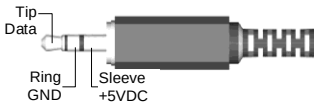
Specifications

Environment	Infrared (IR) control
Devices	TV Sets, STB, DVD, DVR, PVR, satellite receivers.
Supported IR Data Formats	NEC code, RC5 code, RC6 code, Grounding code, RCA Code, Zenith code and Sony 12-bit code.
Carrier Frequency	38 to 56KHz
IR Wavelength	940nm
Receiving Distance	15m
Connectors	IR Sensor: 3.5mm (stereo) jack
Pin Configuration	Tip: Data Ring: +5VDC @ 2mA Sleeve: GND 
Cable Length	63” (1.6m)
Temperature	Operating: 0° to 40°C Storage: -25° to 80°C Humidity: Up to 95% non-condensing
Enclosure	Plastic
Dimensions	0.64” x 0.79” x 0.32” (16 x 20 x 8mm)
Weight	1oz (28g)
Regulatory	RoHS
Warranty	Two (2) years
Order Information	500991 IR Sensor Carrier Wave 5VDC, 1.6M

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IR Sensor Carrier Wave 5VDC, 1.6M

500991

Quick Installation Guide

Overview

When installing an audio-video source device (DVD, satellite receiver, etc.) in a different location than the display device to which it is connected (TV, projector, etc.), it will often be useful to control that source remotely. For example, if a TV is located in one room, but the DVD to which it is connected is installed in another room (or even another floor), it will be difficult to control the DVD remotely.

To solve this problem, MuxLab has created an Infrared (IR) Emitter and Sensor pair that provides users with precisely this kind of remote control capability on select MuxLab products.

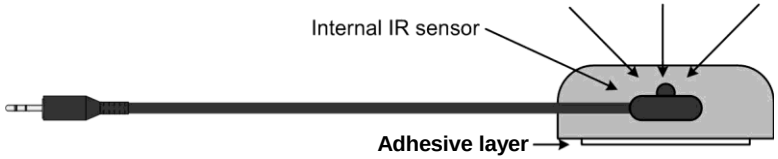
When used in conjunction with certain MuxLab products, including select MuxLab over IP Products that support IR functions, the IR Sensor (500991) provides source control by sensing IR signals sent from a remote control. The Sensor is connected to the Active Receiver and sent to an Active Transmitter device with a connected IR Emitter (500990) to control the source.

Note: Not all MuxLab products supporting IR functionality are compatible with this particular sensor. MuxLab offers several IR sensor models, depending on the MuxLab product being used. Please reference the manual of the MuxLab product you are using to determine which IR Sensor is compatible.

Installation

Attaching a Sensor

Each Sensor has an adhesive layer on the bottom flat surface of the shell.

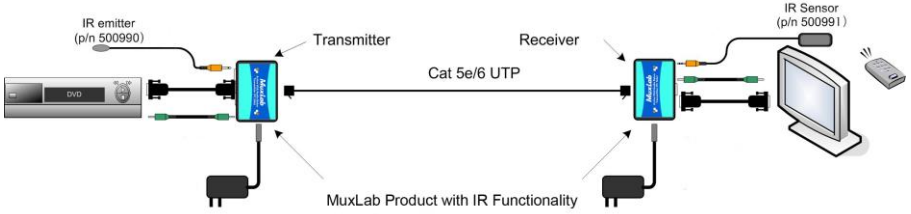


Simply peel off the adhesive protective cover and stick the IR Sensor to a stable surface, such as a cabinet. The IR sensor window is on the top shell of the IR Sensor. If you remove the Sensor for any reason, it may be necessary to replace the adhesive with a fresh piece of 2-sided tape to ensure proper adhesion.

The IR Sensor must be visible from the location where the user will control the equipment, and it cannot be farther than the maximum receiving distance (see specifications for more details).

Connecting a Sensor

Simply insert the stereo mini plug of the IR Sensor into the “IR Sensor” jack of a compatible MuxLab product that supports IR functions or IR transmission.



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Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in respect to the installation of the IR Sensor:

Symptom	Probable Cause	Possible Solutions
IR Not Functioning	Remote control not directed towards the IR Sensor	Make sure the IR Sensor is directed towards the remote
IR Not Functioning	Interference from sunlight, fluorescent, neon or halogen lights	Place the IR equipment away from the interfering light
IR Not Functioning	Interference from RF radiation of television	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).