

# BALUN-PV5FM

## CAT-5 / UTP Video Balun System with Power

Transmit Video up to 1500 Feet over CAT-5



### Video Transceiver Introduction:

The BALUN-PV5FM CCTV video balun system with power is a passive (non-amplified) set that allows the transmission of real-time monochrome or color video over Unshielded Twisted-Pair (UTP) cable. Telephone wire and CAT-5 cable can be used. The BALUN-PV5FM UTP video baluns allow transmission of CCTV video and low voltage power over UTP cable. The BALUN-PV5FM incorporates the transceiver engine of popular single passive video transceiver with the added value of camera power connections. Power and Video are routed via UTP connections. Used at the camera, the passive BALUN-PV5FM has a compact body, a male BNC with 120mm coax cable connection to the camera or DVR.

The unparalleled interference rejection and low emissions of the BALUN-PV5FM allows video signals to co-exist in the same wire bundle as telephone, data-com, or low-voltage power circuits.

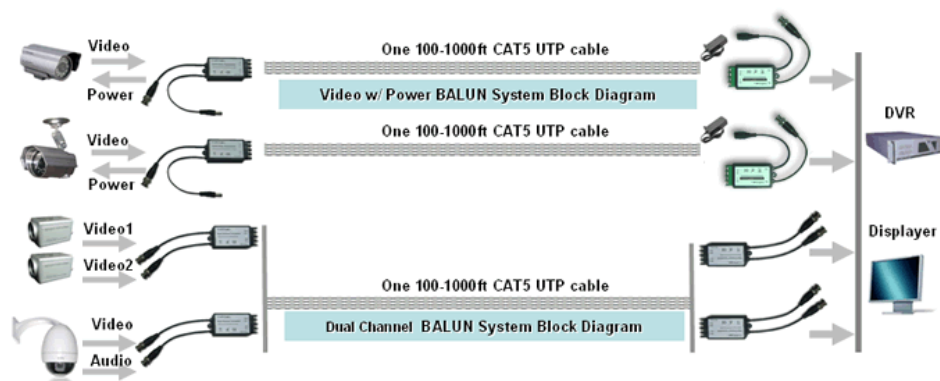
### Equipment Specifications:

Cable Distance: Up to 1500ft Transmitter-Receive UTP Cat 5 or better.

Point to Point transmission of real-time PAL, NTSC or SECAM CVBS video signals.

Transient protection, ESD protection, damaging voltage spike problems are eliminated for both video and the power.

## CAT5 Video Balun Configuration Diagram for CCTV Cameras



### Technical Specification:

Video Frequency Response: DC to 6 MHz

Common-mode/Differential-mode Rejection:

Video: 15KHz to 5 MHz, 60 dB typical. Power: 10KHz to 100KHz, 58dB

Loop Return Loss Rejection: over 18dB

Line Impedance: Male BNC 75 ohms, CAT5 line, Terminal Block 100 ohms.

Wire Type: One Unshielded Twisted Pair 24-16 AWG (0.5-1.31mm).

Category Type Cat 5 or better. Impedance  $100 \pm 20$  ohms.

DC Loop Resistance 52ohms per 1,000 ft (18 ohms per 100m).

Differential Capacitance 19pF/ft max (62pF/m max).

Power Supply: Can transmit 12V to 48V DC/AC

### Environmental:

Operating Temperature  $-20^{\circ}$  C to  $+65^{\circ}$  C.

Humidity (non-condensing) 0 to 95%

### Mechanical:

Dimensions: 85\*38\*22mm with 120mm coax and power female or male cable

Material: Black ABS housing case