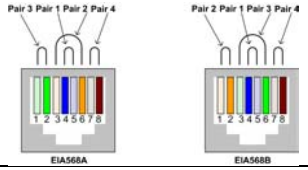
Specifications

Environment	DVI 1.0 (Single Channel)
Devices	Plasma, projectors, monitors, TV, PC, laptops
Transmission	Transparent to the user
Bandwidth	340 MHz
Signals	DVI 1.0 protocol
Audio	Does not embed or de-embed audio over DVI. Transmits audio in common mode over UTP and completely isolated from the DVI signal
Connectors	One (1) DVI-D receptacle. One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. 3.5mm jacks for Analog Stereo Audio *Note: DVI and Audio cables not included.*
Maximum Distance *Based on a maximum length of 6.6 ft (2 m) of DVI cable per end.*	Cat 5e/6: 230 ft (70 m) up to 1920 X 1200 115 ft (35 m) for 4K; 3840 X 2160/24,25,30 Hz *Note: When installed in an electrically noisy environment, an STP cable must be used. 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 586B straight-through wiring.*	**RJ45 Link** 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	One (1) Cat 5e/6 or better twisted pair cables required
Power Supply	Two (2) 110-240V/5VDC power supplies with interchangeable blades
Power Consumption	Transmitter: 1.6 Watt Receiver: 3.2 Watt
Temperature	Operating: 0° to 40°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Enclosure	Aluminum
Dimensions	4.50" x 3.00" x 1.25" (11.4 x 7.6 x 3.2 cm)
Weight	2.6 lb (1.2 kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Order Information	500390 DVI/Audio Extender Kit

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DVI/Audio Extender Kit

500390

Quick Installation Guide

Overview
The DVI/Audio Extender Kit (500390) allows one DVI channel and one line level stereo audio audio channel to be transmitted to 230 ft (70 m) at all resolutions up to 1920x1200 via one (1) Cat 5e/6 cable in a point-to-point configuration.

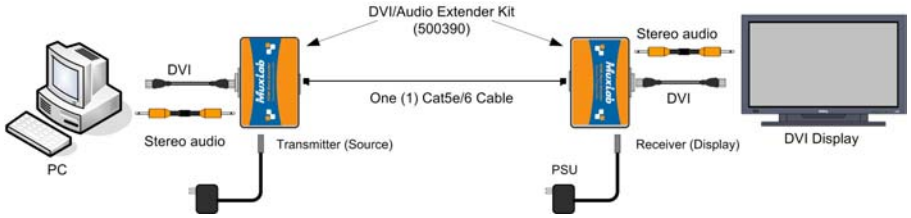
Applications
Applications include commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, and medical information systems.

Installation

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

2. Verify that the distance between the DVI/Audio Transmitter and Receiver is within MuxLab specifications.
3. To install the Transmitter:
   3a. Connect the Transmitter to the DVI video source with a DVI compliant cable.
   3b. Connect the Transmitter to Analog Stereo Audio source with a 3.5mm stereo cable.
   3c. Connect one (1) lengths of Cat 5e/6 (or higher) grade UTP cables to RJ45 LINK connectors on the Transmitter.
4. To install the Receiver:
   4a. Connect the Receiver to the DVI display equipment with a DVI compliant cable.
   4b. Connect the Receiver to the Analog Stereo Audio equipment with a 3.5mm stereo cable.
   4c. Connect the one (1) Cat 5e/6 cables to RJ45 LINK connectors on the Receiver.
5. 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. If power is present, the green power LED of the Transmitter and the Receiver will be ON.

   Note: Power the DVI/Audio Extender Balun only after all connections are made.
6. Power the DVI 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 DVI/Audio Extender Kit:

Symptom	Tx LEDs			Rx LEDs			Probable Cause	Possible Solutions
	Power	DVI	RJ45	Power	DVI	RJ45		
No Image	OFF	OFF	OFF	OFF	OFF	OFF	No power	• Check power connections
No Image	ON	OFF	OFF	ON	OFF	OFF	UTP Cable	• Check the UTP cables.
No Image	ON	OFF	ON	ON	OFF	ON	DVI Cable	• Check the DVI Cable.
No Image	ON	ON	ON	ON	ON	ON	Synchronization	• Check cable length.
Flickering Image	ON	ON	ON	ON	ON	ON	Synchronization	• Check cable length • Check the DVI Cable Quality.
Choppy sound	ON	ON	ON	ON	ON	ON	Synchronization	• Check cable length
Green or pink hue	ON	ON	ON	ON	ON	ON	DDC communication	• Cycle power of the DVI/Audio Extender. • Check UTP cables and replace.
Image flickers when powering up nearby equipment	ON	ON	ON	ON	ON	ON	Interference	• Use STP cables

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).

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