Introducing the Sonance Professional Series

From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark in sound 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.

Sonance Professional Series PS-S83WT Surface-Mount Woofer features the Patented FastMount® bracket and front cable connection to speed up the installation process and provide a clean appearance.

The IPX4 rated construction features a weatherproof high-impact, extreme temperature resistant cabinet and corrosion-proof powder coated aluminum grille, lending itself perfectly in both indoor and outdoor applications.

An ultra-high-excursion 8” polypropylene woofer delivers effortless and impactful low bass extension and augmentation, at any sound pressure level.

Additionally, the Sonance PS-S83WT is certified for UL 1480.

Available in either black or white (paintable).

Features & Benefits

Performance
- Class-leading sensitivity & sonic performance
- Exceptional off-axis response
- Heavy-duty voice coil for longevity and reliability
- Full-fidelity transformer for uncompromised 70V/100V tonality
- Consistent voicing across product range

Aesthetics
- Clean and minimalistic design
- Available in black or white (paintable)

Installation
- FastMount® bracket system for easy installation
- Front-located cable connector and tap selector
- Connector and tap selector cover
- Corrosion-resistant powder coated aluminum grille

Applications
- Shopping Malls, Retail Spaces & Showrooms
- Restaurants, Bars & Lounges
- Galleries, Museums & Amusement Parks
- Casinos, Convention Centers & Hotels
- Houses of Worship & Educational Facilities
- Sporting Facilities
- Marinas, Piers & Wharfs
Specifications

**PS-S83WT WHITE**
SKU# 40146 (WHITE)

**PS-S83WT BLACK**
SKU# 40151 (BLACK)

**LOUDSPEAKER**
- **Frequency Range (-10dB):** 32Hz – 300Hz
- **Frequency Range (-3dB):** 50Hz – 150Hz
- **Power Capacity:** 200 Watts Continuous Program Power
  125 Watts Continuous Pink Noise
- **Nominal Sensitivity:** 88dB
- **Nominal Coverage Angle:** 180 degrees x 180 degrees coverage
- **Directivity Factor (Q):** N/A
- **Directivity (DI):** N/A
- **Rated Maximum SPL:** 110dB @ 1 meter (3.3 feet) average, 116dB peak
- **Rated Impedance:** 8 Ohms nominal, 6 Ohms minimum
- **Transformer Taps:** 70V: 120W, 60W, 30W and 15W
  100V: 120W, 60W and 30W
- **Crossover Point:** 150Hz
- **Overall Dimension:** 14.02” Height x 9.01” Width x 8.58” Depth
  (356mm x 229mm x 218mm)
- **Net Weight:** 16.08 lbs (7.62kg) each
- **Shipping Weight:** 21.49 lbs (9.75kg) each
- **Unit of Measure:** Each
- **Color:** Black or White
- **Grille:** Powder Coated Aluminum Friction Fit

**TRANSUDERS**
- **LF Driver:** 8” (203mm) Polypropylene Cone, Butyl Rubber Surround
- **HF Driver:** N/A

**ENCLOSURE**
- **Input Connectors:** Front-mounted four pin, Euroblock with loop output connections
- **Safety Agency:** UL 1480, UL 2239, NFPA 70
- **Mounting Bracket:** U-Bracket with Sonance FastMount
- **Environmental & UV:** Conforms to MIL-STD-810 for humidity, salt spray, temperature, IEC 529 IPX4 splash-proof rating

**Included Accessories**
- Euroblock Connector x 1
- FastMount Bracket x 1
- Terminal Cover x 1
- Grille x 1

**Optional Accessories**
- Replacement Grille White (pair) | 93166
- Replacement Grille Black (pair) | 93167
Performance Measurements

**1 METER ON AXIS FREQUENCY RESPONSE**

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**IMPEDEANCE vs FREQUENCY**

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**1 METER HORIZONTAL FREQUENCY RESPONSE**

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Performance Measurements

**BEAMWIDTH vs FREQUENCY**

- **Horizontal**
- **Vertical**

**DIRECTIVITY INDEX vs FREQUENCY**

**1 METER VERTICAL FREQUENCY RESPONSE**

- 0 deg
- 10 deg
- 20 deg
- 30 deg
- 40 deg
Polar Plots (1/3 Octave)

**RATIO vs ANGLE**

- **Curve**
  - 103.00 360 1.0 8.0
  - 123.00 360 1.0 8.0
  - 168.00 360 1.0 8.0
  - 200.00 360 1.0 8.0

**RATIO vs ANGLE**

- **Curve**
  - 250.00 360 1.0 8.0
  - 315.00 360 1.0 8.0
  - 400.00 220 1.0 2.0
  - 500.00 167 2.0 3.2

**RATIO vs ANGLE**

- **Curve**
  - 630.00 178 2.0 3.1
  - 800.00 153 2.4 3.7
  - 1.00K 102 3.5 5.5
  - 1.25K 116 3.1 4.9

**RATIO vs ANGLE**

- **Curve**
  - 4.00K 55 6.6 8.2
  - 5.00K 36 9.9 10.0
  - 6.30K 62 5.8 7.7
  - 8.00K 29 12.4 10.9

**RATIO vs ANGLE**

- **Curve**
  - 1.60K 113 3.2 5.0
  - 2.00K 76 4.7 6.7
  - 2.50K 69 5.2 7.2
  - 3.15K 80 4.5 6.5

**RATIO vs ANGLE**

- **Curve**
  - 10.00K 36 9.9 10.0
  - 12.50K 25 14.1 11.5
  - 16.00K 15 24.8 13.9
  - 20.00K 4 99.0 20.0
Polar Plots (1/3 Octave)
Dimensional Sketches
Specifications

**PS-S83WT Loudspeaker**
- Height: 14.02” (356mm)
- Width: 9.01” (229mm)
- Depth: 8.58” (218mm)

**S8 Mounting Bracket**
- Height: 14.528” (369mm)
- Width: 4.527” (115mm)
- Depth Wall Mount: 9.37” (238mm)
- Depth Ceiling Mount: 10.315” (262mm)
Architectural Specifications

The loudspeaker shall be of the two-way type comprising a single surface-mount injection-molded ABS enclosure containing one 8” (203mm) polypropylene cone, butyl rubber surround, ultra-high excursion low frequency transducer. It shall utilize a powder coated corrosion-resistant aluminum grille with friction-fit. Frequency range shall be 50Hz – 150Hz (-3dB). Total power handling shall be 125 Watts continuous pink noise and 200 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 50Hz – 150Hz shall be 88dB. 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 120W, 60W, 30W, and 15W (70V) and an 8 Ohm bypass. The speaker shall include a FastMount bracket that allows for a full 180° of pivot while keeping the speaker less than 1” from the mounting surface. Wire shall be terminated on the front of the enclosure via a four-pin Euroblock connector with loop-through and fed through a Protected Access Connection Terminal.

Safety Agency Compliance

Sonance Professional Series In-Ceiling Speaker are compliant with:


NFPA 70: 2002 National Electrical Code

ENVIRONMENTAL AND UV: Conforms to Mil Spec 810 for humidity, salt spray, temperature, IEC 529 IP-X4 splash-proof rating.

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.
## Associated Products

### In-Ceiling Speakers

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### Pendant Speakers

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### Surface Mount Speakers

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### Surface Mount Speakers

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