

# SONANCE

## PS-C63RT

### PROFESSIONAL SERIES IN-CEILING SPEAKER

#### PROFESSIONAL SERIES

From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark insound quality and aesthetics for commercial environments.

Sonance Professional Series includes a range of In-Ceiling, Pendant and Surface Mount Speakers that deliver unequalled fidelity, extremely low distortion, wide dispersion and a smooth power response. The range also shares consistent voicing, ensuring seamless sonic integration when used together throughout a space.

The Sonance Professional Series PS-C63RT In-Ceiling Speaker features a one-piece bezel-less grille that is magnetically secured and allows for a one-step painting process to simplify installation and minimize visual distraction.

The optional Square Grille Adapter allows speakers to match the aesthetic of square downlights and HVAC grilles to achieve continual sight lines.

A high-excursion 6.5" polypropylene woofer delivers effortless low bass extension, even at high volumes, while the pivoting chambered 1" soft dome tweeter can be directed to ensure accurate coverage, when speaker positioning is compromised.

The PS-C63RT features a sealed metal enclosure, integrated cable and conduit clamping, removable Euroblock connector with loop-through, swing-open connector cover and seismic attachment. Additionally, the Sonance PS-C63RT is certified for UL 1480 and UL 2043.

#### FEATURES AND BENEFITS

##### PERFORMANCE

- Class-leading sensitivity & sonic performance
- Exceptional off-axis response
- Heavy duty voice coil for longevity and reliability
- Full-fidelity transformer for uncompromised tonality
- Consistent voicing across product range

##### AESTHETICS

- Bezel-less design for clean and minimalistic aesthetic
- Optional Square Adapters to match light fixtures
- Optional black grilles in round or square

##### INSTALLATION

- Magnetic grille retention for fast installation and removal
- Finger-adjustable selector tap
- One-step simplified painting process
- Smallest in class form factor

#### APPLICATIONS

- Boardrooms & Corporate Offices
- Shopping Malls, Retail Spaces & Showrooms
- Restaurants, Bars & Lounges
- Galleries & Museums
- Casinos, Convention Centers & Hotels
- Houses of Worship
- Educational Facilities



# SONANCE

## TECHNICAL SPECIFICATIONS

### LOUDSPEAKER

|                         |  |
|-------------------------|--|
| Frequency Range (-10dB) | 49Hz - 25kHz   |
| Frequency Range (-3dB)  | 65Hz - 20kHz   |
| Power Capacity          | 120 Watts Continuous Program Power<br>60 Watts Continuous Pink Noise |
| Nominal Sensitivity     | 91dB   |
| Nominal Coverage Angle  | 120 degrees conical coverage   |
| Directivity Factor (Q)  | 6.5  |
| Directivity (DI)        | 7.9dB  |
| Rated Maximum SPL       | 108dB @ 1 meter (3.3 feet) average, 116dB peak                       |
| Rated Impedance         | 8 Ohms nominal, 6 Ohms minimum                                       |
| Transformer Taps        | 70V: 60W, 30W, 15W and 7.5W<br>100V: 60W, 30W and 15W                |
| Crossover Point         | 2750Hz   |
| Overall Dimension       | 9.13" Diameter x 8.86" Depth (232mm x 225mm)                         |
| Cut Out Dimension       | 8.25" Diameter (210mm)   |
| Net Weight              | 9.38 lbs (4.25kg) each   |
| Shipping Weight         | 32.36 lbs (14.68kg) pair   |
| Unit of Measure         | Pair   |
| Grille                  | Supplied with bezel-less white grille, black grille optional         |

### TRANSDUCERS

|           |  |
|-----------|--|
| LF Driver | 6.5" (165mm) Polypropylene Cone, Butyl Rubber Surround |
| HF Driver | 1" (25mm) Cloth dome, Pivoting, Ferrofluid cooled      |

### ENCLOSURE

|                           |   |
|---------------------------|---|
| Input Connectors          | Four pin Euroblock with loop output connections |
| Knockouts                 | One, side mounted .75"                          |
| Safety Agency             | UL 1480, UL 2043, NFPA 90A, NFPA 70             |
| Maximum Ceiling Thickness | 1.732" (44mm)                                   |
| Suspension Points         | One, on top surface                             |



PS-C63RT  
SKU# 40131

## ACCESSORIES

### INCLUDED ACCESSORIES

- C-Ring x 2
- Tile Support Rails x 4
- Cutout Template x 2
- Euroblock Connector x 2
- White Grille x 2

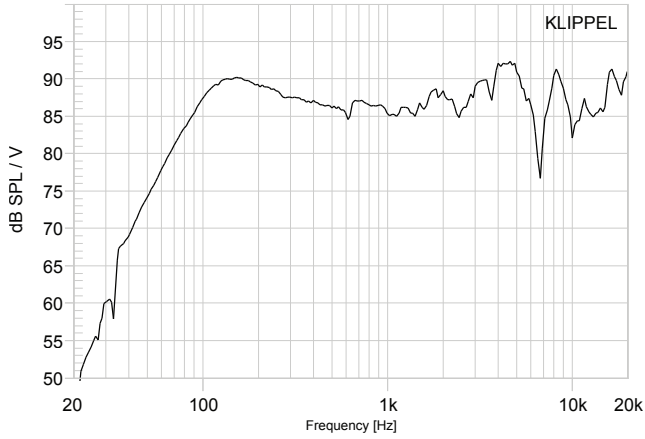
### OPTIONAL ACCESSORIES

- Replacement Round Grille White (1 pair) | 40153
- Round Grille Black (1 pair) | 40156
- Square Adaptor w/ Grille White (5 pair) | 40159
- Square Adaptor w/ Grille White (1 pair) | 45159
- Square Adaptor w/ Grille Black (5 pair) | 40162
- Square Adaptor w/ Grille Black (1 pair) | 45162
- Flex Bracket (5 pair) | 92337
- Metal Pre-construction Bracket (5 pair) | 40126
- Tile Support Rails w/ C-Ring (1 pair) | 40173
- Replacement RotoLock Feet (Bag) | 40175

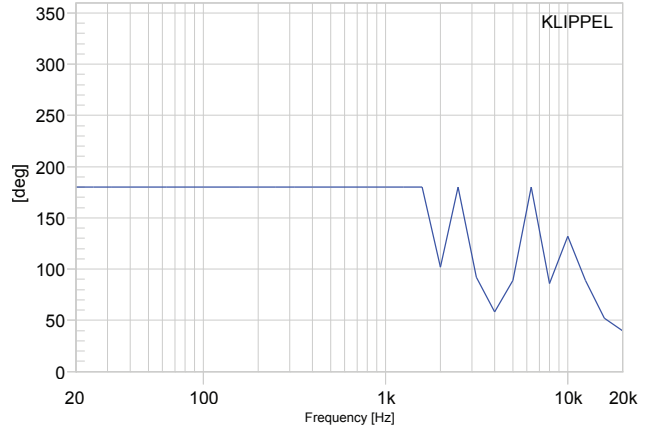
# SONANCE

## PERFORMANCE MEASUREMENTS

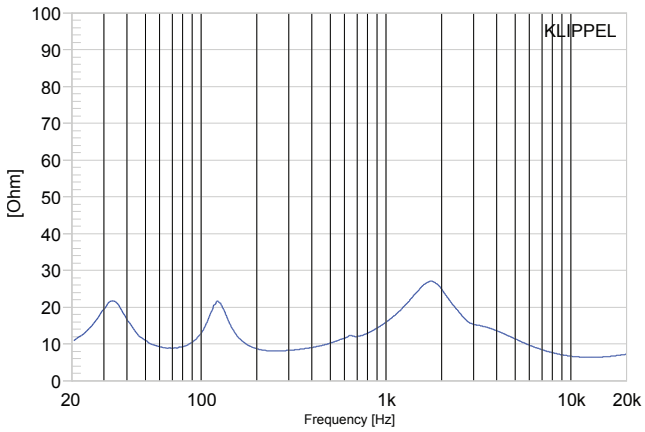
### 1 METER ON AXIS FREQUENCY RESPONSE



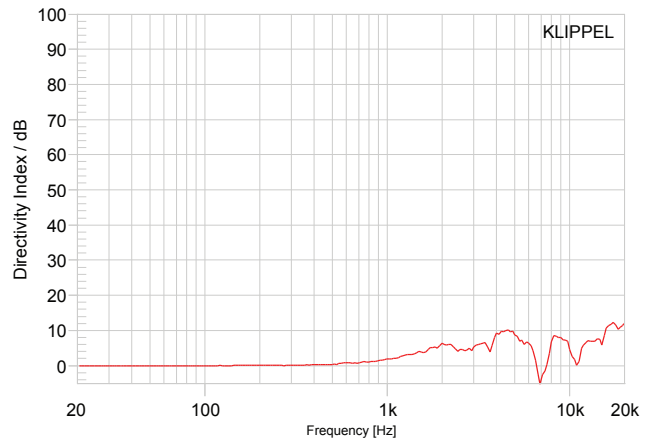
### BEAMWIDTH VS FREQUENCY



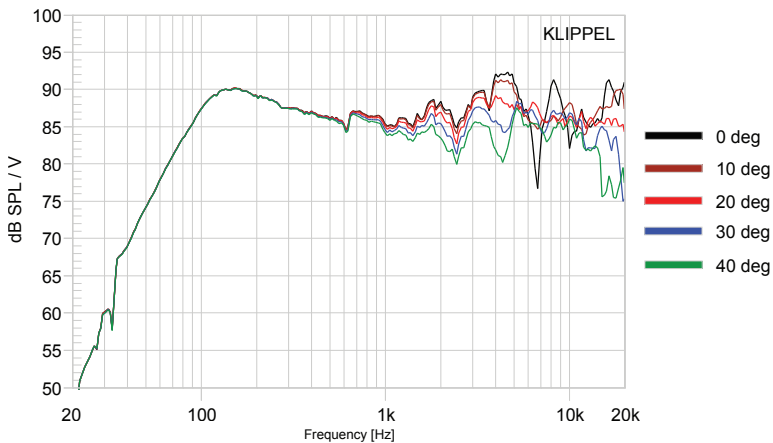
### IMPEDANCE VS FREQUENCY



### DIRECTIVITY INDEX VS FREQUENCY



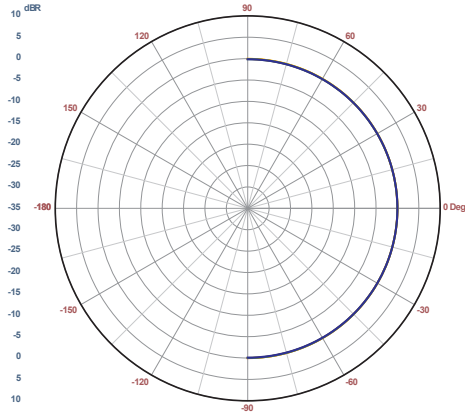
### 1 METER HORIZONTAL FREQUENCY RESPONSE



# SONANCE

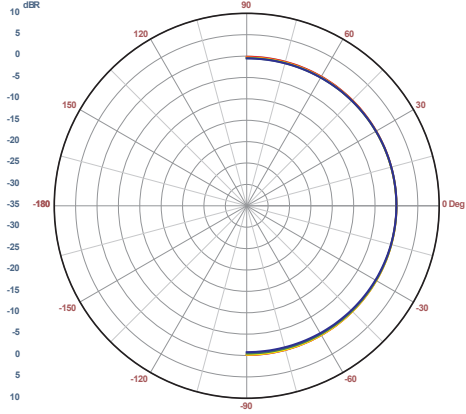
## POLAR PLOTS (1/3 OCTAVE)

RATIO VS ANGLE



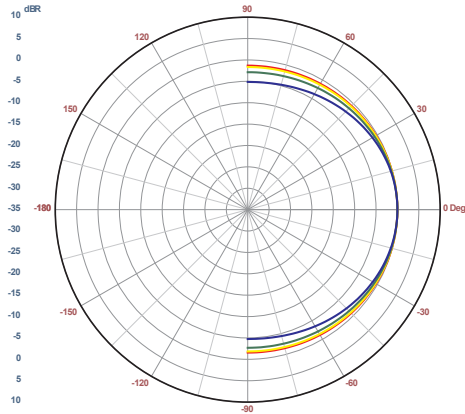
| Curve  | Freq   | BW  | Q   | DI  |
|--------|--------|-----|-----|-----|
| Red    | 100.00 | 180 | 2.0 | 3.0 |
| Yellow | 125.00 | 180 | 2.0 | 3.0 |
| Green  | 160.00 | 180 | 2.0 | 3.0 |
| Blue   | 200.00 | 180 | 2.0 | 3.0 |

RATIO VS ANGLE



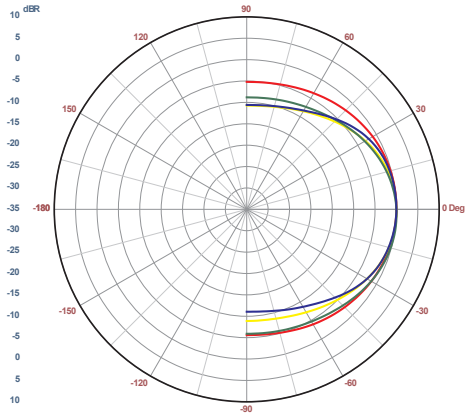
| Curve  | Freq   | BW  | Q   | DI  |
|--------|--------|-----|-----|-----|
| Red    | 250.00 | 180 | 2.0 | 3.0 |
| Yellow | 315.00 | 180 | 2.0 | 3.0 |
| Green  | 400.00 | 180 | 2.0 | 3.0 |
| Blue   | 500.00 | 180 | 2.0 | 3.0 |

RATIO VS ANGLE



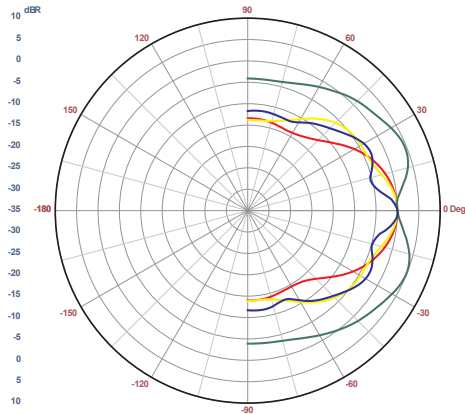
| Curve  | Freq   | BW  | Q   | DI  |
|--------|--------|-----|-----|-----|
| Red    | 630.00 | 180 | 2.0 | 3.0 |
| Yellow | 800.00 | 180 | 2.0 | 3.0 |
| Green  | 1.00K  | 180 | 2.0 | 3.0 |
| Blue   | 1.25K  | 180 | 2.0 | 3.0 |

RATIO VS ANGLE



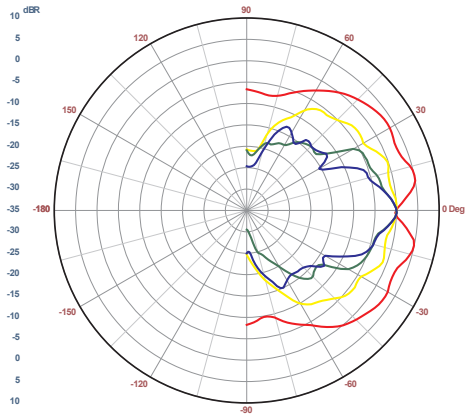
| Curve  | Freq  | BW  | Q   | DI  |
|--------|-------|-----|-----|-----|
| Red    | 1.60K | 180 | 2.0 | 3.0 |
| Yellow | 2.00K | 95  | 3.8 | 5.8 |
| Green  | 2.50K | 138 | 2.6 | 4.2 |
| Blue   | 3.15K | 83  | 3.9 | 5.9 |

RATIO VS ANGLE



| Curve  | Freq  | BW  | Q   | DI  |
|--------|-------|-----|-----|-----|
| Red    | 4.00K | 55  | 6.4 | 8.1 |
| Yellow | 5.00K | 87  | 4.1 | 6.2 |
| Green  | 6.30K | 180 | 2.0 | 3.0 |
| Blue   | 8.00K | 78  | 4.6 | 6.6 |

RATIO VS ANGLE



| Curve  | Freq   | BW  | Q   | DI   |
|--------|--------|-----|-----|------|
| Red    | 10.00K | 136 | 2.6 | 4.2  |
| Yellow | 12.50K | 98  | 3.7 | 5.6  |
| Green  | 16.00K | 53  | 6.8 | 8.3  |
| Blue   | 20.00K | 36  | 9.9 | 10.0 |

# SONANCE

## DIMENSIONAL SKETCHES SPECIFICATIONS

### PS-C63RT Loudspeaker

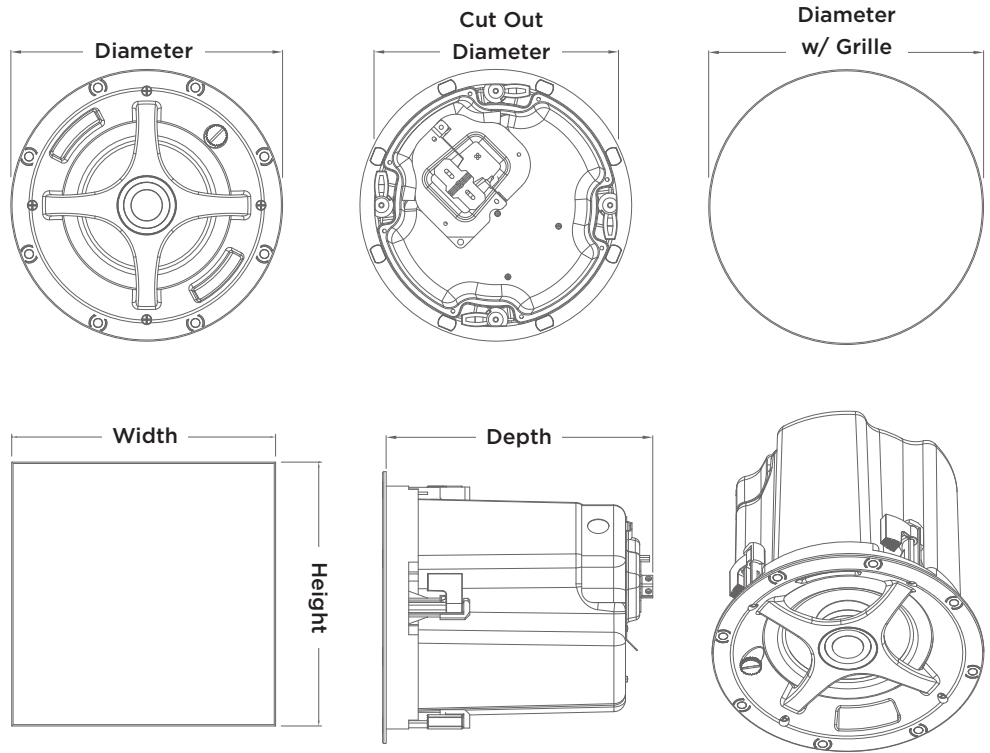
Diameter: 9.13" (232mm)  
Depth: 8.86" (225mm)

Cut Out  
Diameter: 8.25" (210mm)

With Grille  
Diameter: 9.13" (232mm)

### With Square Adapter and Grille

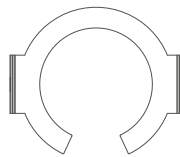
Width: 9.23" (235mm)  
Height: 9.23" (235mm)



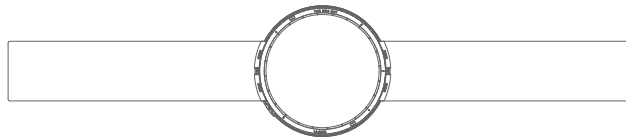
### Tile Bridge



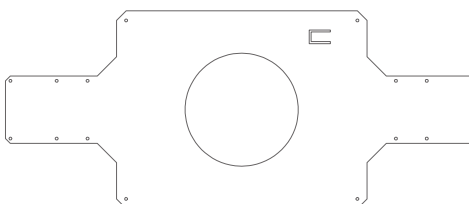
### C-Ring



### Flex Bracket



### Metal Pre-construction Bracket



# SONANCE

## ASSOCIATED PRODUCTS

### IN-CEILING SPEAKERS

|                               |       |
|-------------------------------|-------|
| PS-C43RT In-Ceiling Speaker   | 40130 |
| PS-C83RT In-Ceiling Speaker   | 40132 |
| PS-C83RWT In-Ceiling Speaker  | 40133 |
| PS-C43RTLP In-Ceiling Speaker | 40181 |
| PS-C63RTLP In-Ceiling Speaker | 40182 |

### PENDANT SPEAKERS

|                                |       |
|--------------------------------|-------|
| PS-P43T Pendant Speaker White  | 40134 |
| PS-P63T Pendant Speaker White  | 40135 |
| PS-P83T Pendant Speaker White  | 40136 |
| PS-P83WT Pendant Speaker White | 40137 |
| PS-P43T Pendant Speaker Black  | 40138 |
| PS-P63T Pendant Speaker Black  | 40139 |
| PS-P83T Pendant Speaker Black  | 40140 |
| PS-P83WT Pendant Speaker Black | 40141 |

### SURFACE MOUNT SPEAKER

|                                      |       |
|--------------------------------------|-------|
| PS-S43T Surface Mount Speaker White  | 40142 |
| PS-S53T Surface Mount Speaker White  | 40143 |
| PS-S63T Surface Mount Speaker White  | 40144 |
| PS-S83T Surface Mount Speaker White  | 40145 |
| PS-S83WT Surface Mount Speaker White | 40146 |
| PS-S43T Surface Mount Speaker Black  | 40147 |
| PS-S53T Surface Mount Speaker Black  | 40148 |
| PS-S63T Surface Mount Speaker Black  | 40149 |
| PS-S83T Surface Mount Speaker Black  | 40150 |
| PS-S83WT Surface Mount Speaker Black | 40151 |

### DSP AMPLIFIER

|                            |       |
|----------------------------|-------|
| Sonamp DSP 2-750 Amplifier | 93095 |
|----------------------------|-------|

## ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall be of the two way type comprising a single flush mount enclosure containing one 6.5" (165mm) Polypropylene Cone, Butyl Rubber Surround low frequency transducer and one coaxially mounted pivoting 1" (25mm) Cloth dome, Pivoting, Ferrofluid cooled high frequency transducer. It shall utilize a one-piece bezel-less grille design and an optional square grille adapter shall also be available if required. Frequency range shall be 65Hz - 20KHz (-3dB). Total power handling shall be 60 Watts continuous pink noise and 120 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 65Hz - 20KHz shall be 91dB. The unit shall be supplied with a line matching transformer suitable for 100 volt or 70 volt with a front mounted control allowing user selectable power taps of 60W, 30W, 15W, 7.5W and a 8 Ohm bypass. The back shall be constructed from deep drawn steel. The baffle shall be ported and injection molded using fire rated ABS that meets UL 94V-0. The speaker shall be suitable for use in air handling spaces per UL 1480, UL 2043, NFPA 90 and NFPA 70 S7232 UL Listed signaling speaker. Wire shall be terminated in an enclosed area on the rear of the back can with a secondary knock-out. Strain relief shall be provided for wire. A seismic attachment shall be provided on the rear of the back can to allow additional support when necessary. The system shall include a support backing plate to reinforce the ceiling material and tile support rails which can all be installed from beneath the ceiling tile. External dimensions shall be 9.13" Diameter x 8.86" Depth (232mm x 225mm). The total enclosure shall weigh 5 lbs. (2.27 kg) per unit. The loudspeaker shall be the Sonance Professional Series PS-C63RT. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

# SONANCE

## SAFETY AGENCY COMPLIANCE

Sonance Professional Series In-Ceiling Speaker are compliant with:

### UL 2043

Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use. Suitable for use in air-handling spaces.

### UL 1480

Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

### NFPA 70

2002 National Electrical Code

### NFPA 90A

Installation of Air Conditioning and Ventilation Systems, Section 2-3.10.1(A)



## TECHNICAL ASSISTANCE AND SERVICE

The Technical Assistance Department at Sonance is available at (949) 492-7777 to answer any questions concerning the operation and installation of your speakers between the hours of 7:00 AM and 5:00 PM Pacific time, 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, and dealer's name and address when calling.
2. Contact Sonance directly at (949) 492-7777 or at [www.sonance.com](http://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

# SONANCE

## WARRANTY, REMEDY, EXCLUSIONS AND LIMITATIONS (USA ONLY)

### 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.

## SONANCE

©2020 Sonance. All rights reserved. Sonance is a registered trademarks of Dana Innovations. Due to continuous product improvement, all features and specifications are subject to change without notice. For the latest Sonance product specification information visit our website at [www.sonance.com](http://www.sonance.com).

SONANCE • 991 Calle Amanecer • San Clemente, CA 92673 USA  
PHONE: (949) 492-7777 • FAX: (949) 361-5151 • Technical Support: (949) 492-7777 • [www.sonance.com](http://www.sonance.com)  
04.24.2020