

CCT636

Features

16-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-4616SR 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-4616SR supports pluggable screw terminal or RJ45 connections. Used in pairs, it is capable to transmit 16 channel live CCTV color video signal from camera end and receive 16 channel video signal at DVR end via 4 UTP cable at distance up to 1300ft(400m). FS-4616SR 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-4616SR 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".

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-4616SR 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-4616SR
Product Name		16-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)	435*110*45mm (BNC connector & mounting bracket excluded)
	Housing	Galvanized
	Body Color	Black
	Net Weight	1240g
	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-4616SR



Diagram 2 FS-4616SR + FS-4616SR

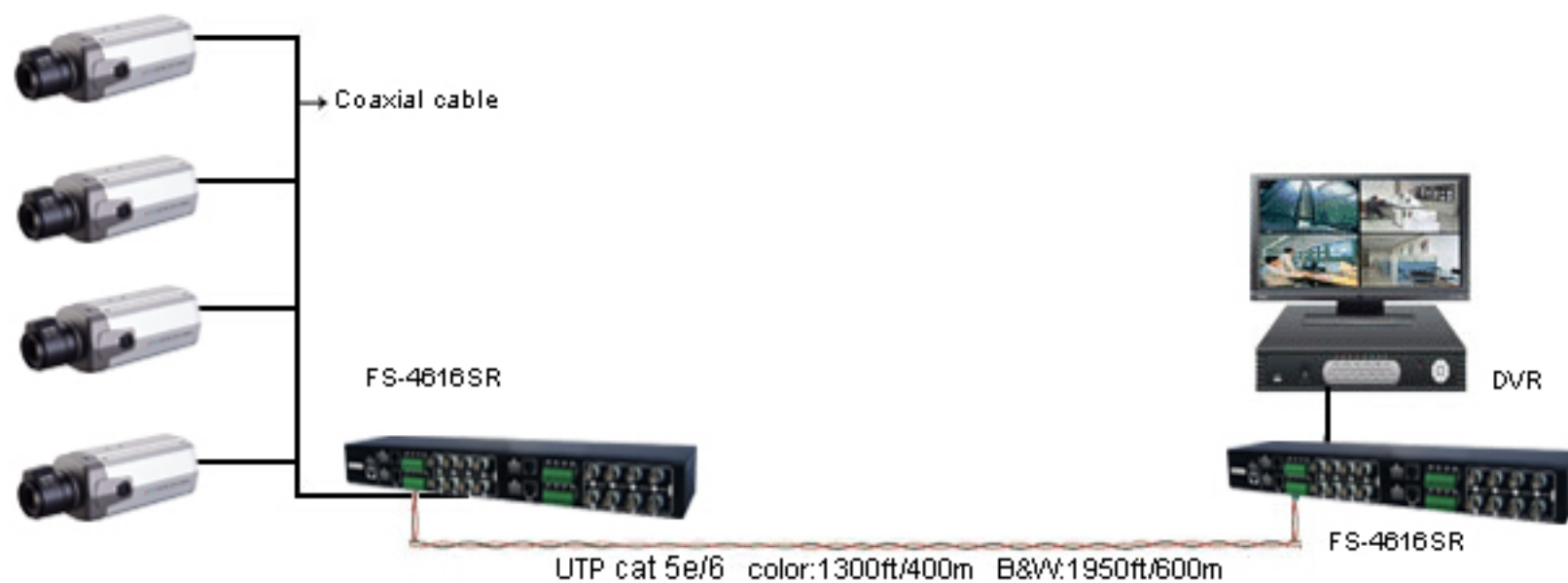


Diagram 3 FS-4616SR + FS-4608R

