



Specifications: RS4-EZ

Mounting hardware included

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System Type	4-inch, full-range, open-ceiling, ported (20-watt transformer					
	for 25/70.7/100-volt or voice-coil-direct)					
Impedance (nominal) ¹	8 ohms					
Sensitivity dB @ 2.83 V/1 m	90.0 dB					
Sensitivity dB @ 1 W/1 m ²	90.0 dB					
Frequency Response (- 3 dB) ³	185 Hz - 13 kHz					
Frequency Response (- 10 dB) ³	98 Hz - 22 kHz					
Max. Program Power ⁴	40 W					
Max. Continuous Power RMS ⁵	20 W					
Max. Power SPL @ 1 m ⁶	103.0 dB					
Coverage Angle (-6 dB @ 2 kHz)	160°					
Coverage Angle (-6 dB @ 10 kHz)	60°					
Coverage Angle (averaged 2-10 kHz)	95°					
Directivity Factor (Q)	4.3 (averaged 100 Hz - 10 kHz); 3.8 (2 kHz)					
Directivity Index (DI)	4.9 dB (averaged 100 Hz - 10 kHz); 5.8 dB (2 kHz)					
Tap Selector	Five-position rotary switch with voice coil direct					
Transducer - Full-Range Driver	102 mm (4.0 in.) Paper cone, treated cloth surround					
Voice Coil	20.0 mm (0.79 in.)					
Enclosure Material	Injection molded ABS, glass fiber reinforced					
Grille	Steel with powder-coat finish					
Inputs	Four-pin, 5 mm Euroblock for individual or daisy chain con-					
	nection					
Colors	Black or white (paintable)					
Height	223.5 mm (8.80 in.)					
Diameter	195.6 mm (7.70 in.)					
Weight	1.8 kg (3.9 lbs.)					
Shipping Weight	2.7 kg (6 lbs.)					
Packaging	One per box					
Included Accessories	Hanging hardware, Euroblock connector and terminal					
	weather boot					
Optional Accessories	Surface-mount bracket (AC-RS-SM5)					
Regulatory - UL	UL 2239 (hanging cable) approved					
Regulatory - CE	Approved					
	Transformer Taps					
1 Impedance listed per IEC 60268-5	70.7 V	Output	100 V	Output	25 V	Output
o 1 W/1 m consists the determined using a series	20 W	103.0 dB	20 W	103.0 dB	2.5 W	94.0 dB
2 1 W 1 m sensitivity determined using nomi- nal impedance	10 W	100.0 dB	10 W	100.0 dB	1.0 W	91.0 dB

5 W

2.5 W

97.0 dB

94.0 dB

97.0 dB

0.63 W 88.0 dB

0.31 W 85.0 dB

- nal 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

Key Features

- One 102 mm (4 in.) full-range, treated fiber driver mounted to an ABS baffle.
- Weatherized components for indoor and outdoor applications.
- Includes hanging hardware with galvanized steel cables and integrated $SpeedClamp^{^{\text{\tiny TM}}} \ self-locking \ wire \ grip \ for$ fast, easy and secure installation. Also includes Euroblock connector and terminal weather boot.
- Patented ZeroReflection[™] enclosure technology for optimal sound reproduction and cabinet rigidity.
- Easy access five-position selectable tap switch for 25-, 70.7- and 100-volt applications with voice-coil-direct position simplifies ordering and inventory tracking.
- Steel grille with protective powdercoated finish for lasting durability.
- Average sensitivity of 90.0 dB offers high-output capabilities and reduced amplification costs.
- Optional accessory: AC-RS-SM5 bracket for surface-mount applications.
- High-quality black or white paint finish. Custom paint colors optional.

Description

The RS4-EZ is a 4-inch, full-range, ported speaker with an open-ceiling enclosure design. Hanging hardware is included and features a SpeedClampTM self-locking wire grip for fast, easy and secure installation. SoundTube's customengineered driver and electro-acoustic network deliver high-performance sound in a cost-effective speaker design. The RS4-EZ speaker incorporates a low-profile grille and a five-position tap switch with voice-coil-direct position.

RS4-EZ Open-Ceiling Speaker Technical Information for System Engineers



Applications

Designed for indoor and outdoor background to mid-level SPL applications, the RS4-EZ includes a single-point mounting system for rapid open-ceiling installations with an optional bracket for surface-mount applications. Cost-effective engineering with high-performance sound makes the RS4-EZ speaker ideal for music and paging applications in retail, grocery stores, restaurants, hotels, casinos, museums, trade shows and conference rooms. For applications where additional bass is required, SoundTube's RS1001i-II-T 10-inch subwoofer may be used with bass down to 38 Hz.

Patented SoundTube Technologies

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

Technical Data and Specification Tools

Technical Data

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

Technical data and downloads include:

EASETM data – 3-D polar plots.

 $EASE^{\text{TM}}$ 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

Data Acquisition and Verification

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

Architectural Specifications

The loudspeaker shall consist of a 102 mm (4.0 in.) full-range driver. The voice coil diameter shall be 20.0 mm (0.79 in.).

Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 98 Hz – 22 kHz (-10 dB). Measured sensitivity (2.83-volt input, 1 meter) shall be at least 90.0 dB. The speaker shall have a nominal impedance of 8 ohms. The speaker shall be available for 25-, 70.7- and 100-volt modes and shall include a five-position tap switch with a voice-coil-direct position. Rated power capacity shall be at least 20 watts continuous (RMS) and conform to EIA-426-B testing. Maximum continuous output at 1 meter shall be 103.0 dB.

The transducer shall have a treated fiber cone with a treated cloth surround and shall be mated to an ABS baffle.

Installation and safety attachment for the RS4-EZ shall be by galvanized steel cable affixed to the speaker chassis via an integrated forged-steel clasp with safety gate. The external wiring input connector shall be a four-pin, 5 mm Euroblock for 8 ohm or distributed systems and shall accept from 10 – 22-gauge wire. The system shall be for indoor and outdoor applications and shall have a weather-resistant boot covering all wire connectors.

The enclosure shall be constructed of injection-molded ABS. The grille shall be constructed of powder-coated steel for lasting performance in the elements. Overall cabinet dimensions shall be no

more than 223.5 mm (8.80 in.) in height by 195.6 mm (7.70 in.) in diameter. The RS4-EZ shall weigh no more than 1.8 kg (3.9 lbs.) and shall include hanging hardware, Euroblock connector and weather-resistant terminal boot.

The system shall be the SoundTube RS4-EZ with hanging hardware for both low- and high-impedance applications.

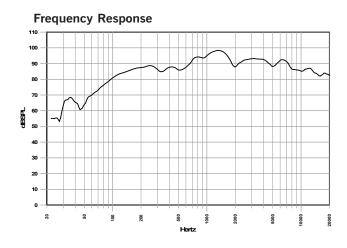
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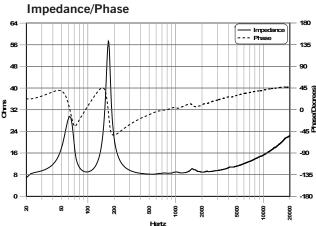
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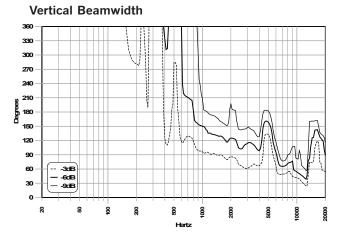
All SoundTube products come with a 5-year limited warranty.

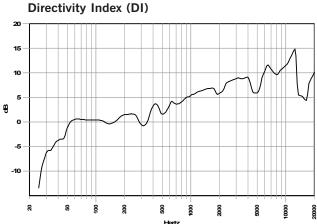


Graphs and Plots



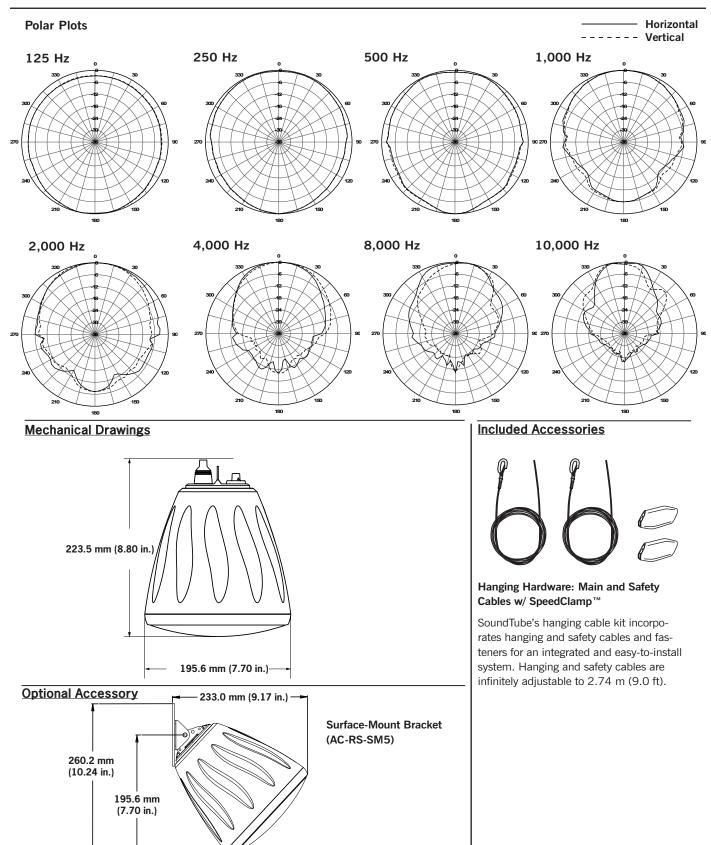






RS4-EZ Open-Ceiling Speaker Technical Information for System Engineers





SoundTube Entertainment manufactures a complete line of speakers for: