SOVOX

MV210

SPECIFICATION

Two-way surround loudspeaker for the side- and rear-wall channels, with a 10-inch low-frequency driver and a 1-inch dome HF section, its 100° × 80° asymmetric coverage concentrating energy on the seating plane, for fixed wall mounting. Hall width ≤ 12 m/16 m[1]

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



- 10-inch LF driver with a 1-inch dome tweeter; 100° × 80° asymmetric coverage keeps energy on the seating plane.
- Horizontal coverage is wider than vertical, so more energy lands on the seats than on ceiling or floor.
- Built-in 3.0 kHz passive crossover inside the enclosure, so no external crossover is needed on site.
- ▲ 292 mm deep and 10.5 kg, with wall-bracket mounting for a simple installation.
- ▲ Quick-connect terminals save wiring time across dozens of positions.
- ■ 8 Ω nominal; one amplifier channel per enclosure, same-side units paralleled or series-paralleled.

02 OVERVIEW

The MV210 is a two-way surround loudspeaker in the MV Series for the side-wall and rear-wall channels of medium auditoriums, suitable for wall mounting. It pairs a 10″ low-frequency driver with a 1″ dome HF section and delivers 70 Hz–20 kHz (±3 dB) and 100° × 80° nominal coverage from a 292 mm deep bass-reflex enclosure — wider horizontally than vertically, spreading energy along the seating plane.

The 8 Ω nominal load suits conventional amplifier channels; 94 dB sensitivity and a 200 W AES 100-hour rating define its output capability. A fixed wall-mount bracket is fitted, and quick-connect terminals shorten the wiring time of an array that may run to dozens of positions. The bass-reflex MDF cabinet carries a PVC laminate finish, is 292 mm deep and weighs 10.5 kg net.

03 APPLICATIONS

Surround channels · Medium commercial auditoriums

04 SPECIFICATIONS

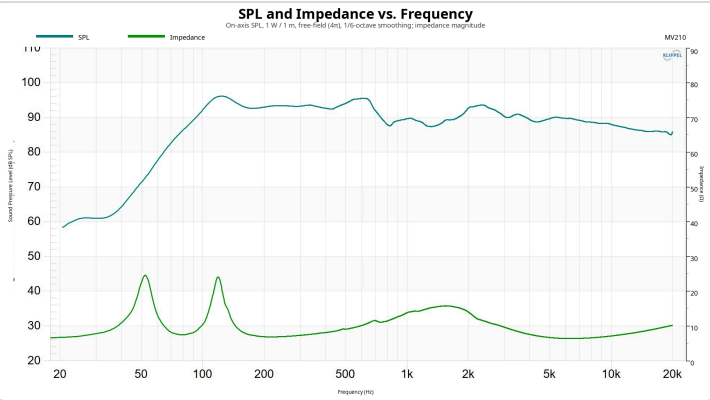
MODEL	MV210
PRODUCT TYPE	Cinema Surround Speaker
SYSTEM TYPE	Two-Way, Passive
DRIVER CONFIGURATION	10″LF+1″ HF dome
NOMINAL IMPEDANCE	8Ω
FREQUENCY RESPONSE (±3 DB @ 2Π)[2]	70 Hz–20 kHz
FREQUENCY RANGE (-10 DB @ 2Π)[2]	60 Hz–20 kHz
AES 100-HOUR POWER RATING[3]	200W
AES 2-HOUR POWER RATING	250W
PROGRAM POWER[4]	400W
SENSITIVITY (2Π) @1W/1m	94dB
RATED MAXIMUM SPL /1m @ 2Π	117dB
CALCULATED MAXIMUM SPL /1m @ 2Π[5]	123dB
CROSSOVER FREQUENCY	3.0 kHz
RECOMMENDED HPF	40 Hz
COVERAGE ANGLE (H×V)	100°×80°
ENCLOSURE TYPE	Bass-reflex enclosure
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate
INPUT CONNECTORS	Quick-connect terminals
MOUNTING OPTIONS	Wall
DIMENSIONS W×H×D (mm)	W400 × H481 × D292 mm
NET WEIGHT	10.5 kg

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05 FREQUENCY RESPONSE

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

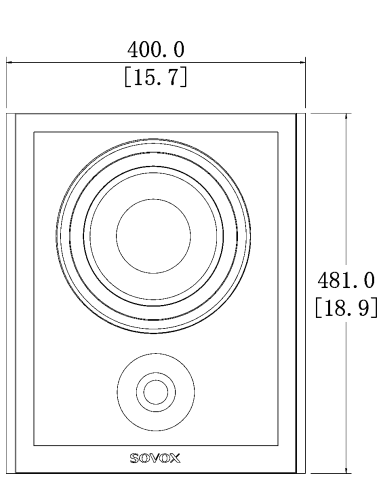
MV210



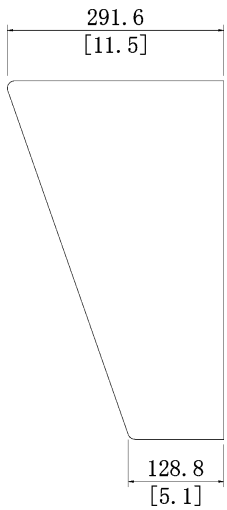
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

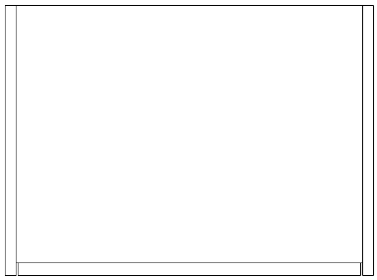
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



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: 82 dB for surround plus 20 dB peak headroom; hall width = lateral distance from the loudspeaker to the hall centre axis x 2. 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 width above derived from its AES 100-hour rating and system sensitivity, with drive-unit-level verification pending.

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