Specifications

Environment	HDMI 1.3a and DVI-D		
Devices	DVD, plasma, projectors, monitors, TV, PC, laptops, servers		
	supporting HDMI.		
Transmission	Unidirectional. Transparent to the user		
Bandwidth	340 MHz		
Signals	HDMI 1.3a protocol		
Copy Protection	Do NOT Support HDCP protected content.		
Connectors	TX Side: One (1) HDMI receptacle.		
	One (1) LC Fiber connector (output only).		
	One (1) 2.1mm power connector.		
	TX Side: One (1) HDMI receptacle.		
	One (1) LC Fiber connector (input only).		
	One (1) 2.1mm power connector.		
	-		
	Note: HDMI and Fiber cables not included.		
Maximum Distance	480i/p: 984ft (300m)		
Based on a maximum	720p, 1080i: 984ft (300m)		
	1080p 8-bit: 984ft (300m)		
length of 6.6 ft (2 m) of	1080p 12-bit deep-color: 984ft (300m)		
HDMI cable per end.	4K @ 24,25, 30Hz 984ft (300m)		
Cable	One (1) Multimode fiber 50/125 µm OM3 cable required		
Power Supply	Two (2) 110-240V/5VDC power supply with interchangeable blades		
Power Consumption	Transmitter: 1.35 Watt Receiver: 1.15 Watt		
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing		
Enclosure	Aluminium		
Dimensions	3.27" x 1.97" x 0.75" (83 x 50 x 19 mm)		
Weight	1.0 lb (0.45 kg)		
Compliance	Regulatory: FCC Class A, CE, RoHS		
Warranty	2 years		
Order Information	500462 HDMI Optical Isolator Kit		



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HDMI Optical Isolator Kit 500462

Quick Installation Guide

Overview

The HDMI Optical Isolator (500462) allows HDMI equipment to be completely isolated and connected up to 984ft (300m), while allowing a unidirectional communication (with no return signaling) via one (1) LC 50/125 μ m OM3 multimode fiber cable in a point-to-point configuration at 1080p resolution.

The HDMI Optical Isolator establishes a high separation between the source computer and the display devices preventing any potential leakage between the source and the peripheral equipment; removing the vulnerability of shared display equipment to cyberattacks.

The kit comes with one (1) Transmitter, one (1) Receiver and two (2) power supply.

Applications

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

Key Features

- Complete optical isolation between source and display.
- Unidirectional HDMI communication.
- No return signaling.
- Fixed EDID configuration.
- Up to 984ft (300m) @ 1080p via one (1) LC multimode fiber.

Installation

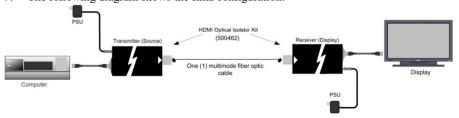
 Identify the connectors on the Transmitter and Receiver as indicated on the product labels.



- 2. Verify that the distance between the HDMI Optical Isolator Transmitter and Receiver is within MuxLab specifications (see Specifications table).
- 3. To install the Transmitter:
 - 3a. Connect the Transmitter to the HDMI video source with an HDMI compliant cable
 - 3b. Connect one (1) length of multi-mode fiber cable to the LC Fiber connector on the Transmitter.
- To install the Receiver:
 - 4a. Connect the Receiver to the HDMI display equipment with an HDMI compliant
 - 4b. Connect the one (1) length of multi-mode fiber cable to the LC Fiber connector on the Receiver.
- Connect the 5 VDC power supply to the Receiver first, and then plug the power supply into an AC power outlet. Connect the 5 VDC power supply to the Transmitter first, and then plug the power supply into an AC power outlet.

Note: Power the HDMI Optical Isolator only after all connections are made.

- 6. Power on the HDMI equipment and verify the image quality.
- 7. The following diagram shows the final configuration.



Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in respect to the installation of the HDMI Optical Isolator Kit:

Symptom	Probable Cause	Possible Solutions
No Image	No power	Check power connections
No Image	Fiber Cable	Check the Fiber cables.
No Image	HDMI Cable	Check the HDMI Cable.
No Image	Synchronization	Check cable length.
Flickering Image	Synchronization	Check cable length
		Check the HDMI Cable Quality.
Choppy sound	Synchronization	Check cable length
		Check the HDMI Cable Quality.
Green or pink hue	DDC communication	Cycle power of the HDMI Optical Isolator.
Image flickers when powering up nearby equipment	Interference	Move HDMI Optical Isolator away from the source of the interference.

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).