

8 Channel Passive CAT5 VIDEO Transceivers

OPERATION MANUAL



08 Channel Passive CAT5E Video Transceivers

Hum Bar Rejective Anti-jamming Video BALUNs

Video Transceiver Introduction

The CAT5E 8 Channel Video Transceivers are passive (non-amplified) device that allows the transmission of real-time monochrome or color video over Unshielded Twisted-Pair (UTP) telephone wire. Baseband (composite) signals of any type are supported.

“Up-the-coax” type P/T/Z signals may be sent over the same wire pair. Used as a receiver, the 8ch passive Baluns are fully compatible with qualified OEM cameras that are equipped with twisted-pair output.

The unparalleled interference rejection and low emissions of the 8ch Baluns allow video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. With built-in transient protection, damaging voltage spike problems are eliminated.

The 8 channel passive CAT5E video transceiver BALUNs of the model A has in water proof ABS plastic case with female BNC and screw terminal connector, the model B has in metal case with female BNC connector and RJ45 socket, model C has in metal case with female BNC connector and screw terminal block, and model D has in metal case with 180mm coax cable female BNC and screw terminal block connector.

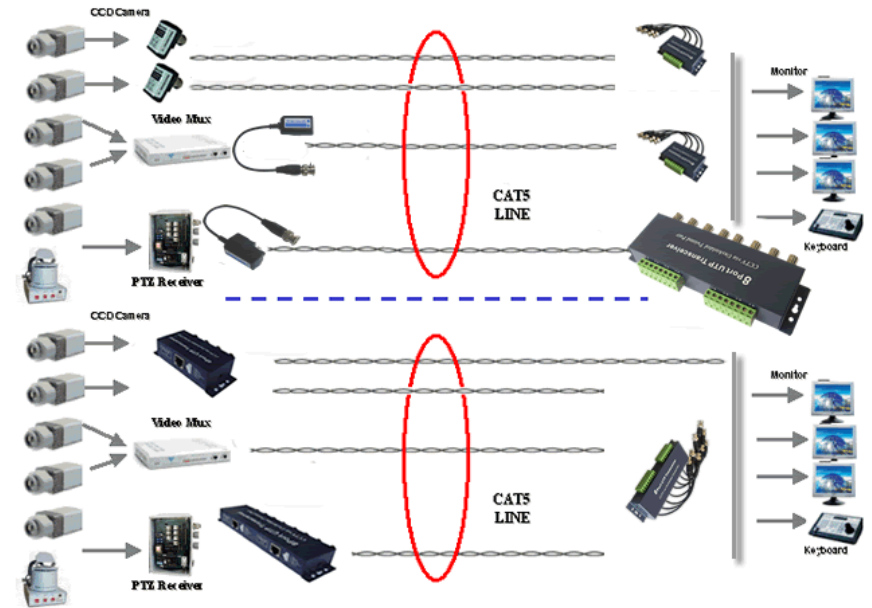
Equipment Specifications

Cable Distance: Up to 2000ft Transmitter-Receive UTP Cat 5E or better.

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

Transient protection, ESD protection, damaging voltage spike problems is eliminated.

CAT5 Video Transceiver System Configuration Diagram



Technical Specifications

- Video Frequency Response: DC to 6 MHz
- Common-mode/Differential-mode Rejection: 15KHz to 5 MHz, 55 dB typical.
- Loop Return Loss: over 15dB
- Line Impedance: Female/Male BNC 75 ohms, CAT5 line, Terminal 100 ohms.
- Wire Type: One Unshielded Twisted Pair 24-16 AWG (0.5-1.31mm).
Category Type Cat 5 or better. Impedance 100±20 ohms.
- DC Loop Resistance 47ohms per 1,000 ft (15 ohms per 100m).
- Differential Capacitance 19pF/ft max (62pF/m max).
- Power Supply: No external power required

Environmental

Temperature -20°C to +65°C.

Humidity (non-condensing) 0 to 95%.

Transient Immunity Per ANSI/IEEE 587 C62.41

Mechanical

Material: model A in ABS case, model B C D in metal case.