SP400

Sound Palette Series

■ Small size and a wealth of mounting options make the Mackie Industrial SP400 compact, medium power loudspeaker ideal for use in business music systems. When used together with the SP800S subwoofer as a three-way system, a unique internal filter circuit allows the SP400 to operate as a band-limited complement to the subwoofer. With the filter bypassed, the SP400 operates as a full bandwidth, stand-alone product. Speaker zones can be intermixed, adding additional low-frequency response wherever needed.

■ The woofer is a high-excursion, carbon fiber design. The high-frequency section is a horn loaded, high-efficiency dome tweeter featuring a Ferrofluid® cooled coil. Together they provide natural, smooth sound reproduction and high resistance to weather.

■ Installation of the SP400 is fast and efficient with two M6, two M10 threaded inserts and a wide variety of optional mounting brackets. Electrical connections are made to recessed color-coded, spring-loaded terminals. Wattage taps and voltage adjustments are selectable by means of two detented rotary switches. The enclosure is constructed of high-density, scratchresistant polystyrene and includes a protective perforated steel grille and connection cover. It is available in black or white (SP400W) and may be painted to match existing environments.

■ The SP400 is a part of Mackie Industrial's Sound Palette series, integrated for business applications. Speakers include full range and a complementary low frequency system, designed for constant voltage parallel connection. Sound Palette controller-amplifiers provide complete, sophisticated control operations, optimized for business music systems.

■ This Mackie Industrial product is covered by an exclusive, one-time, NO FAULT repair policy in addition to a five year limited warranty.

Compact Two-Way Speaker



Features

- 5" carbon fiber, high excursion low-frequency transducer
- 120° x 100° horn loaded dome tweeter
- Exclusive Sound Palette band-limiting filter for sub-woofer integration anywhere on the constant voltage line
- Built-in externally adjustable, multi-tap constant voltage transformer
- Trapezoidal shaped enclosure for multiple applications and minimum visual intrusion
- Lightweight, UV/weather resistant, high density polystyrene
- Built-in threaded inserts for wide array of optional mounting hardware
- Exclusive Mackie Industrial one time, NO FAULT repair policy
- Five year limited warranty
- Quality Foreground/Background Music
- Speech Reinforcement
- Multi-Zone Music and Paging
- Satellite or Full Range Applications



SP400 Compact Two-Way Speaker

Specifications

System Freq. Range (-10 dB): 75Hz–21kHz Freq. Response (-3 dB): 160Hz–18kHz 120° averaged Horz. Coverage Angle (-6 dB): 800Hz to 16kHz Vert. Coverage Angle (-6 dB): 100° averaged 800Hz to 16kHz **Directivity Factor; Q(DI):** 5.6 (7.5) averaged 800Hz to 16kHz System Sensitivity¹: 88dB, 1W @ 1m **Rated Maximum SPL:** 109dB, @ 1m System Input Power Rating²: 30W RMS, 120W Peak **Constant Voltage:** 70V, 100V **Power Taps:** 1, 2, 4, 7.5, 15, 30W **Crossover:** 4kHz **High Pass Filter:** 150Hz, switchable Impedance: 4Ω Transducers 5" (130mm) carbon Low-Frequency: fiber woofer .5" (13mm) dome tweeter, **High-Frequency:** ferrofluid cooled Physical **Enclosure:** 45° back angles. high density polystyrene **Attachment Inserts:** 3 points M6 threaded, 2 points M10 threaded Color: Matte black, white (SP400W), scratch resistant paint Matching perforated Grille: steel grille **Input Connectors:** Push connector plate **Dimensions (HxWxD):** 10.31" x 7.17" x 6.57" (262mm x 182mm x 167mm) Net Weight: 6.6lb. (3kg) Options MA 3-5, MA 3-5W Articulated surface mount hardware, black (W- white) MA 5-6 Plate for suspending 4 clustered speakers, black Speaker tilt bracket for MA 5-7 MA 5-6, black MA 5-9, MA 5-9W U-bracket, black (W- white)

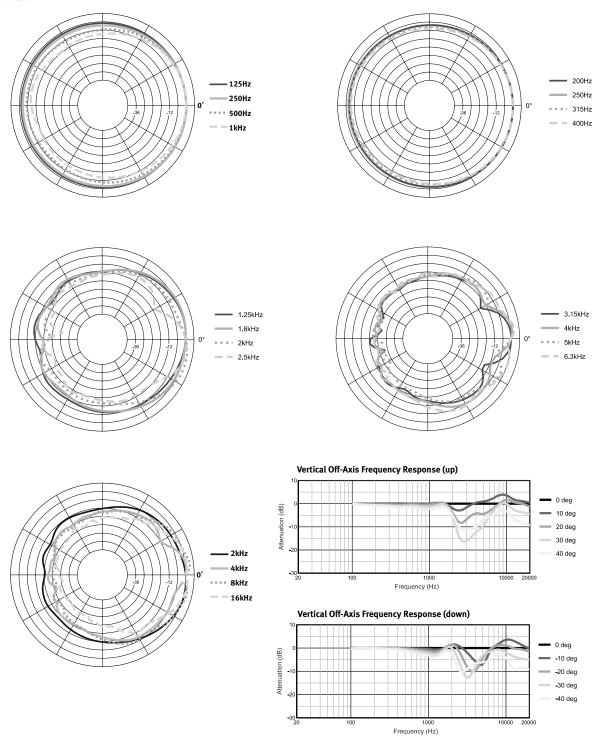
 1 Measured on axis in the far field with 1 watt (2.00 V RMS, 4 Ω) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.

 $^{\rm 2}$ 20 Hz to 20 kHz continuous pink noise spectrum, Peak for 2 hours with +6 dB crest factor.



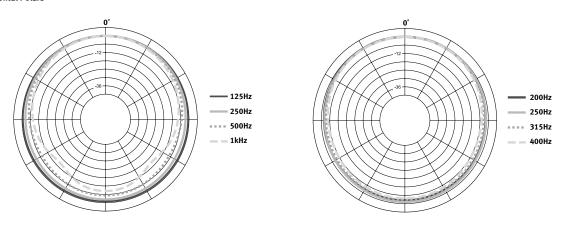
SP400 Compact Two-Way Speaker

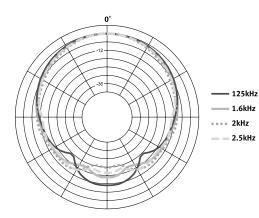
SP400 Vertical Polars

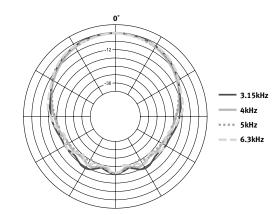


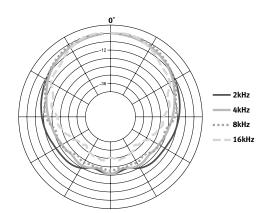


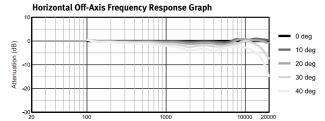
SP400 Horizontal Polars













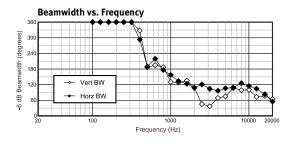


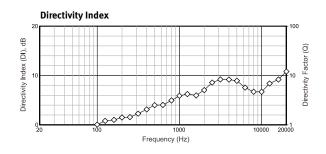


SP400 Compact Two-Way Speaker

1-watt drive. Shown as half-space (2π) enviroment.

Frequency response is measured on-axis at a distance referenced back to 1m at

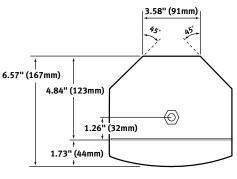




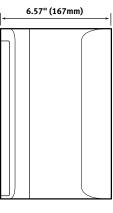
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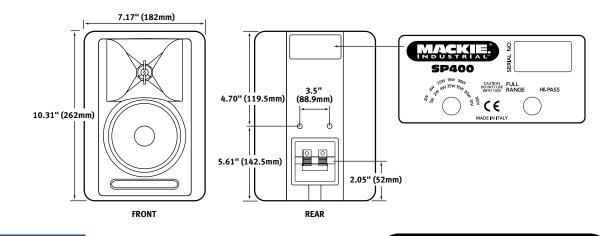
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SIDE





Architects' and Engineers' Specifications

The two-way loudspeaker system shall be a self-contained unit, housed in a vented enclosure with protective grille and consisting of the following sub-systems: (1) a 5" (130mm) low-frequency, carbon-fiber cone driver, (2) a high-frequency, 120° x 100° constant directivity polynomial horn and hornloaded, dome tweeter, (2) passive crossover network, (3) high-pass filter network, (3) integrated constant voltage line transformer.

The drivers shall be crossed over using a 4kHz LICC passive network and shall include a switchable 150Hz highpass filter. The system shall be capable of producing 88dB SPL (1W @ 1m) sensitivity, 109dB peak (Max @ 1m) and shall handle 30W RMS continuous power over an operating frequency range of 160Hz to 18kHz.

The loudspeaker input shall be a selectable 70, 100V constant voltage or nominal 4Ω and provide a matching transformer with selectable power taps of 1, 2, 4, 7.5, 15, and 30W @ 70V/100V. Selections shall be made using a screwdriver accessible slotted switch. Loudspeaker connections shall be color polarized, binding post terminals.

The reinforced, high-density polypropylene enclosure shall be trapezoidal in shape, equipped with two M6 threaded inserts at the back and with two M10 threaded inserts at the ends for mounting hardware. Mounting hardware, designed as options for the unit, shall be available from the manufacturer. The loudspeaker system shall be model Sound Palette SP400 (black) or Sound Palette SP400W (white) manufactured by Mackie Industrial.

Electronic files for this product available at: www.mackieindustrial.com

This Specification Sheet	SP400.PDF
Quick-Start Manual	SP400QS.PDF

Mackie Designs continually engages in research related to product improvement. New material, production methods, and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current Mackie Industrial product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated. ©1999-2001 Mackie Designs Inc. All rights Reserved. Constant of Mackie Designs Inc.

part no. 910-184/158-10 Rev.B





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