

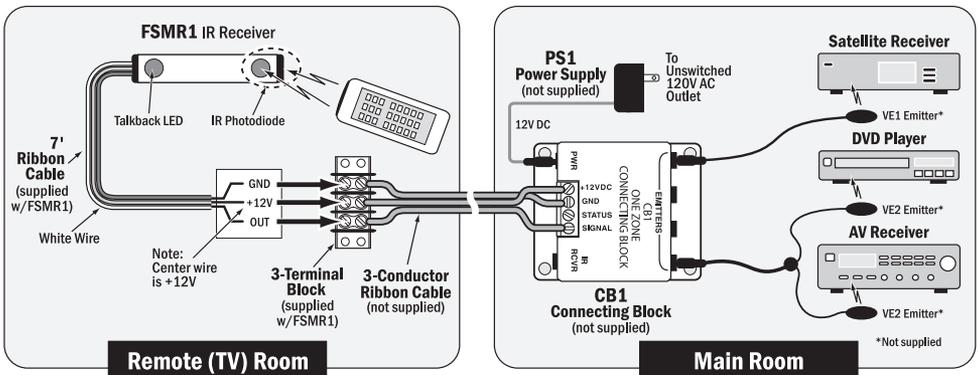
The FSMR1 Full-Spectrum IR receiver has been designed for use near plasma and LCD televisions and other IR or fluorescent interference sources. It may be mounted anywhere an inconspicuous appearance is desired — under the edge of a plasma TV or under shelf edges, cabinet ledges, etc. The FSMR1's high sensitivity allows reception of IR commands from 15 to 20 feet away.

FEATURES

- Can be used near plasma TVs or other sources of IR or fluorescent interference
- Very small package
- Works in a standard 3-wire system
- System talk-back LED
- Includes a 7-foot, three-conductor ribbon cable with stripped and tinned ends
- Includes 3-terminal block for easy extension of included 7-foot ribbon cable
- Up to 12 units may be powered by one PS1 power supply
- Circuitry contained in a shielded chassis

INSTALLATION

The FSMR1 is intended to be wired to the input terminals of a Sonance OptiLinq Connecting Block. Using the supplied 3-terminal block in the remote room location, a 3-conductor cable (24ga up to 200'; 22ga up to 600'; 20ga up to 800'; 18ga up to 1000') 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. **(Note: Connecting block, power supply and emitters are not supplied with the FSMR1.)**



NOTE: Be sure the PS1 power supply is plugged into an unswitched AC outlet. This keeps the FSMR1 system in "standby" operation so that power-on commands can be sent to the controlled equipment.

MOUNTING:

The FSMR1 can be mounted to any flat surface, using the two-sided adhesive tape supplied. Two screws are included for mounting the provided 3-Terminal Block. 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.

SPECIFICATIONS

Operational Frequency Range:	30kHz – 110kHz
Reception Range:	15 – 20 feet
Cable Requirements:	3-conductor, 24 to 18 gauge (unshielded OK)
Maximum Transmission Length:	1,000 feet (using 18 gauge wire)
Maximum Current Output:	100 mA
Dimensions:	7 ¹ / ₁₆ " x 5 ¹ / ₁₆ " x 2 ¹ / ₈ " (11.2mm x 8.5mm x 55mm)
Power requirements:	12 volts DC @ 110 mA

OPTILINQ FSMR1 IR RECEIVER TROUBLESHOOTING TIPS:

1. Although the FSMR1 has high immunity to interference, it may still occur in extreme cases. Interference can be caused by:
 - Fluorescent, Halogen or neon lights, and light dimmers
 - Direct or reflected sunlight
 - Electronic noise from tube or flat panel TVs
 - Infrared security sensors.
2. Determine possible sources of interference by turning off the above devices as well as isolating the receiver from any sunlight. Then test the operation of the system.
 - Sometimes interference will cause the talkback LED to blink or illuminate dimly indicating noise entering the receiver.
 - The talkback LED should ONLY blink when IR commands are sent from a remote control to the receiver.
 - Use a paper tube over the end of the FSMR1 to detect the direction of the noise source.

When the source of interference is determined, it may be necessary to move either the source of the interference or the IR receiver to achieve proper operation.
3. If the talkback LED on the IR receiver does NOT blink when IR commands are sent from the remote control, check the following:
 - Make sure the PS1 power supply is securely plugged into a live 120V AC wall outlet.
 - Check to see that all mini plugs are properly seated into the jacks and that all bare wires are securely attached to the correct screw headers.
4. If you're 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 component's IR receiver window. If you can't easily locate the IR window, hold the emitter 3" away from the component's front panel and move it around until the component responds. Consult the component's owners manual or the manufacturer if you are having trouble locating the IR receiver window.

TECHNICAL ASSISTANCE AND SERVICE

If you any have questions about the operation or installation of this product, please call our Technical Assistance Department on any business day at (800) 582-0772 or (949) 492-7777; from 7 a.m. to 5 p.m., Pacific Time.

If your product should need repair or service, contact your Sonance Authorized Dealer for help, or use the following procedure:

1. Prior to calling Sonance, note the product's model number, serial number, purchase date, and the name and address of the dealer where you purchased the product.
2. Contact our Technical Assistance Department at the above number(s) and describe the problem the unit is experiencing. If they determine that the product requires service, they will transfer you to our Customer Service Department, who will issue you a Return Authorization (RA) Number.

IMPORTANT: YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR PRODUCT TO SONANCE!

3. If you're directed to return the unit to Sonance for repair, pack the unit in its original shipping carton. If needed, you can obtain replacement packaging from us for a small charge. Note: it is best if you place the box into an additional outer "overcarton" before shipment to minimize a chance of theft in shipment. Please include a copy of the original bill of sale inside the package.
4. Contact a package delivery service such as United Parcel Service or Federal Express to arrange prepaid (not collect) shipping. Do not use the U.S. Postal Service.

IMPORTANT: FREIGHT COLLECT SHIPMENTS WILL BE REFUSED.

5. Write the RA Number on the outside of the shipping carton.

6. Ship the packaged unit to:

**Quality Assurance Department
Sonance
212 Avenida Fabricante
San Clemente, CA 92672-7531**

LIMITED WARRANTY COVERAGE (U.S. ONLY)

Sonance warrants to the original retail purchaser only that this Sonance product will be free from defects in materials and workmanship for a period of five (5) years, provided the product was purchased from a Sonance Authorized Dealer.

Defective products must be shipped, together with proof of purchase, prepaid insured to the Authorized Sonance Dealer from whom they were purchased, or to the Sonance factory at the address listed on this instruction manual. Freight collect shipments will be refused. It is preferable to ship this product in the original shipping container to lessen the chance of transit damage. In any case, the risk or loss or damage in transit is to be borne by the purchaser. If, upon examination at the factory or Authorized Sonance Dealer, it is determined that the unit was defective in materials or workmanship at any time during this warranty period, Sonance or the Authorized Sonance Dealer will, at its option, repair or replace this product at no additional charge, except as set forth below. If this model is no longer available and can not be repaired effectively, Sonance, at its sole option, may replace the unit with a current model of equal or greater value. In some cases where a new model is substituted, a modification to the mounting surface may be required. If mounting surface modification is required, Sonance assumes no responsibility or liability for such modification. All replaced parts and product become the property of Sonance. Products replaced or repaired under this warranty will be returned to the original retail purchaser, within a reasonable time, freight prepaid.

This Warranty does not include service or parts to repair damage caused by accident, disaster, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage inputs in excess of the rated maximum of the unit, or service, repair or modification of the product which has not been authorized or approved by Sonance. This Warranty also excludes normal cosmetic deterioration caused by environmental conditions. This Warranty will be void if the Serial Number on the product has been removed, tampered-with or defaced. This Warranty is in lieu of all other expressed warranties. If the product is defective in materials or workmanship as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. In no event will Sonance be liable for any incidental or consequential damages arising out of the use or inability to use the product, even if Sonance or a Authorized Sonance Dealer has been advised of the possibility of such damages, or for any claim by any other party.

Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply. All implied warranties on the product are limited to the duration of this expressed Warranty. Some states do not allow limitation on the length of an implied warranty. If the original retail purchaser resides in such a state, this limitation does not apply.

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EXCLUSIONS AND LIMITATIONS

The warranty set forth above is in lieu of all other warranties, express or implied, of merchantability, fitness for a particular purpose, or otherwise. The warranty is limited to Sonance products registered herein and specifically excludes any damage to loudspeakers and other allied or associated equipment which may result for any reason from use with this product. Sonance shall, in no event, be liable for incidental or consequential damages arising from any breach of this warranty or otherwise. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.



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Sonance • 212 Avenida Fabricante • San Clemente, CA 92672-7531, USA
(800) 582-7777 or (949) 492-7777 • FAX: (949) 361-5151 • Technical Support: (800) 582-0772