

8 Channel Passive CAT5 VIDEO Transceivers

OPERATION MANUAL



UST108SP



UST108RP



UST108TP

[08 Channel Passive CAT5E Video Transceivers](#)

[Hum Bar Rejective Anti-jamming Video BALUNS](#)

Video Transceiver Introduction

The UST108SP UST108RP UST108TP 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 UST108SP_RP_TP are fully compatible with qualified OEM cameras that are equipped with an Elinx twisted-pair output.

The unparalleled interference rejection and low emissions of the Model UST108SP, UST108RP and UST108TP 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 UST108SP has in water proof ABS plastic case with female BNC and screw terminal connector, the UST108RP has in metal case with female BNC connector and RJ45 socket, and the UST108TP has in metal case with 180mm coax cable male BNC and screw terminal connector models.

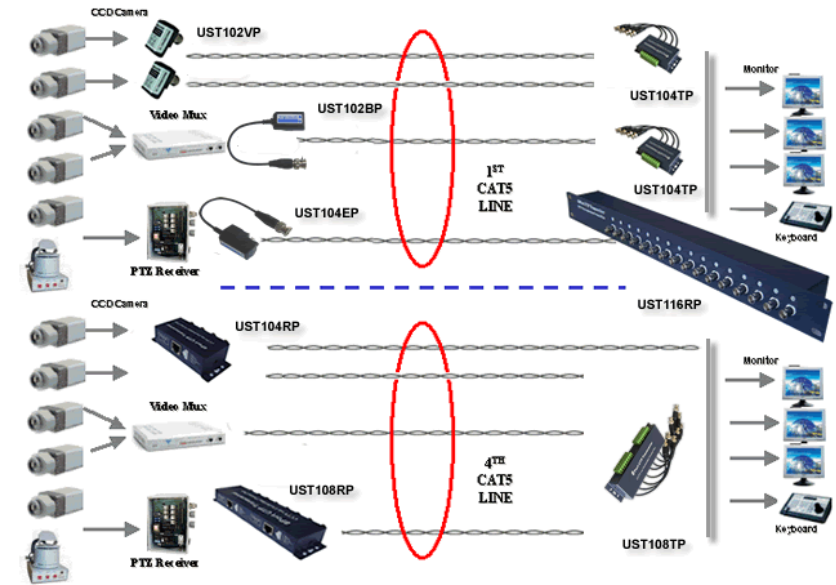
Equipment Specifications

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 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: 145X115X46, 168X60X25, 160X60X25mm for UST108SP_RP_TP.

Material: UST108SP-Grey ABS case, UST108RP_TP-Metal case.