



Specifications: RS400i

System Type	4" coaxial, open-ceiling, ported (20 Watt transformer	
	for 25/70.7/100 Volt or voice coil/4 Ohm applications)	
Frequency Response (- 3 dB) ¹	94 Hz - 22 kHz	
Low Frequency (-10 dB) ¹	72 Hz	
Max. Program Power	40 Watts	
Max. Continuous Power RMS ²	20 Watts	
Max. SPL dB @ 1 M	98 dB	
Sensitivity dB @ 1W/1M (2.83V) ³	88 dB	
Sensitivity dB @ 1W/1M4	85 dB	
Impedance (nominal)	4 Ohm	
Coverage Angle (-6 dB @ 2 kHz)	100°	
Coverage Angle (-6 dB @ 10 kHz)	73°	
Directivity Factor (Q)	3.04 (Averaged 100 Hz - 10 kHz); 4.7 @ 2 kHz	
Directivity Index (DI)	4.1 dB (Averaged 100 Hz - 10 kHz); 6.8 dB @ 2 kHz	
Tap Selector	Weather-proof 5-position tap switch w/ voice coil/4 Ohm direct	
Transformer Taps		

70.7 V	Output	100 V	Output	25 V	Output
20w	98w	20w	98w	3w	89w
10w	95w	10w	95w	1w	86w
5w	92w	5w	92w	0.63w	83w
Зw	89w			0.31w	80w

Transducer		
Low-Frequency Driver	1 x 102 mm (4 in) Polypropylene cone, butyl rubber surround	
High-Frequency Driver	25 mm (1 in) Convex aluminum tweeter with waveguide	
Low Frequency Voice Coil	25 mm (1 in)	
Crossover Frequency	2.27 kHz	
Network Type		
Low Pass	12 dB per octave, 2nd order	
High Pass	12 dB per octave, 2nd order	
Enclosure Material	Injection molded ABS	
Grille Material	Iridite-plated steel with powder-coat finish	
Inputs	4 Pin, 5 mm Euroblock for individual or daisy chain connection	
Color Options	Black, white or custom colors available	
Diameter	197 mm / 7.7 in	
Total Height	229 mm / 9.0 in	
Weight	1.8 kG / 3.9 lbs	
Shipping Weight	3.2 kG / 7.1 lbs	
Accessories		
Included	Hanging hardware, Euroblock connector & terminal weather boot	
Optional	Surface-mount bracket (AC-RS-SM5)	
Packaging	1 Per box	

¹ Frequency response is measured in full space.

SoundTube continually develops new product innovations and improvements. Updates to existing products without prior notice are an example of SoundTube's drive for constant improvement.

Key Features

- BroadBeam[®] waveguide technology delivers a consistent dispersion pattern up to 10 kHz for maximum coverage area per speaker (EASE™ documented).
- One 102 mm (4 in) polypropylene woofer and one 25 mm (1 in) convex aluminum tweeter with FerroFluid cooling.
- Weatherized components for indoor & outdoor applications.
- Includes hanging hardware with aircraft cables and integrated SpeedClamp[™] self-locking wire grip for fast, easy & secure installation. Also includes Euroblock connector & terminal weather boot.
- Patented ZeroReflection[™] enclosure technology for optimal sound reproduction & cabinet rigidity.
- Easy access 5-position selectable tap switch for 25, 70.7 and 100 Volt applications with voice coil/4 Ohm direct simplifies ordering & inventory tracking.
- Iridite-plated steel grille with protective powder-coated finish for lasting durability.
- High-quality black or white paint finish.
 Custom paint colors optional.
- Optional surface-mount bracket.

Description

The RS400 is a 4" coaxial, ported speaker with an open-ceiling enclosure design. Hanging hardware is included & features a SpeedClamp™ self-locking wire grip for fast, easy & secure installation. SoundTube's custom-engineered driver and electro-acoustic network delivers high-performance sound in a cost-effective speaker design. The RS400i speaker incorporates a low-profile grille and a 5-position tap switch with voice coil/4 Ohm direct.

Applications

Designed for indoor & outdoor background to mid-level SPL applications, the RS400i includes a single-point mounting system for rapid open-ceiling installations. Cost-effective engineering with high-performance sound makes the RS400i speaker ideal for music & paging applications in retail, grocery stores, restaurants, hotels, casinos, museums, trade shows & conference rooms. For applications where additional bass is required, SoundTube's RS801i 8" subwoofer provides bass down to 40 Hz.

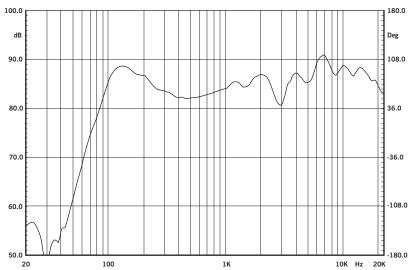
² Continuous power rating, EIA-426-B test.

³Average over published frequency response range.

⁴1w1m sensitivity based on voltage required to yield 1w based on the minimum system impedance.

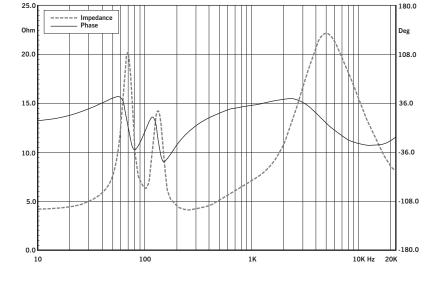


Frequency Response



Phase/Impedance Reponse

25.0



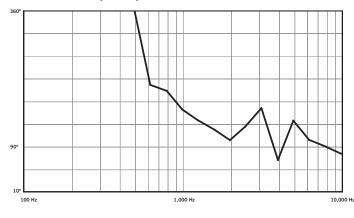
BroadBeam® Wide **Dispersion Technology**

More than 3 years in development, SoundTube's proprietary BroadBeam® technology incorporates a high-frequency waveguide mated to a 1" convex metal tweeter. BroadBeam® waveguide technology delivers a consistent BroadBeam® dispersion pattern across the upper registers of the frequency spectrum (up to 10 kHz, EASE™ documented). The result is an audio system with fewer speakers, reduced power needs, shorter installation time and cost savings on shipping & labor.

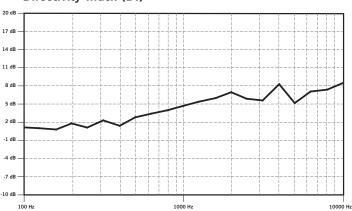
Patented SoundTube **Technologies**

SoundTube Entertainment is constantly developing 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.

Beamwidth (-6 dB)



Directivity Index (DI)



RS400i Open-Celling Speaker Preliminary Technical Information

Preliminary Technical Information for System Engineers



SoundTube Entertainment 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.

Data Acquisition

All performance data acquired at SoundTube's Technical Measurement Center (TMC) are analyzed using a variety of standard measurement techniques, including Measured Length Sequence (MLS) and Time Delay Spectrometry (TDS). Performance, development and data acquisition tools include: Gold Line TEF 20, CLIO, LMS, LEAP, and proprietary modeling software. $\mathsf{EASE}^{^{\scriptscriptstyle\mathsf{TM}}}$ data are acquired through an automated TEF

20/Outline/EASE™ interface.

EASE™ Data – 3-D polar plots.

SoundTubeSPEC™ – Proprietary SoundTube speaker placement software.

Technical assistance: SoundTube SPEC™ software and engineering support

For quick and easy specification, visit www.soundtube.com and use SoundTube's proprietary specification software. For technical assistance, including detailed EASE™ plots, contact SoundTube Entertainment directly at techinfo@soundtube.com or call us at 435-647-9555 or 800-647-8823.

Architectural Specifications

The loudspeaker shall consist of a 102 mm (4 in) polypropylene woofer and one 25 mm (1 in) convex aluminum tweeter with FerroFluid cooling.

Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend to 72 Hz (-10 dB, no external equalization). Measured sensitivity (2.83 Volt input, 1

meter) shall be at least 88 dB. The speaker shall have a nominal impedance of 4 Ohms and be available for 25, 70.7 & 100 Volt modes with voice coil/4 Ohm direct. The frequency dividing network shall have a crossover frequency of 2.27 kHz with slopes of 12 dB per octave (2nd order) for both low and high pass filters. Rated power capacity shall be at least 20 Watts continuous power (RMS) and conform to EIA-426-B testing. Maximum continuous output at 1 meter shall be 98 dB.

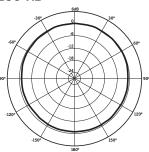
The low-frequency transducer shall have a polypropylene cone with butyl rubber surround. The high-frequency transducer shall be constructed of aluminum with a proprietary BroadBeam® waveguide.

Installation and safety attachment for the RS400i shall be by aircraft cable affixed to the speaker chassis via an integrated forged aluminum clasp with safety gate. The external wiring input connector shall be a 4-pin, 5 mm Euroblock for 4 Ohm or distributed systems and shall accept from 10 - 22 gauge wire. The system shall be for indoor

Polar Plots







500 Hz



1,000 Hz



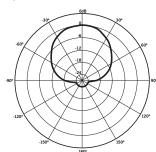
2,000 Hz



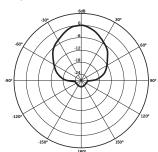
4,000 Hz



8,000 Hz



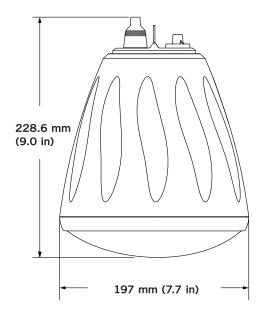
10,000 Hz



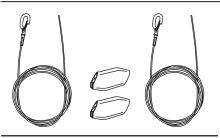
Technical data, EASE™ plots, SoundTubeSPEC™ software & product downloads available at www.soundtube.com



Mechanical Drawings



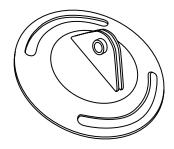
Included Accessories



Hanging Hardware: Main & Safety Cables w/ SpeedClamp™

SoundTube's hanging cable kit incorporates hanging & safety cables & Speed-Clamp $^{\text{\tiny ™}}$ self-locking cable clamps for an integrated and easy-to-install system. Hanging & safety cables are infinitely adjustable to 2.74 M (9.0 ft).

Optional Accessories



Surface-Mount Bracket (AC-RS-SM5)

& outdoor applications and shall have a weather-resistant terminal boot covering all wire connectors.

The enclosure shall be constructed of injection-molded ABS. The grille shall be constructed of iridite-plated, powdercoated steel for lasting performance in the elements. Overall cabinet dimensions shall be no more than 197 mm (7.7 in) in height by 224 mm (8.8 in) in diameter. The RS400i shall include hanging hardware, Euroblock connector and weather-resistant terminal boot.

The system shall be the SoundTube RS400i with hanging hardware for both low & high impedance applications.

SoundTube Entertainment

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

SoundTube Entertainment manufactures a complete line of speakers for:

Open-Ceiling • In-Ceiling • Surface-Mount • Outdoor • Sound-Focusing All SoundTube products are designed and engineered in the USA.

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