

Overview

The HDMI 4x4 Matrix Switch (500415) allows up to four (4) different HDMI sources to be connected and/or distributed to up to four (4) HDMI displays via Cat5e/6 unshielded twisted pair cables. The product works in conjunction with MuxLab's HDMI IR/Receivers (500407 or 500417) supporting up to 150 ft (45m) at 1080p Deep Color via Cat5e cable. Includes GUI-based control software.

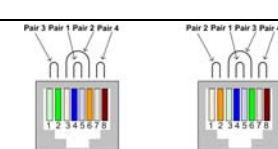
Applications

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

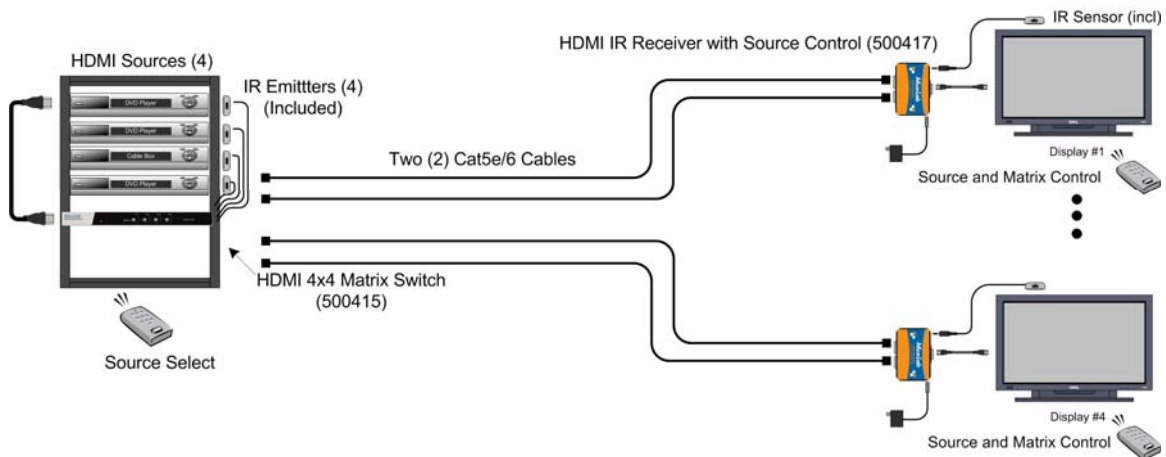
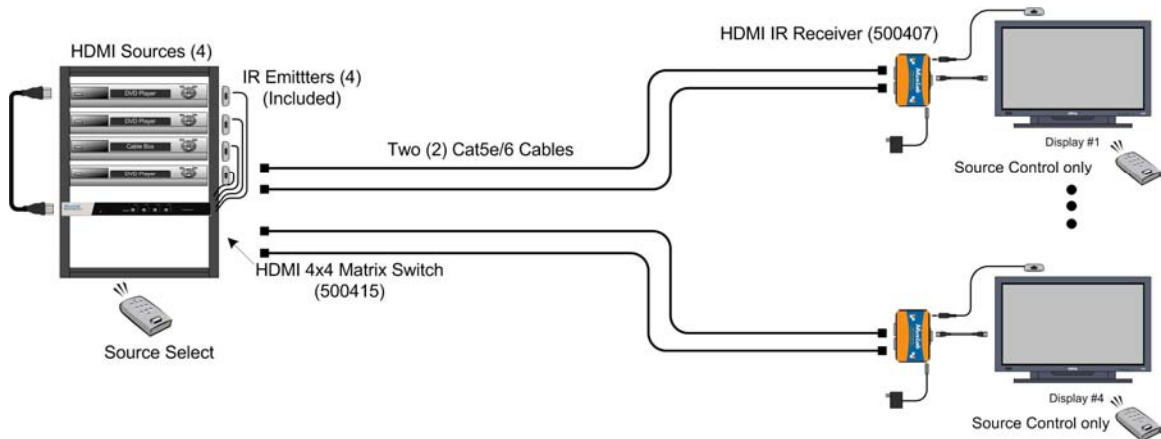


Key Features

HDMI 1.3a 4x4 matrix via two (2) Cat5e/6
 Control options: manual, IR, USB, GUI, Web
 Up to 150 ft (45m) @ 1080p/8-bit via Cat5e
 Up to 90 ft (27m) @ 1080p/12-bit via Cat5e
 Supports IR matrix and source control
 Includes four IR emitters plus wireless remote

Specifications																
Environment	HDMI 1.3A															
Devices	LCD and Plasma TVs, DVD and Blu-Ray players, monitors, projectors, PCs, laptops, home theatre systems, home theater PCs, game consoles, servers that support HDMI.															
Transmission	Transparent to the user															
Bandwidth	Video: 225 MHz															
Signals	HDMI 1.3a protocol															
Matrix Switching Time	Maximum three (3) seconds															
Connectors <i>HDMI Cables not included.</i>	Source Input: Four (4) HDMI receptacles Local Output: Four (4) HDMI receptacles Distributed Output: Four (4) UTP/STP outputs via eight (8) RJ45S connectors for Cat 5e/6 UTP/STP cabling															
Maximum Distance HDMI Switch to Display <i>Based upon a maximum length of 6.6 ft (2 m) of HDMI cable per end.</i>	<table border="1"> <thead> <tr> <th></th> <th>Cat 5e</th> <th>Cat 6</th> </tr> </thead> <tbody> <tr> <td>480i/p</td> <td>300 ft (91 m)</td> <td>300 ft (91 m)</td> </tr> <tr> <td>720p, 1080i</td> <td>300 ft (91 m)</td> <td>300 ft (91 m)</td> </tr> <tr> <td>1080p/8-bit</td> <td>150 ft (46 m)</td> <td>200 ft (61 m)</td> </tr> <tr> <td>1080p/12-bit</td> <td>90 ft (27 m)</td> <td>150 ft (46 m)</td> </tr> </tbody> </table> <p><i>NOTE: STP cables must be used in an electrically noisy environment. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.</i></p>		Cat 5e	Cat 6	480i/p	300 ft (91 m)	300 ft (91 m)	720p, 1080i	300 ft (91 m)	300 ft (91 m)	1080p/8-bit	150 ft (46 m)	200 ft (61 m)	1080p/12-bit	90 ft (27 m)	150 ft (46 m)
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RJ45 Pin Configuration <i>Reverse Polarity Sensitive</i> <i>Use EIA/TIA 568A or 568B Straight-through wiring</i>	<table border="1"> <thead> <tr> <th>RJ45 A (HDMI A)</th> <th>RJ45 B (HDMI B)</th> </tr> </thead> <tbody> <tr> <td>Pin 1 (R) Pin 2 (T)</td> <td>Pin 1 (R) Pin 2 (T)</td> </tr> <tr> <td>Pin 3 (R) Pin 6 (T)</td> <td>Pin 3 (R) Pin 6 (T)</td> </tr> <tr> <td>Pin 4 (R) Pin 5 (T)</td> <td>Pin 4 (R) Pin 5 (T)</td> </tr> <tr> <td>Pin 7 (R) Pin 8 (T)</td> <td>Pin 7 (R) Pin 8 (T)</td> </tr> </tbody> </table> 	RJ45 A (HDMI A)	RJ45 B (HDMI B)	Pin 1 (R) Pin 2 (T)	Pin 1 (R) Pin 2 (T)	Pin 3 (R) Pin 6 (T)	Pin 3 (R) Pin 6 (T)	Pin 4 (R) Pin 5 (T)	Pin 4 (R) Pin 5 (T)	Pin 7 (R) Pin 8 (T)	Pin 7 (R) Pin 8 (T)					
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Cable	Two (2) Cat 5e/6 UTP/STP cables (or better) required per port															
Power Supply	One (1) 110-240V/12VDC, 2.5A power supply with three interchangeable blades															
IR Remote	Includes four (4) IR emitters and one (1) handheld remote control															
Compatible Receivers	500407, 500417															
Power Consumption	30 Watts															
LED Diagnostics	Power (Blue) Interconnection Matrix (Green)															
Temperature	Operating: 0°C to 40°C Storage: -20°C to 85°C Humidity: Up to 95% non-condensing															
Dimensions	1U Rack Mountable: 19.00" x 7.50" x 1.75" (48.26 cm x 19.05 cm x 4.45 cm)															
Weight	4.0 lb (1.8 kg)															
USB Cable	Includes one (1) USB Type A to Type B cable															
Software	Includes MuxLab Control Software on USB Flash Drive															
Regulatory	FCC, CE-EMC Directive 89/336/EE, RoHS, WEEE															
Warranty	Two (2) years															
Order Information	500415: HDMI 4x4 Matrix Switch (includes four [4] IR Emitters)															

Typical Application



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