

# SONANCE

## IS6T

### INVISIBLE SERIES COMMERCIAL LOUDSPEAKER

#### INVISIBLE SERIES

**Sonance Invisible Series Commercial Loudspeakers are the ultimate expression of architectural audio, delivering uncompromising aesthetics combined with unequaled sonic performance.**

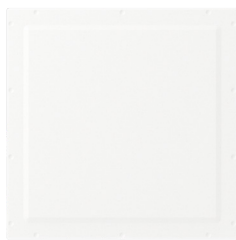
The IS6T, is a ground-up design, utilizing completely new technologies that deliver a level of fidelity that is unheard of in this category. High frequencies are achieved with Sonance's "Motion Flex Technology", which consists of a "Wave Flex Drive Unit" with a bending wave diaphragm, utilizing a 1.75" (44mm) voicecoil, while the low frequencies are generated by an "Air Flex" Woofer with an air pulse diaphragm driven by an 6.5" (165mm) carbon fiber woofer.

The IS6T feature Sonance's Laminated Core Technology transformer (SLCT), delivering full-fidelity sonic performance in either 70V or 100V mode.

The IS6T is designed to install flush into a ceiling or wall and be finished over with up to 1/8" (3mm) of flexible material such as topping compound venetian plaster, wood veneer or wallpaper, to provide a completely invisible aesthetic.

Sonance's proprietary "D.I.S.C. System", allows the installer to accurately measure the thickness of topping material over the diaphragm to ensure optimum sonic performance is always achieved.

Certification includes UL2043, NFPA90, NFPA70 S7232 and UL1480.



#### FEATURES AND BENEFITS

##### PERFORMANCE

- Frequency response of 50Hz - 30KHz @ -3dB
- 170 degrees dispersion up to 10kHz
- Full-fidelity transformer for uncompromised tonality

##### AESTHETICS

- Zero visual impact to space
- Compatible with topping compound, wood veneer, venetian plaster, wallpaper

##### INSTALLATION

- Installs under up to 1/8" (3mm) of any flexible material
- D.I.S.C. system to ensure accurate topping measurement
- Optional space savers

#### APPLICATIONS

- Luxury Retail Boutiques
- Luxury Automotive Showrooms
- Museums and Galleries
- Fine Dining Restaurants
- Hotels

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## TECHNICAL SPECIFICATIONS

### LOUDSPEAKER

SKU	40198
Wave Flex Drive Unit	20in <sup>2</sup> (127cm <sup>2</sup> ) bending wave diaphragm   1.75in (44mm) voice coil
Air Flex Woofer	98in <sup>2</sup> (633cm <sup>2</sup> ) air pulse diaphragm   6.5in (165mm) carbon fiber woofer
Frequency Response (+/- 3dB)	50Hz-30kHz
Nominal Impedance (Ohms)	4
Power Handling (RMS)	100W
Sensitivity (2.83V/1m)	84dB
Dispersion	170° hemispherical up to 10kHz
Transformer	30W with Sonance Laminated Core Technology
Transformer Taps	30W, 15W, 7.5W, (3.8W @ 70V), 4 Ohms
Dimensions (WxHxD)	16.10" x 16.10" x 3.86" (409mm x 409mm x 98mm)
Mounting Depth	3.39" (86mm)
Attachment	Screw Terminals with strain relief
Overload Protection	Two independent self-resetting poly switches
Weight	18.41 lbs. (8.35 kg) per unit
Certifications	UL 2043, UL 1480

### SONANCE LAMINATED CORE TRANSFORMER TECHNOLOGY

The Sonance Laminated Core Transformer is built into the IS8T to deliver distortion-free, wide-bandwidth audio for uncompromising performance in 70V/100V commercial applications.

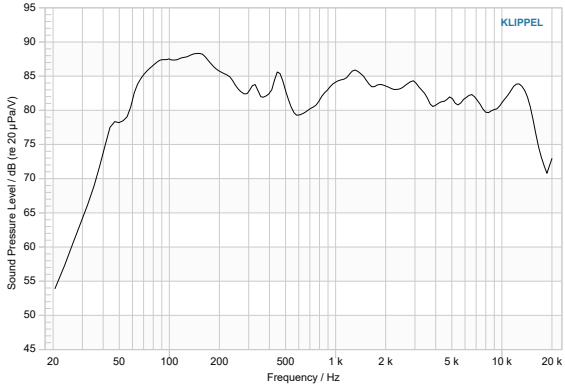
## OPTIONAL ACCESSORIES

- 93492 Space Saver - Small (IS6T)
- 93491 DG-1 DISC System Depth Gauge

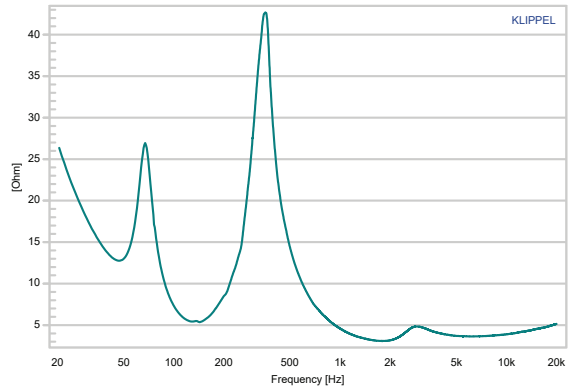
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## PERFORMANCE MEASUREMENTS

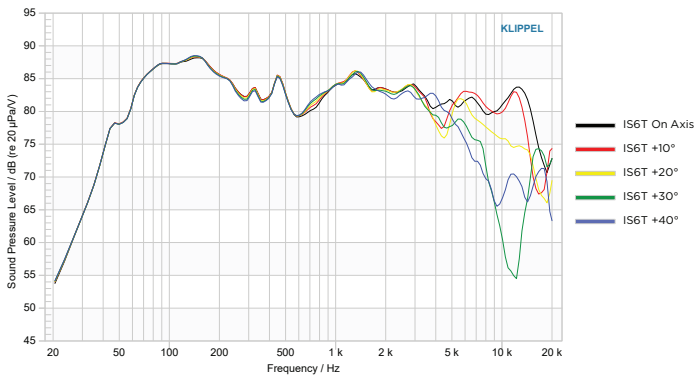
### 1 METER ON AXIS FREQUENCY RESPONSE



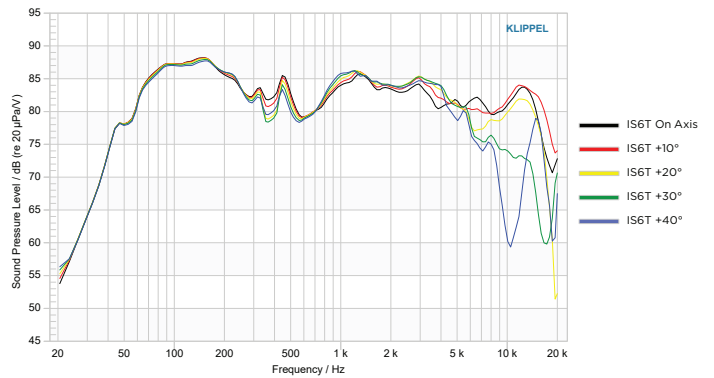
### IMPEDANCE VS FREQUENCY



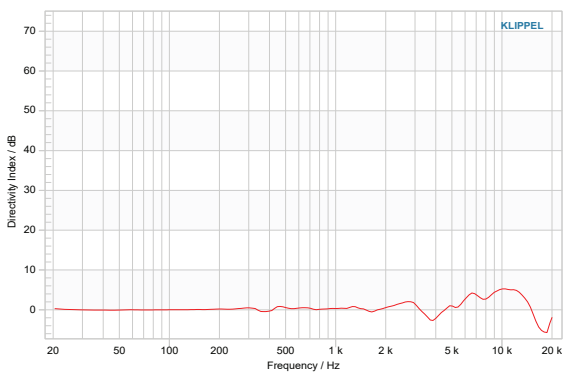
### 1 METER HORIZONTAL FREQUENCY RESPONSE



### 1 METER VERTICAL FREQUENCY RESPONSE

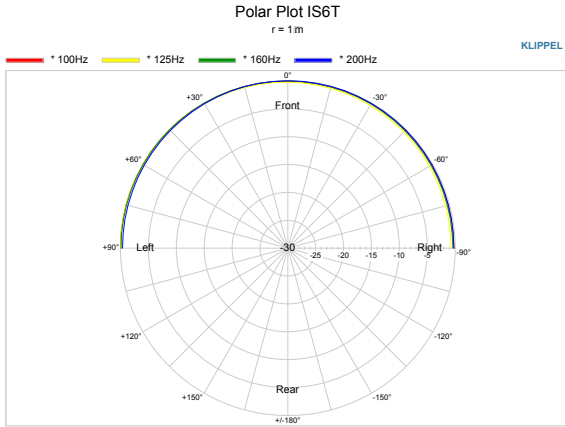


### DIRECTIVITY INDEX VS FREQUENCY

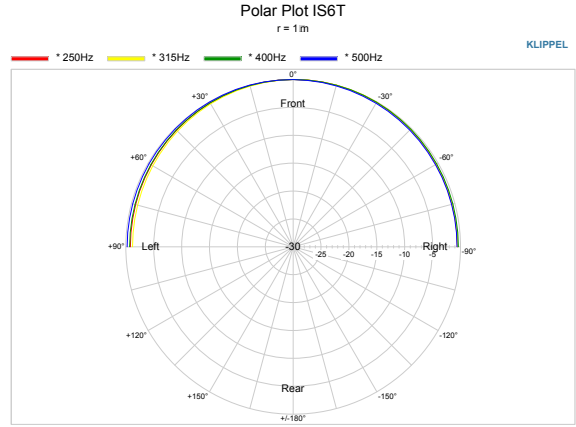


## HORIZONTAL POLAR PLOTS

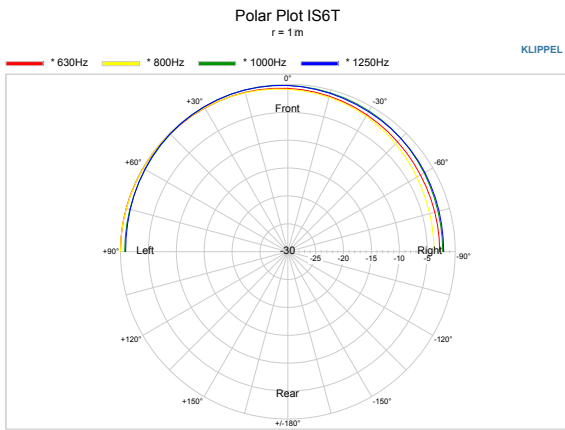
100-200



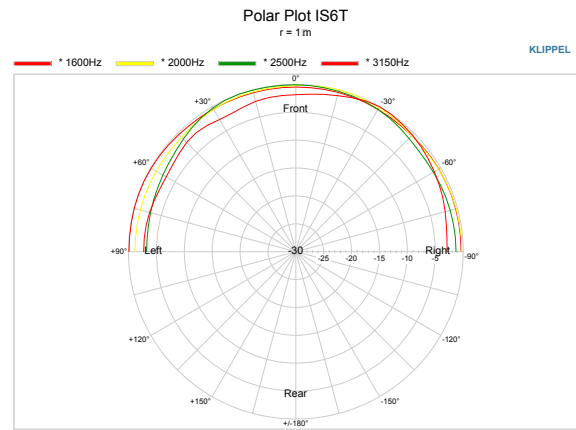
250-500



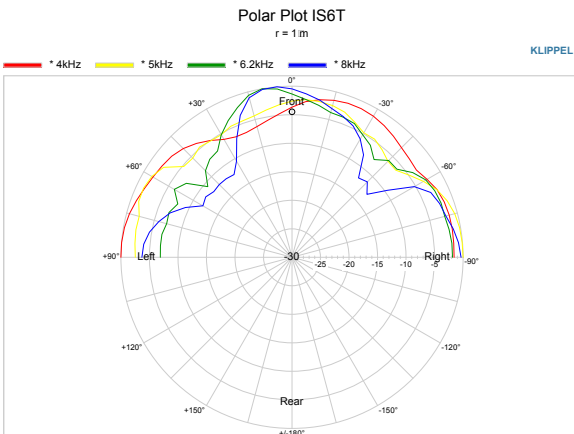
630-1250



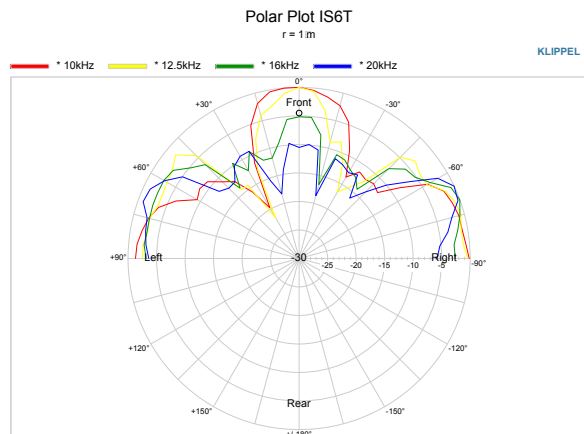
1600-3150



4000-8000

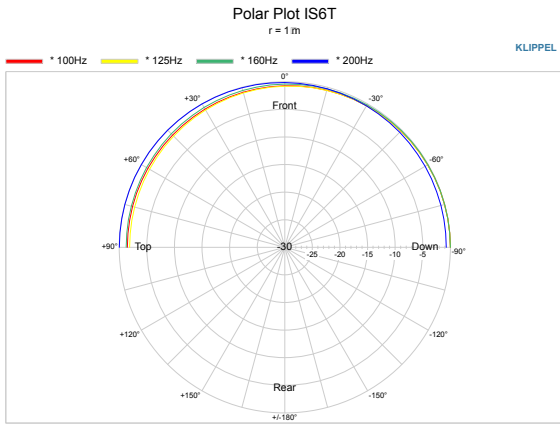


10000-20000

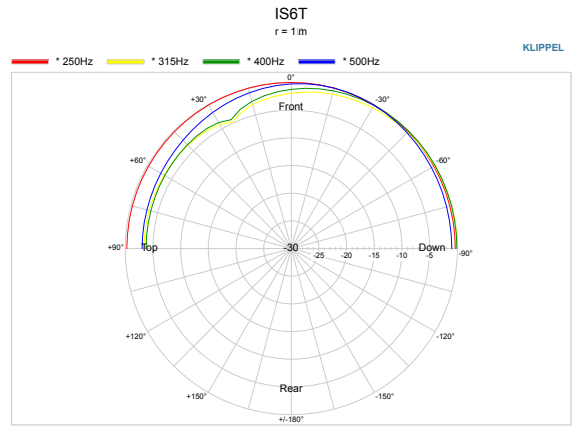


## VERTICAL POLAR PLOTS

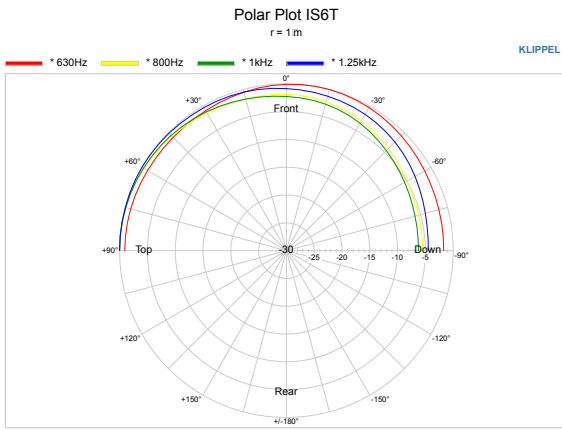
### 100-200



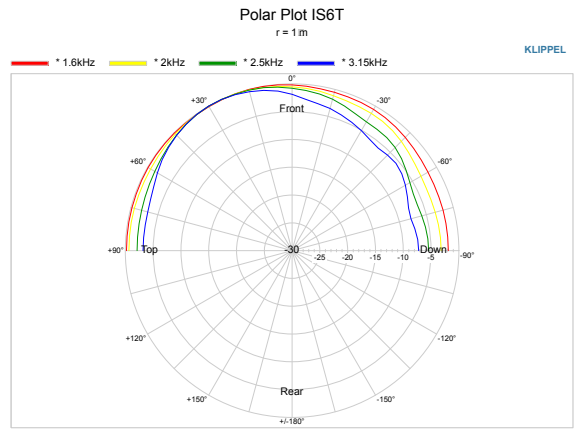
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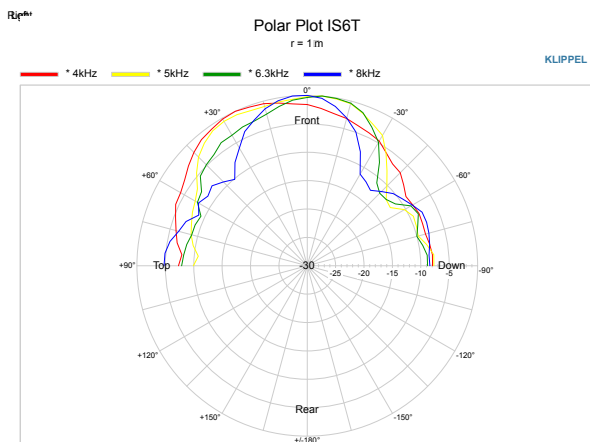
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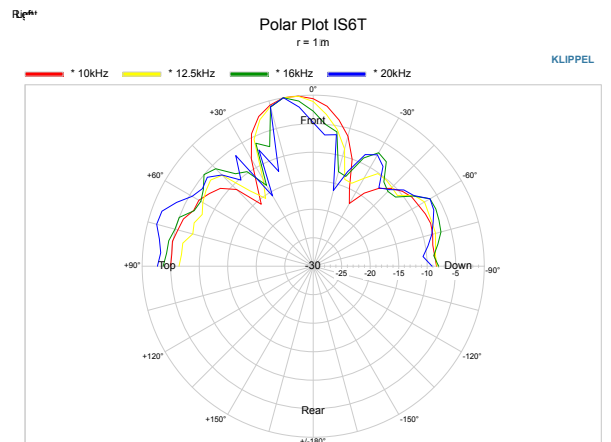
### 1600-3150



### 4000-8000



### 10000-20000



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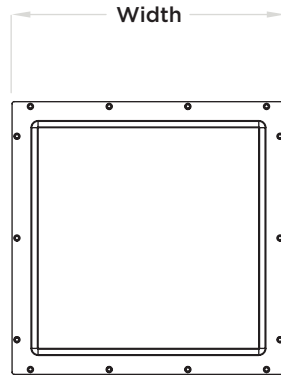
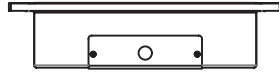
## DIMENSIONAL SKETCHES SPECIFICATIONS

### IS6T Loudspeaker

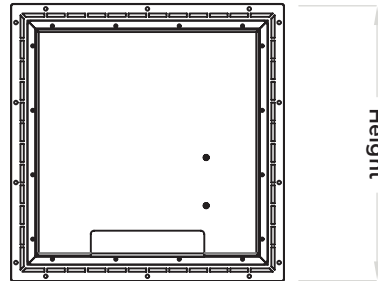
Width: 16.10" (409mm)

Height: 16.10" (409mm)

Depth: 3.86" (98mm)



Depth



# SONANCE

## ASSOCIATED PRODUCTS

### INVISIBLE SERIES SPEAKERS

IS8T Speaker 40197

### PROFESSIONAL SERIES IN-CEILING SPEAKERS

PS-C41RT In-Ceiling Speaker 45165  
PS-C61RT In-Ceiling Speaker 45166  
PS-C43RT In-Ceiling Speaker 45130  
PS-C63RT In-Ceiling Speaker 45131  
PS-C83RT In-Ceiling Speaker 45132  
PS-C83RWT In-Ceiling Speaker 40133  
PS-C43RTLTP In-Ceiling Speaker 45181  
PS-C63RTLTP In-Ceiling Speaker 45182

### PROFESSIONAL SERIES PENDANT SPEAKERS

PS-P43T Pendant Speaker White 45134  
PS-P63T Pendant Speaker White 45135  
PS-P83T Pendant Speaker White 45136  
PS-P83WT Pendant Speaker White 40137  
PS-P43T Pendant Speaker Black 45138  
PS-P63T Pendant Speaker Black 45139  
PS-P83T Pendant Speaker Black 45140  
PS-P83WT Pendant Speaker Black 40141

### PROFESSIONAL SERIES SURFACE MOUNT SPEAKERS

PS-S43T Surface Mount Speaker White 45142  
PS-S53T Surface Mount Speaker White 45143  
PS-S63T Surface Mount Speaker White 45144  
PS-S83T Surface Mount Speaker White 45145  
PS-S83WT Surface Mount Speaker White 40146  
PS-S43T Surface Mount Speaker Black 45147  
PS-S53T Surface Mount Speaker Black 45148  
PS-S63T Surface Mount Speaker Black 45149  
PS-S83T Surface Mount Speaker Black 45150  
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 cabinet that is designed to install flush into a ceiling or wall and be finished over with up to 1/8" (3mm) of flexible material to provide a completely invisible installation. It shall feature Motion Flex Technology, consisting of a Wave Flex Drive Unit with a 20in (127cm) bending wave diaphragm utilizing a 1.75" (44mm) voicecoil, combined with an Air Flex Woofer with a 98in (633cm) air pulse diaphragm utilizing a 6" (165mm) carbon fiber woofer. Frequency range shall be 50Hz - 30KHz (-3dB). Total power handling shall be 100 Watts RMS program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 50Hz - 30KHz shall be 84dB. The unit shall be supplied with a line matching laminated core transformer suitable for 100 volt or 70 volt with rear-mounted control allowing user selectable power taps of 30W, 15W, 7.5W and 3.8W (70V) and a 6 Ohm bypass. Protection shall be provided by two independent, self-resetting poly switches. It shall provide 170 degrees of dispersion up to 10kHz. The back can shall be constructed from metal. The speaker shall be suitable for use in air handling spaces per UL2043, NFPA90 and NFPA70 S7232 as well as UL1480, UL Rated signaling speaker. Wire shall be terminated in an enclosed area on the rear of the back can via a knock-out with internal strain relief. It shall feature the proprietary Sonance D.I.S.C. System, allowing the installer to accurately measure the thickness of topping material over the diaphragm to ensure optimum sonic performance. External dimensions shall be 16.10" Wide x 16.10" High x 3.86" Depth (409mm x 409mm x 98mm). The total enclosure shall weigh 18.41 lbs. (8.35 kg) per unit. The loudspeaker shall be the Sonance Invisible Series IS6T. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

# SONANCE

## SAFETY AGENCY COMPLIANCE

Sonance Invisible Series IS6T is 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 FIFTEEN (15) YEAR WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the period stated below. Sonance will at its option and expense during the warranty period, either repair the defect or replace the Product with a new or re-manufactured Product or a reasonable equivalent.

### EXCLUSIONS

**TO THE EXTENT PERMITTED BY LAW, THE WARRANTY SET FORTH ABOVE IS IN LIEU OF, AND EXCLUSIVE OF, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY SONANCE. ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR USE, AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED.**

No one is authorized to make or modify any warranties on behalf of Sonance. The warranty stated above is the sole and exclusive remedy, and Sonance's performance shall constitute full and final satisfaction of all obligations, liabilities, and claims with respect to the Product.

**IN ANY EVENT, SONANCE SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, ECONOMIC, PROPERTY, BODILY INJURY, OR PERSONAL INJURY DAMAGES ARISING FROM THE PRODUCT, ANY BREACH OF THIS WARRANTY, OR OTHERWISE.**

This warranty statement gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion of implied warranties or limitations of remedies, so the above exclusions and limitations may not apply. If your state does not allow disclaimer of implied warranties, the duration of such implied warranties is limited to period of Sonance's express warranty. Your Product Model and Description: IS6T Invisible Speakers. Warranty Period for this Product: Fifteen (15) years from the date on the original sales receipt or invoice or other satisfactory proof of purchase. Additional Limitations and Exclusions from Warranty Coverage: The warranty described above is nontransferable, applies only to the initial installation of the Product, does not include installation of any repaired or replaced Product, does not include damage to allied or associated equipment which may result for any reason from use with this Product, and does not include labor or parts caused by accident, disaster, negligence, improper installation, misuse (e.g. overdriving the amplifier or speaker, excessive heat, cold or humidity, mishandling, etc.), or from service or repair which has not been authorized by Sonance. Obtaining Authorized Service: To qualify for the warranty, you must contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (949) 492-7777 within the warranty period, must obtain a return merchandise number (RMA), and must deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, or invoice or other satisfactory proof of purchase.

## SONANCE

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