



Features:

- Real-time transmission over UTP cat5e/6
- No power required
- Compatible with all HD-TVI/CVI/AHD/CVBS analog cameras
- Please refer to "Transmission Distance Chart" Part to find out distance of 720P/960P/1080P/3MP/4MP/5MP/4K cameras
- Female BNC connector
- Built-in solid state TVS (Transient Voltage Suppressor) for surge protection
- Wave Filter Design, Anti-Static Design
- Lightning protection design Grade: III
- 60 dB crosstalk and noise immunity
- Exceptional interference rejection
- Galvanized housing

The ITT-MC1447 video hub is a passive (non-amplified) device that allows the transmission of real-time CCTV HD video signal via cost-effective Unshielded Twisted Paired (UTP) cable.

The ITT-MC1447 is compatible with all HD-TVI, HD-CVI, AHD and CVBS analog cameras.

The ITT-MC1447 supports pluggable screw terminal or RJ45 connections. Used with single channel HD passive video transmitter, the FS-HDP4604 is capable to receive 4 channel live CCTV HD video signal from camera end via one UTP cable.

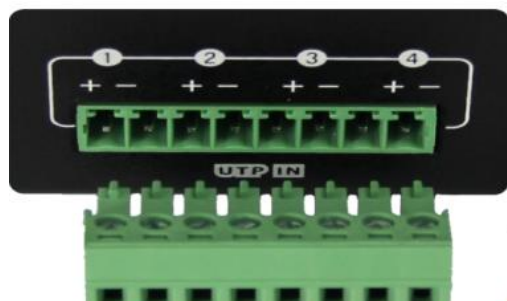
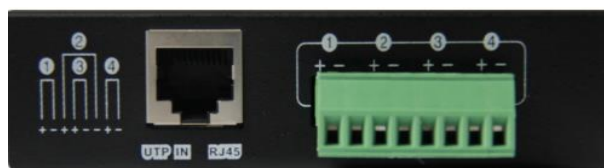
The superior interference rejection and low emissions of the ITT-MC1447 allow video signals to coexist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. The ITT-MC1447 is built-in surge suppressor to protect video equipment against damaging voltage spikes and provide noise immunity to ensure quality signals without disturbing "hum-bars".

Transmission Distance Chart

Camera Type	HD-TVI	HD-CVI	HD-AHD
720P camera	250m(820ft)	440m(1443ft)	320m(1049ft)
960P camera	Not tested	Not tested	320m(1049ft)
1080P camera	250m(820ft)	250m(820ft)	250m(820ft)
3MP camera	250m(820ft)	Not tested	250m(820ft)
4MP camera	180m(590ft)	200m(656ft)	200m(656ft)
5MP camera	180m(590ft)	Not tested	180m(590ft)
4K camera	130m(426ft)	200m(656ft)	150m(492ft)
CVBS camera	400m(1312ft)		

Wire and Cable Recommendations

The ITT-MC1447 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 Specification

Applied Devices		CCTV cameras, monitors, DVR, switchers, IP encoders, and other CCTV equipment
Video	Video Format	HD-TVI/CVI/AHD/CVBS
	Operating Frequency	DC to 71MHz
	Common-mode/Differential-mode rejection	15KHz to 71MHz 60 dB typ.
	Impedance	Coax: female BNC 75Ω unbalanced
		UTP: screw terminal block or RJ45 Jack 100Ω balanced
Wire Type	Attenuation	1.5 dB typ. Max
	Network Wiring	One Unshielded Twisted Pair (for each video signal) 24-16 AWG (0.5-1.31mm)
	Category Type	UTP cat 5e/6
	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
	Video Input	2KV (common mode), 10/700us IEC61000-4-5/1955(GB/T 1726, 5-1999)
	Video Output	2KV (different mode), 10/700us IEC61000-4-5/1955(GB/T 1726, 5-1999)
Mechanical	Antistatic	YES
	Dimensions(L*W*H)	BNC connector & mounting bracket excluded
		100*72.5*23mm
	Housing	Galvanized
	Body Color	Black
Environmental	Net Weight	200g
	Operating Temperature	-20° ~ 70° C
	Relative Humidity	0~95% (non-condensing)
	Storage Temperature	-40° ~ 150° C

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