

RS1001i-II-T

10" Coaxial Open-Ceiling/Surface Mount Subwoofer

SOUNDTUBE
ENTERTAINMENT



Specifications: RS1001i-II-T

Mounting hardware included

Nominal Impedance	4 ohm
Impedance (min)	5.1 ohm
Sensitivity dB @ 2.83V/1M	86.0dB
Sensitivity dB @ 1W/1M (2)	83.0dB
Frequency Response (± 3 dB)	53 Hz - 175 Hz
Frequency Response (± 10 dB)	38 Hz - 450 Hz
Max. Program Power	300W
Max. Continuous Power RMS	150W
Max. Power SPL @ 1 M	105.0dB
Tap Selector	5 Position rotary switch with transformer bypass
70.7 Volt Transformer Taps	150w / 105.0dB
100 Volt Transformer Taps (dB)	150w / 105.0dB
25 Volt Transformer Taps (dB)	19w / 96.0dB
Transformer Options	25 / 70.7 / 100 Volt with voice coil / 8 Ohm direct
Transducer - Low Frequency Driver	10" Polypropylene Cone w/ Butyl Rubber Surround
Network Type: Low Pass	6dB per octave, 1st order
Angle	N/A
Colors	Black or white
Inputs	4 Pin, 5.08 mm Euroblock for individual or daisy chain connection
Height (SM = Height)	437.6 mm / 17.2 in
Diameter (SM = Width)	376.4 mm / 14.8 in
Weight	12.3 kg / 27.1 lb
Shipping Weight	14.8 kg / 32.6 lb
Accessories Included	Hanging Hardware: Main and Safety Cables w/ SpeedClamp™
Packaging	1 per box
Regulatory - UL	Approved UL1480A
Regulatory - CE	Approved
Regulatory - RoHS	approved
Regulatory - IP	not planned

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Key Features

- One 10 inch (254 mm) polypropylene cone with a butyl rubber surround attached to a reinforced baffle.
- Baffle-mounted, flared and tuned ports for maximum efficiency and frequency response.
- High-output (105 dB) and maximum efficiency with an accentuated 70 Hz peak to maximize listener's low-frequency experience.
- 150-watt, low insertion-loss transformer with an easy-access, five-position tap switch for 25/70.7/100-volt and transformer bypass positions.
- Weatherized components including powder-coated steel grille, hanging hardware and a durable ABS enclosure for indoor/out-door applications.
- Includes UL listed hanging hardware with high-quality cables and integrated SpeedClamp™ self-locking wire clamp for fast, easy and secure installation.
- UL 1480 (UEAY) and CE approved. Hanging hardware is UL 2239-approved.
- High-quality black or white painted finish. Custom colors available.
- Included accessories: hanging hardware, Euroblock connector, terminal weather boot.
- Optional accessories: surface-mount bracket (AC-RS-SM8).

Description

One 10 inch polypropylene cone with a butyl rubber surround attached to a reinforced baffle. Baffle-mounted, flared and tuned ports for maximum efficiency and frequency response. High-output and maximum efficiency with an accentuated 70 Hz peak to maximize listener's low-frequency experience. 150-watt, low insertion-loss transformer with an easy-access, five-position tap switch for 25-, 70.7-, 100-volt and transformer bypass positions. Includes UL listed hanging hardware with high-quality cables and integrated SpeedClamp™ self-locking wire clamp for fast, easy and secure installation. UL 1480 (UEAY) and CE-approved. Hanging hardware is UL 2239-approved. Included accessories: hanging hardware, Euroblock connector, terminal weather boot.

Applications

The RS1001i-II-T is an indoor/outdoor, background to foreground subwoofer for installations where high quality, true bass response and rapid installation are critical variables. Aerobic rooms, retail, restaurants, nightclubs, bars, theme parks, arenas, ballrooms and churches are all ideal fits for the RS1001i-II-T. Because overall system design is a critical component of subwoofer integration, SoundTube engineering recommends incorporating a DSP system with an active crossover to maximize subwoofer integration and overall system performance.

Tuning the system based on room acoustics and loudspeaker selection will result in smooth response and reduced subwoofer localization. For system engineering assistance, contact SoundTube at engineering@soundtube.com or by calling 800-647-8823 (international: +1-435-647-9555).

BroadBeam® Wide Dispersion Technology

SoundTube's proprietary BroadBeam® technology incorporates a high-frequency waveguide mated to a 1-inch convex aluminum tweeter. The BroadBeam® highfrequency 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.

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. 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 NWAALabs (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 subwoofer shall consist of one 254 mm (10 in.) low-frequency transducer installed in a ported enclosure. The transducer shall have a polypropylene cone with a butyl rubber surround. Performance specifications of a typical production unit shall be as follows: Usable frequency range shall extend from 38 Hz - 450 Hz (-10 dB, independently verified.) Maximum continuous output at 1 meter shall be at least 105 dB. The subwoofer shall be usable at 25/70.7/100 volts with selectable tap settings up to 150 watts or transformer bypass position. Rated power capacity of the components and network shall be at least 150 watts continuous RMS and conform to EIA-426-B testing. The enclosure shall be constructed of injection-molded, glass-reinforced ABS. The grille shall be constructed of powder-coated steel. Installation for the subwoofer shall be by UL listed, galvanized steel cable affixed to the speaker chassis via an integrated hook assembly. For safety redundancy, a secondary hanging cable shall be included and attach to the speaker chassis. The external wiring input connector shall be a four-pin, 5.08 mm Euroblock for 4-ohm or distributed systems and shall accept from 10 - 22-gauge wire. The unit shall be factory preset to 150 watts in the 70.7-volt operating mode with a tap switch located on the front baffle. The enclosure shall be constructed of injection-molded, glass-reinforced ABS. The grille shall be constructed of powdercoated steel for lasting performance in the elements. Overall cabinet dimensions shall be no more than 437.6 mm (17.23 in.) in height by 376.4 mm (14.82 in.) in diameter. The subwoofer shall include hanging hardware, Euroblock connector and weather-resistant terminal boot. The system shall be the SoundTube RS1001i-II-T for low- and high-impedance applications.

SoundTube

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

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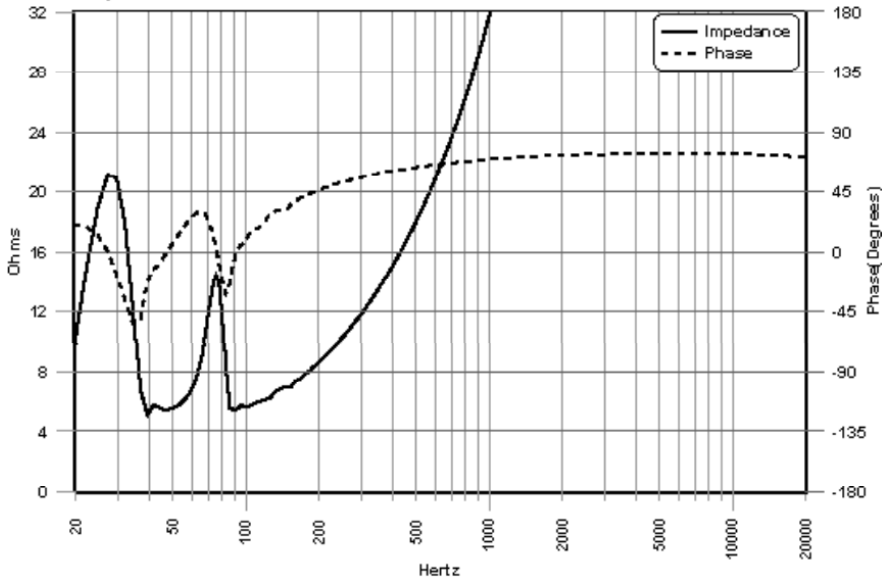
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Graphs and Plots

Directivity Index



Phase/Impedance



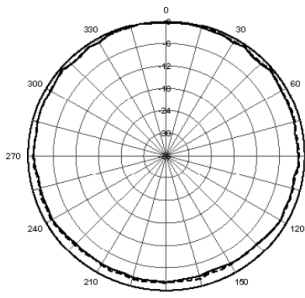
Frequency Response



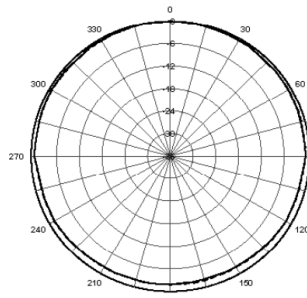
Vertical Beamwidth



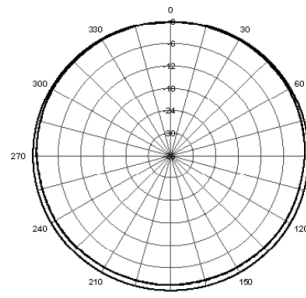
40 Hz



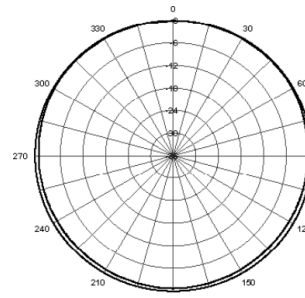
50 Hz



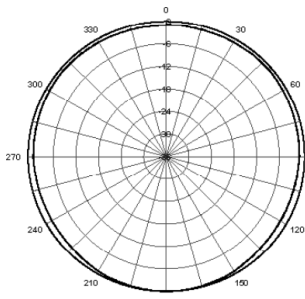
63 Hz



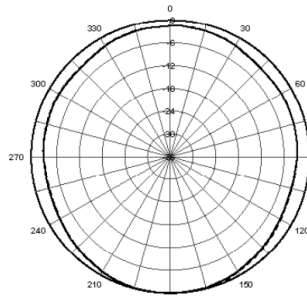
63 Hz



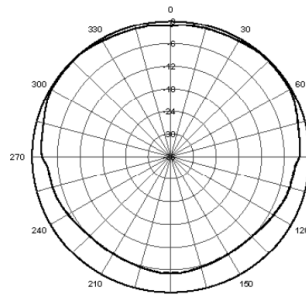
100 Hz



125 Hz



250 Hz

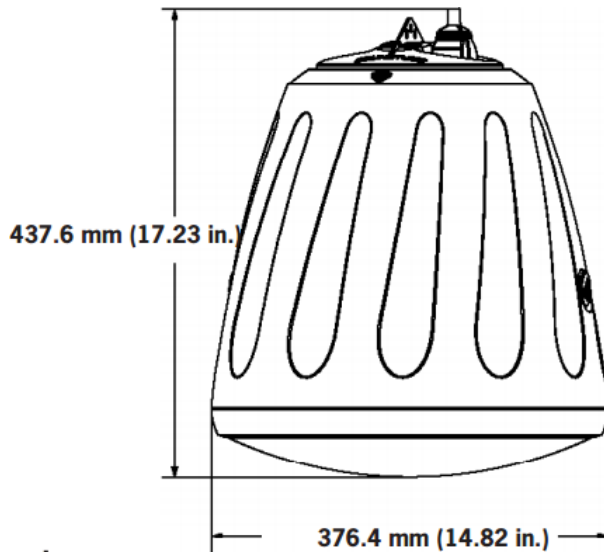


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Mechanical Drawings

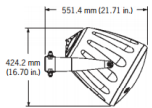


Included Accessories



Hanging Hardware: Main and Safety Cables w/ SpeedClamp™

Optional Accessories



**Surface-Mount Bracket
(AC-RS-SM8)**

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

Forged Eyebolt (AC-FE1)

Beam Clamp (AC-BC-1)

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

Snap Link (AC-SL-1)

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

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