

# 4000ft 1CH ACTIVE CAT5 VIDEO TRANSCIEVER OPERATION MANUAL



CAT5 Video Transmitter



CAT5 Video Receiver

## Introduction

Single Channel UTP Video Transmitter and Video Receiver are an active (amplified) pair device that allows the extension of real-time monochrome or color video on up to 4000ft (with Image figure enhanced), using Category-5 Unshielded Twisted-Pair (UTP) CAT5 networking wire. Composite Video Broadcasting Base band (composite-CVBS/AV, PAL/NTSC/SECAM) signals of any video type are supported.

The unparalleled interference rejection and low emissions of the transceiver allows long run video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of shared or existing cable plant. Ground-lifting circuit design ensures no annoying "hum-bars" when ground potential differences exist. With built-in lightning protection, transient protection, ESD protection, Power line (12-24V AC/DC) contact protection, damaging voltage spike problems are eliminated.

## Equipment Specifications

Cable Distance : Up to 4000Ft

Transmitter-Receive (two splitting video outputs) UTP Cat 5 or better.

The transmission of real-time PAL, NTSC or SECAM video sign. Image figure enhanced in 2 outputs of Receiver.

Lightning protection, Transient protection, ESD protection, Power line contact protection, damaging voltage spike problems are eliminated.

Dimensions excluding BNC: 94mmx62mmx22mm. Metal box.

## Distance ADJ Switches

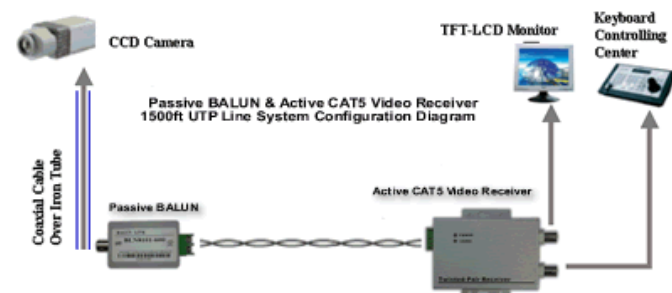
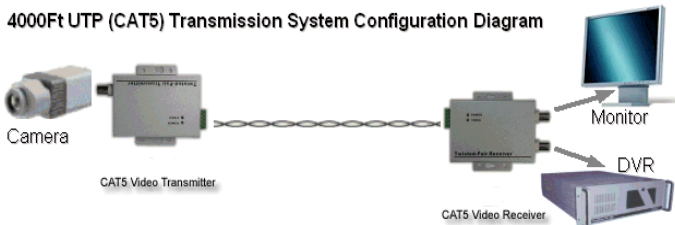
Transmitter Distance ADJ Switches :

发射距离	0-600米	600-900米	900-1200米	>1200米
拨码开关				

Receiver Distance ADJ Switches :

接收距离	0-300米	300-600米	600-1200米	>1200米
拨码开关				

## CAT5 Video Transceiver System Configuration Diagram



## Technical Specifications

Video Frequency Response DC to 6 MHz.  
Distance Switch 4-Position Adjustable.  
Common-mode / Differential-mode Rejection 15KHz to 5 MHz 65 dB typical.

## Line Impedance

Coax, female BNC 75 ohms.  
CAT5 line, terminal Block 100 ohms.

## Wire Type

Network Wiring 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).

## LED Indicators

Power On Red Indicator LED Light.  
Video Signal Present Yellow Indicator LED Light .

## Power Supply Range

Transmitter/Receiver: 12V AC/DC (MAX 24V AC/DC).  
Recommend Power Supply: 12V AC/DC

## Environmental

Temperature -20°C to +65° C.  
Humidity (non-condensing) 0 to 95%.

## Transient Immunity

6,000 V 1.2µS x 50 µS per ANSI/IEEE 587 C62.41 B3.  
3,000 V 8µS x 20 µS when ground screw terminal is bonded to earth-ground.

## Installment

1: Put the video signals you need in the VIDEO IN/OUT of Transceiver.

2: Put a twisted-pair in the VIDEO+, - of CAT5 Video Transmitter and Receiver respectively.

3: Connect with the mains following instructions shown in the system configuration diagram or sketch map, make sure that the power should be between DC/AC 9 to 24V. Recommend work in DC/AC 12V.

Recommend to share 12V AC/DC power supply with Camera in transmitter termination.

4: Set the position of ADJ correctly according to the distance table in Transceiver sub-surface.

5: After the four steps, the 2 VIDEO outputs of CAT5 Video Receiver is ready to work..

## Check after Connection

1. Power On Red Indicator LED Light.
2. Video Signal Present Yellow Indicator LED Light.
3. Make sure that every wire is correctly and firmly connected.

## Mechanical

Dimensions excluding BNC 92mmx61mm x22 mm.  
Material Metal box

## Maintenance & Quality Guarantee

3 Year Warranty