

SI1x6

SI1x6m



Six room speaker-stereo interface

Installation instructions

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

Description: The Knöll SI1x6 and SI1x6m six-channel speaker-stereo interfaces can safely power two to six rooms of stereo speakers from one stereo amplifier or receiver. Speakers can be similar or dissimilar and each will sound their best. These stereo interfaces can be used with and without stereo room volume controls. Parallel or series speaker wiring is acceptable. Maximum power input is 200 watts per channel. The SI1x6 and SI1x6m feature an incredible "ultra" music quality frequency response of DC to 500,000 Hz +/-0.1dB at all power levels up to 350 watts due to its transformer-free™ topology.

The **SI1x6m** is identical to the **SI1x6** with six added on-off switches so speakers in various rooms can be individually turned on and off as desired from the SI1x6m location.

The **WIN600** is an in-wall version of the SI1x6.

Depending on the quantity and type of speakers chosen, the SI1x6 may offer the amplifier impedance as low as 4 ohms, so we suggest that your amplifier (or receiver) be rated for 4-ohm (or lower) operation. The SI1x6 or SI1x6m is usually stacked with the stereo equipment and does not need a power supply.

Basic System Layout and Pre-Wiring: The SI1x6 or SI1x6m is usually stacked with the stereo equipment. It may get warm or a bit hot, so it needs ventilation for maximum power and longest life. Don't cover or block the vent holes. Take care to mount it away from anything that can be damaged by heat.

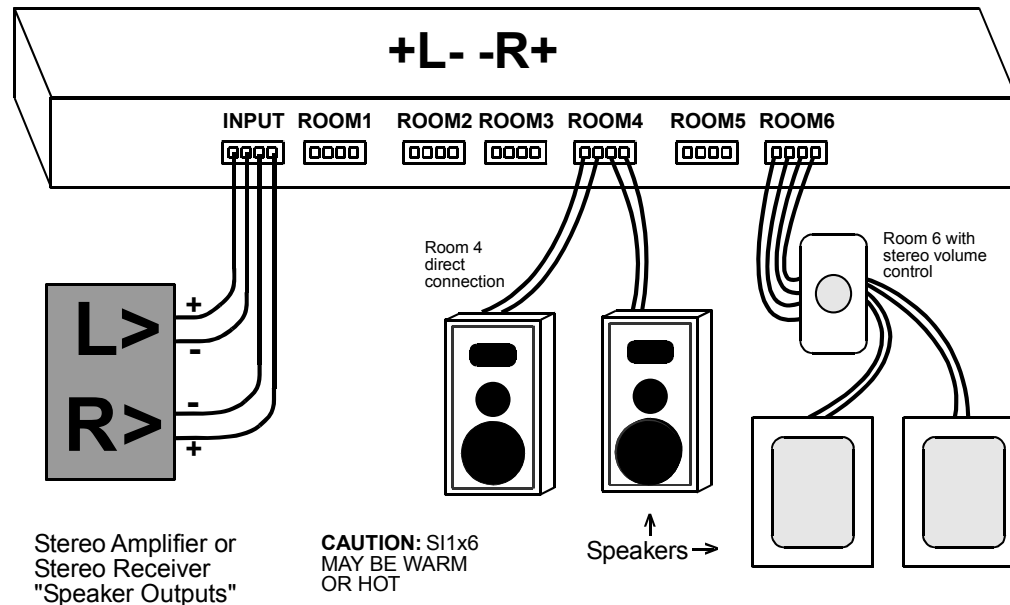
From each speaker run a **fire rated** two-conductor speaker wire, ideally 16 gauge or larger for runs up to 33' (10m) and 14 gauge or larger for longer runs to the SI1x6 or SI1x6m stereo interface (or volume control then to the interface). To save time and money, many installers run a four-conductor speaker wire from the volume control to the stereo interface. If there is more than one pair of speakers connected to a single SI1x6 room connection, wire the speakers in series or parallel whichever makes the impedance closest to 4 or 8 ohms.

Do not attempt to make the final combined speaker impedance less than 4 ohms.

If the SI1x6 is **not** located next to the stereo, run a single fire rated four-conductor (or two two-conductor) 14-18-gauge speaker wire from the stereo to the SI1x6.

Connection to Stereo

Equipment: Remove the SI1x6 four-position speaker connectors. The stereo amplifier or receiver outputs (left and right) are connected to the SI1x6 connector labeled "INPUT". Be very careful to observe the correct polarity. The SI1x6 uses independent floating grounds so bridged amplifiers can be used safely.



Connection to Speakers: Remove the remaining SI1x6 four-position speaker connectors. Connect the speakers or volume control inputs to any of the six connectors labeled "ROOM" again strictly observing polarity. Check out our web site www.knollsystems.com for information on series and parallel speaker wiring.

Note: For best sound quality always use Knoll 100% transformer-free stereo volume controls such as the VC100, VC100ss or VS100 in each room.

Operation: The Knöll SI1x6 is completely automatic and does not need any user adjustments after installation. The SI1x6m can turn rooms of speakers on and off as desired in any combination.

Specifications:

| | |
|------------------------|---|
| Peak RMS power rating: | 300 watts per channel (5 seconds) |
| Continuous RMS power: | 150 watts per channel |
| Frequency Response: | DC to 500,000 Hz at all power levels to 350 watts +/- 0.1dB |
| Speaker types: | Most speaker types are acceptable. Similar and dissimilar speakers can be used on one interface and each will sound their best. |
| Speaker wiring method: | Series or parallel wiring is acceptable. |
| Speaker impedance: | 4-16 ohms (single or multi-speakers) |
| Grounds | Independent left/right grounds for safe connection of all amplifier types except tube or valve amps. See below. |
| Connection: | Detachable screw terminals capable of 12-22 awg wire |
| Dimensions: | 17" x 12" x 1.75" (43 x 30 x 4.5 cm) |
| Color: | Black |

Note: When using tube or valve amps, we suggest adding 150 ohm 3 watt resistors in parallel across each amplifier left and right output.

Warranty

Knöll Systems warrants its products sold in the USA and Canada by authorized Knöll dealers to be free of defects in materials and workmanship. This warranty extends for two full years from the date of purchase by the original consumer. Any products returned to Knöll Systems and found to be defective by Knöll Systems within the warranty period will be repaired or replaced at Knöll Systems option, at no charge. Knöll Systems 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.

The SI1x6 and SI1x6m have no user replaceable parts.



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Note: The SI1x6m connector identification may vary from this illustration.