

SONANCE

PS-S85T HIGH OUTPUT SURFACE MOUNT SPEAKER

PROFESSIONAL SERIES DATA SHEET

PROFESSIONAL SERIES HIGH OUTPUT LOUDSPEAKERS

The Professional Series High Output Loudspeakers deliver elevated SPL, controlled dispersion, and clear speech intelligibility in demanding commercial environments. Each model pairs an 8-inch low-frequency driver with a 1.4-inch coaxially mounted compression driver, enabling the series to handle foreground music and open microphone applications with extended low-frequency response down to 41 Hz — often eliminating the need for subwoofers and reducing system complexity.

APPLICATIONS

- Sports bars and high energy hospitality venues
- Nightclubs and upscale lounges
- Event venues and ballrooms
- Fitness studios and large commercial spaces
- High ceiling environments with challenging acoustics

The advanced Variable Dispersion technology allows installers to fine tune coverage patterns, targeting specific audience zones with precision, to address challenging acoustic spaces while maintaining consistent sound quality. Optional mounting accessories and finish options offer flexible installation and design matching



FEATURES AND BENEFITS

IMMERSIVE POWER

8" woofer with 1.4" coaxially mounted compression driver handles foreground music, open microphones, and high-dynamic-range applications, delivering unmatched clarity and coverage.

VARIABLE DISPERSION

Magnetically attached horn and collar assembly provides 120° or 80° coverage options, is field-adjustable without special tools, and includes a two-position switch that optimizes the crossover for each configuration.

INSTALLATION VERSATILITY

Available in Surface, Pendant, Blind Mount In-ceiling, and Two-piece In-ceiling Pre-install System — all with identical tonal character for seamless mix-and-match deployment.

INCLUDED ACCESSORIES

- Loudspeaker Grille
- FastMount Bracket
- Wiring Terminal Cover
- Euroblock Wire Connector
- Variable Dispersion Horn
- Collar Removal Tool
- (4) Rubber Mounting Point Covers

OPTIONAL ACCESSORIES

- PS-S85T Replacement Grille White | 40245
- PS-S85T Replacement Grille Black | 40246
- PS-S85T FastMount Bracket White (PR) | 40247
- PS-S85T FastMount Bracket Black (PR) | 40248
- PS-S85T Omni Mount Bracket White | 40249
- PS-S85T Omni Mount Bracket Black | 40250
- PS-x85 Horn/Collar Kit | 40251

TECHNICAL SPECIFICATIONS

PS-S85T HIGH OUTPUT SURFACE MOUNT SPEAKER

SKU 40236 - Black - RAL 7021 | 40235 - White - RAL 9003

TRANSDUCERS

LF Driver	8" (203mm) aluminum cone, Santoprene surround, 60.55mm Voice Coil Size, Ferrite Magnet
HF Driver	1.4" (36mm) aluminum dome compression driver, 36mm Voice Coil Size, 1" (25mm) Exit Size, Neodymium Magnet, 1500Hz Crossover Frequency

PERFORMANCE SPECIFICATIONS

Frequency Range (-10dB)	36.6Hz - 25kHz
Frequency Range (-3dB)	41.4Hz - 20kHz
Nominal Sensitivity	93 dB SPL
Long Term Power Handling (IEC)	150 watts (600 Watts Peak), 100 Hours
Program Power	300 watts (1200 Watts Peak), 2 Hours
Long Term - Maximum SPL	114dB (120dB Peak)
Program Power - Maximum SPL	117dB (123dB Peak)
Rated Impedance	8 ohms bypass

ACOUSTIC SPECIFICATIONS

Coverage Pattern 1kHz to 10kHz	120° or 80° Axis Symmetric
Collar Directivity Factor (Q)	5.7dB (Average 1kHz to 16kHz)
Horn Directivity Factor (Q)	8.65dB (Average 1kHz to 16kHz)
Collar Directivity Index (DI)	7.5dB (Average 1kHz to 16kHz)
Horn Directivity Index (DI)	9dB (Average 1kHz to 16kHz)

ELECTRICAL SPECIFICATIONS

Transformer Taps (70V)	120W, 60W, 30W, 15W (8 ohm bypass)
Transformer Taps (100V)	120W, 60W, 30W (8 ohm bypass)
Input Connector	Four pin, Euroblock with loop output connections

ENCLOSURE DETAILS

Enclosure Material	Polypropylene plastic (UL94V-0)
Baffle Material	Polypropylene plastic (UL94V-0)
Grille Material	Steel
Suspension Points	Top, Bottom and Back
Enclosure/Port Tuning	41.1Hz
Standards Compliance	UL 1480A, CSA-C22.2 No.205, NFPA70, and NFPA 90A

PHYSICAL DIMENSIONS

Product w/o C-bracket (HxWxD)	19.47" x 11.57" x 10.25" (494.5mm x 293.9mm x 260.3mm)
Product w/ C-bracket (HxWxD)	20.86" x 11.57" x 11.02" (529.8mm x 293.9mm x 279.9mm)

WEIGHT SPECIFICATIONS

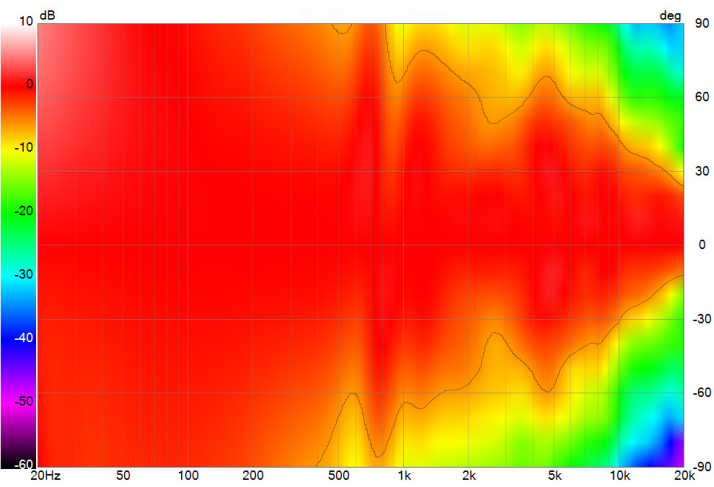
Shipping Weight (Each)	45.67 lbs. (20.71kg)
Net Weight w/ Grille	29.3 lbs. (13.29kg)

ENVIRONMENTAL SPECIFICATIONS

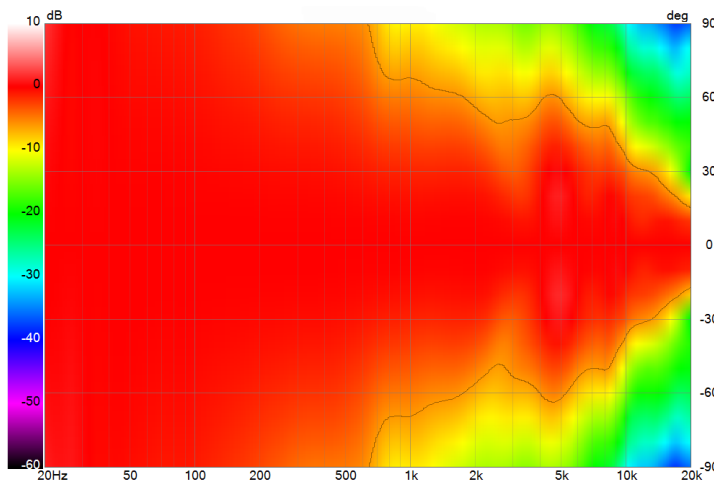
Operating Temperature Range	-40 F to 140 F (-39.96 C to 60 C)
IP Rating	IP-X4

PS-S85T GRAPHS

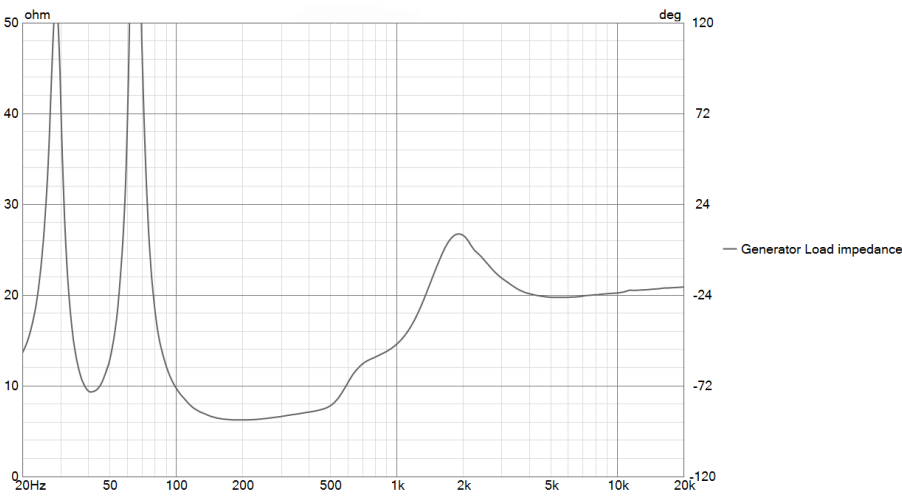
COLLAR DIRECTIVITY | HORIZONTAL



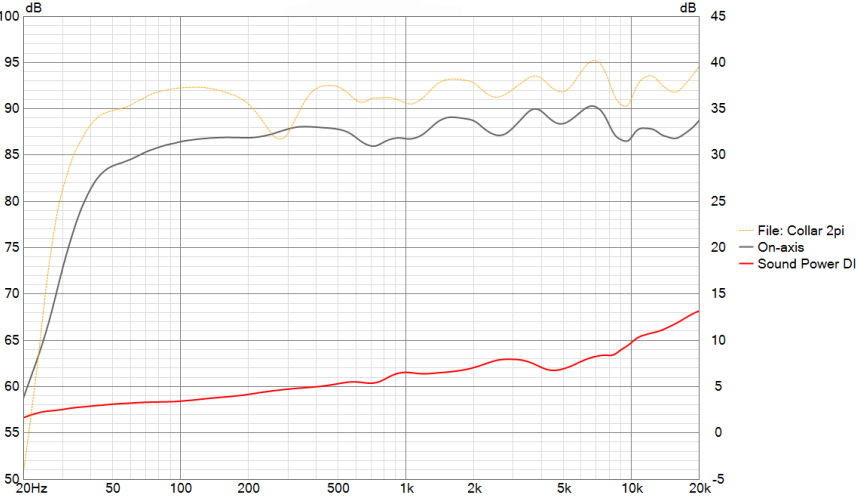
COLLAR DIRECTIVITY | VERTICAL



COLLAR IMPEDANCE

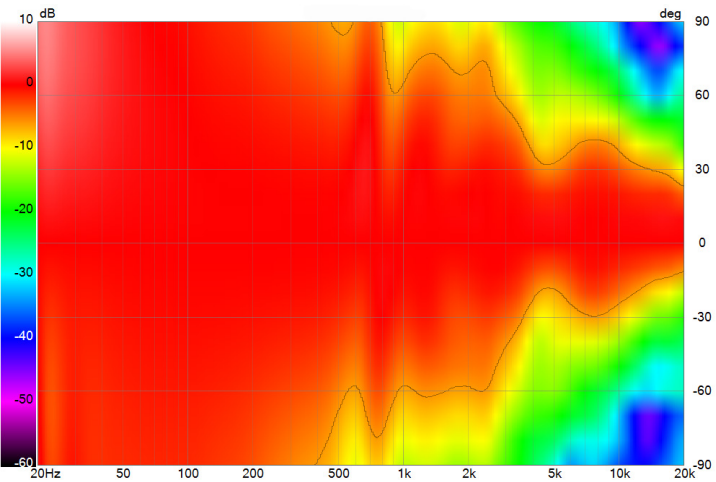


COLLAR SPL

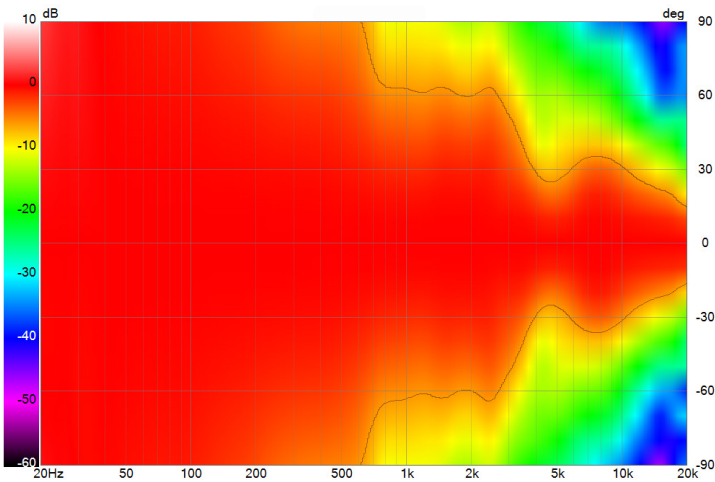


PS-S85T GRAPHS

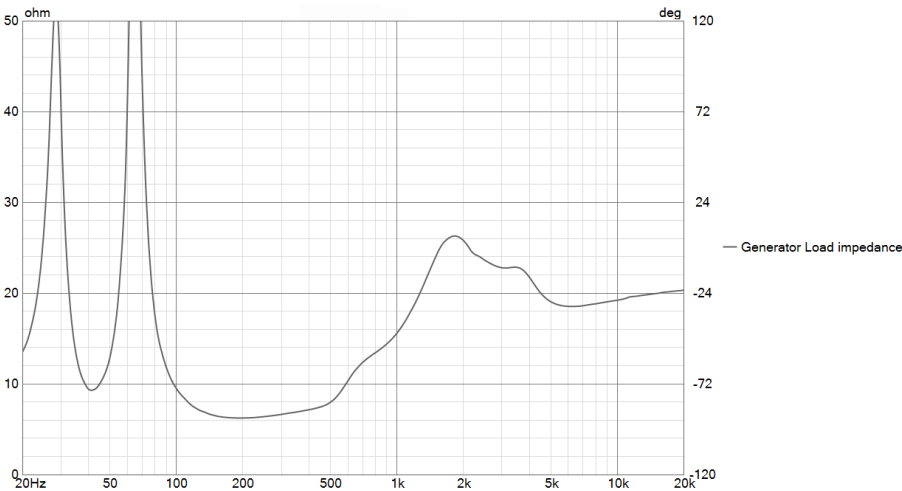
HORN DIRECTIVITY | HORIZONTAL



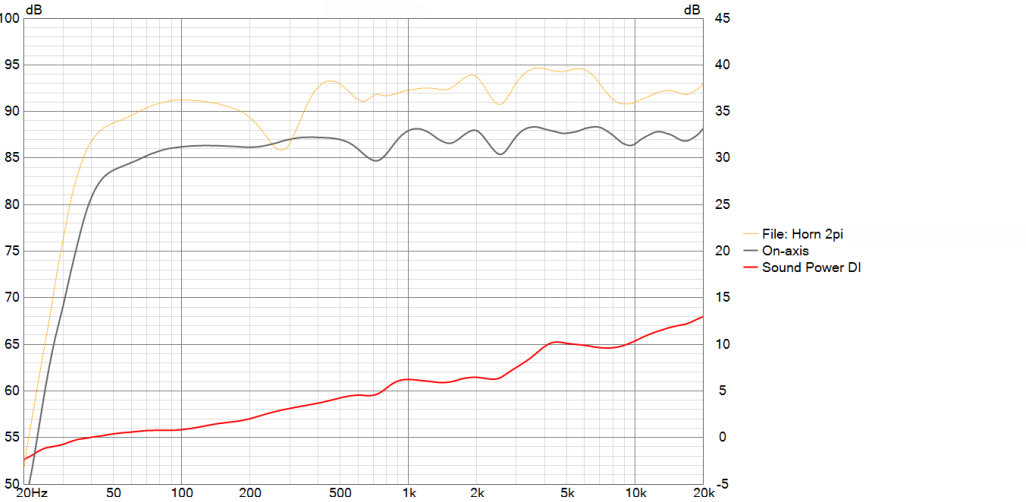
HORN DIRECTIVITY | VERTICAL



HORN IMPEDANCE



HORN SPL

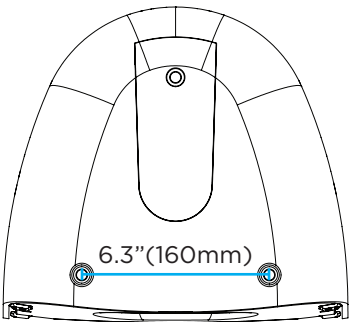


DIMENSIONAL SKETCHES SPECIFICATIONS

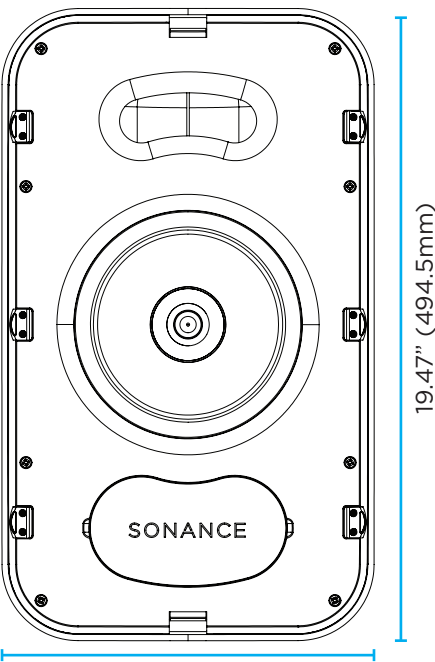
PS-S85T High Output Loudspeaker

Width x Height: 11.57" x 19.47" (293.9mm x 494.5mm)

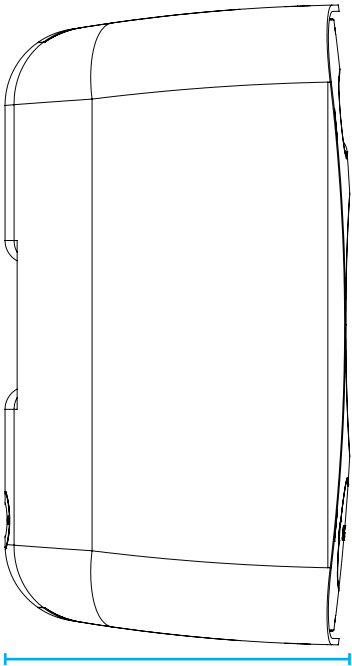
Depth: 10.25" (260.3mm)



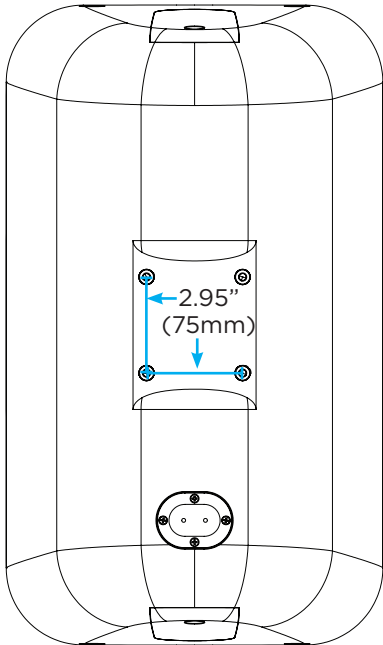
Loudspeaker Top



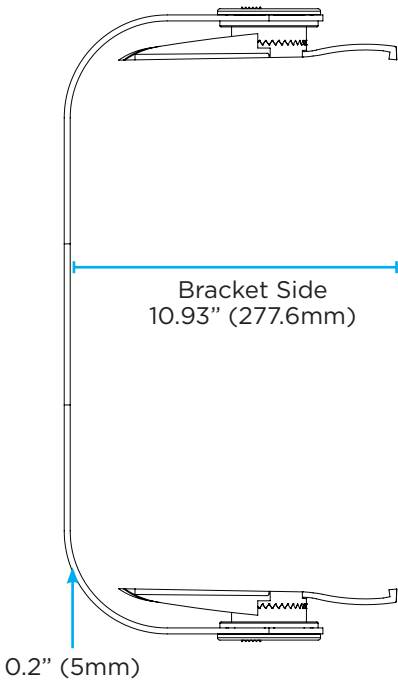
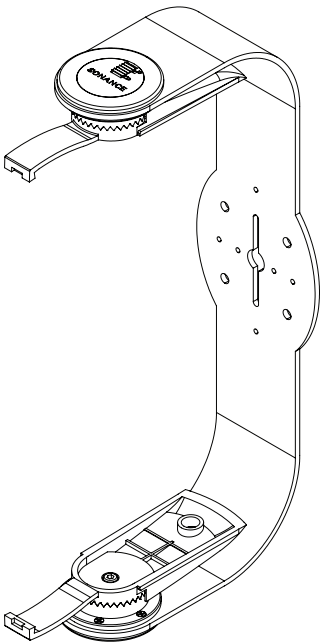
Loudspeaker Front
11.57" (293.9mm)



Loudspeaker Side
10.25" (260.3mm)

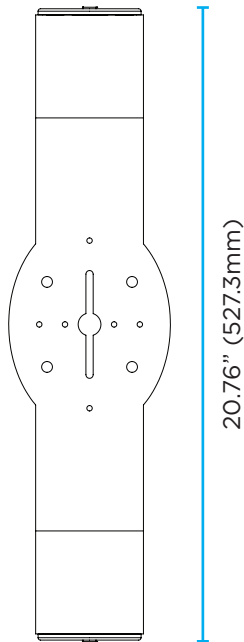


Loudspeaker Back



Bracket Side
10.93" (277.6mm)

0.2" (5mm)



Bracket Back
5.31" (135mm)

ARCHITECTURAL SPECIFICATIONS

Sonance Professional Series - PS-S85T 70V/100V/8 ohm Selectable 8" Surface Mount Speaker

The loudspeaker shall be of the two-way type comprising a single surface mount enclosure containing one 8" (203mm) aluminum cone, santoprene surround low frequency transducer with ferrite magnet and 60.55mm voice coil, and one 1.4" (36mm) coaxially mounted aluminum dome compression driver high frequency transducer with neodymium magnet, 36mm voice coil, and 1" (25mm) exit with 1500Hz crossover frequency. It shall feature interchangeable collar and horn directivity options for flexible coverage patterns. Frequency range shall be 41.4Hz – 20KHz (+/-3dB). Long term power handling shall be 150 Watts continuous (600 Watts Peak) for 100 hours per IEC standards, with program power of 300 Watts (1200 Watts Peak) for two hours. The unit shall be supplied with a laminated core line matching transformer suitable for 100 volt or 70 volt with control allowing user selectable power taps of 120W, 60W, 30W, and 15W (70V), 120W, 60W, and 30W (100V), and an 8 ohm bypass. The enclosure shall be constructed from polypropylene plastic (UL94V-O) with IPX4-rated water resistance suitable for outdoor applications. The baffle and grille shall be constructed from polypropylene plastic and steel respectively. The speaker shall be suitable for commercial installation per UL1480A standards. Wire shall be terminated via four pin Euroblock connector with loop output connections. Suspension points shall be provided on the top, bottom, and back of the enclosure to allow secure surface mounting with optional C-bracket. The back enclosure cubic volume shall be 0.83 cubic feet (23.5 cubic liters) with port tuning at 41.1Hz. Coverage pattern from 1kHz to 10kHz shall be 120 degrees axis symmetric (collar configuration) or 80 degrees axis symmetric (horn configuration) with directivity factor (Q) of 5.7 (collar) or 8.65 (horn) averaged from 1kHz to 16kHz and directivity (DI) of 7.5dB (collar) or 9dB (horn) averaged from 1kHz to 16kHz. Operating temperature range shall be -40°F to 140°F (-40°C to 60°C). External dimensions shall be 19.47" Height x 11.57" Width x 10.25" Depth (494.5mm x 293.9mm x 260.3mm) without C-bracket, or 20.86" Height x 11.57" Width x 11.02" Depth (529.8mm x 293.9mm x 279.9mm) with C-bracket. The total enclosure shall weigh 29.3 lbs. (13.29 kg) per unit.

SAFETY AGENCY COMPLIANCE

Sonance Professional Series PS-S85T 8" Surface Mount Speaker meets the following standards:

UL-1480A: Speakers for Commercial and Professional use

CSA-C22.2 No.205: Signal equipment shall be installed in accordance with:

NFPA-70: National Electric Code

NFPA-90A: Installation of Air Conditioning and Ventilation

CSA C22.1: Canadian Electrical Code



TECHNICAL ASSISTANCE AND SERVICE

For Technical Assistance, call (949) 492-7777 for any questions concerning the speaker operation and installation between the hours of 7:00AM - 5:00PM (Pacific), Monday through Friday, except holidays. In the event your unit should need repair or service, you may return the unit to your authorized dealer or use the following guidelines: **PLEASE KEEP ORIGINAL PACKAGING WHEN POSSIBLE.**

1. Be prepared to state the model number and/or serial number, date of purchase, dealer's name and address.
2. Contact Sonance directly at (949) 492-7777 or at www.sonance.com. **YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR UNIT.**
3. If you are returning the product directly to Sonance, call us to obtain a return authorization number before shipping.
4. Ship the product via United Parcel Service, Federal Express, or other package delivery service. Please do not use the U.S. Postal Service.
5. Include the return authorization number on the shipping label.
6. Ship to:

Attn: Quality Assurance Department, RMA# (include RMA number here)
Sonance

11016 Mulberry Ave., Suite B
Fontana, CA 92337

WARRANTY, REMEDY, EXCLUSIONS AND LIMITATIONS

LIMITED WARRANTY

Sonance warrants this product to the original purchaser to be free from defects in material and workmanship, under normal use and conditions, for a period of five (5) years from the date of original purchase as shown on the invoice. The foregoing exclusive warranty gives you specific legal rights, and you may have other rights, which vary from state to state. This warranty applies exclusively to the original purchaser.

The exclusive warranty does not apply and is ineffective if:

1. The invoice fails to establish that the product was purchased from an authorized Sonance dealer or distributor;
2. The product was subjected to misuse, neglect, accident, or improper installation.
(Damage to the product was caused by accident, abuse or misuse);
3. The product was modified, altered, or repaired by unauthorized personnel; or
4. The unit was not used as described in the installation and operating instructions.

EXCLUSIVE REMEDY

Sonance agrees, at its option during the five (5) year warranty period, to repair any defect in material or workmanship or to furnish an equal product in exchange without charge to the purchaser, subject to the verification of the defect and proof of the date of purchase.

WARRANTY EXCLUSIONS AND DAMAGE LIMITATIONS

The exclusive warranty set forth above is in lieu of all other warranties, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose, which are expressly disclaimed. In no event, and under no circumstances or legal or equitable theory, shall Sonance be liable or responsible for any direct or indirect damages, consequential damages, loss, or injury, including without limitation, personal injury, bodily injury, property damage, emotional distress, death, real property or personal property damage, business interruption, costs of delay or lost profits arising from the product, whether based upon warranty, contract, negligence, strict product liability or other theory.