



OPERATION MANUAL

SA650H, SA650HX & SA652H INFRARED RECEIVERS



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INTRODUCTION

The Sound Associates SA650H, SA650HX and SA652H are infrared receivers that allow the user to receive wireless, clarified sound in most facilities equipped with an infrared listening system. The receivers conform to standards set by the Americans with Disabilities Act (ADA) for the hard of hearing and use the latest in infrared technology.

The SA650H, SA650HX and SA652H are stethoscope style headset receivers. They are self-contained and should not be used with other types of hearing devices. Using another hearing device, such as a hearing aid, may cause feedback and may not give you the proper sound quality. The SA650H and SA650HX are single channel monaural receivers operating on 95 kHz and 250 kHz, respectively. The SA652H is a two-channel, stereo receiver operating on 95 kHz (channel 1), 250 kHz (channel 2), or stereo (95 kHz – left, 250 kHz – right) and is ideal for multi-channel broadcasts such as simultaneous interpretation or for facilities that offer both hearing assistance and audio description for the visually impaired.

To ensure proper set up and use of the equipment, the following instructions should be read completely before attempting to use your receiver. If you require further assistance, please call our Customer Service Department Monday-Friday 10:00 am - 5:30 pm at (888) 772-SOUND (7686).

HEADSET VS. NECK INDUCTION LOOP

In addition to our line of stethoscope style receivers, Sound Associates offers a body pack receiver with neck induction. The headsets are designed for moderate hearing loss, while the neck induction loop, used in conjunction with the SA652P body pack receiver, is designed for the individual with a more extensive hearing loss. It is used to enhance the amplification of the user's hearing aid. **Note: The hearing aid must be equipped with a "T" switch or have a telecoil setting to use a neck induction loop.** The combination of the two devices is likely to give the user more volume and intelligibility than with the hearing aid or headset alone.

UNPACKING UNIT

As soon as the shipment is received, inspect the unit and all components for damage incurred by shipping. If the unit is damaged due to shipping, please keep all packing material and contact the shipping company as soon as possible. Only the consignee may institute a claim against a carrier for damage incurred in shipping, however, Sound Associates will assist the client in any such event.

Equipment enclosed:

- 1 Infrared Receiver (SA650H, SA650HX, SA652H)
- 1 SA505 rechargeable battery
- 1 Instruction Manual

FEATURES

- Two receiving diodes for a wider scope of coverage and greater sensitivity
- Commercial grade casing for extra durability
- Folding ear tubes for easy distribution and storage
- Rechargeable battery that recharges in a 110 volt AC outlet using BC-1 adapter

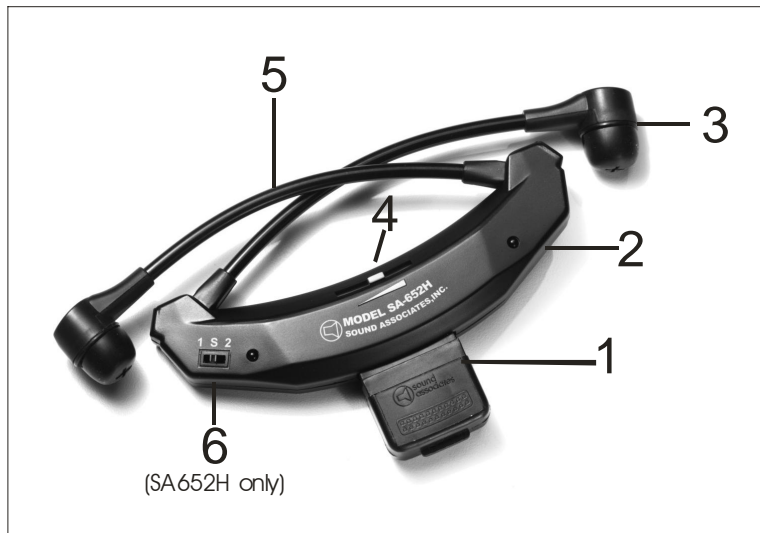
- Removable latex ear tips for easy cleaning
- Unit automatically turns on when ear tubes are fully extended
- Slide volume for simple operation
- Recessed 3-position switch for channel 1, channel 2 or stereo (SA652H only)
- Full one-year warranty

OPERATION

Using the Receiver

The receiver is worn stethoscope style, under the user's chin, with the photo-cell lens facing away from the body. (The SA505 rechargeable battery must be inserted firmly into the bottom of the receiver and can be plugged in either direction.) The receiver's "on/off" switch is located internally and turns on automatically when worn; and shuts off when folded. The volume is adjusted by the slide control located on the unit face.

Location and Use of Controls



1 - Rechargeable Battery: (Model SA505) 2.4 volt that will run approximately 8 hours without recharging. It can be recharged in a standard US 110 volt plug using a BC01 adapter. The battery can be plugged in the bottom of the headset in either direction.

2 - Dual Photo-cell Lenses: The lenses filter the infrared light into audio. The detector lens must not be blocked or covered during operation, as this would interrupt sound reproduction.

3 - Folding Ear Tubes: Ear tubes

fold for easy carrying and storage. The "on/off" switch works in conjunction with the ear tubes. The unit turns on automatically when the ear tubes are open and shuts off when they are folded.

4 - Volume Control: A slide control adjusts the volume for each headset. With the photo cell facing away from you, slide the control to the left to increase the volume.

5 - Latex Ear Tips: (Model SALET001) Removable ear pieces are easily cleaned with mild detergent and warm water or replaced when dirty.

6 - Channel Selector: (Model SA652H only) The recessed selector button toggles to one of three positions: 1 for 95 kHz, 2 for 250 kHz, and S for Stereo.

TROUBLESHOOTING

Symptom	Cause/Remedy
Only white noise or static is heard in the receiver	Receiver is not receiving the infrared transmission <i>Make sure..</i> ...the photo cell on the receiver is in direct view of the emitter panel ...power supply is powered (the red LED on the emitter panel should be lit when transmitter is OFF) ...transmitter is powered (the red LED should flicker out and the green LED on the emitter panel should light) ...cable is not interrupted or crossed
No static and no audio in the receiver	The receiver is not powered or the infrared light is being received with no audio signal "on its back" <i>Make sure...</i> ...the volume on the receiver is turned up ...the receiver battery is charged and secured firmly in place ...the audio input is plugged into the transmitter and functioning properly ...the volume on the transmitter is turned up
Signal is received but with some static in the receiver	The infrared signal is too weak or high levels of infrared light are interfering with the transmission <i>Make sure...</i> ...emitter is in direct view of the receiver ...sunlight or intense light is not shining on the photo cell of the receiver ...energy efficient fluorescent or neon light is not in use
Signal is intermittent or the sound begins to fade	The battery is no longer holding an adequate charge <i>Make sure...</i> ...the battery is charged or use a new battery

SERVICE OR REPAIRS

Contact Sound Associates' Customer Service Department at 888-772-SOUND (7686) 10:00-5:30 Monday through Friday for any service or repairs.

TECHNICAL SPECIFICATIONS

Modulation

SA650H	95 kHz
SA650HX	250 kHz
SA652H	Ch. 1 – 95 kHz; Ch. 2 – 250 kHz; Stereo – Left 95 kHz, Right 250 kHz

Infrared wave length

880 – 1200 nm

Output

Approximately 0.6V

Operating time

Approximately 8 hours

Battery recharging time

Approximately 14 hours

Power Supply

2.4 V rechargeable NiMH battery

Dimensions folded

6 3/4" x 2 1/2" x 5/8" deep

Dimensions open

6 3/4" x 6 5/8" x 5/8" deep

Weight

2 oz.

ACCESSORIES

Battery Chargers

BC01 – Battery charging adapter

BC10 – 10 position battery charger

BC25 – 25 position battery charger

BC50 – 50 position battery charger

Carrying Cases/Storage

CC1 – Personal carrying case

CC10 – 10 position carrying case

DC24T – 24 position distribution cabinet

DC50T – 50 position distribution cabinet

SAFET001 – Foam ear tips (pair)

SALET001 – Latex ear tips (pair)

WARRANTY

The SA650H, SA650HX, and SA652H receivers and the SA505 rechargeable battery are covered by a full one year warranty, from the date of original purchase, against defects in workmanship or materials. If either component fails due to defects in craftsmanship or materials, we will repair or replace that component without charge. The factory warranty does not cover malfunctions due to abuse or operation other than specified.