

DS31-EZ PRODUCT SPECIFICATIONS

System Type	3" Wide-Range Pendant Speaker with Multiple Colors and Style Options
Impedance (Nominal) ¹	8 ohm
Sensitivity dB @ 2.83 V / 1 M	87.1 dB
Sensitivity dB @ 1 W / 1 M ²	87.1 dB
Frequency Response (±3 dB) ³	185 Hz- 16 kHz
Frequency Response (±10 dB) ³	112 Hz - 16 kHz
Max. Program Power ⁴	30 W
Max. Continuous Power RMS ⁵	60 W
Max. SPL dB @ 1 M ⁶	97.2 dB
Coverage Angle (±6 dB @ 2 kHz)	115°
Coverage Angle (±6 dB @ 10 kHz)	60°
Coverage Angle (Avg. 2-10 kHz)	90°
Directivity Index (DI)	4.4 dB (Averaged 100 Hz - 10 kHz) 6.6 dB (2 kHz)
Tap Selector	Six-position rotary switch with transformer bypass position
Transducer: Low-Frequency Driver	3.00" Full-Range Polycone with rubber surround
Enclosure Material	Molded ABS
Grille	Steel Powder Coated with Magnetic Attachment
Inputs	Wire leads
Colors	Metallic Black, White, and Silver
Height	7.5 in / 190.5 mm Internal Body only 8.25 in / 209.6 mm with Tapered Sleeve 8.5 in / 215.9 mm with Cylindrical Sleeve
Diameter	4.5 in / 114.3 mm Internal Body only 4.75 in / 120.7 mm with Tapered Sleeve 5.5 in / 139.7 mm with Cylindrical Sleeve
Weight	2.4 lbs / 1.1 kg Internal Body only 2.8 lbs / 1.3 kg with Tapered Sleeve 3.4 lbs / 1.5 kg with Cylindrical Sleeve
Shipping Weight	6 lbs / 2.7 kg
Packaging	One per box
Included Accessories	Hanging Hardware
Optional Accessories	Hanging Hardware, Magnetic Grille, slide-on Designer Sleeve, Wire Nuts
Certifications	CE, RoHS
TAA Compliant (Trade America)	No
BAA Compliant (Made in USA)	No

¹ Impedance listed per IEC 60268-5 with a minimum less than 80% the nominal impedance

² 1 W/1 M sensitivity determined using nominal impedance

³ Frequency response measured in half or full space as dictated by speaker mounting configuration

⁴ Max program power is 3 dB above max continuous power

⁵ Continuous power rating, EIA-426-B test

⁶ Max output based on max continuous power



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DESIGNER SLEEVE

Description

The Designer Sleeve DS31-EZ pendant speakers were developed to offer varying aesthetic options for near space applications that require a design element to meet décor needs. The speaker can be used with or without the sleeve based on the desired look with multiple contemporary slide-on sleeves to match any aesthetic. The speakers blend well with drop lighting and are available in silver (DS31-EZ-SL), black (DS31-EZ-BK), and white (DS31-EZ-WH).

Features

- Full-range pendant speaker with multiple color and style options
- Hanging hardware included
- Powder-coated seamless magnetic grille
- Three color options available: Black, White, or Silver
- Two sleeve options available: Tapered or Cylindrical (Cylindrical Sleeve has two configurations)



Cylinder Sleeves

Choose from
2 different
sleeve styles
and
3 different
colors



Tapered Sleeves

Transformer Taps

70.7 V	Output	100 V	Output	25 V	Output
33 W	103.5 dB	33 W	103.5 dB	5 W	95.5 dB
17 W	101 dB	17 W	101 dB	2.5 W	93.5 dB
9 W	98 dB	9 W	98 dB	1.3 W	89.5 dB
6 W	96.5 dB	6 W	96.5 dB	0.63 W	86.5 dB
3 W	93.5 dB				

Architectural Specifications[Add info](#)**SoundTube®**

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All SoundTube speakers come with a 5-year limited warranty and 3-year warranty on all electronics.

Applications[Add info](#)**Patented Technologies**

SoundTube Entertainment and the MSE Audio Group constantly develop new technologies which enhance audio product performance. SoundTube Entertainment innovations are protected by multiple U.S. and international patents, which explicitly cover SoundTube dome, enclosure and dispersion technologies. The MSE Audio Group actively defends its patents in order to protect SoundTube resellers and end-users.

BroadBeam® Wide Dispersion Technology

SoundTube's proprietary BroadBeam technology incorporates a high-frequency waveguide mated to a 1" convex titanium tweeter. The BroadBeam high-frequency waveguide delivers a consistent dispersion pattern across the upper registers of the frequency spectrum (up to 10 kHz, independently verified). The result is better edge-to-edge coverage, reduced power needs, shorter installation time and cost savings on shipping and labor.

Technical Data and Specification Tools

SoundTube Entertainment strives to provide complete and effective technical information and data to dealers, engineers and designers. All data is available from SoundTube Entertainment or at www.soundtube.com.

Technical data and downloads include:

- EASE™ data - 3-D polar plots.
- EASE™ Address - 2-D modeling for distributed systems
- AutoDesk® Revit® software
- Tech Sheets - technical information and architectural specs for system engineers
- SoundTubeSPEC™ - Proprietary speaker placement software

Independent Data Acquisition and Verification

All data for SoundTube speakers is independently collected from and verified by NWAALabs (www.nwaalabs.com) using their proprietary MACH testing system. All data is collected and analyzed according to ASTM, ISO and AES standards using EASERA, TEF and MLSSA. Full balloon data including both phase and magnitude is compiled into a variety of formats including EASE 4.x, GLL and CLF.

Mechanical Drawings

Plots

Graphs

Frequency Response

Phase/Impedance Response

Vertical Beamwidth

Directivity Index (DI)