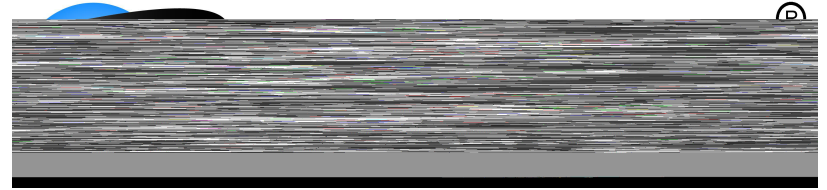


# CCT634

## Features

### 4-Channel Passive Video Transceiver Hub

- Full-motion color video signal up to 1300ft(400m) and monochrome (B&W) up to 1950ft(600m) via UTP cat5e/6
- NTSC, PAL & SECAM video format compatible
- Real-time transmission
- No power required
- RJ45 and detachable terminal blocks for UTP cat5e/6
- Female BNC connector
- Exceptional interference rejection
- Built-in TVS(Transient Voltage Suppressors) for surge protection
- Lightning protection design Grade:III
- 50 dB crosstalk and noise immunity
- Compact size and easy installation
- Rack, wall mountable and desk installation with 4 rubber feet
- Black galvanized housing



## Overview

The FS-4504SR video balun hub is a passive (non-amplified) device that allows the transmission of real-time CCTV video signal via cost-effective Unshielded Twisted Paired(UTP) cable. Baseband (composite) signals of any type are supported.

The FS-4504SR supports pluggable screw terminal or RJ45 connections. Used in pairs, it is capable to transmit 4 channel live CCTV color video signal from camera end and receive 4 channel video signal at DVR end via one UTP cable at distance up to 1300ft(400m). FS-4504SR is compatible with all the other FOLKSAFE passive transceiver for application at distance up to 1300ft(400m) and active receiver up to 2200ft(700m).

The superior interference rejection and low emissions of the FS-4504SR allow video signals to coexist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. It has built-in surge suppression to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

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## Applications

- Security Monitoring System
- Multimedia Network Teaching System
- Medical Monitoring Display System
- Industrial Automation Control System
- Banking, securities, financial information display system
- Remote Network Server Monitoring
- Department Store Security
- Casino Security
- Hospitals, Airports and banks
- School Campuses

## Wire and Cable Recommendations

FS-4504SR is recommended to use with Unshielded Twisted Paired (UTP) wiring from 24AWG through 22AWG. Individually shielded pairs should be avoided, as they reduce the operating range of the systems drastically. Multi-pair cable (25-pair or more) with an overall shield are acceptable. Video signals can coexist in the same wire bundle as telephone, datacom, or low-voltages power circuits. While video may be routed through telephone punch-down block terminals, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices MUST BE removed from the pair.

For more specific information regarding wire types, gauges and proper installation techniques, please contact us for technical assistance.

## Technical Specifications

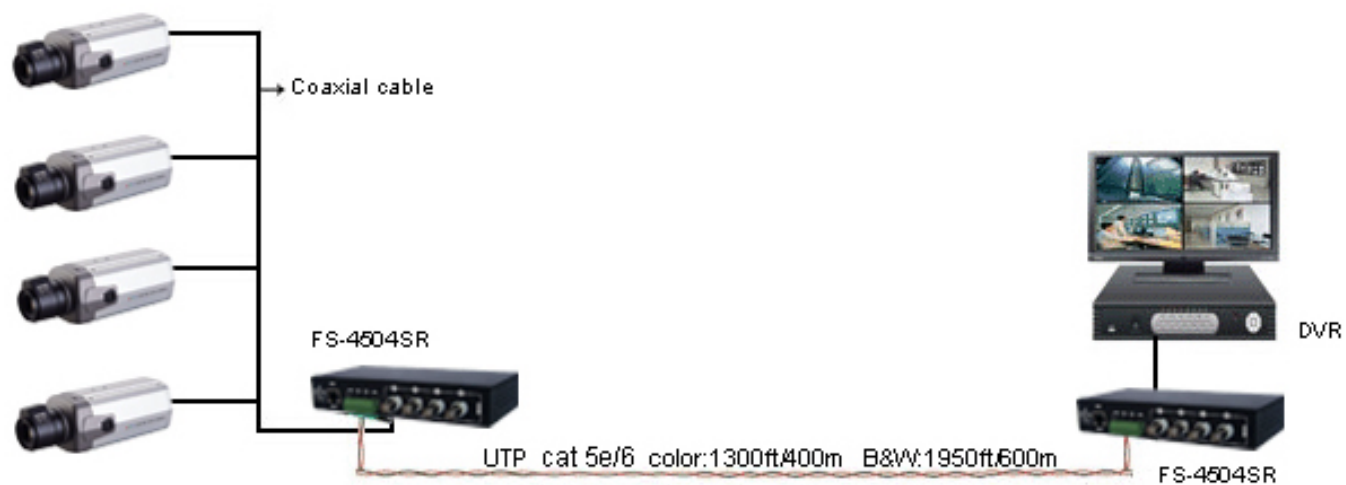
|                 |                                         |                                                                               |
|-----------------|-----------------------------------------|-------------------------------------------------------------------------------|
| Model           |                                         | FS-4504SR                                                                     |
| Product Name    |                                         | 4-Channel Passive Video Transceiver Hub                                       |
| Applied Devices |                                         | CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equipment |
| Video           | Video Format                            | PAL, NTSC, SECAM                                                              |
|                 | Operating Frequency                     | DC to 5MHz                                                                    |
|                 | Max Distance                            | UTP Category 5e (24AWG) Color: 1300ft(400m) B&W: 1950ft(600m)                 |
|                 | Common-mode/Differential-mode rejection | 15 KHz to 5 MHz 60 dB typ                                                     |
|                 | Impedance                               | Coax, female BNC 75 ohms                                                      |
|                 |                                         | UTP, screw terminal block or RJ45 100 ohms                                    |
|                 | Attenuation                             | 0.5 dB typ                                                                    |
| Wire Type       | Network Wiring                          | One Unshielded Twisted Pair (for each video signal) 24-16 AWG (0.5-1.31mm)    |
|                 | Category Type                           | 2 or better                                                                   |
|                 | Impedance                               | 100 ± 20 ohms                                                                 |
|                 | DC Loop Resistance                      | 52 ohms per 1,000ft (18 ohms per 100m)                                        |
|                 | Differential Capacitance                | 19 pF/ft max (62 pF/m max)                                                    |
| Power           | No external power required              |                                                                               |
| Connector       | Video input/output                      | Female BNC connector                                                          |
|                 | Video output/input                      | pluggable screw terminal block and RJ45 for UTP ( select one connection)      |
| Protection      | Surge Protection                        | Built-in Transient Voltage Suppressor(TVS)                                    |
|                 | Ground Isolation                        | YES                                                                           |
|                 | Antistatic                              | YES                                                                           |
| Mechanical      | Dimensions(L*W*H)                       | 180*102*33 mm (BNC connector & mounting bracket excluded)                     |
|                 | Housing                                 | Galvanized                                                                    |
|                 | Body Color                              | Black                                                                         |
|                 | Net Weight                              | 460g                                                                          |
|                 | Mounting                                | Two 0.175 in (4,4mm) diameter holes                                           |
|                 | Desk Installation                       | 4 rubber feet                                                                 |
| Environmental   | Operating Temperature                   | -25° ~ 75° C                                                                  |
|                 | Relative Humidity                       | 0~95% (non-condensing)                                                        |
|                 | Storage Temperature                     | -40° ~ 150° C                                                                 |

## Application Diagram

**Diagram 1** FS-4201SR + FS-4504SR



**Diagram 2** FS-4504SR + FS-4504SR



**Diagram 3      FS-4504SR +      FS-4504R**

