

CCT648

Features

8-Channel Active Video Receiver Hub

- Full-motion color video signal up to 3900ft(1200m) via UTP cat5e/6
- NTSC, PAL & SECAM video format compatible
- Real-time transmission
- 100-240V power supply, 50~60Hz
- Adjustable for various video distance
- Integrated 2 channel video distribution amplifier allows dual output
- Female BNC connector
- RJ45 and detachable terminal blocks for UTP cat5e/6
- Video Present LED indicators for each channel
- Compatible with qualified UTP camera
- Exceptional interference rejection
- 70 dB crosstalk and noise immunity
- Full ground-loop immunity
- Built in TVS(Transient Voltage Suppressors) for surge protection
- Lightning protection design Grade: V
- Compact size and easy installation
- High-Density 19", 1U rack mount, wall mountable and desk installation via 4 rubber feet
- Black galvanized housing



Overview

The FS-4608R video balun hub is a active (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-4608R is a compact unit. RJ45 and pluggable screw terminal blocks of FS-4608R allows easy connection of UTP cable input. It receives 8 channel live CCTV video signal from camera end via 4 UTP cable at distance up to 3900ft(1200m) when used with active video transmitter. The transmission distance reaches to 2200ft(700m)when used with passive transmitter. Its integrated 2 channel video distribution amplifier allows dual output to display at both monitor and DVR.

The FS-4608R has a single video distance adjustment as well as built-in surge suppression to protect video equipment against damaging voltage spikes.

Its Integrated Ground Loop isolation prevents annoying "hum-bars" common with long distance installations and its excellent crosstalk and noise immunity provides quality video up to the maximum distance. The superior interference rejection and low emissions of the FS-4608R allow video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant.

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-4616R 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-voltage 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-4608R
Product Name		8-Channel Active Video Receiver
Applied Devices		CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equipment
Video	Video Format	PAL, NTSC, SECAM
	Operating Frequency	DC to 6MHz
	Max Distance	UTP Category 5e (24AWG) Color: 3900ft(1200m) B&W: 6500ft(2000m)
	Common-mode/Differential-mode rejection	70 dB typ
	Impedance	Coax, female BNC 75 ohms
		UTP, Screw terminal block or RJ45 100 ohms
	Video Distance Adjustment	4-position dip switches
LED Indicators	Red	Power-On
	Yellow	“Active” signal present
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	Adaptive Voltage Arrange	100-240VAC, 50~60Hz
	Power consumption	<1500mW
Connector	Video Input	Pluggable Screw Terminal Block and RJ45 (select one connection)
	Video Output	Female BNC Connector
Protection	Surge Protection	Built-in Transient Voltage Suppressor(TVS)
	Ground Isolation	YES
	Antistatic	YES
Mechanical	Dimensions(L*W*H)	430*83*45mm (BNC connector & mounting bracket excluded)
	Housing	Black galvanized housing
	Body Color	black
	Net Weight	1350g
Environmental	Operating Temperature	-10° ~ 70° C
	Relative Humidity	0~95% (non-condensing)
	Storage Temperature	-20° ~ 85° C

Application Diagram

Diagram 1 FS-4201SR + FS-4608R

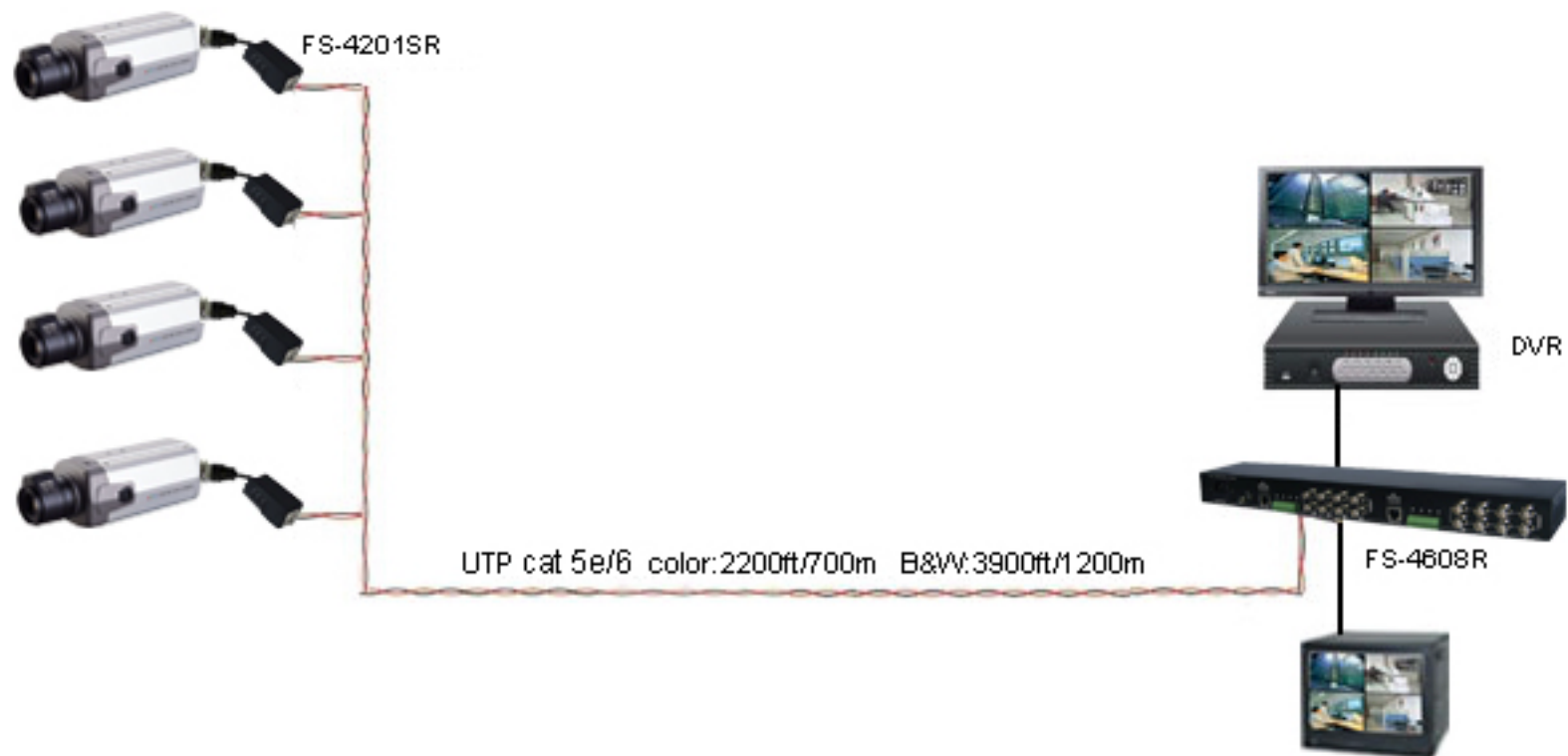


Diagram 2 FS-4401S + FS-4608R

