

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.

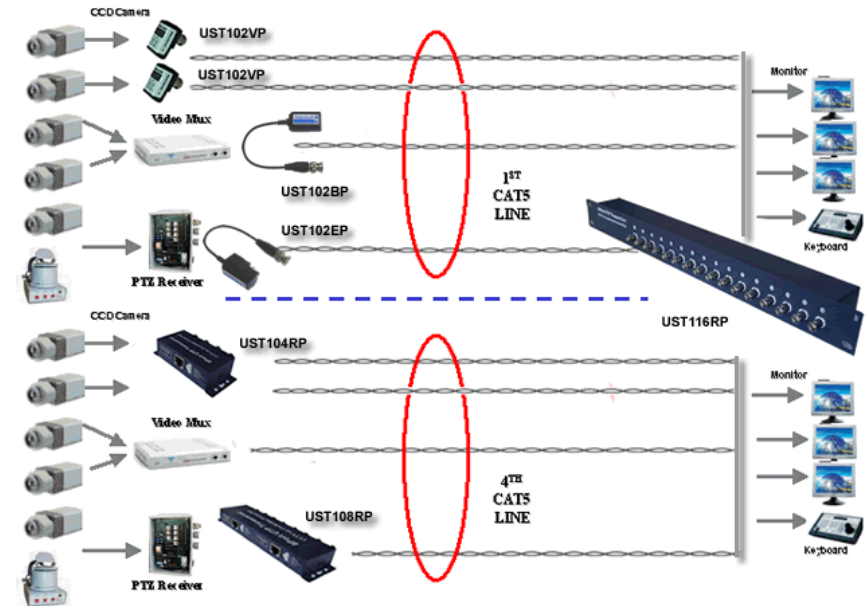
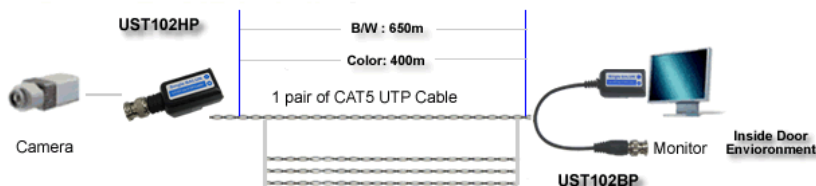
The unparalleled interference rejection and low emissions of the transceivers allow video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. With built-in transient protection, damaging voltage spike 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 Passive 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: 18X22X60mm (Inc.BNC-M)
 Material: Grey ABS housing case