



# OPERATION MANUAL

SA1531H & SA1533H  
INFRARED RECEIVERS



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## INTRODUCTION

Sound Associates manufactures two types of wireless stethoscope-style headset receivers designed for professional applications: the SA1531H (single-channel) and SA1533H (3-channel). Our headsets are equipped with a sophisticated receiving circuitry with multiple receiving diodes to increase sensitivity. Also, high-performance micro speakers are utilized to give the user remarkable audio reproduction.

The SA1520 and 1530 series headsets are compatible with most infrared transmission systems currently in use. They are designed with a new industrial-strength chassis for added durability in commercial applications. Its advanced mechanical design ensures years of trouble-free use, while making the headset comfortable to wear.

The SA1531H is designed to receive a frequency modulation of 2.3 MHz, while the SA1533H is selectable between 2.3 MHz, 2.8 MHz and 95 kHz. The receivers are worn under the chin, stethoscope-style and are powered by a light weight lithium polymer rechargeable battery, designed especially for the Sound Associates' line of receivers.

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

The SA1520 series of infrared headset receivers is equipped with an audio jack to comply with revisions to the Americans With Disabilities Act, effective March 2011. The jack will accommodate most external devices that use a 3.5 mm (mini) jack including neck induction loops and Cochlear devices. Inserting the plug into the jack automatically mutes the amplifiers in the earpiece and activates the external device. ***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 greater 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 for damage incurred in shipping, however, Sound Associates will assist you in any such event.

Equipment enclosed:

- 1 Infrared Receiver (SA1531H or SA1533H)
- 1 SA1505 rechargeable battery
- 1 Instruction Manual

## FEATURES

- Automatically powers on when worn
- Lithium polymer battery for quick recharging and light weight
- ADA compliant 3.5 mm mono audio output for hearing aid accessories
- Automatic mute when no infrared signal is present
- Recessed low light level indicator and audio tone alerts when battery power is low.
- Multiple receiving diodes and IR transparent case for wider scope of coverage and greater sensitivity.
- Three selectable channels for multi-language interpretation or integration into older systems (SA1533H only).
- Commercial grade casing for extra durability.
- Rechargeable battery that charges in the headset for ease of distribution.
- Removable rubber or foam ear tips for easy cleaning.
- Slide volume and channel selection for simple operation.
- Full one-year warranty.

## OPERATION

### Using the Receiver

The receiver is worn stethoscope style, under the user's chin, with the Sound Associates logo facing away from the body. (The SA1505 rechargeable battery must be inserted firmly into the bottom of the receiver.) The receiver's "on/off" switch is located internally and turns on automatically when worn; and shuts off when removed. The volume is adjusted by the slide control located on the unit face.

### Location and Use of Controls



**1 – Channel Selector:** (Model SA1533H only) The recessed selector button toggles to one of three positions: 2.3 MHz (left), 2.8 MHz (center), and 95 kHz (right).

**2 – Audio Jack:** Fits most 3.5mm audio plugs. For use with neck induction loops, Cochlear devices and other compatible devices. *Note: inserting a plug into jack will automatically mute volume in the earpieces of the headset.*

**3 – Rechargeable Battery:** (Model SA1505) 3.7 volt that will run approximately 6 hours without recharging. It can be recharged while in the headset using the drop-in charger or battery slots on the SA1401 transmitter or SA1905-10 multi-charger (both sold separately).

**4 - Volume Control:** A slide control to adjust the volume for each headset. With the Sound Associates logo facing away from you, slide the control to the right to increase the volume.

**5 – Silicone Ear Tips:** (Model SA1520ST) Removable ear pieces are easily cleaned with mild detergent and warm water or replaced when dirty.

## **TONE ALERTS AND LED INDICATORS**

<b>Tone Heard</b>	<b>LED Indicator (located on back of receiver)</b>	<b>Indicates</b>
Long Beep followed by:  1 short beep 2 short beeps (*) 3 short beeps (*)	Sustained Green LED followed by:  1 green LED flash 2 green LED flashes 3 green LED flashes	Unit is set to Ch 1 (2.3 MHz) Unit is set to Ch 2 (2.8 MHz) Unit is set to Ch 3 (95 kHz)
6 short beeps	6 green LED flashes	Unit is not receiving infrared signal No infrared signal is present
Long Repeating Beep	Sustained Red LED	Low battery

## **TROUBLESHOOTING**

<b>Symptom</b>	<b>Cause/Remedy</b>
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 into the receiving diodes
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 AND 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	
SA1531H	2.3 MHz
SA1533H	Ch. 1 – 2.3 MHz; Ch. 2 – 2.8 MHz; Ch. 3 – 95 kHz
Infrared wave length	880 – 1200 nm
Output	116 dB SPL @ 1 kHz
Operating time	Approximately 6 hours
Battery recharging time	Approximately 4 hours
Power Supply	3.7 V rechargeable lithium polymer battery 150 mAh
Dimensions folded	5.25" x 8.25" x .875"
Weight	1.7 oz (2.4 oz with battery)

## ACCESSORIES

Following is a current list of accessories available for our receivers. Please check our website for new products we have added to our line.

SA1505	Rechargeable lithium polymer battery (3.7 V)
SA1920ST	Silicone eartips (pair)
SAFET001	Foam eartips (pair)
SA1930	Battery charger: 10 position drop-in with 20 add'l battery positions
SA1401	Small area transmitter with drop-in charger

## WARRANTY

The SA1531H, SA1533H, and the SA1505 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.