

Model FS-4504SR- II

Features

4-Channel Passive Video Transceiver (small and compact)

- Full-motion color video signal up to 1312ft(400m) and monochrome (B&W) up to 1968ft(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- II 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 construction of FS-4504SR- II is much smaller and compact compared with FS-4504SR. FS-4504SR- II 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 1312ft(400m). FS-4504SR- II is compatible with all the other FOLKSAFE passive transceiver for application at distance up to 1312ft(400m) and active receiver up to 2296ft(700m).

The superior interference rejection and low emissions of the FS-4504SR- II 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 suppressor to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

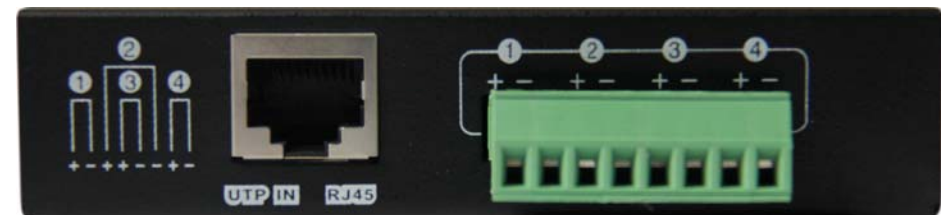
Applications

- 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-II 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.

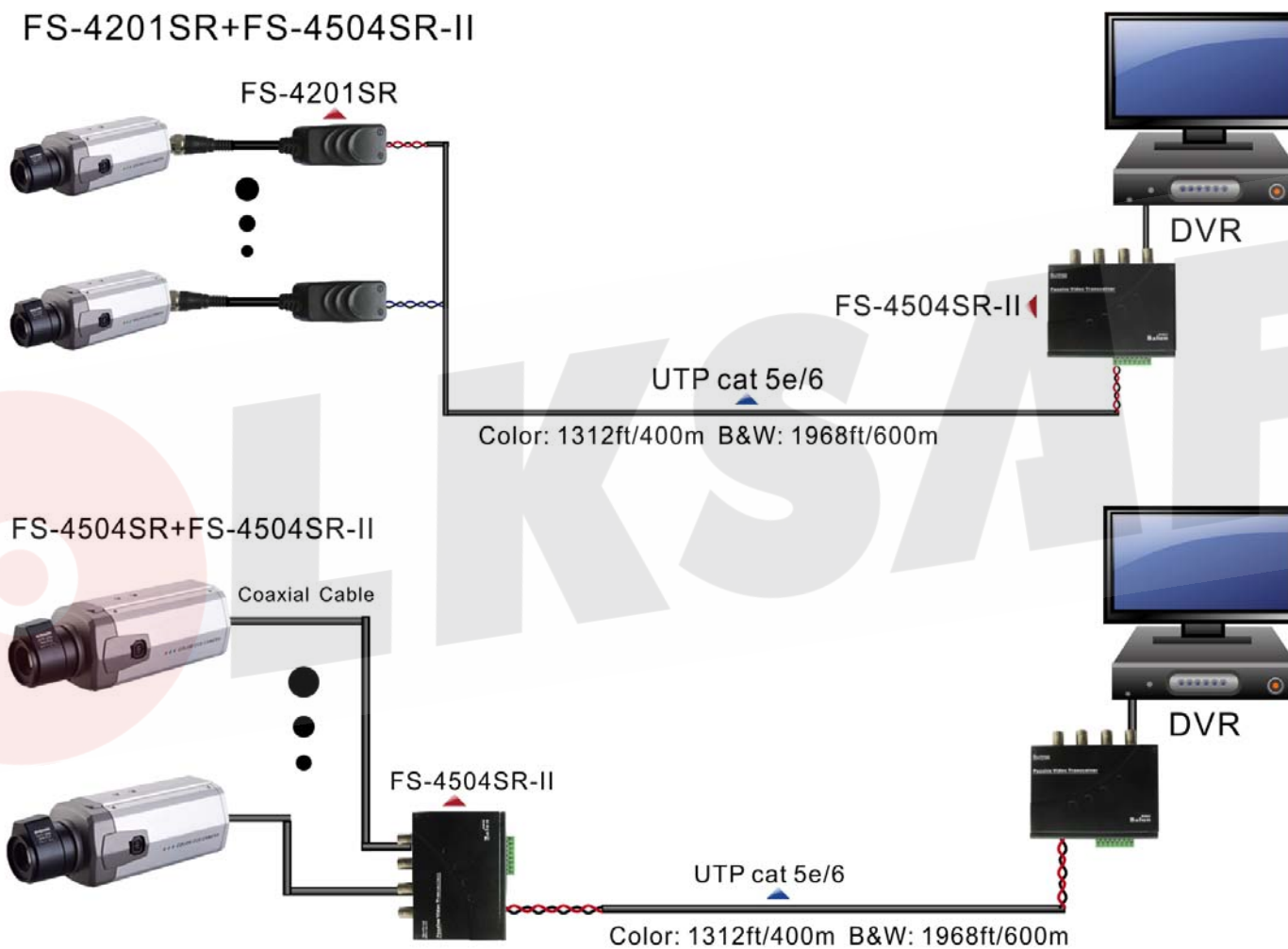
For more specific information regarding wire types, gauges and proper installation techniques, please contact us for technical assistance.



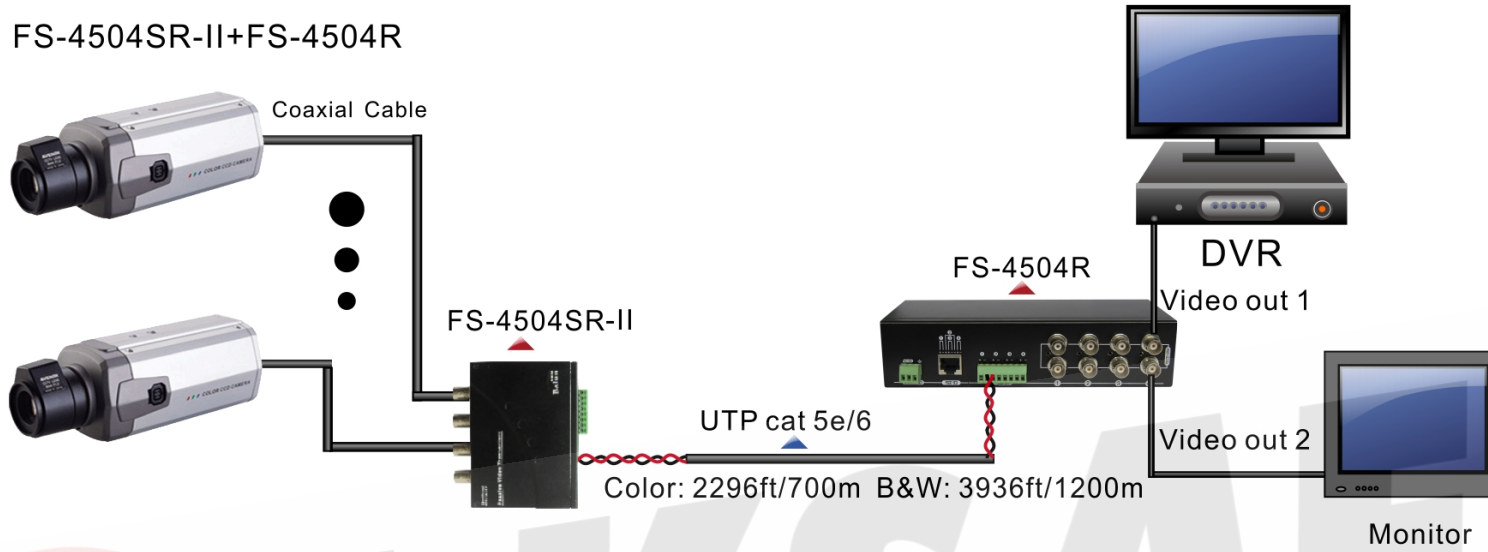
Technical Specifications

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|-----------------|---|---|----------------|
| Model | | FS-4504SR- II | |
| Product Name | | 4 Channel Passive Video Transceiver | |
| 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: 1312ft(400m) B&W: 1968ft(600m) | |
| | Common-mode/Differential-mode rejection | 15 KHz to 5 MHz 60 dB typ | |
| | Impedance | Coax, female BNC | 75Ω unbalanced |
| | | UTP, screw terminal block or RJ45 | 100Ω balanced |
| Attenuation | 1.5 dB typ Max | | |
| 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 | renewable solid state surge protection | |
| | Antistatic | YES | |
| | Video Input | 2KV(common mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999) | |
| | Video Output | 2KV(different mode), 10/700us IEC6100-4-5/1955(GB/T 1726, 5-1999) | |
| Mechanical | Dimensions(L*W*H) | BNC connector & mounting bracket excluded | |
| | | 100*72.5*23mm | |
| | Housing | Galvanized | |
| | Body Color | Black | |
| | Net Weight | 200g | |
| Environmental | Operating Temperature | -20° ~ 70° C | |
| | Relative Humidity | 0~95% (non-condensing) | |
| | Storage Temperature | -40° ~ 150° C | |

Application Diagram



FS-4504SR-II+FS-4504R



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