SOVOX

MV2250PRO

SPECIFICATION

High-output two-way integrated screen-channel loudspeaker with dual 15-inch LF, for behind-screen main-channel use, multiplex, screening and dubbing rooms. Hall depth ≤ 24 m/34 m [1]

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



- Dual 15-inch LF provides ample low-frequency radiating area and sustained output capacity.
- 3-inch compression driver with HLMS™ dual shorting rings (copper sleeve + aluminium ring) for mid-high distortion control at high output.
- System response of 40 Hz–19 kHz, with usable range from 28 Hz to 20 kHz.
- ▲ Built-in 1.5 kHz passive crossover drives the complete loudspeaker from a single amplifier channel at 4 Ω nominal.
- ▲ Suitable for large auditoria with demanding dynamic requirements.

02 OVERVIEW

The MV2250PRO is a high-output two-way screen channel loudspeaker in the SOVOX MV Series for large auditoria and longer projection distances, covering behind-screen main channels, multiplex auditoria and screening or dubbing rooms. It houses dual 15-inch bass-reflex LF drivers and a 3-inch compression-driver HF horn in a single enclosure with a built-in 1.5 kHz passive crossover, covering 40 Hz–19 kHz (±3 dB, half-space) with a 28 Hz–20 kHz usable range and 100° × 20°–30° nominal coverage.

The 15-inch woofers use ADM™ oil-treated tight-pressed paper cones; the 3-inch titanium-diaphragm compression driver carries the HLMS™ copper-sleeve-plus-aluminium-ring dual shorting structure, with horn loading. The built-in 1.5 kHz passive crossover integrates the LF and HF sections, so a single amplifier channel drives the complete loudspeaker at 4 Ω nominal, reducing amplifier channel count and behind-screen wiring. The 760 × 1316 × 465 mm, 61.9 kg integrated passive enclosure requires no module-by-module handling, easing installation behind a perforated screen.

03 APPLICATIONS

Behind-screen main channels · Large commercial auditoriums · Large-format screens

04 SPECIFICATIONS

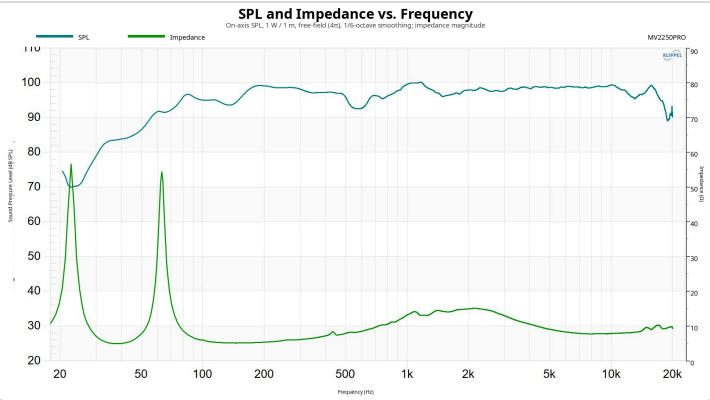
MODEL	MV2250PRO
PRODUCT TYPE	Cinema Screen Speaker
SYSTEM TYPE	Two-Way, Passive
DRIVER CONFIGURATION	15" LF × 2 + 3" HF × 1
NOMINAL IMPEDANCE	4Ω
FREQUENCY RESPONSE (±3 DB @ 2Π) [2]	40 Hz–19 kHz
FREQUENCY RANGE (-10 DB @ 2Π) [2]	28 Hz–20 kHz
AES 100-HOUR POWER RATING [3]	900W
AES 2-HOUR POWER RATING	1125W
PROGRAM POWER [4]	1800W
SENSITIVITY (2Π) @1W/1m	103dB
RATED MAXIMUM SPL /1m @ 2Π	132.5dB
CALCULATED MAXIMUM SPL /1m @ 2Π [5]	138.5dB
CROSSOVER FREQUENCY	1.5 kHz
RECOMMENDED HPF	30 Hz, LR24
COVERAGE ANGLE (H×V)	100° × 20°–30°
ENCLOSURE TYPE	Bass-reflex enclosure
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate
INPUT CONNECTORS	Binding posts
MOUNTING OPTIONS	Behind-screen installation
DIMENSIONS W×H×D (mm)	W760 × H1316 × D465 mm
NET WEIGHT	61.9 kg

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05 FREQUENCY RESPONSE

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

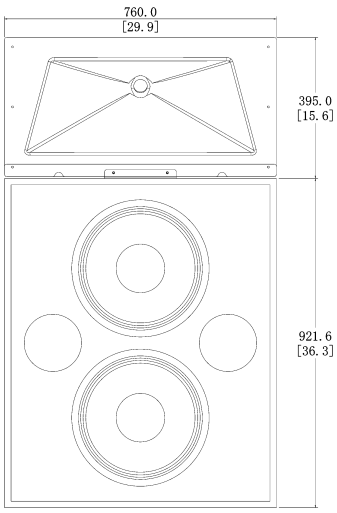
MV2250PRO



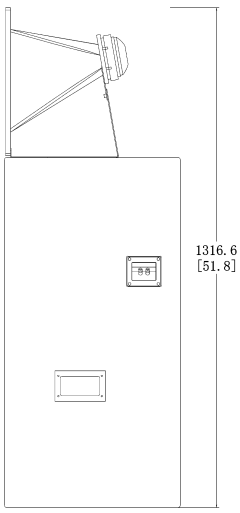
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

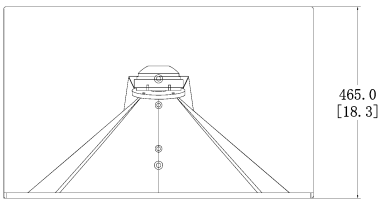
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



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.

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