

# RS4-EZ

## 4" Full-Range Open-Ceiling Speaker

SOUNDTUBE<sup>®</sup>  
ENTERTAINMENT



### Specifications: RS4-EZ

### Mounting hardware included

System Type	4" Full range, open-ceiling, ported (20 Watt transformer for 25/70.7/100 Volt or voice coil direct)
Nominal Impedance	8 ohm
Impedance (minimum)	6.9 ohm
Sensitivity dB @ 2.83V/1M	90.0dB
Sensitivity dB @ 1W/1M (2)	90.0dB
Frequency Response ( $\pm 3$ dB)	185 Hz - 13 kHz
Frequency Response ( $\pm 10$ dB)	98 Hz - 22 kHz
Max. Program Power	40w
Max. Continuous Power RMS	20w
Max. Power SPL @ 1 M	103.0dB
Tap Selector	5 Position rotary switch with transformer bypass
70.7 Volt Transformer Taps	20w / 103.0dB
100 Volt Transformer Taps (dB)	20w / 103.0dB
25 Volt Transformer Taps (dB)	2.5w / 94.0dB
Transformer Options	25 / 70.7 / 100 Volt option with a 8 Ohm direct
Colors	Black or white
Port length	2.84 in
Tweeter - part	4" Extended-Range Paper Cone
Woofer - part	4" Full-Range
Inputs	4 Pin, 5.08 mm Euroblock for individual or daisy chain connection
Height (SM = Height)	223.5 mm / 8.79 in
Diameter (SM = Width)	195.6 mm / 7.70 in
Weight	1.8 kg / 3.96 lb
Shipping Weight	2.7 kg / 5.95 lb
Accessories Optional	Surface-Mount Bracket (AC-RS-SM5), Split Loom Tubing (AC-SLT-10), bracket for surface mount applications (AC-RS-SM5), Hanging Kit (AC-RS-HH-10), Hanging Kit (AC-RS-HH-20), Hanging Kit (AC-RS-HH-50), Forged Eyebolt (AC-FE1), Snap Link (AC-SL-1)
Packaging	1 per box
Regulatory - UL	not planned
Regulatory - CE	Approved

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# RS4-EZ

4" Full-Range Open-Ceiling  
Speaker

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## Specifications: RS4-EZ

Regulatory - IP

Regulatory - CCC

## Mounting hardware included

not planned

approved

# RS4-EZ

## 4" Full-Range Open-Ceiling Speaker

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### Key Features

- One 4 inch (102 mm) 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™ 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 transformer bypass 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.
- UL 2239 (hanging cable) approved
- High-quality black or white paint finish. Custom colors available.
- Optional accessory: AC-RS-SM5 bracket for surface-mount applications.

### Description

One 4 inch (102 mm) full-range, treated fiber driver mounted to an ABS baffle. Includes hanging hardware with galvanized steel cables and integrated SpeedClamp™ 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 transformer bypass position simplifies ordering and inventory tracking. Steel grille with protective powder-coated finish for lasting durability. Average sensitivity of 90.0 dB offers high-output capabilities and reduced amplification costs. UL 2239 (hanging cable) listed.

### 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.

### Patented SoundTube Technologies

SoundTube and MSE Audio Group constantly develop new technologies that enhance audio product performance. SoundTube 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](http://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

#### Data Acquisition and Verification

All data for SoundTube speakers are independently collected from and verified by NWAA Labs ([www.nwaalabs.com](http://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 transformer bypass 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 speaker 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, 5.08 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 unit 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.

## SoundTube

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

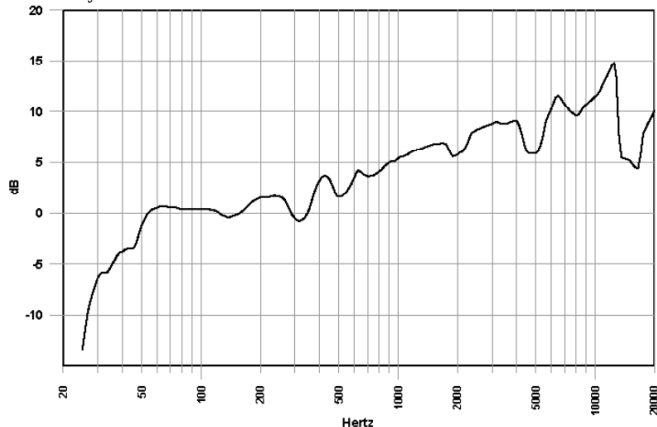
# RS4-EZ

4" Full-Range Open-Ceiling  
Speaker

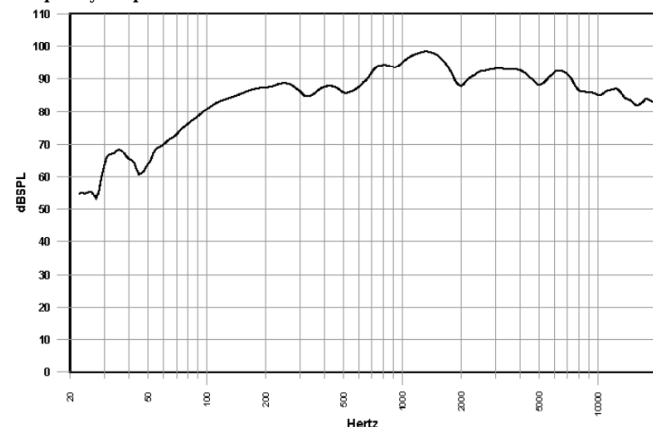
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## Graphs and Plots

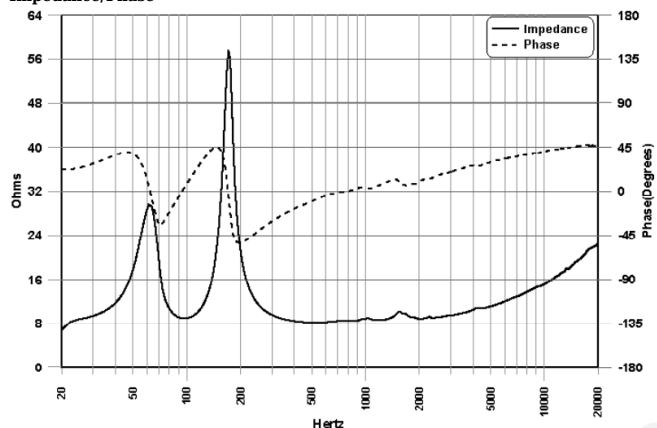
Directivity Index



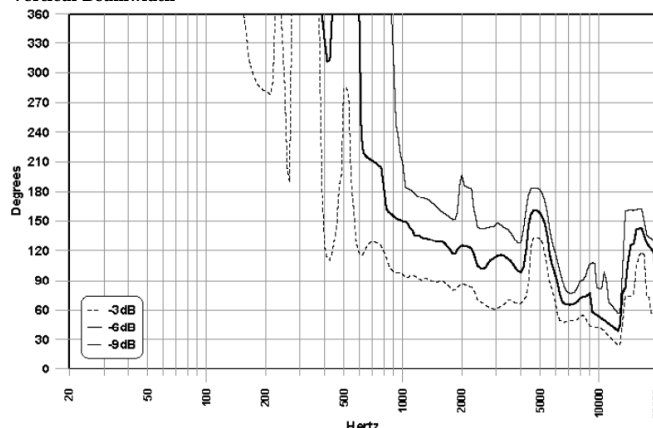
Frequency Response



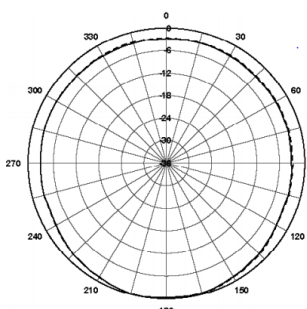
Impedance/Phase



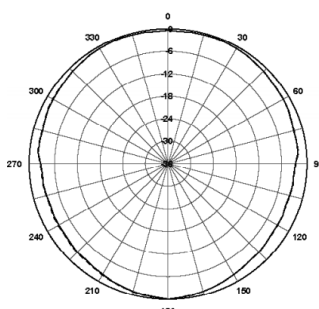
Vertical Beamwidth



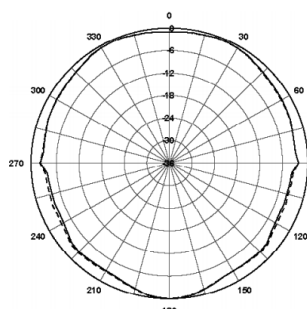
125 Hz



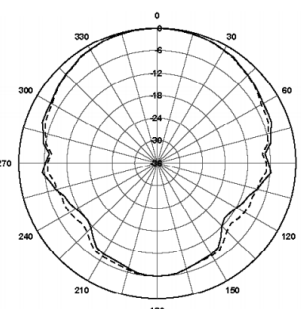
250 Hz



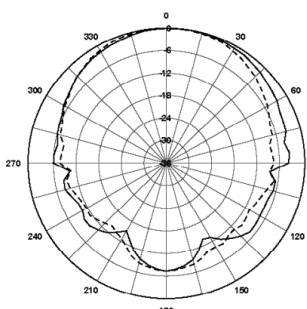
500 Hz



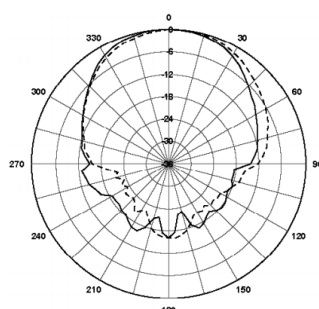
500 Hz



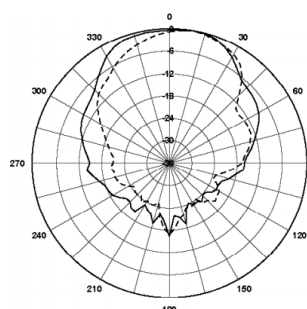
2000 Hz



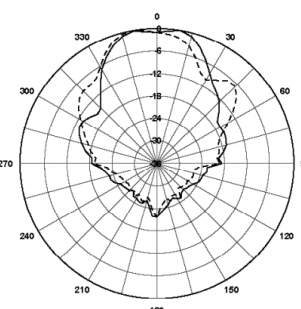
4000 Hz



8000 Hz



8000 Hz

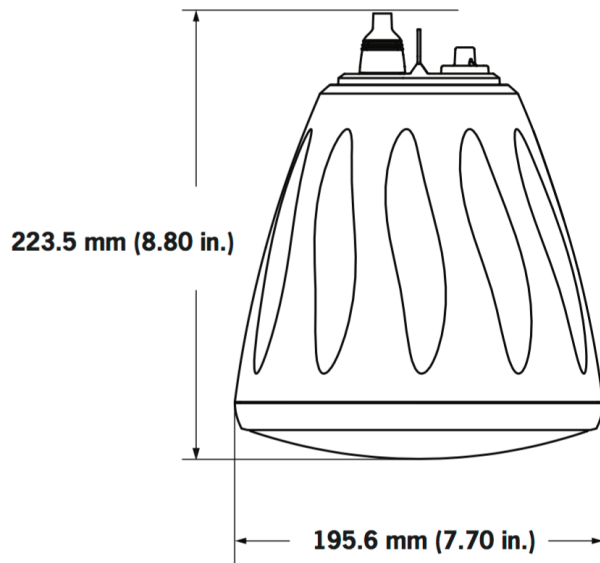


# RS4-EZ

4" Full-Range Open-Ceiling  
Speaker

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## Mechanical Drawings

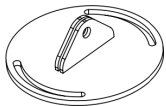


## Included Accessories



**Hanging Hardware: Main and Safety Cables w/ SpeedClamp™**

## Optional Accessories



**Surface-Mount Bracket  
(AC-RS-SM5)**

**Hanging Kit (AC-RS-  
HH-10)**

**Forged Eyebolt (AC-FE1)**

**Split Loom Tubing (AC-  
SLT-10)**

**Hanging Kit (AC-RS-  
HH-20)**

**Snap Link (AC-SL-1)**

**bracket for surface  
mount applications (AC-  
RS-SM5)**

**Hanging Kit (AC-RS-  
HH-50)**