

PRO-VC2IR Infrared Receiver Specifications:

Specifications

Infrared carrier frequency:	30-56kHz
Indoor reception range:	20-25 feet (6-8 meters)
Nominal reception angle:	50 degrees off axis
Maximum wire length:	1000' (300m) or more with larger gauge wire
Wire requirements:	3 conductors, minimum 24-gauge to 200'; 22-gauge up to 500'; 20-gauge to 1000'
Power requirements:	Unregulated 12VDC, 40mA
Dimensions:	1-3/4" x 4" x 1" (45mm x 102mm x 26mm)

Requires 12VDC power supply, emitter(s) and connection block.

Warranty

Sound Acoustics warrants its products sold in the USA and Canada by authorized Sound Acoustics dealers to be free of defects in materials and workmanship. This warranty extends for three full years from the date of purchase by the original consumer. Any products returned to Sound Acoustics and found to be defective by Sound Acoustics within the warranty period will be repaired or replaced at Sound Acoustics option, at no charge. Sound Acoustics will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state-to-state.

www.mySoundAcoustics.com

Sound Acoustics Inc.

1360 Frances Street, Vancouver BC V5L 1Y9, Canada

Made in Canada Sound Acoustics All Rights Reserved

Sound Acoustics PRO-VC2IR

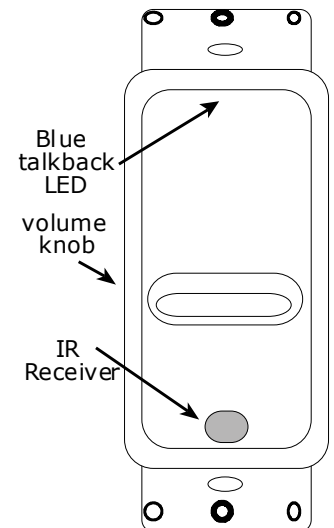
Infrared Receiver on Stereo Volume Controls Installation Instructions v1.0

Warning: To be installed and/or used in accordance with appropriate electrical codes and regulations.

Introduction: Thank you for your purchasing another Sound Acoustics product! The PRO-VC2IR module is an infrared receiver that is mounted on one of our volume controls. It does not directly control the volume control. Follow the volume control installation directions shipped with this product. This receiver features the ability to pick up a remote control infrared signal from up to 25 feet away and relay it on wires to another location up to 1000' (or more).

Features:

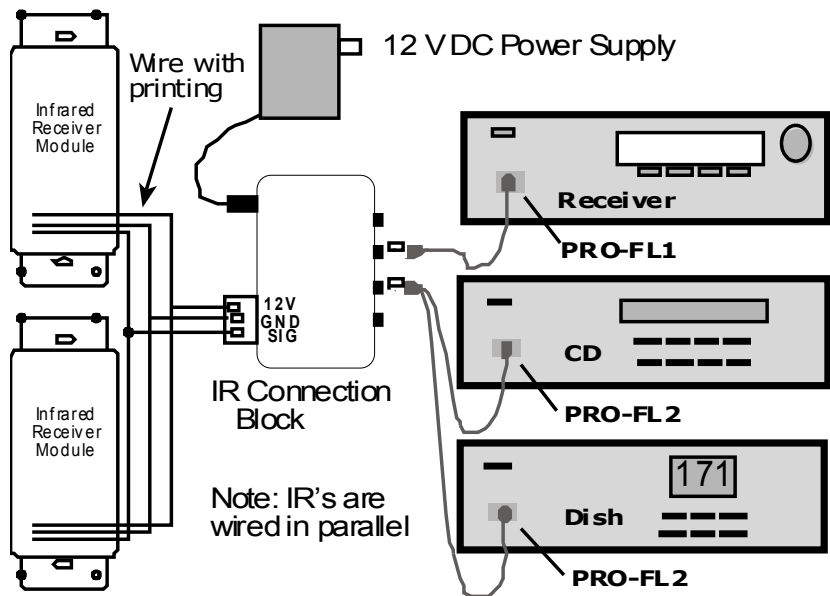
- Inwall junction box design available in white, ivory, almond and black colors.
- Will relay almost all remote control types (except some B & O models).
- Can be connected with almost any 3-conductor wire including cat 5.
- Requires very little power.
- Connects with a three wire connector or RJ45 cat 5 wire.



via

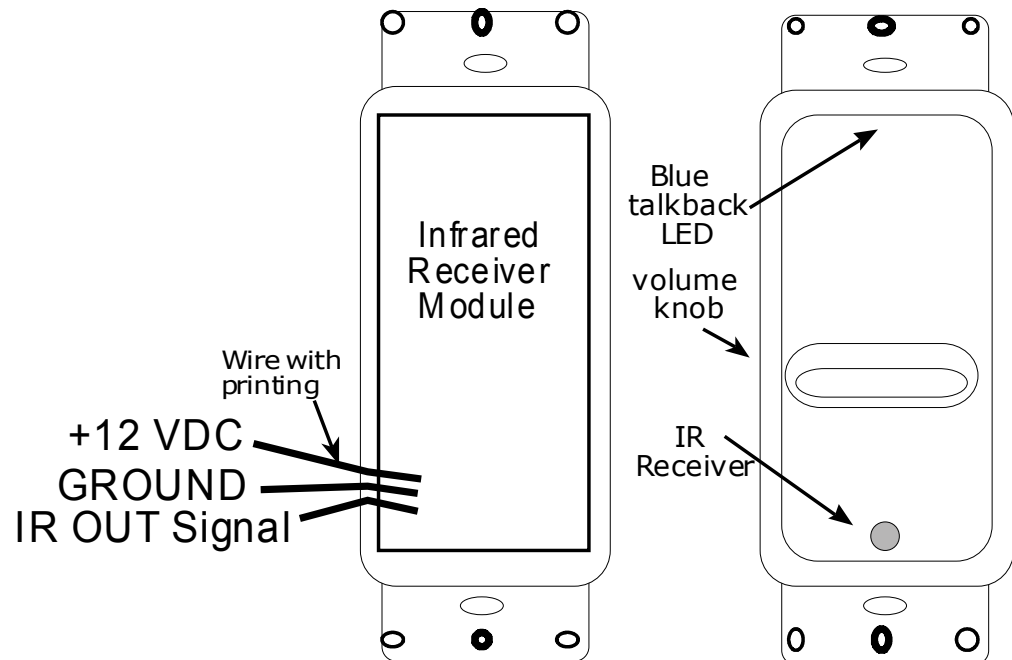
Installation Tips

1. Follow all local electrical & building code requirements.
2. The PRO-VC2IR is usually wall mounted. It does not normally require a junction box. For easy installation and to ensure reliability, it is suggested that a 500 mA 12 VDC unregulated power supply, single or dual emitters and an infrared connection block, be used.
3. Wires can be solid or stranded, shielded or unshielded with a minimum of 28-gauge for runs under 200', 22-gauge for runs under 500' and 20-gauge for runs up to 1000'. Wires can be looped from PRO-VC2IR to PRO-VC2IR or home run. Home runs generally offer more reliability and future flexibility.
4. PRO-VC2IR's can be mixed and matched in larger systems with up to six per amplifier or receiver.
5. To wire the system together, connect the PRO-VC2IR **12V**, **GND** and **SIG** terminals to the corresponding IR connection



block terminal. Prepare the wire leads to and from the PRO-VC2IR by stripping about 1/4" of the insulation from each of the three leads. Twist the strands tightly together so that they do not stick out of the connector and cause a short circuit. Strictly observe polarity. Try to make sure the wires do not touch any of the white cermet tile resistors.

6. Next, plug the single or dual emitters into the IR connection block.
7. Now, plug in the power supply for the IR connection block.
8. The infrared system is usually left plugged in all the time (to an unswitched outlet) as it uses very little power.
9. Test the infrared system to see if it is working properly. Bright sunlight and passive infrared security systems can lower the distance that remote controls can work with an infrared receiver. If you have any questions or concerns, please call and ask for infrared technical support at 1 604 707 0116.



Operation: Sound Acoustics volume controls are very easy to use. The PRO-VC2 has a total of 12 different volume settings including fully off. To increase the volume (in this room only), turn the volume control knob clockwise. To lower the volume, turn the volume control knob counterclockwise. To set the correct amplifier or receiver volume setting, we suggest that you turn the Sound Acoustics room volume control in one room to maximum. Adjust the amplifier or receiver volume to the loudest comfortable setting you will use and no further or louder. This way the Sound Acoustics volume control has the most usable settings. If the amp volume control was set louder, the Sound Acoustics volume control would have to be turned down to be back at a comfortable level with less overall volume positions available.

Warranty

Sound Acoustics warrants the PRO-VC2 sold in the USA and Canada by authorized Sound Acoustics dealers to be free of defects in materials and workmanship. This warranty extends for three full years from the date of purchase by the original consumer. Any products returned to Sound Acoustics and found to be defective by Sound Acoustics within the warranty period will be repaired or replaced at Sound Acoustics option, at no charge. Sound Acoustics will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state-to-state.

Specifications

Peak RMS Power Rating	150-watts per channel
Continuous RMS Power	75-watts per channel
Frequency Response	20 to 20,000 Hz
Mounting Depth	2.25" (5.7cm)
Electrical Junction Box	Fits single gang
Speaker Impedance	4-16 ohms (single or multiple speakers)
Connection	Detachable screw terminals
Colors and Styles	Shipped with white, ivory (bone) and almond colors decora style

Sound Acoustics Inc.

1360 Frances Street, Vancouver BC V5L 1Y9, Canada

Made in Canada

PRO-VC2

Impedance Matching Volume Control Installation Instructions v1.2

Warning: To be installed and/or used in accordance with appropriate electrical codes and regulations.

Caution: Do not install these keypads in an electrical junction box with 110V or higher unless an approved barrier separates the high and low voltage sections.

Description: The Sound Acoustics PRO-VC2 is a twelve-position in-wall mountable stereo speaker volume control with impedance matching capability. From two to thirty-two pairs of speakers can be safely driven from one stereo amplifier using an equal number of PRO-VC2's. Separate impedance matching components are not required.

Basic System Layout and Pre-Wiring: A stereo amplifier controls multiple pairs of speakers. Decide where the speakers and volume controls will be placed in the various rooms. When wiring always leave an extra couple of feet of wire at both ends so installation of the speakers and volume controls is quick and easy. Up to 32 pairs of 8-ohm speakers can be safely connected to one amplifier (16 pairs of 4-ohm speakers).

Run a **fire-rated** two-conductor speaker wire (14-18 gauge wire) from each speaker to the volume control location in each room. Next, run a four-conductor speaker wire from the volume control to the amplifier location. Ideally each run back to the amplifier is a home run, but wires can be daisy chained from room to room. If you plan to daisy chain the wiring we suggest using larger 14-gauge wire. If 2 pairs of speakers are being controlled by 1 volume control, wire the 2 pairs in series if they are 4 or 6-ohms and parallel if they are 8 or 16-ohms.

Warning: Never attempt to make the final combined speaker impedance less than 4-ohms as this may cause safety issues.

To make final trim-out quicker, the green detachable connectors with the PRO-VC2 can be added to the wires now. They are available in bulk packs without the volume controls from Sound Acoustics.

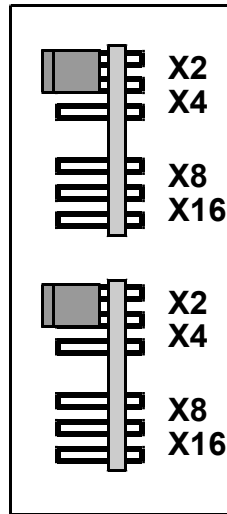
To tidy up the installation, use Sound Acoustics SC-WT6 seven position wire connection strip at the amplifier. Two or more may be required for some installations.

Setting the impedance matching jumpers:

Each of the PRO-VC2 volume controls needs to have the jumpers correctly set. The two jumpers are located on the rear side of the volume control. Both channels on all volume controls in this system should be set to the same jumper setting.

The jumper setting is determined by three factors:

1. The speaker impedance (all the speakers in this system should have the same impedance).
2. The number of volume controls connected to one stereo amplifier.
3. The minimum speaker load impedance the amplifier can handle.



In the left illustration both jumpers are shown set in the X2 position. The top jumper set is for the left speaker and the bottom set is for the right speaker. **Ideally, all volume controls in this system should have their jumpers set to the same correct position.** 4 and 8 ohm speakers can safely be combined in a system. Use the 4 ohm settings. The jumper needs to be pushed on as far as it goes.

To determine the correct jumper or shunt position, use the chart below.

When using amps or receivers with 8 ohm capability

Jumper setting	X2	X4	X8	X16
4 ohm speakers	1 pair	2 pair	3-4 pairs	5-8 pairs
8 ohm speakers	1-2 pairs	3-4 pairs	5-8 pairs	9-16 pairs

When using amps or receivers with 4 ohm capability

Jumper setting	X2	X4	X8	X16
4 ohm speakers	1-2 pairs	3-4 pairs	5-8 pairs	9-16 pairs
8 ohm speakers	1-4 pairs	5-8 pairs	9-16 pairs	17-32 pairs

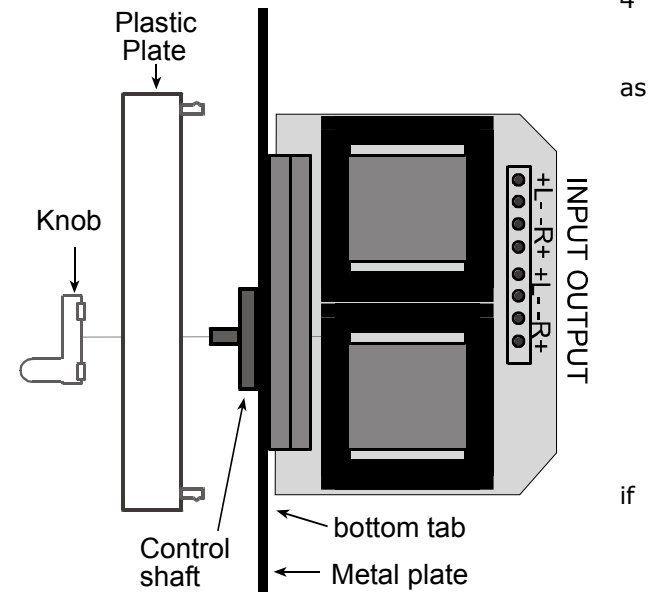
As an example, if the amplifier has 4-ohm capability with 7 pairs of 8 ohm speakers to be installed, set all PRO-VC2 jumpers to X4.

Connection and trim-out: Remove the eight position speaker connector. Remove about ¼” of insulation from the ends of all wires connected to the volume control and twist the exposed strands. The stereo amplifier or receiver outputs (left and right) are connected to the PRO-VC2 connector portion labelled “FROM AMP” on the volume control. Be very careful to observe the correct polarity. The PRO-VC2 uses independent floating grounds so bridged amplifiers can be used safely.

Warning: The PRO-VC2 is rated for use with maximum 150-watt per channel amplifiers. *DO NOT* use higher-powered amplifiers with this product for safety reasons.

Wire from the amplifier speaker terminals is always wired in parallel to all PRO-VC2 volume controls. To make the installation look neat and tidy, we suggest using one or more WT6 connection strips. When connecting to the amp make sure its power is switched off. Again strictly observe wiring polarity.

Connect the wires from the stereo speakers to the connector portion labeled “TO SPKR” on the volume control. Again series and parallel speaker wiring is acceptable so that the impedance the volume control sees is between and 8 ohms. Be sure to strictly observe polarity, incorrect polarity will result in poor bass performance. When installing the volume control into the wall, we suggest moving any inside wall fixtures such as vapor barriers away from the autotransformers possible.



4
as
if