

1000-2000Ft 1 Channel Passive CAT5 VIDEO Transceiver

# OPERATION MANUAL



Single Channel Passive CAT5 Video Transceiver

## Video Transceiver Introduction

Single Channel Passive CAT5 Video Transceivers are passive (non-amplified) devices that allow the transmission of real-time monochrome or color video over Unshielded Twisted-Pair (UTP) telephone wire. Baseband (composite) PAL/NTSC/SECAM 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 single channel Passive CAT5 Video Transceivers are fully compatible with qualified OEM cameras that are equipped with twisted-pair output.

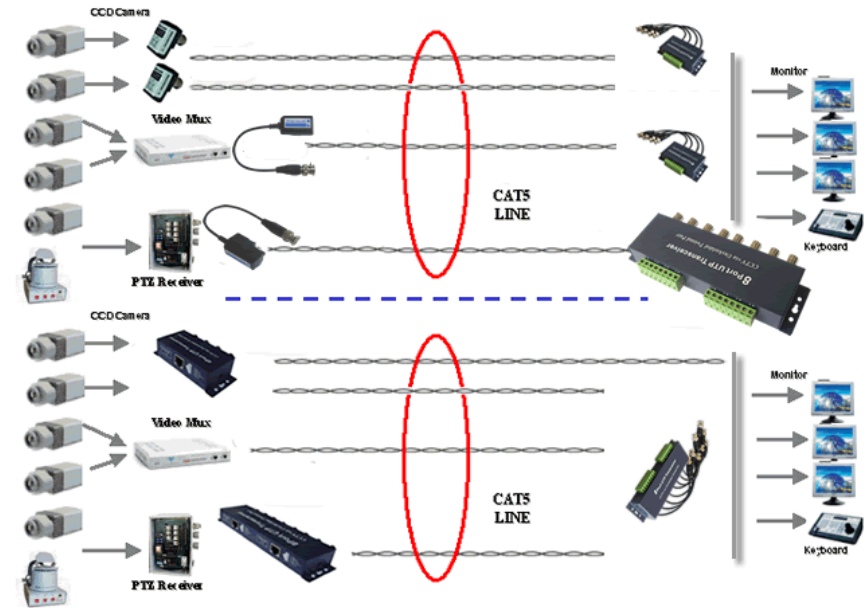
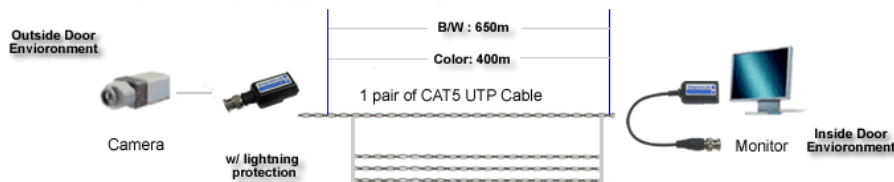
The unparalleled interference rejection and low emissions of the transceivers allow video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. With built-in transient protection, damaging voltage spike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

## Equipment Specifications

Cable Distance: Up to 2000ft Transmitter-Receive UTP Cat 5 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

1000ft Passvie Video BALUN Transceiver CCTV System Installation 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: 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±20 ohms.
- DC Loop Resistance 52ohms per 1,000 ft (18 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

Dimensions: 22X36X38mm, and 22X35X145mm with coax cable  
 Material: Black ABS housing case