



Specifications: SM400i

Mounting hardware included

System Type	
	4" Coaxial, surface mount, ported (25/70.7/100 Volt or
	voice coil / 4 Ohm direct)
Frequency Response (-3 dB) ¹	92 Hz - 22 kHz
Low Frequnecy (-10 dB) ¹	73 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	88.5 dB
Sensitivity dB @ 1W/1M4	85 dB
Impedance (nominal)	4 Ohm
Coverage Angle (-6 dB @ 2 kHz)	92°
Coverage Angle (-6 dB @ 10 kHz)	71°
Directivity Factor (Q)	2.89 (Averaged 100 Hz - 10 kHz); 5.1 @ 2 kHz
Directivity Index (DI)	4.0 dB (Averaged 100 Hz - 10 kHz); 7.0 dB @ 2 kH
Tap Selector	Weather-proof 5-position tap switch
	with voice coil/4 Ohm direct position
Transformer Taps	

70.7 V 100 V 25 V Output Output Output 20w 98.0dB 20w 98.0dB Зw 89w 94.9dB 10w 94.9dB 10w 1w 86w 91.9dB 5w 5w 91.9dB 0.63w 8.3w 88.9dB 0.31w 80w 3w

Transducers	
Low-Frequency Driver	1 x 102mm (4in) Polypropylene cone, butyl rubber surround
High-Frequency Driver	25mm (1in) 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, glass fiber reinforced
Grille Material	Iridite-plated aluminum with powder-coat finish
Inputs	4 Pin, 5 mm Euroblock for individual or daisy chain connection
Color Options	Black, white or custom colors available
Width	177 mm / 6.97 in
Height	246 mm / 9.68 in
Depth (Including Bracket)	190 mm / 7.47 in
Weight	1.8 kg / 3.9 lb
Shipping Weight	3.2 kg / 7.1 lb
Accessories	
Included	Corrosion- & theft resistant u-bracket mount with safety cable,
	Euroblock connector, terminal weather boot, port plugs.
Optional	Paint mask
Packaging	1 per box
·	

¹ Frequency response is measured in Full space.

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.
- 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 aluminum grille with protective powder-coated finish for lasting durability.
- Weatherized components for indoor / outdoor applications. Includes a toolfree Stealth™ u-bracket mounting system for fast & secure installation. Included accessories: Mounting hardware, Euroblock connector, & terminal weather boot.
- Vertical and horizontal mounting offer precision aiming for indoor & outdoor applications.
- High quality black or white paint finish. Custom colors available.
- Optional port plugs are included for added weather resistance.

Description

The SM400i is a 4" coaxial, ported speaker with a low-profile surface-mount enclosure design for indoor/outdoor applications. Mounting hardware is included & features a corrosion- and theft-resistant Stealth-Bracket[™] for easy & secure installation. Nearly invisible from sightlines, the Stealth-Bracket[™] includes uni-direction fasteners for tool-free, theftresistant security. SoundTube's customengineered driver and electro-acoustic network deliver high-performance sound in a cost-effective surface-mount speaker design. The SM400i speaker incorporates a 5-position tap switch with voice coil/4 Ohm direct for simplified ordering and stocking. Provided port plugs can be used for added weather resisitance.

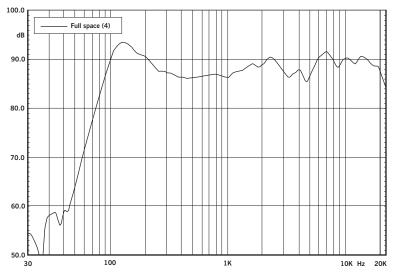
² Continuous power rating, EIA-426-B test. ³Average over published frequency response range.

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

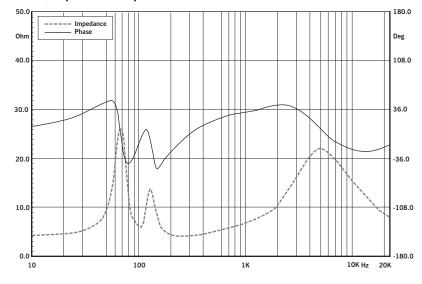
SM400i Surface-Mount Speaker Technical Information for System Engineers



Frequency Response



Phase/Impedance Reponse



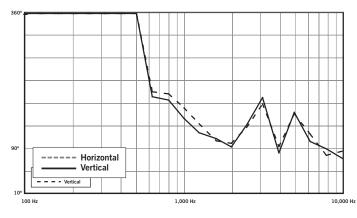
Applications

Engineered with professional grade components, the SM400i delivers high-quality music and messaging for indoor & outdoor background to midlevel SPL applications. Cost-effective engineering with high-performance sound makes the SM400i speaker ideal for applications including 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.

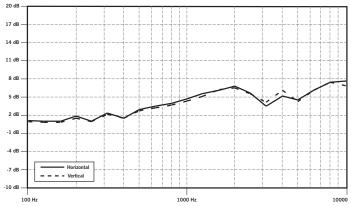
BroadBeam® Wide **Dispersion Technology**

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

Beamwidth (-6dB)



Directivity Index (DI)





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. & international patents, which explicitly cover SoundTube dome, enclosure and dispersion technologies. 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. EASETM 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

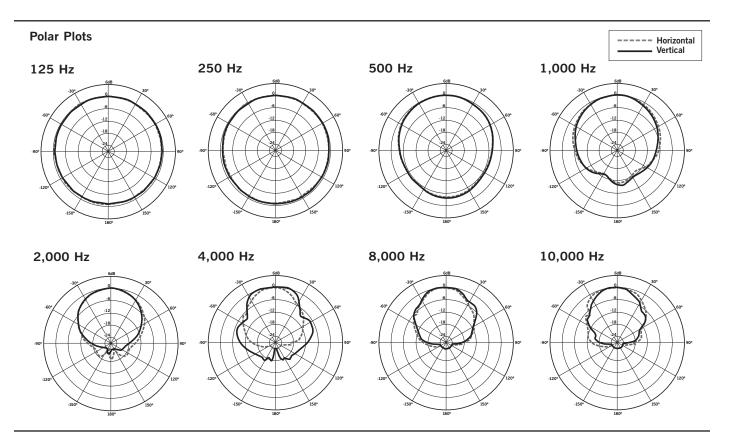
For quick and easy specification, visit www.soundtube.com and use SoundTube's proprietary specification software. For technical assistance, including detailed EASE™ plots, contact SoundTube Entertainment directly at techinfo@soundtube.com or call us at 435-647-9555 or 800-647-8823.

Architectural Specifications

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

Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend to 73 Hz (-10 dB, full space, no external equalization). Measured sensitivity (2.83 Volt input, 1 meter) shall be at least 88.5 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.

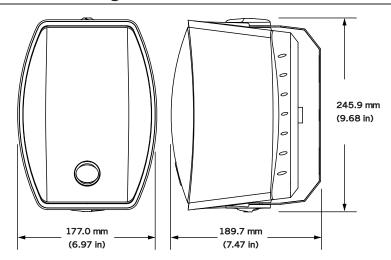
The low-frequency transducer shall have a polypropylene cone with butyl rubber surround. The high-frequency transducer shall



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



Mechanical Drawings



be constructed of aluminum with a proprietary BroadBeam® waveguide.

Installation and safety attachment for the SM400i shall be by Stealth U-bracket affixed to the speaker chassis via ABS handle with steel insert and come with a safety cable for seismic and safety redundancy. 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 & outdoor applications and shall have a weather-resistant terminal boot covering all wire connectors.

The enclosure shall be constructed of injection-molded ABS with optional port plug for added weather resistance. The plugs shall be constructed of closed-cell foam. The grille shall be constructed of iridite-plated, powder-coated aluminum for lasting performance in the elements. The SM400i shall include mounting hardware, Euroblock connector and weather-resistant terminal boot. The maximum overall cabinet dimensions shall be 245.9 mm (9.68 in) in height by 177.0 mm (6.97 in) in width by 189.7 mm (7.47 in) in depth (including Stealth™ bracket)

The system shall be the SoundTube SM400i with mounting hardware for both low & 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.

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com