SOVOX

MV210P

SPECIFICATION

Two-way surround loudspeaker in the MV PRO line for the side- and rear-wall channels, with a 10-inch low-frequency driver and a 1.5-inch compression driver on an elliptical horn, its 100° × 80° asymmetric coverage concentrating energy on the seating plane, with a U-bracket for horizontal aiming or height-channel suspension. Hall width ≤ 17 m/24 m[1]

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



- 10-inch LF driver with a 1.5-inch compression driver and elliptical horn; 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 2.6 kHz passive crossover inside the enclosure, so no external crossover is needed on site.
- ▲ U-shaped one-piece bracket adjusts horizontally and also allows flying as a height channel.
- ▲ 292 mm deep and 12.9 kg, placing few demands on wall and ceiling fixings when used in rows.
- ■ 4 Ω nominal; verify amplifier current capability and cable loss when specifying the amplifier.

02 OVERVIEW

The MV210P is the high-output two-way surround loudspeaker of the MV PRO line, for the side-wall and rear-wall channels of medium-to-large auditoriums, and also suitable for ceiling suspension as a height channel for immersive formats such as Dolby Atmos. It pairs a 10″ low-frequency driver with a 1.5″ compression driver on an elliptical horn, delivering 65 Hz–20 kHz (±3 dB) and 100° × 80° nominal coverage from a 292 mm deep bass-reflex enclosure, keeping energy on the seating plane.

The high-frequency section is handled by the compression driver on the elliptical horn. The 4 Ω nominal impedance governs how many cabinets can share one channel and the cable size required, so amplifier current capability and cable loss must be checked at system design; 96 dB sensitivity and a 270 W AES 100-hour rating define its output capability. A U-bracket provides horizontal aiming and ceiling suspension as a height channel; the bass-reflex MDF cabinet carries a PVC laminate finish and weighs 12.9 kg net.

03 APPLICATIONS

Surround channels (including height channels) · Medium to large commercial auditoriums · Dolby Atmos and other immersive-audio auditoriums · Dome cinemas

04 SPECIFICATIONS

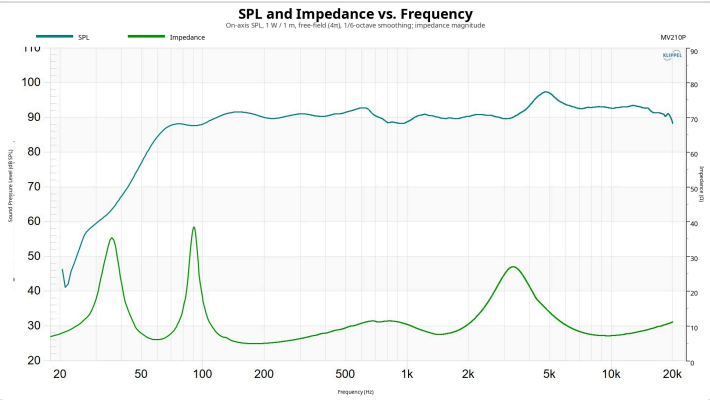
MODEL	MV210P
PRODUCT TYPE	Cinema Surround Speaker
SYSTEM TYPE	Two-Way, Passive
DRIVER CONFIGURATION	10″HF+1.5″HF Comp Driver
NOMINAL IMPEDANCE	4Ω
FREQUENCY RESPONSE (±3 DB @ 2Π)[2]	65 Hz–20 kHz
FREQUENCY RANGE (-10 DB @ 2Π)[2]	56 Hz–20 kHz
AES 100-HOUR POWER RATING[3]	270W
AES 2-HOUR POWER RATING	337.5W
PROGRAM POWER[4]	540W
SENSITIVITY (2Π) @1W/1m	96dB
RATED MAXIMUM SPL /1m @ 2Π	120.3dB
CALCULATED MAXIMUM SPL /1m @ 2Π[5]	126.3dB
CROSSOVER FREQUENCY	2.6 kHz
RECOMMENDED HPF	40 Hz
COVERAGE ANGLE (H×V)	100°×80°
ENCLOSURE TYPE	Bass-reflex enclosure
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate
INPUT CONNECTORS	Binding posts
MOUNTING OPTIONS	Wall / ceiling
DIMENSIONS W×H×D (mm)	W400 × H481 × D292 mm
NET WEIGHT	12.9 kg

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05 FREQUENCY RESPONSE

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

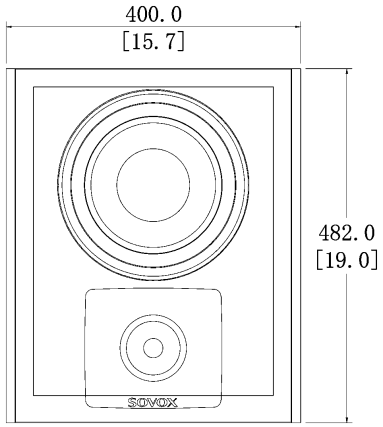
MV210P



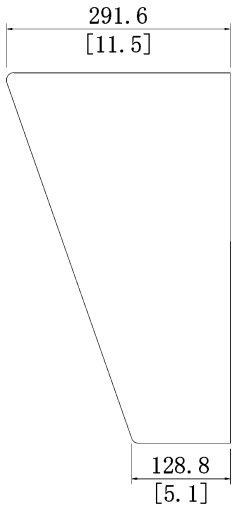
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

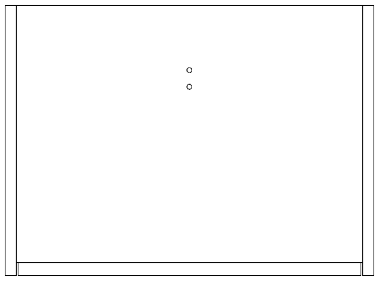
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



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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