



INSTALLATION INSTRUCTIONS

MR1 MICRO IR RECEIVER

The MR1 IR receiver has been designed for mounting in very small spaces. It may be mounted under shelf edges, cabinet ledges, etc. – anywhere an inconspicuous appearance is desired. The high sensitivity of these receivers allows reception of IR commands up to 25 feet away.

FEATURES

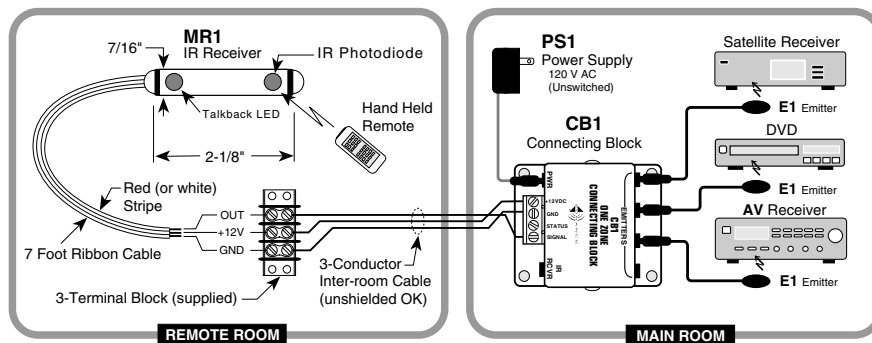
- Very small package.
- Works in a standard 3-wire system.
- System talk-back LED.
- Includes 3-Terminal Block for easy extension of 18" ribbon cable.
- 12 units may be powered by one **PS1** power supply.
- Has a 7 Foot, three-conductor ribbon cable with stripped and tinned ends.
- Circuitry contained in a shielded chassis.

SPECIFICATIONS

- Infrared carrier frequency bandwidth: 30 - 100 kHz.
- Reception range: up to 25 feet.
- Nominal reception angle: ± 55 degrees off axis.
- Cable requirements: 3-conductor, 24 to 18 gauge (unshielded OK).
- Maximum transmission length: One mile using 18 gauge wire.
- Maximum current output: 100 mA.
- Maximum number of directly driven IR Emitters: 4 (8 if 4 E2 emitters are used).
- Dimensions: 7/16" x 5/16" x 2-1/8" (11.2mm x 8.5mm x 55mm).
- Power requirements: 12 volts DC @ 10 mA.

INSTALLATION

MR1. These units are intended to be wired to the input terminals of Sonance Connecting Blocks or other devices, using the supplied 3-terminal block in the remote room location. A 3-conductor cable (24 gauge up to 200', 22 gauge up to 600', 20 gauge up to 2000', 18 gauge up to 5000') is run to the main room. Connections are then made to a Sonance connecting block, power supply, and emitters as shown in the following illustration of a typical basic system:



While it is possible to make wired connections without the connecting block, it is not recommended. The connecting block reduces installation time, helps to eliminate errors, allows easy troubleshooting, and permits easy system upgrades later, if needed.

MOUNTING:

The **MR1** can be mounted to any flat surface, using the 3/8" x 1-3/4" two-sided adhesive tape supplied. Two screws are included for mounting the 3-terminal block provided with the **MR1**. Affix the Mini-Emitters (such as the **E1**, **E2**, **VE1**, and **VE2**) to the IR sensor windows of the controlled equipment in accordance with the instructions that come with them.

NOTE: With any of these systems, be sure the **PS1** power supply is plugged into an unswitched AC outlet. This maintains the **SMR1** system in "standby" operation so that power-on commands can be sent to the controlled equipment.

OPTILINQ RECEIVER TROUBLE SHOOTING TIPS:

1. The most common problem encountered is stray IR or electronic interference or noise disrupting the IR signal from the remote control preventing proper transmission to the source equipment.

Examples of such interference:

- Fluorescent, Halogen or Neon lights, and light dimmers.
- Direct or reflected sunlight.
- Electronic noise from tube or flat panel televisions.
- Infrared security sensors.

2. Determine possible sources of interference by turning off lights, TV sets, and alarm systems as well as isolating the receiver from any sunlight. Then test the operation of the system.

- Sometimes interference will cause the talk-back LED to blink or illuminate dimly indicating noise entering the receiver.
- The talk-back LED should ONLY blink when IR commands are sent from a remote control to the receiver.
- When the source of interference is determined, it may be necessary to move either the source of the noise or the receiver to achieve proper operation.

3. If the talk-back LED on the receiver does NOT blink when IR commands are sent from the control, check the following:

- Make sure the **PS1** power supply is securely plugged into a live 120V AC wall outlet.
- Be sure that if you are using a receiver with a stereo mini plug that it is plugged into the IR RCVR jack and not any of the EMMITER jacks.
- Check to see that all mini plugs are properly seated into the jacks and that the wires are securely attached to the screw header.

4. If using a **VE1** or **VE2** and it is flashing but the component is not responding, make sure that the emitter is located directly over the IR receiver of the component. Consult the owners manual of the component or the manufacturer if you are having trouble locating the receiver.

5. If you continue to have problems with your OptiLinQ system, please call our Technical Assistance Department at:

(800) 582-0772 or (949) 492-7777 between 7 AM and 5 PM PST.



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Pg 2

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