

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

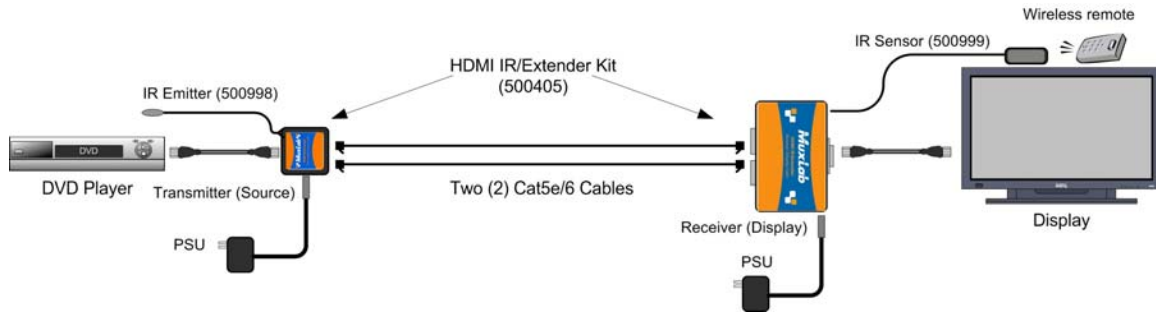
Commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical information systems.

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																																	
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*	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">480i/p:</td> <td style="width: 35%;">Cat 5e: 300 ft (91 m)</td> <td style="width: 35%;">Cat 6: 300 ft (91 m)</td> </tr> <tr> <td>720p, 1080i:</td> <td>Cat 5e: 300 ft (91 m)</td> <td>Cat 6: 300 ft (91 m)</td> </tr> <tr> <td>1080p:</td> <td>Cat 5e: 150 ft (46 m)</td> <td>Cat 6: 200 ft (61 m)</td> </tr> <tr> <td>1080p Deep Color:</td> <td>Cat 5e: 90 ft (27 m)</td> <td>Cat 6: 150 ft (46 m)</td> </tr> </table> <p><small>*Based on a maximum length of 6.6 ft (2m) of HDMI cable per end</small></p> <p>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.</p>	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)																					
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RJ45 Pin Configuration <i>Reverse Polarity Sensitive</i> <i>Use EIA/TIA 568 A or B, straight-through wiring.</i>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">RJ45 A (HDMI A)</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"> </td> </tr> <tr> <td>Pin 1 (R)</td> <td>Pin 2 (T)</td> </tr> <tr> <td>Pin 3 (R)</td> <td>Pin 6 (T)</td> </tr> <tr> <td>Pin 4 (R)</td> <td>Pin 5 (T)</td> </tr> <tr> <td colspan="2">RJ45 B (HDMI B)</td> <td rowspan="4" style="text-align: center; vertical-align: middle;"> </td> </tr> <tr> <td>Pin 1 (R)</td> <td>Pin 2 (T)</td> </tr> <tr> <td>Pin 3 (R)</td> <td>Pin 6 (T)</td> </tr> <tr> <td>Pin 4 (R)</td> <td>Pin 5 (T)</td> </tr> <tr> <td colspan="2">RJ45 B (HDMI B)</td> <td></td> </tr> <tr> <td>Pin 1 (R)</td> <td>Pin 2 (T)</td> <td></td> </tr> <tr> <td>Pin 3 (R)</td> <td>Pin 6 (T)</td> <td></td> </tr> <tr> <td>Pin 4 (R)</td> <td>Pin 5 (T)</td> <td></td> </tr> <tr> <td>Pin 7 (R)</td> <td>Pin 8 (T)</td> <td></td> </tr> </table>	RJ45 A (HDMI A)			Pin 1 (R)	Pin 2 (T)	Pin 3 (R)	Pin 6 (T)	Pin 4 (R)	Pin 5 (T)	RJ45 B (HDMI B)			Pin 1 (R)	Pin 2 (T)	Pin 3 (R)	Pin 6 (T)	Pin 4 (R)	Pin 5 (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)	
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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