SOVOX

M200T

SPECIFICATION

Compact passive two-way screen-channel loudspeaker with a single 12-inch woofer, for screening and dubbing rooms. Hall depth ≤ 11 m/15 m [1]

01 FEATURES

● Performance | ▲ Engineering | ■ Economy & Maintenance



- ● Single 12-inch woofer with ADM™ loose-pressed paper cone and oil-treated cloth edge, balancing extension and efficiency.
- ● 2-inch titanium-diaphragm compression driver with integrated horn; 90° × 50° coverage aimed at the seating area.
- ▲ Built-in 1.7 kHz passive crossover lets one amplifier channel drive the complete loudspeaker, with no external processor or crossover.
- ▲ 302 mm deep and 17.3 kg, suited to screening and dubbing rooms with limited screen-wall depth.
- ■ 8 Ω nominal; one amplifier channel per enclosure, with same-side units paralleled or series-paralleled.

02 OVERVIEW

The M200T is a compact passive two-way screen-channel loudspeaker for small-to-mid cinemas, screening rooms and dubbing suites. A single 12-inch low-frequency driver and a titanium-diaphragm compression driver share one enclosure to form a complete screen-channel loudspeaker system, with a nominal frequency response of 47 Hz–20 kHz and a usable range from 36 Hz to 20 kHz, suited to the reproduction of dialogue, music and screen-channel effects.

The low-frequency driver uses a SOVOX ADM™ diaphragm — a loose-pressed paper cone with an oil-treated cloth edge; the high-frequency section uses a titanium-diaphragm compression driver with an integrated horn providing 90° × 50° nominal coverage. The bass-reflex MDF cabinet has a PVC laminate finish and an internal 1.7 kHz passive crossover, allowing one amplifier channel to drive each loudspeaker, which reduces amplifier channels and behind-screen wiring. A 302 mm cabinet depth and 17.3 kg net weight support handling, positioning and wiring within a confined behind-screen space; the product supports screen-frame mounting, and suspension must follow project conditions and installation guidance.

03 APPLICATIONS

Behind-screen main channels · Small to medium commercial auditoriums · Screening rooms · Private cinemas

04 SPECIFICATIONS

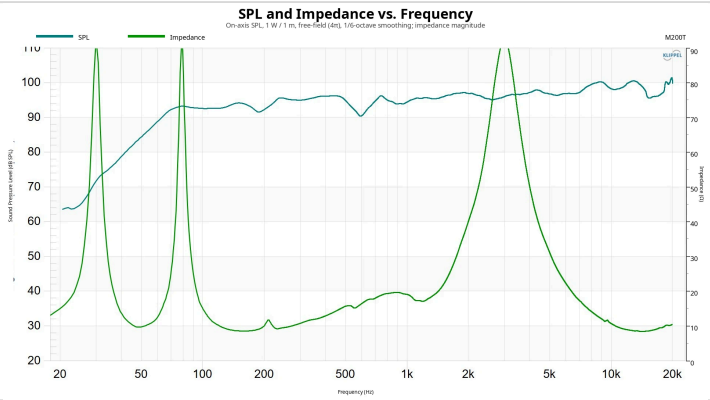
MODEL	M200T
PRODUCT TYPE	Cinema Screen Speaker
SYSTEM TYPE	2-Way, Passive
DRIVER CONFIGURATION	12"LF + 2"HF
NOMINAL IMPEDANCE	8Ω
FREQUENCY RESPONSE (±3 DB @ 2Π) [2]	47 Hz–20 kHz
FREQUENCY RANGE (-10 DB @ 2Π) [2]	36 Hz–20 kHz
AES 100-HOUR POWER RATING [3]	300W
AES 2-HOUR POWER RATING	375W
PROGRAM POWER [4]	600W
SENSITIVITY (2Π) @1W/1m	97dB
RATED MAXIMUM SPL /1m @ 2Π	121.8dB
CALCULATED MAXIMUM SPL /1m @ 2Π [5]	127.8dB
CROSSOVER FREQUENCY	1.7 kHz passive
RECOMMENDED HPF	30 Hz, LR24
COVERAGE ANGLE (H×V)	90° × 50°
ENCLOSURE TYPE	Bass-reflex enclosure with built-in horn
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate
INPUT CONNECTORS	Binding posts
MOUNTING OPTIONS	Screen-frame mounting or suspended installation under guidance
DIMENSIONS W×H×D (mm)	W410 × H724 × D302 mm
NET WEIGHT	17.3 kg

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05 FREQUENCY RESPONSE

On-axis frequency response, 1W/1 m, free-field, 1/6-octave smoothing[6]

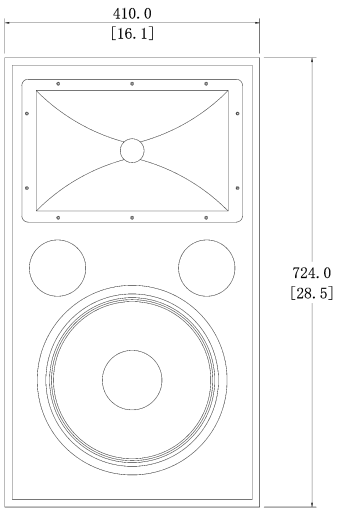
M200T



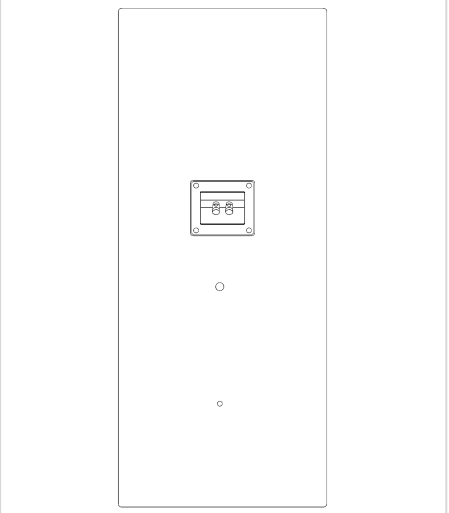
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

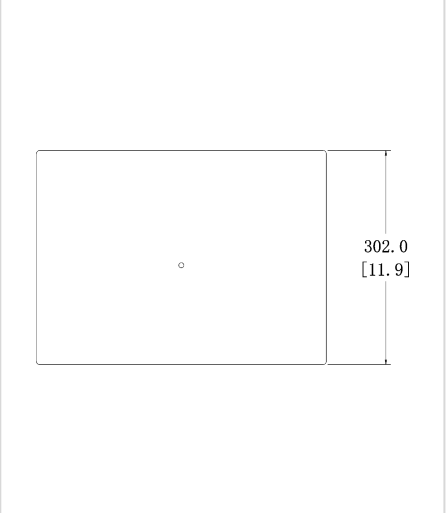
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



Front View



Side View



Top View

SPECIFICATION NOTES

1 Two length values are given: the first is the usable range on continuous power, the second on program power. Program power is a short-term maximum output and is not a level the system can sustain continuously. Target levels follow the SMPTE ST 202 / RP 200 cinema reference level: 85 dB for screen channels plus 20 dB peak headroom, measured at the reference listening position (RLP); hall depth = listening distance x 1.5. Listening distance is derived from free-field distance attenuation. The continuous-power range uses the rated maximum SPL in this table; the program-power range uses the rated value +3 dB (program power being twice the continuous power). The calculated maximum SPL (rated +6 dB, short-term peak) is not used for these figures.
Screen loss, power compression, system limiting and room gain are not included - this is a theoretical estimate, not a measured guarantee; on-site verification is recommended. Operating beyond the recommended figure may result in, but is not limited to: dynamic compression, increased distortion, extraneous noise, and in severe cases equipment damage.

2 Low-frequency response and sensitivity specifications are referenced to half-space (2π) conditions, representative of typical cinema baffle-wall installation. Frequency-response graphs are measured in an anechoic free-field (4π) environment unless otherwise noted. In the low-frequency region the same loudspeaker measures about 6 dB higher under 2π than under 4π (in practice 3–6 dB depending on frequency and baffle conditions); this is a difference of measurement convention, not of performance.

3 Rating based on an IEC filtered random-noise test signal, band-limited 50 Hz–20 kHz, with a peak-to-average ratio of 6 dB

4 Recommended amplifier output at the applicable impedance should not exceed the program power, giving an unclipped output waveform while avoiding loudspeaker damage; an amplifier capable of at least the RMS continuous power (AES 100 h) is recommended to realize full loudspeaker performance. The actual amplifier match should be determined by calculation for the listening distance (see note 1).

5 Calculated maximum SPL is derived from the rated (continuous) power and half-space (2π) sensitivity and is a calculated, not measured, figure; at a 6 dB peak-to-average ratio it exceeds the rated value by 6 dB, representing short-term peak capability rather than a level the system can sustain.

6 The frequency-response graphs on this page are measured on-axis at 1 W/1 m in an anechoic free-field (4π) environment with 1/6-octave smoothing; the frequency response and sensitivity in the specification table are stated under half-space (2π) conditions. Lower readings in the low-frequency region of the graph therefore reflect the difference in convention rather than a difference in performance. 2π-format curves are available on request.

7 Passive, single-amplifier-channel enclosure; hall depth above derived from its AES 100-hour rating and system sensitivity, with drive-unit-level verification pending.

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