passive CCTV Baluns w/Power Pass-Thru

Connect⇋IT

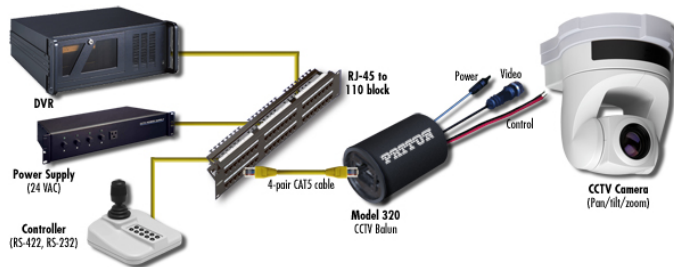*Why use expensive and difficult-to-manage coax cabling when you can use inexpensive twisted-pair?*

Overview

Patton's CCTV Pass-Thru Balun allows video, 2-wire pan/tilt/zoom (PTZ) control and remote power to be transmitted via one 4-pair Cat5 cable eliminating the need to install multiple cables in the CCTV security and surveillance environment. The pass-thru balun may be used in pairs or in conjunction with standard twisted pair cross-connect devices and other Patton CCTV baluns.

Features

- Communicate over existing telephone lines or other twisted pair media
- Connect twisted pair using RJ-45 or terminal block
- Distances up to 2,230 feet (680 meters) over Cat5 cable

Applications

Specifications

UTP: 24 gauge or lower, twisted pair

Impedance: 100 Ohm at 1 MHz

Max. Capacitance: 20 pf/ft

Attenuation: 6.6 dv/1000 ft @ 1 MHz

BNC: Impedance: 75 Ohm @ 1 MHz (RG-59)

Bandwidth: Video DC to 8 MHz

Maximum Input: 1.1 Vp-p

Impedance: 75 to 100 Ohm

Insertion Loss: Max 2 dB per pair over 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 at 8 MHz

Max. Distance: 24VAC via three pairs with 10% voltage drop at camera

5VA: 519 feet (170 meters)

10VA: 258 feet (85 meters)

20VA: 130 feet (43 meters)

30VA: 86 feet (28 meters)

Max Input Voltage: 50V (AC RMS/DC)

Max Current Rating: 4.5A (AC RMS/DC)

Active Pins:

Model 320: 8+ 7- (video), 1 2 3 4 5 6 (power)

Model 321: 8+ 7- (video), 1 2 3 6 (power), 4, 5 (data, PTZ control)

Model 322: 8+ 7- (video), 4 5 3 6 (data, speed dome)