MuxLab

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.

Applications
Commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical video systems.
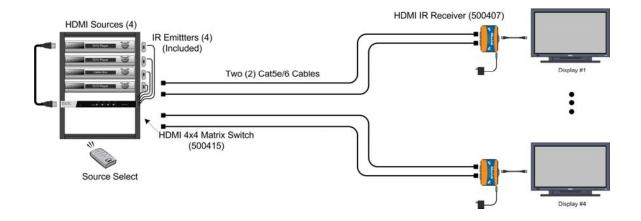
Key Features
HDMI 1.3a 4x4 matrix via two (2) Cat5e/6
Control options: manual, IR, USB, GUI, Web
Up to 150 ft (45m) @ 1080p/8-bit via Cat5e
Up to 90 ft (27m) @ 1080p/12-bit via Cat5e
Supports IR matrix and source control
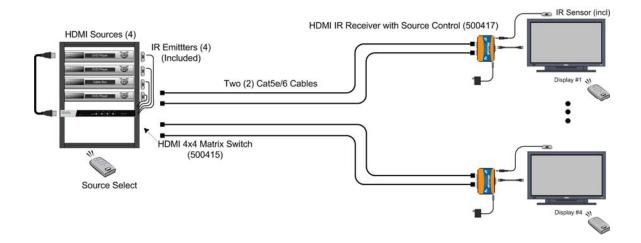Includes four IR emitters plus wireless remote

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 *HDMI Cables not included.*	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** *Based upon a maximum length of 6.6 ft (2 m) of HDMI cable per end.*	**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) *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.*
RJ45 Pin Configuration *Reverse Polarity Sensitive* *Use EIA/TIA 568A or 568B Straight-through wiring*	**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)
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: 0ºC to 40ºC Storage: -20ºC to 85ºC 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