

PROFESSIONAL SERIES

PENDANT SPEAKER PS-P83T



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-P83T Pendant Speaker utilizes a minimalistic design similar to pendant lighting to blend discretely into the environment, and take advantage of the same one-piece grille design as the In-Ceiling Speakers to deliver consistent sight lines when installed in the same space.

The integrated top cover hides the hanging hardware and wiring connector.

A high-excursion 8" 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.

Additionally, the Sonance PS-P83T is certified for UL 1480 and UL 2239.

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 tonality
- Consistent voicing across product range

Aesthetics

- Clean elegant design inspired by pendant lighting
- Connector and hanger top cover to hide hardware
- Available in black or white (paintable)

Installation

- Magnetic grille retention for fast installation and removal
- Front-mounted finger-adjustable selector tap
- Hanging hardware supplied

Applications

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



BLACK OR WHITE OPTION

Specifications



PS-P83T
WHITE **PS-P83T**
BLACK

LOUDSPEAKER

Frequency Range (-10dB):	41Hz – 25kHz
Frequency Range (-3dB):	55Hz – 20kHz
Power Capacity:	160 Watts Continuous Program Power 80 Watts Continuous Pink Noise
Nominal Sensitivity:	90dB
Nominal Coverage Angle:	120 degrees conical coverage
Directivity Factor (Q):	7.6
Directivity (DI):	8.1dB
Rated Maximum SPL:	110dB @ 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 100V: 60W, 30W and 15W
Crossover Point:	2750Hz
Overall Dimension:	11.06" Diameter x 19.7" Depth (281mm x 500mm)
Net Weight:	16.26 lbs (7.38kg) each
Shipping Weight:	46.97 lbs (21.31kg) pair
Unit of Measure:	Pair
Color:	Black or White
Grille:	Bezel-less magnetically retained grille

TRANSDUCERS

LF Driver:	8" (203mm) Polypropylene Cone, Butyl Rubber Surround
HF Driver:	1" (25mm) Cloth Dome, Pivoting, Ferrofluid cooled

ENCLOSURE

Input Connectors:	Four pin, Euroblock with loop output connections
Safety Agency:	UL 1480, UL 2239, NFPA 70
Suspension Points:	Five points, top mounted

Included Accessories

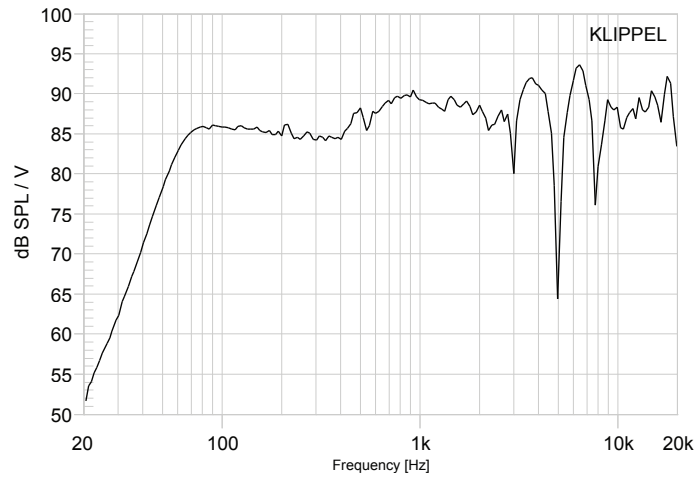
- Euroblock Connector x 2
- 16.4' (5m) Stainless Steel Cable with Snap Hook x 4
- Gripple® Hanger x 4
- Gripple® Adjustment Tool x 2
- Weather Boot x 2
- Grille x 2

Optional Accessories

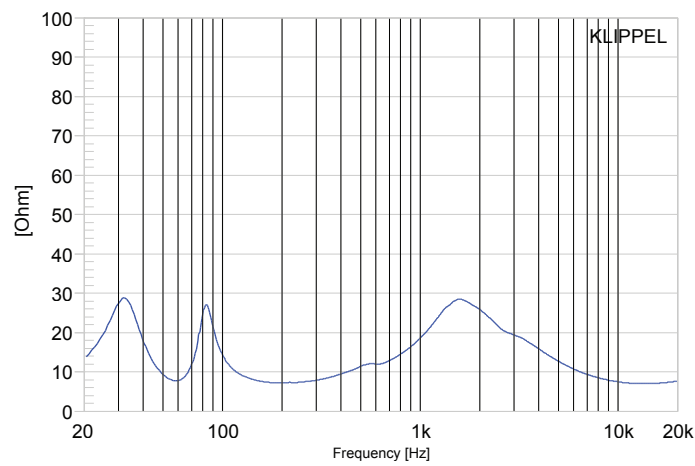
- Replacement Round Grille White (pair) | 40154
- Replacement Round Grille Black (pair) | 40157
- Replacement Hanging Hardware Kit | 40176

Performance Measurements

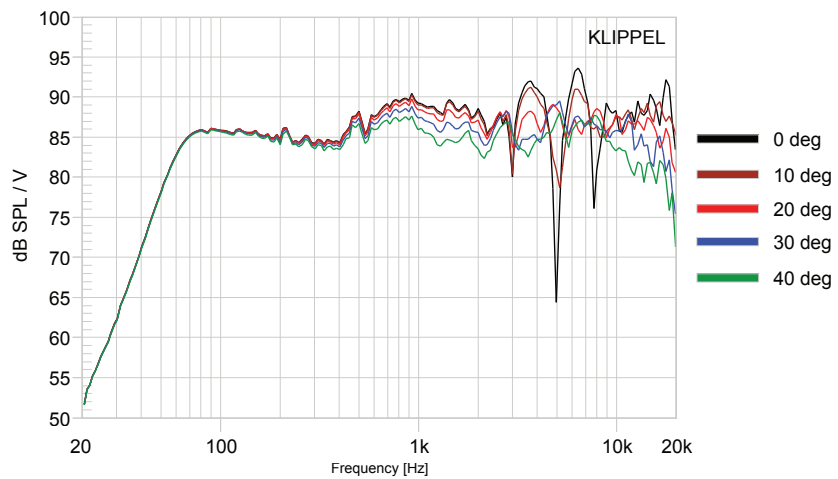
1 METER ON AXIS FREQUENCY RESPONSE



IMPEDANCE vs FREQUENCY

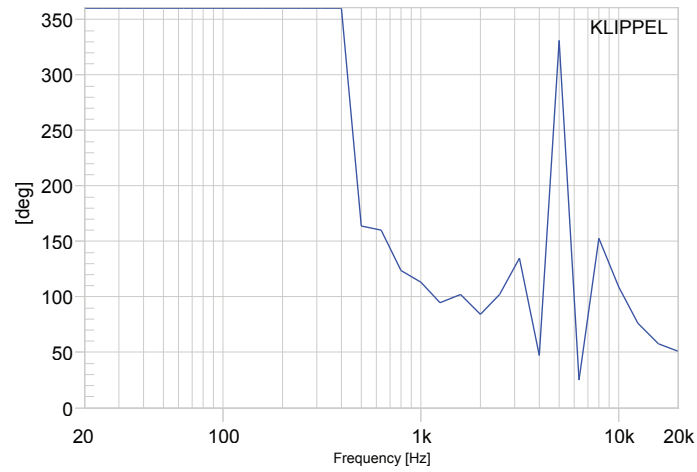


1 METER HORIZONTAL FREQUENCY RESPONSE

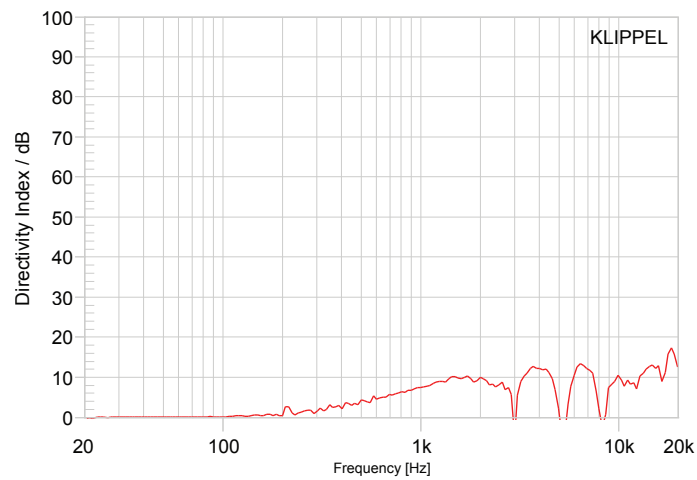


Performance Measurements

BEAMWIDTH vs FREQUENCY

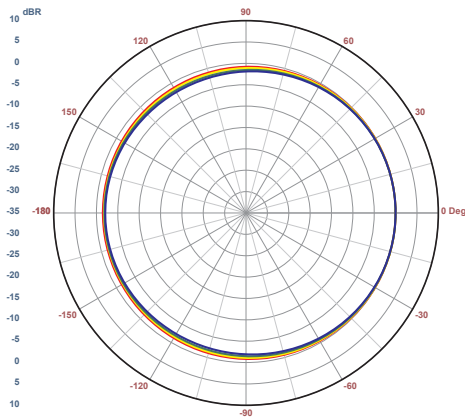


DIRECTIVITY INDEX vs FREQUENCY



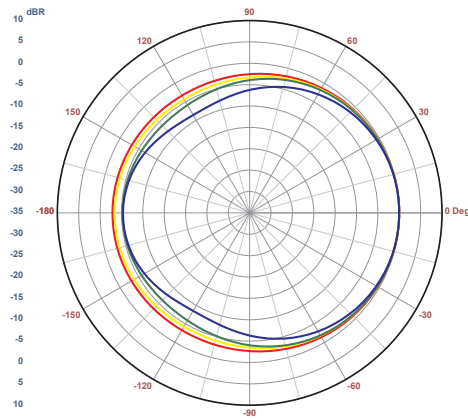
Polar Plots (1/3 Octave)

RATIO vs ANGLE



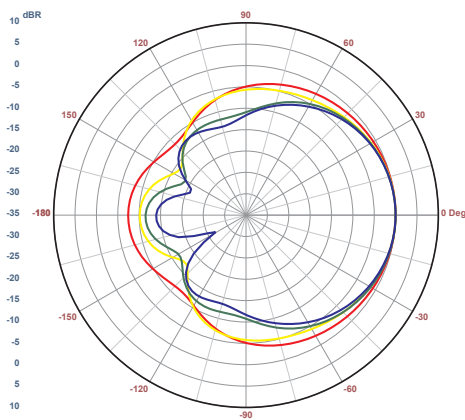
Curve	Freq	BW	Q	DI
Red	100.00	360	1.0	0.0
Yellow	125.00	360	1.0	0.0
Green	160.00	360	1.0	0.0
Blue	200.00	360	1.0	0.0

RATIO vs ANGLE



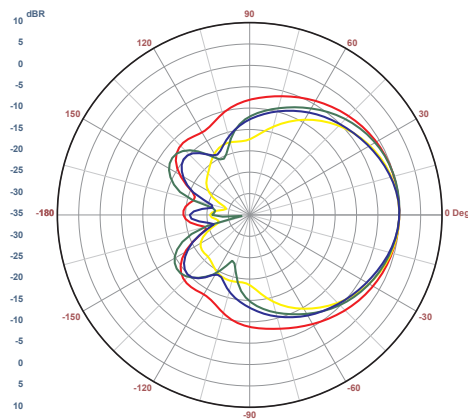
Curve	Freq	BW	Q	DI
Red	250.00	360	1.0	0.0
Yellow	315.00	360	1.0	0.0
Green	400.00	244	1.5	1.7
Blue	500.00	171	2.1	3.2

RATIO vs ANGLE



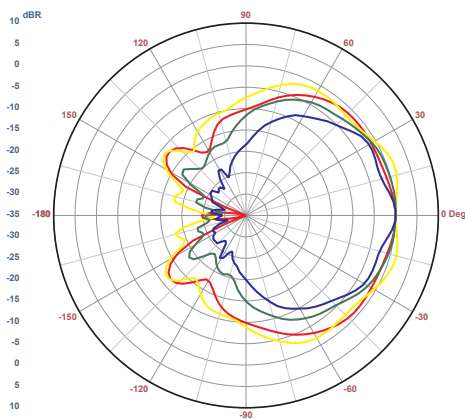
Curve	Freq	BW	Q	DI
Red	630.00	193	1.9	2.7
Yellow	800.00	185	1.9	2.9
Green	1.00K	127	2.8	4.5
Blue	1.25K	116	3.1	4.9

RATIO vs ANGLE



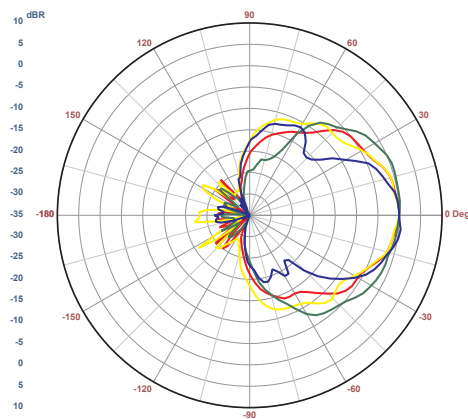
Curve	Freq	BW	Q	DI
Red	1.60K	135	2.7	4.3
Yellow	2.00K	91	4.0	6.0
Green	2.50K	105	3.4	5.3
Blue	3.15K	95	3.8	5.8

RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	4.00K	142	2.5	4.0
Yellow	5.00K	160	2.3	3.5
Green	6.30K	116	3.1	4.9
Blue	8.00K	91	4.0	6.0

RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	10.00K	76	4.7	6.7
Yellow	12.50K	58	6.2	7.9
Green	16.00K	95	3.8	5.8
Blue	20.00K	51	7.1	8.5

Dimensional Sketches Specifications

PS-P83T Loudspeaker

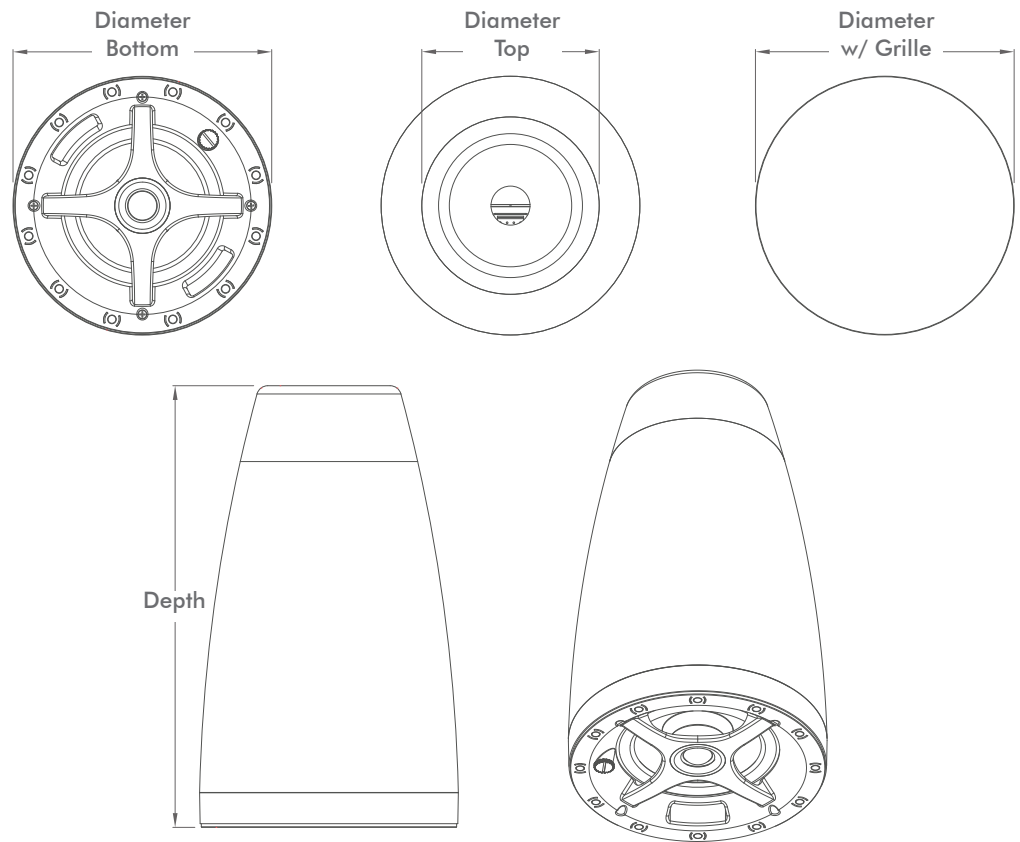
Diameter:
Bottom: 11.06" (281mm)

Diameter
Top: 5.791" (147mm)

Depth: 19.7" (500mm)

With Grille

Diameter: 11.06" (281mm)



Architectural Specifications

The loudspeaker shall be of the two-way type comprising a pendant-style injection-molded ABS enclosure containing one 8" (203mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted 1" (25mm) cloth dome, chambered and pivoting, ferrofluid cooled high frequency transducer. It shall utilize a powder coated steel, bezel-less grille that is retained magnetically. Frequency range shall be 55Hz – 20KHz (-3dB). Total power handling shall be 80 Watts continuous pink noise and 160 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 55Hz – 20KHz shall be 90dB. 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, and 7.5W (70V) and an 8 Ohm bypass. The top of the enclosure shall

include a 5-point hanging mount and four-pin Euroblock connector with loop-through, both of which shall be hidden by a removable integrated top cover. The system shall be certified for UL 1480 (UEAY) and UL 2239 and include UL listed hanging hardware and secondary hardware for safety redundancy, Euroblock connector and weather-resistant terminal boot. External dimensions shall be 11.06" Diameter x 19.7" Depth (281mm x 500mm). The total enclosure shall weigh 10 lbs. (4.53 kg) per unit. It shall share consistent voicing with other form factors and sizes within its product family so as to provide continuity of sonic signature when combined within a project. The loudspeaker shall be the Sonance Professional Series PS-P83T. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

Safety Agency Compliance

Sonance Professional Series In-Ceiling Speaker are compliant with:

UL 1480: Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

UL 2239: Standard For Safety **Hardware for the Support of Conduit, Tubing, and Cable**

NFPA 70: 2002 National Electrical Code



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, wether based upon warranty, contract, negligence, strict product liability or other theory.

Associated Products

In-Ceiling Speakers

PS-C43RT In-Ceiling Speaker	40130
PS-C63RT In-Ceiling Speaker	40131
PS-C83RT In-Ceiling Speaker	40132
PS-C83RWT In-Ceiling Speaker	40133

Pendant Speakers

PS-P43T Pendant Speaker White	40134
PS-P63T Pendant Speaker White	40135
PS-P83WT Pendant Speaker White	40137
PS-P43T Pendant Speaker Black	40138
PS-P63T Pendant Speaker Black	40139
PS-P83WT Pendant Speaker Black	40141

Surface Mount Speakers

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
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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: www.sonance.com

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