SOVOX

M330T

SPECIFICATION

Passive two-way screen-channel loudspeaker with three 12-inch woofers in a low-profile cabinet, for halls with limited screen-wall height. Hall depth ≤ 31 m/44 m [1]

01 FEATURES ● Performance | ▲ Engineering | ■ Economy & Maintenance



- ● Three 12-inch woofers side by side in one enclosure with ADM™ loose-pressed paper cones, further expanding low-frequency radiating area.
- ● The three woofers work in unison for greater low-frequency energy and drive.
- ● 3-inch titanium-diaphragm compression driver with HLMS™ dual shorting rings (copper sleeve + aluminium ring) for linear motor behaviour at high output.
- ▲ Horizontal layout keeps overall cabinet height to 787 mm, saving screen-wall height.
- ▲ Built-in 2.0 kHz passive crossover lets one amplifier channel drive the complete loudspeaker.
- ■ 2.7 Ω nominal; verify amplifier current capability, cable gauge and protection settings at system design stage.

02 OVERVIEW

The M330T is a passive two-way screen channel loudspeaker in the SOVOX M Series for economy medium-to-large cinema auditoria, covering behind-screen main channels, multiplex auditoria and screening or dubbing rooms. Three 12-inch low-frequency drivers and a 3-inch compression driver are integrated into a single bass-reflex enclosure with a built-in horn, covering 50 Hz–18 kHz (±3 dB, half-space) with a 38 Hz–20 kHz usable range and 90° × 50° nominal coverage.

The three 12-inch drivers sit side by side in one horizontal cabinet, keeping overall height to 787 mm for installations with limited vertical space behind the screen; the LF drivers use ADM™ coated-cloth-edge paper cones that balance stiffness, damping and durability. The 3-inch titanium-diaphragm compression driver combines a large voice coil with the HLMS™ copper-sleeve-plus-aluminium-ring dual shorting structure, and its power handling supports prolonged high-level operation. An internal 2.0 kHz passive crossover integrates the low- and high-frequency sections for single-amplifier drive. The cabinet weighs approx. 40 kg and supports screen-frame mounting or guided suspended installation; the 2.7-ohm nominal load requires amplifier current capability, cable gauge and protection settings to be verified during system design.

03 APPLICATIONS

Behind-screen main channels · Medium to large commercial auditoriums · Dubbing rooms · Large-format screens · Dome cinemas

04 SPECIFICATIONS

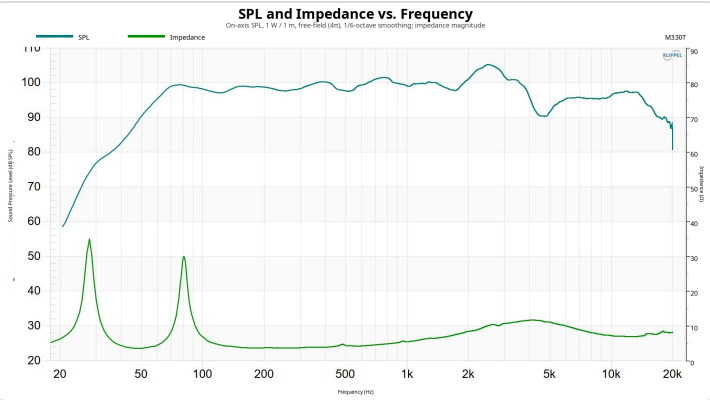
MODEL	M330T
PRODUCT TYPE	Cinema Screen Speaker
SYSTEM TYPE	2-Way, Passive
DRIVER CONFIGURATION	12"LF × 3 + 3"HF
NOMINAL IMPEDANCE	2.7Ω
MINIMUM IMPEDANCE	2.7 ohms @ 50 Hz
FREQUENCY RESPONSE (±3 DB @ 2Π) [2]	50 Hz–18 kHz
FREQUENCY RANGE (-10 DB @ 2Π) [2]	38 Hz–20 kHz
AES 100-HOUR POWER RATING [3]	850W
AES 2-HOUR POWER RATING	1062.5W
PROGRAM POWER [4]	1700W
SENSITIVITY (2Π) @1W/1m	102dB
RATED MAXIMUM SPL /1m @ 2Π	131.3dB
CALCULATED MAXIMUM SPL /1m @ 2Π [5]	137.3dB
CROSSOVER FREQUENCY	2.0 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)	W736 × H787 × D392 mm
NET WEIGHT	40 kg

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05 FREQUENCY RESPONSE

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

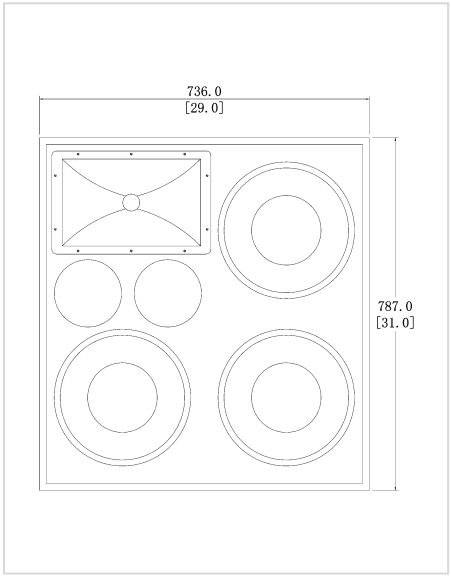
M330T



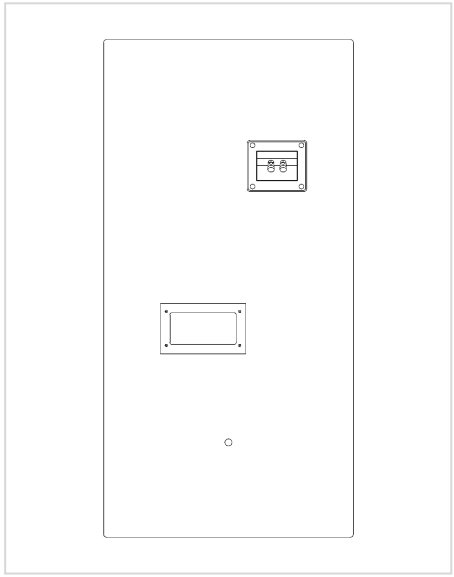
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

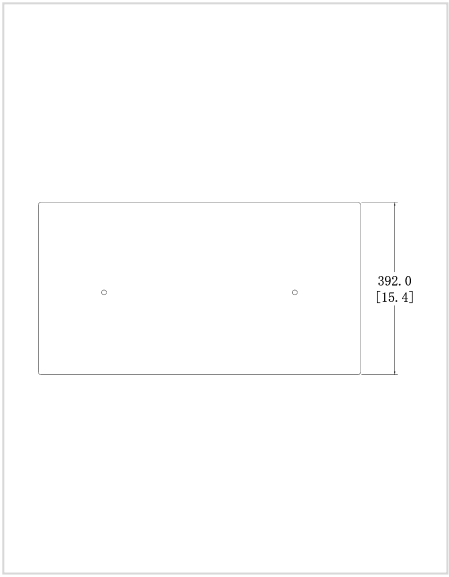
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



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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