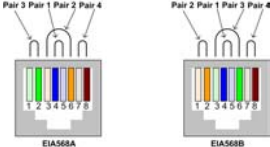


Specifications

Environment	Infrared (IR) control										
Devices	TV Sets, STB, DVD, DVR, PVR, satellite receivers.										
Transmission	Transparent to the user										
Supported IR Data Formats	NEC code, RC5 code, RC6 code, Grounding code, RCA Code, Zenith code and Sony 12-bit code.										
Carrier Frequency	38 KHz										
IR Wavelength	940 nm										
Connectors	TX: One (1) 3.5mm stereo jack for IR Sensor One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair Three (3) Screw-type Terminal Blocks for RJ45 pass-thru One (1) PSU connector. RX: Four (4) 3.5mm stereo jacks for IR Emitter One (1) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. Three (3) Screw -type Terminal Blocks for RJ45 pass-thru.										
Maximum Distance	2,200 ft (670m)										
RJ45 Pin Configuration	<table border="0"> <tr> <td>Signal</td> <td>RJ45</td> </tr> <tr> <td>IR Remote: Pin 7 (R)</td> <td>Pin 8 (T)</td> </tr> <tr> <td>Pass-Thru: Pin 1 (R)</td> <td>Pin 2 (T)</td> </tr> <tr> <td>Pass-Thru: Pin 3 (R)</td> <td>Pin 6 (T)</td> </tr> <tr> <td>Pass-Thru: Pin 4 (R)</td> <td>Pin 5 (T)</td> </tr> </table> <i>Reverse Polarity Sensitive. Use EIA/TIA 568A or 568B straight-through wiring.</i> 	Signal	RJ45	IR Remote: Pin 7 (R)	Pin 8 (T)	Pass-Thru: Pin 1 (R)	Pin 2 (T)	Pass-Thru: Pin 3 (R)	Pin 6 (T)	Pass-Thru: Pin 4 (R)	Pin 5 (T)
Signal	RJ45										
IR Remote: Pin 7 (R)	Pin 8 (T)										
Pass-Thru: Pin 1 (R)	Pin 2 (T)										
Pass-Thru: Pin 3 (R)	Pin 6 (T)										
Pass-Thru: Pin 4 (R)	Pin 5 (T)										
Cable	Cat 5e/6										
Power Supply	One (1) 110-240V/12VDC – 500mA power supply with interchangeable blades										
Power Consumption	Transmitter: 1.8 Watt										
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: 2.40" x 2.25" x 1.00" (6.1 x 5.7 x 2.5 cm)										
Weight	1.3 lb (0.6 kg)										
Mounting	Velcro Pads (included)										
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0										
Warranty	2 years										
Order Information	500600 IR Remote Extender Kit										



IR Remote Extender Kit

500600

Quick Installation Guide

Overview

The IR Remote Extender Kit (500600) allows up to four (4) audio-video sources to be controlled via remote IR up to 2,200 ft (670m) away from the display via Cat5e/6 cable. The product comes with one (1) IR Sensor (500999) and four (4) IR Emitters (500998) for maximum cabling versatility. The product also features three (3) pairs of screw terminal blocks allowing the three (3) unused twisted pairs to be accessed for other low voltage services such as balanced video, audio or data.

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.



MuxLab

8495 Dalton Road, Mount Royal, Quebec, Canada. H4T 1V5

Tel: (514) 905-0588 Fax: (514) 905-0589

Toll Free (North America): (877) 689-5228

E-mail: videoease@muxlab.com URL: www.muxlab.com

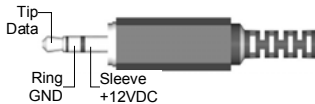
2. Verify that the distance between the IR Transmitter and Receiver is within MuxLab specifications (see Specifications table).
3. To install the Transmitter:
 - 3a. Connect the IR Sensor to the 3.5mm Stereo Jack(s) of the Transmitter.
 - 3b. Connect one (1) length of Cat 5e/6 (or higher) grade UTP cables to RJ45 LINK on the Transmitter.
 - 3c. Connect other low voltage services to the RJ45 pass-thru terminals (optional)
4. To install the Receiver:
 - 4a. Connect the IR Emitter(s) to the 3.5mm Stereo Jack(s) of the Receiver.
 - 4b. Connect the Cat 5e/6 cable to RJ45 LINK on the Receiver.
 - 4c. Connect other low voltage services to the RJ45 pass-thru terminals (optional)

Note: You can differentiate the IR Sensor and the IR Emitter by looking at the 3.5 mm plug.

The IR Emitter has a mono plug (2 Contacts).



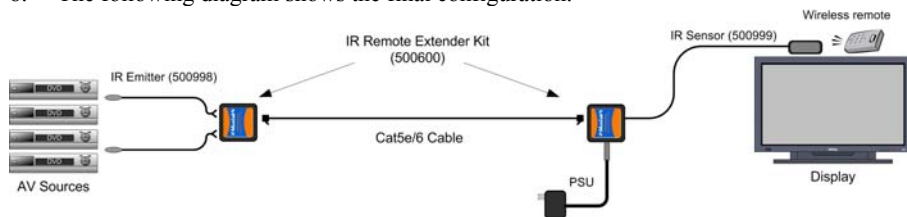
The IR Sensor has a Stereo Plug (3 Contacts).



5. Connect the 12 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 will be ON.

Note: Power the IR Remote Extender Balun only after all connections are made.

6. Position the IR Sensor so that it is directed to the hand-held remote control. For a clear IR signal reception, aim the hand-held remote control to the top of the IR Sensor enclosure.
7. Position the IR Emitter as close as possible to the source's IR Sensor (i.e. DVD player). For a clear IR signal reception, the IR Emitter can be glued on the source's IR Sensor. The IR Emitter's signal is transmitted from the side of the enclosure.
8. 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 IR Remote Extender Kit:

Symptom	Tx LED	Probable Cause	Possible Solutions
	Power		
IR not functioning	OFF	PSU not functioning.	• Make sure PSU is plugged to an AC outlet.
IR not functioning	ON	Remote control not directed to the IR Sensor or IR Emitter not directed to the source.	• Make sure the IR Sensor is directed towards the remote and the IR Emitter to the equipment.
IR not functioning	ON	Interference from sunlight, Fluorescent, Neon or Halogen lights.	• Place the IR equipment away from the interfering light.
IR not functioning	ON	Interference from RF radiation from the TV.	• Place the IR equipment away from the RF radiation.

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).