

Overview

The HDMI IR/Extender Kit (500405) allows HDMI equipment to be connected up to 300 ft (91m) via two (2) Cat5e/6 unshielded twisted pair cables in a point-to-point configuration at 1080i resolution. The product also supports 1080p Deep Color up to 150 ft (46m) via two (2) Cat6 cables.

The kit includes one (1) transmitter, one (1) receiver, one (1) IR Emitter, one (1) IR Sensor and two (2) power supplies.

The transmitter (500406) and receiver (500407) are also sold separately. Replacement IR-Emitter (500998) and IR Sensor (500999) may be ordered.

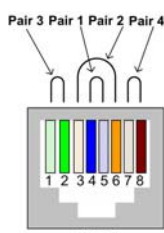
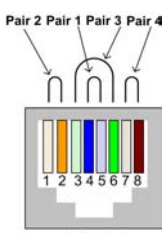


Applications

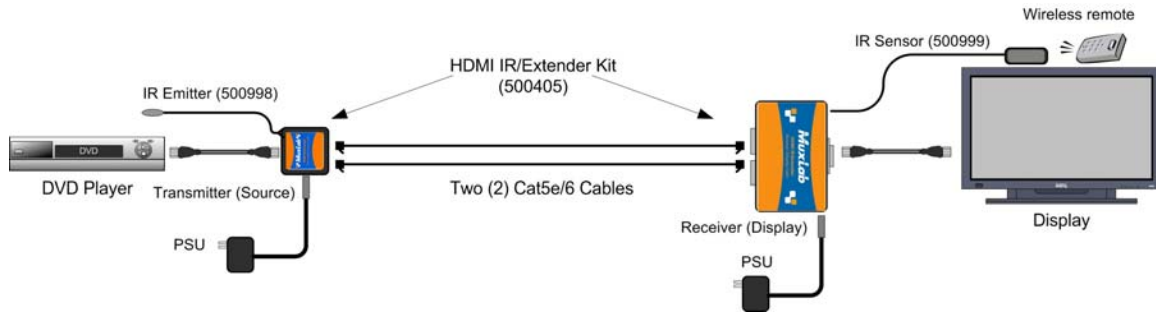
Commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical information systems.

Key Features

Up to 150 ft (46m) @ 1080p Deep Color via Cat6
 Up to 300 ft (91m) @ 1080i via Cat5e/6
 Connect via two (2) Cat5e/6 cables
 Includes IR Emitter and IR Sensor

Specifications	
Environment	HDMI 1.3a. (Supports the 3D feature of HDMI 1.4)
Devices	DVD, plasma, projectors, monitors, TV, PC, laptops, servers supporting HDMI
Transmission	Transparent to the user
Bandwidth	225 MHz
Signals	HDMI 1.3a protocol
Connectors	One (1) HDMI receptacle. Two (2) RJ45S for Cat5e/6 unshielded or shielded twisted pair. <i>HDMI cables not included.</i>
Max. Distance*	480i/p: Cat 5e: 300 ft (91 m) Cat 6: 300 ft (91 m) 720p, 1080i: Cat 5e: 300 ft (91 m) Cat 6: 300 ft (91 m) 1080p: Cat 5e: 150 ft (46 m) Cat 6: 200 ft (61 m) 1080p Deep Color: Cat 5e: 90 ft (27 m) Cat 6: 150 ft (46 m) When installed in an electrically noisy environment, STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.
RJ45 Pin Configuration <i>Reverse Polarity Sensitive</i> <i>Use EIA/TIA 568 A or B, straight-through wiring.</i>	RJ45 A (HDMI A) Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  RJ45 B (HDMI B) Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T) 
Cable	Two (2) Cat5e/6 or better twisted pair cables required.
Power Supply	Two (2) 110-240V/12VDC power supply with interchangeable blades included
Power Consumption	Transmitter: 1.8W Receiver: 3.6W
Temperature	Operating: 0° to 55° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.
Enclosure	Fire retardant plastic
Dimensions	Transmitter: 2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.5 cm) Receiver: 4.50" x 3.00" x 1.25" (11.4 x 7.6 x 3.2 cm)
Weight	2.0 lb (0.9 kg)
Mounting	Velcro pads included.
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Order Information	500405 HDMI IR/Extender Kit (includes, Tx, Rx, IR-Emitter, IR Sensor, 2x PSU) 500406 HDMI IR/Transmitter (includes IR Emitter and PSU) 500407 HDMI IR/Receiver (includes IR Sensor and PSU) 500998 IR Emitter (see datasheet of 500998 for specifications) 500999 IR Sensor (see datasheet of 500999 for specifications)

Typical Application



Rear panel view