

Model FS-4103SR

Features

Single Channel Passive Video Transceiver

- 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
- Two screw terminals for UTP cable
- Male BNC with extended 6.3inch(160mm) mini-coax pigtail
- 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
- ABS engineering plastic housing



Overview

The FS-4103SR video balun 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 flexible mini-coax pigtail lead allows FS-4103SR to fit neatly inside CCTV camera back boxes and dome camera enclosures. Screw terminals of FS-4103SR allows easy connection of UTP cable output. Used in pairs, FS-4103SR eliminates costly and bulky coaxial cable, allowing live CCTV color video signal up to 1300ft (400m). FS-4103SR is also 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-4103SR 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. FS-4103SR has built-in surge suppression to protect video equipment against damaging voltage spikes. Its crosstalk and noise immunity ensure quality video signals.

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-4103SR 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-4103SR | |
| Product Name | | Single 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: 1300ft(400m) B&W: 1950ft(600m) | |
| | Common-mode/Differential-mode rejection | 15 KHz to 5 MHz 60 dB typ | |
| | Impedance | Coax, Male BNC | 75 ohms |
| | | UTP, Screw terminal | 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 | Male BNC connector | |
| | Video input/output | Screw terminal | |
| Protection | Surge Protection | Built-in Transient Voltage Suppressor(TVS) | |
| | Antistatic | YES | |
| Mechanical | Dimensions (L*W*H) | 42*18*12mm (BNC connector & cable excluded) | |
| | Housing | ABS engineering plastic | |
| | Body Color | Black | |
| | Net Weight | 40g | |
| Environmental | Operating Temperature | -25° ~ 75° C | |
| | Relative Humidity | 0~95% (non-condensing) | |
| | Storage Temperature | -40° ~ 150° C | |

Application Diagram

Diagram 1 FS-4103SR + FS-4103SR

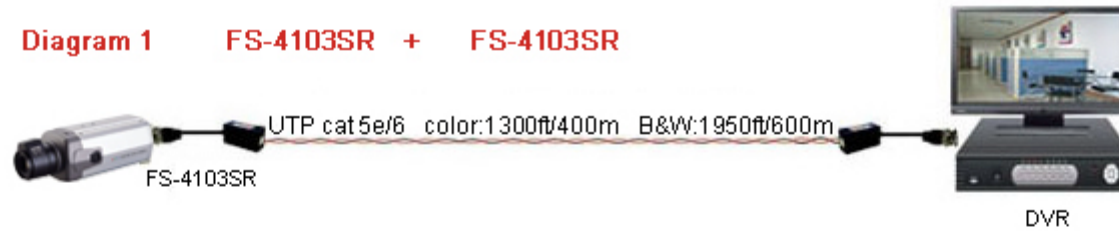


Diagram 2 FS-4103SR + FS-4504SR



Diagram 3 FS-4103SR + FS-4401R

