



Preliminary Data: SM1001p

Mounting hardware included

System Type	10 Inch active subwoofer with a 10 inch downward firing passive radiator
Impedance (nominal) ¹	8 ohm
Sensitivity dB @ 2.83 V/1 m	92 dB
Sensitivity dB @ 1 W/1 m ²	92 dB
Frequency Response (-3 dB) ³	55 Hz – 118 Hz
Frequency Response (-10 dB) ³	41 Hz – 224 Hz
Max. Program Power ⁴	300 W
Max. Continuous Power RMS ⁵	150 W
Max. Power SPL @ 1 m ⁶	114 dB
Low-Frequency Transducers	One active 254 mm (10 in) polypropylene cone with butyl rubber surround, one passive 254 mm (10 in) polypropylene cone with butyl rubber surround
Low-Frequency Voice Coil	35.0 mm (1.38 in)
Crossover Frequency	Variable, use selectable 50 Hz thru 200 Hz
Low Pass Filter Options	User selectable 80 Hz, 150 Hz & 200 Hz
Enclosure Material	Birch plywood
Input	XLR connector
Colors	Black or white, custom colors available.
Height (excluding feet)	393.7 mm (15.5 in)
Width	612.1 mm (24.1 in)
Depth (excluding SM bracket)	304.8 mm (12 in)
Weight	12.3 kg (27 lbs)
Shipping Weight	14.5 kg (32 lbs)
Packaging	1 per box
Accessories Included	Steel powder-coated surface-mount bracket
Regulatory - CE	Approved

- 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

Preliminary Technical Information

- Powered subwoofer with one 10-inch active subwoofer with one 10-inch downward firing passive radiator with and a 200-watt Class D amplifier.
- Polypropylene woofers with butyl rubber surrounds mated to steel baskets.
- Solid birch plywood cabinet with fine paint finish.
- High output (114 dB) and maximum efficiency with an accentuated 70 Hz peak to maximize the listener's low frequency experience.
- Incorporates a powder-coated steel grille for lasting durability.
- Inputs include a balance XLR input and 70.7-volt high-level terminal strip input.
- Full-range balanced XLR output with selectable 80 Hz, 150 Hz and 200 Hz high-pass filters.
- Variable crossover ranging from 50 Hz – 200 Hz, plus a 0° to 180° phase switch.
- Included accessory: Stainless steel powder-coated surface-mount bracket.
- Optional accessories: Floor feet and forged eyebolts to mate with eight fly points.
- High quality painted black or white finish. Custom colors available.

Description

The SM1001p is a powered surface-mount subwoofer with a 10-inch active polypropylene woofer and a 10-inch downward firing polypropylene passive radiator to deliver maximum low-frequency response down to 41 Hz (-10 dB). Mated to a steel basket and a birch plywood enclosure, the SM1001p delivers serious low-frequency punch (114 dB max. SPL) with minimal distortion.

Engineered with a 200-watt Class D amplifier, a 70.7-volt high level input and full-range balanced XLR outputs, the SM1001p offers a user selectable 80 Hz, 150 Hz and 200 Hz high-pass filter, a variable crossover ranging from 50 Hz – 200 Hz and a 0° to 180° phase switch.

Surface-mount hardware is included and can mount to walls, ceilings or other rigid structures. An optional floor stand and forged eye-bolts are also available.

SM1001p

High-Powered Surface-Mount Speaker
Preliminary Technical Information for System Engineers



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Applications

The SM1001p is a background to foreground subwoofer for installations where high-quality, true bass response and rapid installation are critical variables. Aerobic rooms, retail restaurants, nightclubs, hotels, bars, theme parks arenas, ballrooms and churches are all ideal fits for the SM1001p.

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:

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 are independently collected 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 EASERA, 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 surface-mount subwoofer shall consist of one 254.0 mm (10.00 in) active low-frequency transducer with one 254.0 mm (10.00 in) passive radiator. Both transducers shall be constructed of polypropylene cones with butyl rubber surrounds and be mated to a steel basket.

Performance specifications of a typical unit shall be as follows: Useable frequency range shall extend from 41 Hz – 224 Hz (-10 dB). Maximum continuous output at 1 meter shall be at least 114 dB. The SM1001p powered subwoofer shall be available with selectable 25/70.7/100-volt tap switch with voice coil direct position. Rated power capacity shall be 150 watts continuous RMS and confirm to EIA-426-B testing.

The enclosure shall be constructed of birch. The grille shall be constructed of powder-coated steel.

Installation for the SM1001p shall be by powder-coated steel with optional floor feet or and forged eye-bolds (SM1001p accepts eight eye-bolts for flown applications). Inputs include a balanced XLR input and a 70.7-volt high level terminal strip input. Outputs include full-range balanced XLR output with selectable 80 Hz, 150 Hz and 200 Hz high pass filters. The subwoofer also offers a variable crossover ranging from 50 Hz – 200 Hz and a 0° to 180° phase switch.

The system shall be the SoundTube SM1001p for low- and high-impedance applications.

SoundTube Entertainment

6430 North Business Park Loop
Park City, Utah 84098
Phone 435.647.9555
Fax 435.647.9666
Toll Free 800.647.TUBE
www.soundtube.com

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

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Graphs and Plots

Frequency Response

N/A

Impedance/Phase

N/A

Vertical Beamwidth

N/A

Directivity Index (DI)

N/A

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Polar Plots

———— Horizontal
----- Vertical

125 Hz

N/A

250 Hz

N/A

500 Hz

N/A

1,000 Hz

N/A

2,000 Hz

N/A

4,000 Hz

N/A

8,000 Hz

N/A

10,000 Hz

N/A

Mechanical Drawings

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.