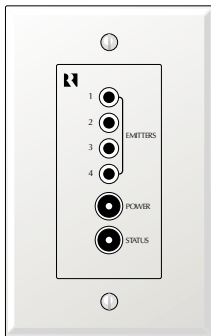


RRussound
A/V DISTRIBUTION & CONTROL SYSTEMS

IRB-6

Instruction Manual



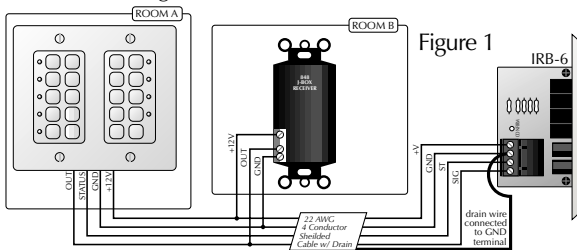
Product Overview

The IRB-6 provides an effective in-wall method to connect Infrared components. The IRB-6 can connect up to 12 infrared receivers and allows control of up to 8 infrared controlled devices.

IMPORTANT – Read the manuals that are included with the IR receivers and other IR equipment you intend to install with the IRB-6. It is important that you are familiar with the connection and operation of these devices. If you are unsure of any of the following installation procedures, this product should be installed by a professional custom installer.

IR Receiver / Keypad Connections

- 1) Run 22 gauge, 4 conductor, shielded cable with drain wire, such as Russound Pt. No. AW2260AB, from each of the IR receivers or keypads into a standard electrical junction box as shown in Figure 1.



- 2) Make sure that the power adapter is not connected to the IRB-6.
- 3) Connect the wires to each of the installed IR receivers or keypads as shown in Figure 1.
- 4) Connect the other end of all IR receivers or keypad wires to the +V, GND, SIGNAL (SIG) and STATUS (ST) terminals of the IRB-6 as shown in Figure 1. A maximum of 12 IR receivers or 4 learning keypads can be connected to the IRB-6 when only one Model #846C Power Supply is used. More IR devices can be connected by using a higher-current, regulated power supply. IR receivers usually consume approximately 10mA – 15mA each, while most learning keypads consume approximately 50mA each.

NOTE – The STATUS connection is for use with IR receivers or keypads that have Status feedback capability (see your IR receiver or keypad documentation).

- 5) Make sure that the drain wire of the cable is connected to the GND terminal of the main input connector on the back of the IRB-6. The drain wire does not need to be connected to the ground connection of the IR receiver or keypad.

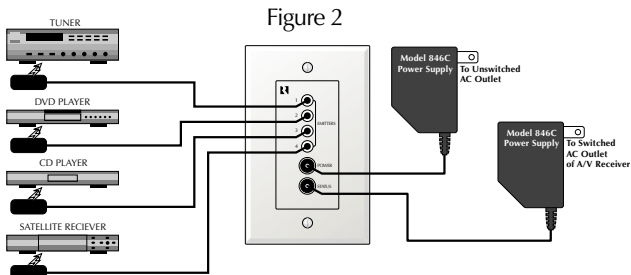
IR Emitter Connections

- 1) Connect the 1/8" plug of either the Model #845 or #1584 emitter to one of the emitter outputs at the front of the IRB-6 as shown in Figure 2. Up to 4 emitters can be connected to the IRB-6. When using the Model #1584 emitters, up to 8 IR controlled devices can be controlled.
- 2) Following the instructions that came with your IR emitter, place the other end of the IR emitter onto the IR sensor window of the equipment to be controlled.

Power Supply and Status Input Connections

- 1) Connect the Model #846C Power Supply to the POWER connection at the front of the IRB-6 as shown in Figure 2.
- 2) Check all connections and then plug the power supply into an unswitched AC receptacle.
- 3) Check for proper operation of all IR receivers or keypads. The CONFIRM indicator located on the circuit board of the IRB-6 gives a visual indication that the signals from the IR receivers or keypads are being successfully transferred to the IRB-6.
- 4) If the installed IR receivers or keypads have Status feedback capability, another Model #846C Power Supply can be connected to the STATUS input at the front of the IRB-6 as shown in Figure 2.

Figure 2 – The power supply would be plugged into a switched AC receptacle, usually on the back of the audio receiver being used. Please read the IR receiver or keypad documentation for the details of this feature.



Installation

- 1) Check all connections, and proper system operation before installing the IRB-6 into the wall.
- 2) Using the included hardware, install the IRB-6 into a standard electrical box.

Limited Warranty

The Russound IRB-6 is fully guaranteed for Two (2) years from the date of purchase against all defects in materials and workmanship. During this period Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects under the terms of the warranty. Russound assumes no responsibility for defects resulting from abuse or servicing performed by an agency or person not specifically authorized in writing by Russound. Damage to or destruction of components due to improper use voids the warranty. In these cases the repair will be made at the owner's expense. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of the service required. Be sure to pack in a corrugated container with at least 3 inches of resilient material to protect the unit from damage in transit.

 **Russound**
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connection

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