

## Testing the Connections

Now that all of the connections are made, it is time to test the equipment.

- Make sure the source equipment to be tested is selected as the proper input on the TV or Home Theater amplifier.
- Point the source equipment IR remote at the SLM-1 Receiver and try to turn the equipment on and off.
- If the equipment powers on and off, great! The IR control is successful.
- Select the next input source on the TV or Home Theater amplifier and test the next source.

## Troubleshooting

If the source equipment IR remote does not control the equipment, check these things:

- Check that the IR Confirm LED on the CB-140 Connecting Block illuminates when an IR signal from the source equipment remote is sent to the SLM-1 IR Receiver.
- Check that the CB-PS power supply is properly connected to a power outlet.
- Check that the Emitter for the source equipment is in the proper placement according to the manufacturer, or by following step 1 or 2 under the section "Location of Emitters"
- Check that the source equipment IR remote can still control the equipment directly. Replace batteries if necessary.

## Specifications

### CB-140

**Power Requirements:** 12VDC, 500mA

**Dimensions:** 3.86"W x 0.75"H x 1.5"D  
(98 x 20 x 40mm)

**Weight:** 6oz (170g)

### SLM-1

**Receive Frequency Range:** 36kHz to 58kHz

**Transmit Frequencies:** 40kHz and 56kHz

**Dimensions:** 2.0"W x 0.25"H x 0.5"D  
(50 x 6.3 x 13mm)

**Weight:** 2oz (57g)

**Cord Length:** 84" (213cm)

**Finish:** Black

### CB-PS

**Power:** 12VDC 500mA Max

**Weight:** 6oz (170g)

### IRE-1

**Dimensions:** 0.47"W x 0.35"H x 0.1"D  
(12 x 9 x 2.8mm)

**Cord Length:** 120" (305cm)



## Limited Warranty

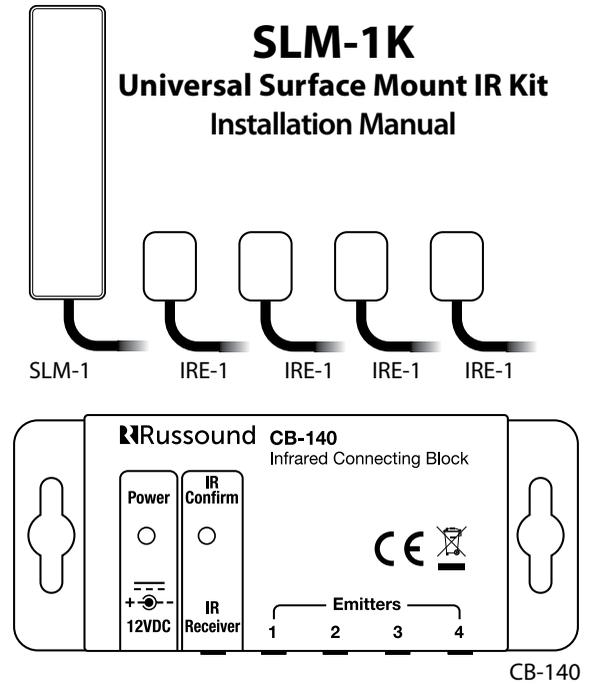
The Russound SLM-1K IR Kit is guaranteed for two (2) years from the date of purchase against all defects in materials and workmanship. For this warranty to apply, the unit must be installed and used according to its written instructions. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor. Accidental damage and shipping damage are not considered defects under the terms of this 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. If service is necessary, it must be performed by Russound. Damage to or destruction of components due to excessive power 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.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write the RA number on the shipping label and ship to: Russound, ATTN: Service, 1 Forbes Road, Newmarket NH 03857

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## Overview

The SLM-1K IR Kit is a complete, easy-to-use, infrared extender system. It is designed to allow you to locate your IR controllable devices out of sight, or even out of the room from where the remote control will be sending commands. The most common use is for locating equipment such as cable boxes, Blu-ray or DVD players, or other media devices inside a cabinet or in a common equipment closet, out-of-sight from the room where a television is used. By utilizing the SLM-1K, you are able to place our slim IR Receiver discreetly on your television bezel and hide all of your other connected equipment out of sight, placing one of our IRE-1 Infrared Emitters on each device, and then connecting them all with simple, color-coded plugs into the included connecting block.

Four items are needed to make an infrared extender system, and each of these is included in the SLM-1K kit.

**Connecting Block, Infrared Receiver, Infrared Emitter, Power Supply**

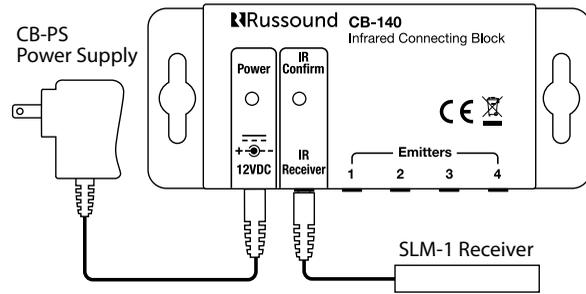
Additionally, Russound manufactures a variety of other receiver and emitter options to match system requirements. Please consult your Russound dealer or the Russound website at [www.russound.com](http://www.russound.com) for more information.

## CB-140 Overview and Connections

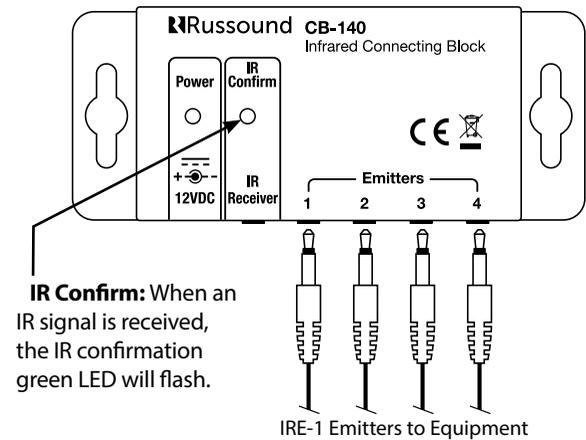
The central component of the SLM-1K is the CB-140 connecting block, which brings together the IR Receivers, the power supply, and the IR emitters used to pass the control to the audio / video components. While designed to work as part of a complete Russound IR system, the CB-140 will work with most standard IR sensors and emitters.

**Power:** Connect the Russound CB-PS Power Supply to the power jack. The power LED will be illuminated when powered. This power connection will power all of the IR components connected to the system.

**IR Receiver In:** This is a three terminal 3.5 mm plug that is common to many brands' free standing IR receivers.



**Emitter Outputs:** Connect up to 4 emitters to the emitter jacks labeled 1-4 (green connectors).



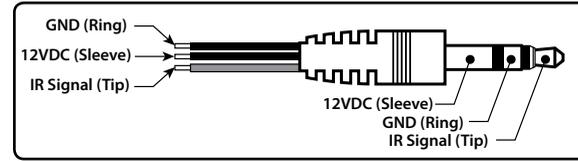
**IR Confirm:** When an IR signal is received, the IR confirmation green LED will flash.

IRE-1 Emitters to Equipment

**Mounting:** Mount the CB-140 near the source equipment to which the emitters are attached.

**Extending the IR Receiver wire:** For applications where a longer IR receiver wire is required, Russound manufactures the Model 900, IR Receiver Extension, in 50' lengths.

Alternatively, you can use the following diagram to splice an extension:



## Installation Steps

**1.** Locate a position for the SLM-1 IR Receiver on the front bezel of your television. Normally this is done on one of the bottom edges of the TV, but it can be placed wherever it is less conspicuous.

Make sure to note where the IR receiver wire will be exiting the receiver so that you can minimize the amount of visible wire. Depending on the placement, you may need to route the receiver wire through the receiver's back cover so that it exits on a different side of the receiver. The back cover is designed with a wire channel that will allow the wire to exit from any side, simply by rotating the receiver to the proper orientation. The wire should be pushed into the channel as needed.

**Note:** push the wire into place and avoid bending the wire at 90° angles as this could break the wire.

**2.** Clean the TV mounting surface to make sure it is free of any dust or dirt

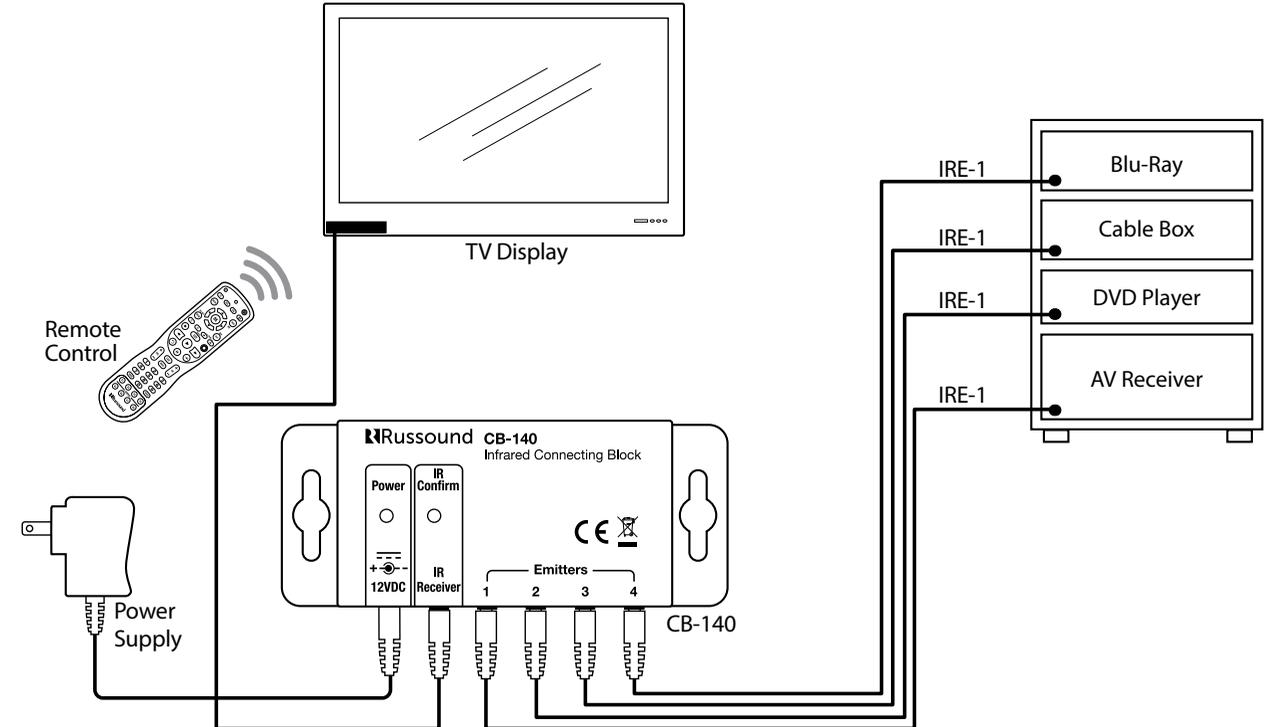
**3.** Apply the 2-sided adhesive tape to the rear of the IR sensor. If you are using the wire channel, the tape will be applied on top of the wire. Note the orientation of the window in the tape. If you are not using the wire channel, the 2-sided adhesive will cover the unused wire channel.

**4.** Place the sensor into place in the location identified in #1. Hold it firmly in place for at least 30 seconds for the adhesive to properly set. An extra adhesive is included in the packaging if it should be needed for future use.

**5.** Route the IR receiver wire to the location of the CB-140 connecting block and plug the 3.5 mm connector into the [Pink] jack marked "IR Receiver" on the CB-140. If you need to extend this wire, any mono-3.5mm wire extension may be used. Russound manufactures the Model 900, 50-foot extension cable for just such a purpose. If you'd like to make a custom wire length, you can use the diagram above to splice an extension.

## Typical Application

This drawing shows a typical application using the SLM-1K IR Kit. The SLM-1 IR sensor attaches to the front bezel of the television. Its slim design allows it to blend easily with virtually all televisions. The IRE-1 emitters are attached to the individual audio/video components that are inside the cabinet.



All of the wires from the emitters and the receiver connect easily with color-coded connectors into the CB-140 connecting block.

[PINK] – SLM-1 IR Receiver, [GREEN] – IR Emitters

## Location of IR Emitters

**1.** The IR emitters can be installed in 2 ways:

**a.** Attached directly to the IR sensor window of the equipment you want to control. This requires one emitter per device

**b.** Attached inside a cabinet door, facing a stack of equipment. The IRE-1 emitter was designed to emit IR signals from both the front and back sides. If the emitter is attached to the inside of a cabinet door, equipment inside the cabinet can share the same IR output.

**Note:** If two devices of the same brand and model are in the cabinet, both will receive the same commands at the same time. The SLM-1K does not perform IR routing to individual components.

**Note:** IR Blocking Covers are included in the SLM-1K. These can be used when needed to block excess light from reaching the sensor. For example, in some installations,

direct sunlight could hit the front of the equipment at certain times of the day and prevent reliable control of your devices. By utilizing the blocking cover on top of the IR Emitter, you can assure reliable operation at any time of day.

**TIP:** If you don't know where the IR sensor window is on your device, there are several methods to be able to find the placement of the IR emitter.

**1.** You can shine a flashlight through the darkened window of the source equipment and look for the IR bulb.

**2.** Some manufacturers of source equipment show you exactly where to place the IR emitter. Check with the manufacturer Installation Manual, or perform an online search to see if a diagram may be available for assistance.

**3.** Some devices have an External IR Input on the back. If a piece of source equipment has this input jack, it is recommended to use a standard stereo mini-to-mini cable (sold separately).