



# OPERATION MANUAL

## SA652P INFRARED RECEIVER



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## INTRODUCTION

The Sound Associates SA652P is an infrared receiver that allows the user to receive wireless, clarified sound in most facilities equipped with an infrared listening system. The receiver conforms to standards set by the Americans with Disabilities Act (ADA) for the hard of hearing and uses the latest in infrared technology.

The Sound Associates SA652P is a two-channel stereo infrared pendant receiver operating on 95 kHz (channel 1), 250 kHz (channel 2) or stereo (95 kHz - left, 250 kHz - right), requiring the use of an additional ear piece such as neck induction loop, headphones or ear bud.

The following instructions should be read completely before attempting to use your receiver to ensure proper set up and use of the equipment. 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

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 THE 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 if damage has occurred in shipping, however, Sound Associates will assist the client in any such event.

Equipment enclosed:

- 1 Infrared Receiver (SA652P)
- 1 SA505 rechargeable battery
- 1 Instruction Manual

## FEATURES

- Two selectable channels for multi-language interpretation or stereo audio enhancement.
- Two receiving diodes for a wider scope of coverage and greater sensitivity.
- Uses lanyard or pocket spring clip on back to wear in a variety of ways.
- Rechargeable battery that charges in a 115 volt AC outlet with adapter.
- Recommended for use with Sound Associates SA650NIL Neck Induction Loop.
- Unit automatically turns "on" when 3.5 mm jack is inserted, causing LED to illuminate.
- Slide volume and channel selection for simple operation.
- Full one-year warranty.

## OPERATION

### Using the Receiver

The receiver is worn either around the neck (pendant style) using the lanyard or attached to a pocket using the clip on back of the receiver. The unit should be worn at least chest high with the dual photo-cell lens facing away from the body. The SA505 rechargeable battery must be inserted firmly into the bottom of the receiver for use. The battery can be plugged in either direction.

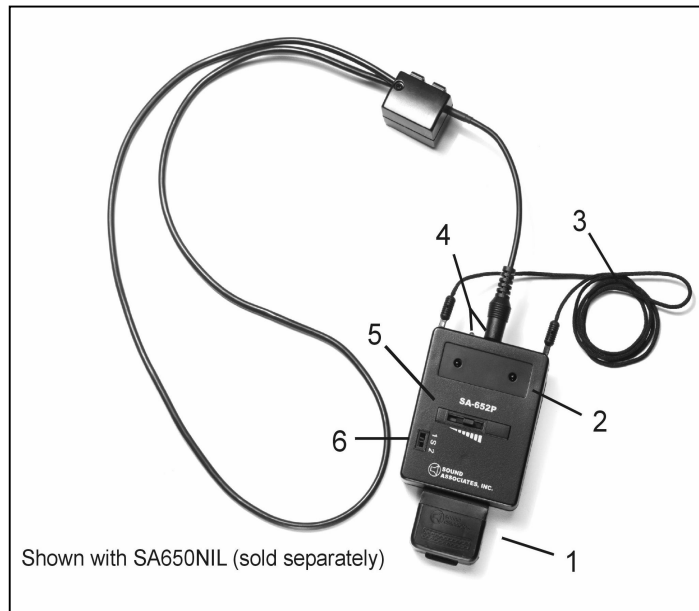
The SA652P requires a separate earpiece (such as neck induction loop, headset or ear bud) with a 3.5 mm (miniplug) jack. The receiver's "on/off" switch is located internally which turns the unit on automatically when miniplug is inserted and shuts off once the earpiece is removed. A red indicator light on the top of the unit will illuminate once the earpiece has been connected properly to show the unit is on.

*Note: remember to disconnect the piece when not in use to avoid unnecessary drain on the battery.*

The use of a neck induction loop with the SA652P receiver requires the user to adjust their hearing aid to the "T" switch or telecoil setting, usually the middle position on a 3-position on/off switch. (If you are unsure if your hearing aid is equipped with a telecoil setting, check with your audiologist.)

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 eight hours without recharging. It can be recharged with an adapter in any 110 volt outlet. The battery can be plugged into the bottom of the receiver in either direction.

**2 - Dual Photo-Cell Receiving Diodes:** The diodes receive the infrared light and convert it into sound. They must not be blocked or covered during operation, as this would interrupt sound reproduction.

**3 - Neck Lanyard:** Instead of using the built in clip on back of unit, the lanyard is worn around the neck. This helps keep the receiver elevated and in line of sight of the emitter.

**4 - Input Jack/Indicator Light:** The pendant receiver requires an earpiece (such as the neck induction loop, shown) with a 3.5mm plug (miniplug). Once the plug is inserted in the jack, the receiver is operational. The red indicator light will illuminate to show the receiver is powered on.

**5 - Volume Control:** A slide control adjusts the volume for the receiver. With the photo cell on the front of the receiver facing away from you, slide the control to the left to increase the volume.

**6 - Channel Selector:** The recessed selector button toggles to one of three positions: 1 for 95 kHz, 2 for 250 kHz, or S for Stereo. *Note: Do not use Channel S for monaural earpieces and neck induction loops. In the stereo setting, the plug is wired with the tip (left positive), ring (right positive) and sleeve (ground).*

## 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 light 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 saving fluorescent or neon light is being used
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:	95 kHz (channel 1) 250 kHz (channel 2) Stereo (left ear ch.1, right ear ch.2)
Infrared Wave Length:	880 – 1200 nm
Output:	Approx. 0.6V
Frequency Response:	100 Hz to 15 kHz
Operating Time:	Approx. 8 hours
Battery Recharge Time:	14 hours
Power Supply:	2.4V rechargeable NiMh battery
Dimensions:	2.75" x 2.25" x 1.25" deep
Weight:	1.8 oz. (2.5 with battery)
Power Indicator:	Red LED on top of unit

## ACCESSORIES

### Battery Chargers

BC1 – 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

### Earpieces

SA650NIL – Neck induction loop  
SA500E – Single ear bud earpiece

## WARRANTY

The SA652P receiver 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.