INVISIBLE SERIES SPEAKERS
IS6 | IS8 | IS10 | IS10W

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For technical support call (949) 492-7777 or visit
www.sonance.com/in-wall-in-ceiling/invisible-series

IMPORTANT SAFETY INSTRUCTIONS
This product is intended to be installed by professional AV integrators and installers only. This product manual is intended to serve as a general guideline for most applications. It is the installer’s responsibility to ensure this product is installed in accordance with local building codes and regulations. Consult a local authority for specific requirements, regulations, and building codes of the jurisdiction in which this product is to be installed.

READ THIS DOCUMENT IN ITS ENTIRETY BEFORE ATTEMPTING USE.
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with a dry cloth.
6. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
7. Do not install near a heat source such as radiators, heat registers, stoves, fireplaces, or other apparatus (including amplifiers) that produce heat.
8. Only use attachments/accessories specified by Sonance.
9. Refer all servicing to qualified service personnel.

BOX CONTENTS
IS6 | IS8 | IS10:
(2) Invisible Speakers with Cutout Templates
(4) Wire Nuts
(2) Stainless Steel Screw Sets
(8) 1/16” (1.6mm) Shims
(8) 1/8” (3.18mm) Shims

IS10W:
(1) Invisible Speaker with Cutout Template
(2) Wire Nuts
(1) Stainless Steel Screw Set
(4) 1/16” (1.6mm) Shims
(4) 1/8” (3.18mm) Shims
PRODUCT DESCRIPTION

The Sonance Invisible Series speakers featuring Motion Flex Technology offer a suite of advancements in speaker engineering that delivers unparalleled acoustic performance and installation enhancements that allow a wider range of applications with more consistent results. Together these performance and installation improvements redefine what is possible from an invisible speaker.

This line of full-range speakers and woofers incorporate Wave Flex drive units, carbon fiber Air Flex woofers, and acoustically-isolated baffles, allowing for up to 180 degrees of smooth off-axis response.

The innovative Sonance DISC System enables non-destructive measurement of the finish thickness for consistent and repeatable installation results.

Sonance DSP amplifier presets should be used to maximize the performance of any Invisible Series system.

FEATURES

• In-wall or In-ceiling installation

• Compatible with 1/2" (12.5mm) & 5/8" (15mm) drywall using included shims. Supply your own shims for thicker substrates.

• Finish-up-to or finish-over with up to 1/8" (3mm) flexible topping compound or finish material.

• 16" (406mm) and 12" (305mm) on-center compatible.

• 170 degree hemispherical dispersion (IS6/IS8/IS10) 180 degree hemispherical dispersion (IS10W)

• Embedded depth discs allow the installer to verify the finish material thickness with the optional DG-1 DISC System Depth Gauge (SKU 93491)

• Optional sound-isolating enclosure can be used for up to 20dB reduction of sound transferred to adjacent spaces.

• Per-transducer poly fuses integrated into every speaker allow extra protection of each transducer from over-current.

• 15 year limited warranty.
PRODUCT PREPARATION

Amplifier Selection
Sonance DSP Amplifiers are highly recommended for IS6, IS8, and IS10 full-range speakers. These amps have preloaded curves to optimize the performance of Invisible Series speakers and woofers. Preconfigured curves for various finish types and thicknesses allow for effortless calibration without the need for additional measurement equipment. The IS10W woofer requires a Sonance DSP amplifier in order to ensure high performance, to protect the speaker and installation, and to achieve consistent results. Sonance DSP Amplifiers are rated down to 4 Ohms and are stable to 2 Ohms. Never run more than two Invisible Speakers in parallel on one amplifier channel.

NOTE: Pay close attention to Sonance IS speaker rated RMS power handling. Select an amplifier with maximum RMS watts per channel at 4 ohms that closely matches or is less than the IS speaker’s rated power handling (see page 16). If the amplifier’s power capabilities exceed those of the speakers, damage to the speaker or installed finish may occur if the speaker is overdriven.

Wire Gauge - 8 ohm Systems
When using the product in an 8 Ohm (low impedance) system, the total wire resistance should be less than 10% of the speaker impedance. The speakers are nominally 6 Ohms impedance, so your total wire resistance should be no more than 0.6 Ohms. In simple terms, the extra resistance from the wire will have a very negative affect on the sound quality of the speaker. The sound can be less dynamic, definition of bass frequencies can be reduced, and in extreme cases, the high frequencies can be attenuated. Amplifier power is also wasted in the wire, reducing the maximum output level of the system. Please refer to the chart below when deciding on the appropriate wire gauge for your installation.

<table>
<thead>
<tr>
<th>DISTANCE</th>
<th>50’</th>
<th>100’</th>
<th>150’</th>
<th>200’</th>
<th>250’</th>
<th>300’</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 GAUGE</td>
<td>0.86</td>
<td>1.73</td>
<td>2.59</td>
<td>3.45</td>
<td>4.32</td>
<td>5.18</td>
</tr>
<tr>
<td>18 GAUGE</td>
<td>0.65</td>
<td>1.30</td>
<td>1.94</td>
<td>2.59</td>
<td>3.24</td>
<td>3.89</td>
</tr>
<tr>
<td>16 GAUGE</td>
<td>0.43</td>
<td>0.85</td>
<td>1.28</td>
<td>1.71</td>
<td>2.14</td>
<td>2.56</td>
</tr>
<tr>
<td>14 GAUGE</td>
<td>0.27</td>
<td>0.54</td>
<td>0.81</td>
<td>1.08</td>
<td>1.35</td>
<td>1.62</td>
</tr>
<tr>
<td>12 GAUGE</td>
<td>0.17</td>
<td>0.34</td>
<td>0.51</td>
<td>0.68</td>
<td>0.85</td>
<td>1.02</td>
</tr>
</tbody>
</table>

FINISH MATERIALS
Prior to speaker installation, verify that the topping compound and final finish are flexible materials (slow-setting drywall mud/topping compound, wallpaper, acrylic-based Venetian plaster, thin wood veneer) and will not exceed 3mm (1/8”).

Our recommended target for optimal performance is between 1.0 and 1.5mm (about 1/16”) of topping compound. Sound quality and installation durability will be adversely effected if too much topping compound is applied. For wood veneer finishes, use only 20mil (0.5mm) veneer with paper backing.

Do not use hard-setting or stiff materials over the surface of invisible speakers, such as fast-setting drywall mud (“hot mud”), genuine Venetian plaster, stucco, metal panels, tile, etc.
PROJECT MANAGEMENT

Follow the installation instructions in this manual precisely to ensure outstanding speaker performance and true invisibility. To accomplish this flawlessly every time requires project management and close coordination with the drywall and finish trades along with the General Contractor and sometimes even the client. Here are some best practices that will prevent unmet expectations and expensive rework:

- After IS speakers are connected and screwed in but before any drywall mudding, taping, or finishing has started, schedule a walk-through with the client (or client’s representative), the General Contractor, and the finish manager. Listen to every speaker for a couple minutes. This is the best opportunity to discover any anomalies or issues with invisible speaker performance.

- All in attendance should sign off on audio performance, speaker-by-speaker and room-by-room. Prepare a checklist like the example below and ask all parties to sign and date, acknowledging that the Sonance IS speakers perform to everyone’s expectations.

- Review all installation steps and processes with the finish manager, emphasizing to cover the speakers with only enough flexible material to make the speakers disappear and no more. This typically ends up being our recommended target of 1.0-1.5mm (or about 1/16”). Also emphasize the maximum of 3mm (or 1/8”) finish thickness. Review our guidelines for recommended materials on page 4 and 14 with the finish manager.

- Use the Sonance DISC system and DG-1 depth gauge (SKU 93491) to validate the finish thickness. It is helpful to lend the gauge to the finish manager so that it can be used during the actual process.

- Once the finish material has completely dried, perform another room-by-room listening check of each speaker. If the speakers do not sound similar to the performance you heard prior to finishing, it is likely that the finish thickness exceeds the maximum of 3mm (1/8”). Now is the time to correct this by removing material.

- Remember: once the flooring is installed and the furniture is in place, it is too late to remove excess finish material from the Sonance IS speakers without significant cost, cleanup, and/or complexity.

Effective project management, sign-offs, and proactive communication with the trades will prevent unexpected results and provide consistent, beautiful installs that wow the client and end-users.

ADDITIONAL INFORMATION

For CAD files, detailed dimensions, and other technical information, scan the QR code below or visit www.sonance.com/in-wall-in-ceiling/invisible-series

![QR Code]

EXAMPLE CHECKLIST:

<table>
<thead>
<tr>
<th>PROJECT NAME</th>
<th>ROOM #</th>
<th>ROOM DESCRIPTION</th>
<th>Model</th>
<th>Serial #</th>
<th>PRE-Finishing Audio Test Approval</th>
<th>Measured Finish Thickness</th>
<th>POST-Finishing Audio Test Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speaker 1</td>
<td></td>
<td></td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speaker 2</td>
<td></td>
<td></td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speaker 3</td>
<td></td>
<td></td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speaker 4</td>
<td></td>
<td></td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speaker 5</td>
<td></td>
<td></td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speaker 6</td>
<td></td>
<td></td>
<td>mm</td>
<td></td>
</tr>
</tbody>
</table>

Audio Test Approval Signatures:

Date:
INSTALLATION DETAIL - 16” (406MM) ON-CENTER

- Framing support (above & below speaker)
  Face block orientation to prevent interference with speaker wire.

- Included 1/8” (3mm) shims. Install around full perimeter of speaker.

- Included stainless steel screws

- 1/2” (12.5mm) Drywall

- 5/8” (15mm) Drywall

- Topping compound or other flexible finish material

16” (406mm) On-Center
**INSTALLATION DETAIL - 12” (305MM) ON-CENTER**

- Included 1/8” (3mm) shims. Install around full perimeter of speaker.
- Framing support (above & below speaker) Face block orientation to prevent interference with speaker wire.
- Included stainless steel screws
- Topping compound or other flexible finish material
- 5/8” (15mm) Drywall
- 1/2” (12.5mm) Drywall
- 12” (305mm) On-Center
- Framing
- IS speaker
- Drywall
- Additional support for speaker frame and drywall joint
RETROFIT INSTALLATION

1. Remove the included cutout template that is taped to the front of each speaker.

2. Locate the studs in your install location and mark the centers of the studs/Joists. Position and affix the template so that it is perfectly centered on both left and right studs.

3. Mark around the template and remove. **NOTE:** We highly recommend you keep the cutout template. It is an important tool that will help identify the measurement locations for the Sonance DISC system during the finish validation phase.

4. Before proceeding, perform an obstruction survey to be certain that there are no studs, conduit, pipes, HVAC ducts, pocket doors, etc. in the wall cavity that will interfere with the speaker.

5. Cut the drywall using a drywall saw along the top and bottom and a utility knife along the stud centerlines. An oscillating power saw is recommended for faster, cleaner results.

6. Remove drywall from opening. This should expose only 3/4” (19mm) of each stud/Joist or half of the stud/Joist surface. Remove any exposed drywall nails or screws.

7. Test-fit the speaker into the opening, verifying that the center diaphragm area is even with the drywall edges. If necessary, trim the edges of the drywall to properly accommodate the speaker.

8. Run speaker wire from the amplifier and audio component location to the cut out holes for your speakers. See wiring chart on page 4.

9. We recommend that you reinforce the top and bottom joint locations with a face-block-oriented 2x4 or 3/4” (19mm) plywood. See the construction diagrams on pages 6–7 and **STEP 2** on page 9. Ensure there is a flush, level surface around the full perimeter of the speaker location before proceeding.

10. **OPTIONAL:** Secure the sound-isolating enclosure (sold separately) to the back of your IS speaker.

<table>
<thead>
<tr>
<th>SOUND-ISOLATING ENCLOSURE PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS-ENCL-S IS6 93488 Each</td>
</tr>
<tr>
<td>IS-ENCL-M IS8/IS10W 93489 Each</td>
</tr>
<tr>
<td>IS-ENCL-L IS10 93490 Each</td>
</tr>
</tbody>
</table>

11. Proceed to **STEP 9** on page 10.
NEW CONSTRUCTION INSTALLATION

1. Run speaker wire from the amplifier and audio component location to desired speaker locations. See page 4 for wire gauge chart.

2. We recommend that you reinforce the top and bottom joint locations with a face-block-oriented 2x4 or 3/4" (19mm) plywood. See the construction diagram on pages 6-7 and the chart below for opening height dimensions. Product dimensional drawings are available on www.sonance.com. Ensure there is a flush, level surface around the full perimeter of the speaker location before proceeding.

<table>
<thead>
<tr>
<th>X (opening height)</th>
<th>IS6</th>
<th>15” 381mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IS8/IS10W</td>
<td>23” 585mm</td>
</tr>
<tr>
<td></td>
<td>IS10</td>
<td>27.5” 700mm</td>
</tr>
</tbody>
</table>

3. Place space saver, preconstruction zip ring bracket, or both in desired speaker location. See page 4 for when to use space savers and zip rings. Space savers are recommended for every new construction project. Zip rings are recommended as a time-saver on very large projects with dozens of invisible speakers.

4. Use the wire management built into the space saver/zip ring to keep your cables in place. With the aid of a level, screw the space saver/zip ring to the studs, making sure it’s centered horizontally.

5. Complete drywall installation to the rest of the room including the surface around the speakers. **NOTE:** Sonance recommends using the included stainless steel screws around the speaker locations. This is to avoid interfering with the Sonance DISC system depth gauge operation after install. Though this is not required, it will improve the accuracy of finish thickness measurements later on.

6. **OPTIONAL:** Secure the sound-isolating enclosure (sold separately to the back of your IS speaker).

<table>
<thead>
<tr>
<th>SOUND-ISOLATING ENCLOSURE PART NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IS-ENCL-S IS6</td>
</tr>
<tr>
<td>IS-ENCL-M IS8/IS10W</td>
</tr>
<tr>
<td>IS-ENCL-L IS10</td>
</tr>
</tbody>
</table>
7. Remove the space saver, if applicable. Hold onto the speaker wire attached to the back and pull it through the opening, being careful not to damage the surrounding drywall. The space saver can be kept for future installations or recycled.

8. **OPTIONAL**: If the zip ring was also used, cut the drywall at the speaker location using a zip tool and the zip ring as a guide. Be sure to cut along the outside edge of the zip ring. It will stay in place permanently.

9. Install shims to your framing as needed. Half inch (12.5mm) drywall does not require shims in most cases. If you are using a thicker substrate such as 5/8" (15mm) drywall, we include a thick 1/8" (3mm) shim to bring the speaker flush to the installation surface. We also include a full set of thin 1/16" (1.6mm) shims to make installation in a variety of substrates easier.

**NOTE**: When using shims, make sure all 4 speaker edges (top, bottom, and sides) are supported for a flush install surface around the entire perimeter of the speaker.

10. Connect the speaker wire from your wall or ceiling to the wire leads on the speaker using the included wire nuts.

11. Place the speaker into the opening. In a ceiling installation, do not hold the speaker in the center of the diaphragm. Hold at the edge of the frame and get assistance from a helper. Secure the speaker using one of the included stainless steel screws in each corner (use at least 4 screws total for this step).

**NOTE**: The best practice is to use stainless screws to secure the drywall surrounding the speaker as well. Unlike standard drywall screws, these are non-magnetic which will improve the accuracy of the Sonance DISC system later on in the finishing stage.
12. Ensure the center of the speaker diaphragm (not the recessed edges) is flush with the surrounding drywall. Adjust shims if necessary.

13. **IMPORTANT**: Test the speaker with an audio source at moderate listening levels to ensure it functions properly before completing the installation. Follow the guidelines on this page carefully.

14. Secure the speaker to the surface with the remaining stainless steel screws along all four sides. Do not over-tighten.

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**PRE-FINISHING TESTING GUIDELINES**

Once a finish is applied to an invisible speaker, it will be too late to go back and fix any audio connection or installation problems.

**Installation Fit Test**
Lightly place a straight edge across the face of the speaker to verify that the diaphragm of the speaker is co-planar with the surrounding drywall and has been installed correctly. Adjust shims if necessary. It is normal for the beveled edge of the speaker to be recessed from adjacent drywall.

**Audio Test**
Connect a high-quality audio source and Sonance amplifier to the installed invisible speaker for best results. Adjust the output for a moderate volume level consistent with how the speakers will be used in the space. Play music to check for overall fidelity and listen for any buzzes or rattles. We also recommend a slow tone sweep from 20Hz to 5kHz to help pinpoint any buzzing that could be caused from loose studs/screws/drywall, cable vibration, or rattling of outlets, lighting components, construction fixtures, etc.

Fix any installation or audio issues before moving on to the next steps.

We highly recommend active project management practices as described on page 5. Only after passing these testing guidelines should you proceed to the finishing stage.
FINISHING INSTRUCTIONS

NOTE: Drywall finishes can range in various levels of smoothness. For invisible speaker installations, we recommend at least a level four finish where drywall seams are all feathered out and sanded. For best results, we recommend a level five finish where the entire wall plane is skim-coated and sanded for smooth consistency.

1. Fill the gap between speaker and drywall with 20 minute fast-setting joint compound (“hot mud”).

2. Feather all edges.

3. Allow hot mud to set slightly before applying mesh tape.

4. Place mesh tape over the drywall seams. Overlap tape slightly.

5. Do not tape over the raised portion of the speaker.
6. Allow hot mud to fully cure and harden.

8. Feather all surfaces around the joints and up to the raised portion of the speaker diaphragm.

7. Once hot mud has fully cured, cover joints with slow-setting compound.

9. Allow first coat to fully cure. This can take 12–24 hours.

NOTE: DO NOT use fast-setting drywall compound ("hot mud") to cover the speaker; it is not flexible enough to provide a durable finish for invisible speakers. Instead we recommend a lightweight all-purpose joint compound to cover joints and feather up to the surface of the speaker. Lightweight, easy-sand topping compound should be used for covering the speaker.

IMPORTANT: If a perfectly flat finish is achieved at this point, you may opt to proceed to the priming and painting phase. This is what we refer to as a “Finish Up To” installation. In this case, we recommend multiple layers of paint to achieve a shadow-less, even blending of color.

We highly recommend a “Finish Over” process where an additional skim coat is applied over the entire speaker and blended into the surrounding wall plane. A Finish Over process typically takes less time to complete versus Finish Up To because fewer layers of paint are needed. And with the skim coat over the entire surface of the speaker and wall, it’s much easier to achieve perfect invisibility.

**RECOMMENDED DRYWALL COMPOUNDS**

<table>
<thead>
<tr>
<th>STEP 1</th>
<th>Filling gaps</th>
<th>20-minute All-Purpose Joint Compound (&quot;Hot Mud&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEP 7</td>
<td>Covering joints</td>
<td>Slow-setting Lightweight All-Purpose Joint Compound</td>
</tr>
<tr>
<td>STEP 10, 14</td>
<td>Covering the speaker</td>
<td>Slow-setting Lightweight Easy-Sand Topping Compound</td>
</tr>
</tbody>
</table>
FINISH THICKNESS GUIDELINES

Sound quality and installation durability will be adversely affected if finish materials are applied too thick.

**TOTAL FINISH THICKNESS FOR OPTIMAL PERFORMANCE:** 1.0mm to 1.5mm (3/64” to 1/16”)

**MAXIMUM TOTAL FINISH THICKNESS:** 3mm (1/8”)

Validate finish thickness using the Sonance DG-1 depth gauge (SKU 93491).

Do not use hard-setting or stiff materials over the surface of invisible speakers, such as fast-setting drywall mud (“hot mud”), genuine Venetian plaster, stucco, metal panels, tile, etc. Use only flexible materials to finish invisible speakers.

When using flexible sheet materials such as wallpaper or veneer, ensure that the total thickness of any drywall compound, adhesives, and the finishing substrate itself does not exceed 3mm (1/8”). For wood veneer finishes, use only 20mil (0.5mm) veneer with paper backing.

10. Apply a second coat of topping compound covering the entire surface of the speaker and all adjoining surfaces.

11. Compound buildup on the active surface of the speaker should not exceed 3mm (1/8”).

12. Detail the compound to minimize tool marks.

13. Allow each layer to fully cure. This can take 12–24 hours.

14. Build more coats as necessary to achieve desired finish. Each successive coat should be thinner than the last. The final coat should be a very light skim coat application.
15. After final coat is applied and has dried, use a manual pole sander or block sander on entire wall (do not use a power sander as this could damage the surface of the speaker). Be careful not to sand down into the surface of the speaker. This could damage the paper which makes perfect blending very difficult to achieve. Wall surface should show no signs of a speaker.

16. Validate the finish thickness using the Sonance DISC system and DG-1 depth gauge (SKU 93491).

17. The final step is to once again perform an audio test. Listen to each speaker and verify that audio quality and performance have not significantly changed since your initial listening test just prior to the finishing stage. Now is the best time to fix any audible anomalies or surface imperfections.

After listening validation, your Sonance Invisible speaker installation is now complete. From this point, follow your normal method for final finishing with flexible materials such as paint, wallpaper, veneer, and so on.
**TECHNICAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Wave Flex Drive Unit</th>
<th>IS6 Full-range Speaker</th>
<th>IS8 Full-range Speaker</th>
<th>IS10 Full-range Speaker</th>
<th>IS10W Woofer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20in² (127cm²) bending wave diaphragm 1.75&quot; (44mm) voice coil</td>
<td>29in² (188cm²) bending wave diaphragm 1.75&quot; (44mm) voice coil</td>
<td>29in² (188cm²) bending wave diaphragm 1.75&quot; (44mm) voice coil</td>
<td>-</td>
</tr>
<tr>
<td>Air Flex Woofer</td>
<td>98in² (633cm²) air pulse diaphragm 6.5&quot; (165mm) carbon fiber woofer</td>
<td>191in² (1234cm²) air pulse diaphragm 8&quot; (203mm) carbon fiber woofer</td>
<td>244in² (1573cm²) air pulse diaphragm 10&quot; (254mm) carbon fiber woofer</td>
<td>244in² (1573cm²) air pulse diaphragm 10&quot; (254mm) carbon fiber woofer</td>
</tr>
<tr>
<td>Frequency Response (±3dB)</td>
<td>50Hz–30kHz</td>
<td>40Hz–30kHz</td>
<td>35Hz–30kHz</td>
<td>35Hz–250Hz</td>
</tr>
<tr>
<td>Nominal Impedance (Ohms)</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
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<tr>
<td>Power Handling (RMS)</td>
<td>100W</td>
<td>160W</td>
<td>200W</td>
<td>200W</td>
</tr>
<tr>
<td>Sensitivity (2.83V/1m)</td>
<td>84dB</td>
<td>86dB</td>
<td>87dB</td>
<td>87dB</td>
</tr>
<tr>
<td>Dispersion</td>
<td>170° hemispherical up to 10kHz</td>
<td>170° hemispherical up to 10kHz</td>
<td>170° hemispherical up to 10kHz</td>
<td>180° hemispherical</td>
</tr>
<tr>
<td>Overload Protection</td>
<td>Two independent self-resetting poly switches</td>
<td>Two independent self-resetting poly switches</td>
<td>Two independent self-resetting poly switches</td>
<td>One self-resetting poly switch</td>
</tr>
<tr>
<td>Product Dimensions (WxHxD)</td>
<td>16.10” x 16.10” x 3.15” (409mm x 409mm x 80mm)</td>
<td>16.10” x 24.13” x 3.15” (409mm x 613mm x 80mm)</td>
<td>16.10” x 28.66” x 3.15” (409mm x 728mm x 80mm)</td>
<td>16.10” x 24.13” x 3.15” (409mm x 613mm x 80mm)</td>
</tr>
<tr>
<td>Mounting Depth</td>
<td>2.68” (68mm)</td>
<td>2.68” (68mm)</td>
<td>2.68” (68mm)</td>
<td>2.68” (68mm)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>31.7lbs (14.4kg) /Pair</td>
<td>42.4lbs (19.2kg) /Pair</td>
<td>47.4lbs (21.5kg) /Pair</td>
<td>22.3lbs (10.1kg) /Each</td>
</tr>
</tbody>
</table>
FREQUENTLY ASKED QUESTIONS

Can Invisible Series speakers be installed in the ceiling or just in walls?
Sonance IS speakers can be installed in both walls and ceilings.

Where is the best place to locate the speakers?
If installing into walls, make sure they are at least 7’ (2.13m) from the floor. In ceilings, evenly space the speakers for optimal coverage, and avoid corners if possible. Contact Sonance Tech Support / Design Services for help with speaker layout planning.

What is the minimum depth requirement?
Minimum depth without enclosure = ~2.75” (70mm)
Minimum depth with enclosure = ~3.5” (90mm)

Can IS speakers be used in a plenum space?
Only models with a “T” suffix such as the IS8T are rated for plenum use (UL2043). The standard models (IS6/IS8/IS10/IS10W) are not plenum rated.

Can these speakers be installed in a T-Bar ceiling?
Theoretically yes. Consult with the manufacturer of the T-Bar ceiling in question to ensure the max load is within safe limits for the aggregate weight of the IS speakers you wish to install.

Can these be used outside?
Sonance invisible speakers are not outdoor rated and should not be used outside.

Can these be used in high heat or high humidity applications?
Invisible speakers should not be directly exposed to high heat or humidity. However you may use finishing materials that are rated for high heat and humidity exposure, provided that they form a barrier that prevents exposure to the speakers. We highly recommend you perform a mock-up trial of the finish materials, speaker, and environment to validate the performance long-term.

What finish materials can I use with invisible speakers? Can these be covered with wallpaper or wood veneer?
Use flexible materials such as: slow-setting, lightweight drywall compounds, wallpaper, wood veneer, vinyl veneer, acrylic-based venetian plaster. See page 14 for more details.

Are there materials that should not be used to cover the speakers?
Any material that is stiff, inflexible, or exceeds 3mm (1/8”) in total thickness over the speaker diaphragm such as tile, metal sheet, stone veneer, true Venetian plaster, stucco, etc. These are not compatible with invisible speakers. The stiffness of materials like these restrict movement and result in lack of bass and muffled sound.

How much finish material can go over the speaker?
We recommend 1.0mm to 1.5mm for optimal performance. The maximum limit is 3mm (1/8”).

How can I tell how much finish material is covering the speaker?
Use the Sonance DG-1 depth gauge (SKU 93491) to measure actual finish thickness covering Sonance invisible speakers.

What is the DISC system?
The Sonance DISC System provides a highly accurate method for non-destructively quantifying the thickness of a finish applied on top of a Sonance invisible speaker diaphragm. The Sonance DG-1 handheld depth gauge uses a magnetic sensor to measure the distance between the top of the finished speaker and steel discs embedded in all four corners behind the speaker diaphragm of Sonance Motion Flex Invisible Speakers.

What if I add too much finish material?
Prior to the final finishing stage (such as painting), sand down the wall or ceiling surface and measure the finish thickness using the DG-1 depth gauge. Repeat as necessary until you measure 3mm or less. We recommend 1.0mm and 1.5mm for optimal performance.

Is there a benefit to “Finish Up To” rather than “Finish Over”?
There is no practical benefit to a Finish Up To style finish. In fact, we recommend Finish Over because it typically takes less installation time and results in a more seamless, shadowless final finish. Furthermore, IS speakers are optimized for about 1.0mm to 1.5mm of finish material for best performance.

What happens if the mud or finish cracks?
Mud/finish cracks are indicative of either an improperly applied finish or invisible speakers that have been regularly overdriven. Though the integrated poly fuses mitigate against damage, they cannot protect against every type of abuse. Remember, just like traditional speakers, invisible speakers have their limit. However, the difference is when a traditional speaker fails due to over-exertion, only the speaker is damaged; whereas with invisibles, the finish can sometimes be damaged as well.

Though it is rare, if a crack occurs, Sonance will help troubleshoot the issue on a case-by-case basis. We typically start by inspecting the finish process. In most cases, the finish was applied too thick (outside of our specifications). With our new DISC system, we have the ability to prevent these types of failures before they even happen by identifying and correcting at the installation phase. This is why we highly recommend taking advantage of the DISC system during installation to prevent problems down the road.

Can I use other than Sonance DSP amplifiers?
Yes, but we highly recommend Sonance DSP amps due to the built-in DSP preset curves. Pay close attention to Sonance IS speaker rated RMS power handling and select an amplifier whose maximum RMS watts per channel closely matches or is less than the IS speaker’s rated power handling. If the amplifier’s power capabilities exceed those of the speakers, damage to the speaker or installed finish may occur if the speaker is overdriven. For Sonance IS woofers and subwoofers, always use a Sonance DSP amplifier to drive them.
Are these suitable for surround sound?
Motion Flex invisible speakers can be used in surround sound applications. Always use a subwoofer and an 80Hz high pass filter applied to the invisible speakers in surround sound applications. Use the built-in room-correction of the AV receiver/surround processor for best performance.

Are Sound-Isolating Enclosures required?
No. They are optional.

What’s the benefit of Sound-Isolating enclosures?
IS sound-isolating enclosures provide an impressive broadband noise reduction of about 20dB which greatly reduces sound transference into adjacent spaces.

Are Sound-Isolating Enclosures UL rated?
No.

I lost the screws. What is the spec or do I have to buy them from Sonance?
Use stainless steel #6 drywall screws in the appropriate length depending upon drywall/installation substrate panel thickness and local codes.

I lost the shims. How can I get more? Do I have to buy them from Sonance?
Use standard drywall shims available from your local hardware store.

Is there a protection circuit built into the speaker or do they need to be added?
Every full-range speaker in the lineup (IS6/IS8/IS10) has dual, self-resetting poly fuses: one dedicated to each transducer. The woofers have a single poly fuse. If a speaker is overdriven, one or both of the poly fuses will trip, and the transducers will cease to make sound which protects both the driver and the installation surface from damage in overdrive conditions. After a few minutes, the fuses will reset, and the speakers will perform as normal. If the poly fuses are tripping, that’s a sign that the speakers are being overdriven, and you should decrease the volume. If you want more volume, add additional invisible speakers to your space.

What is the warranty on IS invisible speakers, and what does the warranty cover?
The IS Year limited warranty covers the cost to replace the speaker(s) and refinishing up to level 5 drywall finish.
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. **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 (RMA) 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. Please do not write the RMA number directly on the carton.

6. Ship to:
   Attn: Quality Assurance Department
   RMA# (include RMA number here)
   Sonance
   11016 Mulberry Ave, Suite B
   Fontana, CA 92337
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: IS6/IS8/IS10/IS10W 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.

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