SOVOX

MV2150

SPECIFICATION

Integrated passive two-way screen-channel loudspeaker with a single 15-inch woofer, for behind-screen main-channel use, multiplex, screening and dubbing rooms. Hall depth ≤ 14 m/19 m [1]

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



- ● A 15-inch woofer and a 2-inch titanium-diaphragm compression driver form a one-driver-per-band two-way configuration.
- ● The 15-inch woofer uses an ADM™ oil-treated cloth-edge paper cone with a 65.5 mm voice coil and 16.5 mm winding for sustained low-frequency duty.
- ▲ Integrated horn provides 90° × 40° nominal coverage across the principal seating area.
- ▲ Internal 1.8 kHz passive crossover allows full-range operation from a single amplifier channel through an 8-ohm nominal load.
- ■ 670 × 820 × 380 mm at approx. 33.3 kg suits space-conscious installation behind an acoustically transparent screen.
- ■ One-piece passive enclosure requires no external crossover or multi-channel amplification, simplifying amplifier setup and wiring.

02 OVERVIEW

The MV2150 is an integrated passive two-way screen channel loudspeaker in the SOVOX MV Series for small and medium commercial cinemas, intended for main channels behind acoustically transparent screens, as well as multiplex auditoria and screening or dubbing rooms. A single 15-inch woofer and a 2-inch titanium-diaphragm compression driver form a one-driver-per-band two-way system, covering 45 Hz–20 kHz (±3 dB, half-space) with a 30 Hz–20 kHz usable range and 90° × 40° nominal coverage.

The 15-inch woofer uses an ADM™ oil-treated cloth-edge paper cone, KLIPPEL-verified for approx. 10 mm excursion at 200 W without rubbing; the 2-inch compression driver pairs a titanium diaphragm with 106 dB driver sensitivity. The built-in 1.8 kHz passive crossover allows single-amplifier drive through an 8-ohm nominal load; the bass-reflex MDF cabinet with PVC laminate finish measures 670 × 820 × 380 mm at approx. 33.3 kg, suited to space-conscious installation behind an acoustically transparent screen.

03 APPLICATIONS

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

04 SPECIFICATIONS

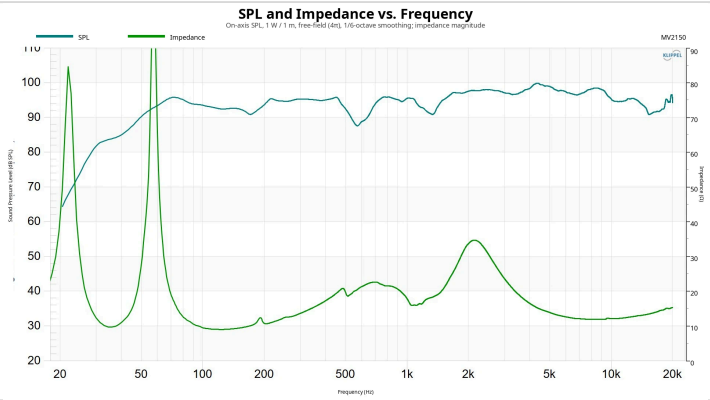
MODEL	MV2150
PRODUCT TYPE	Cinema Screen Speaker
SYSTEM TYPE	2-Way, Passive
DRIVER CONFIGURATION	15" LF × 1 + 2" HF × 1
NOMINAL IMPEDANCE	8Ω
FREQUENCY RESPONSE (±3 DB @ 2Π)[2]	45 Hz–20 kHz
FREQUENCY RANGE (-10 DB @ 2Π)[2]	30 Hz–20 kHz
AES 100-HOUR POWER RATING[3]	400W
AES 2-HOUR POWER RATING	500W
PROGRAM POWER[4]	800W
SENSITIVITY (2Π) @1W/1m	98dB
RATED MAXIMUM SPL /1m @ 2Π	124dB
CALCULATED MAXIMUM SPL /1m @ 2Π[5]	130dB
CROSSOVER FREQUENCY	1.8 kHz
RECOMMENDED HPF	30 Hz, LR24
COVERAGE ANGLE (H×V)	90° × 40°
ENCLOSURE TYPE	Bass-reflex enclosure
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate
INPUT CONNECTORS	Binding posts
MOUNTING OPTIONS	Behind an acoustically transparent screen
DIMENSIONS W×H×D (mm)	W670 × H820 × D380 mm
NET WEIGHT	33.3 kg

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05 FREQUENCY RESPONSE

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

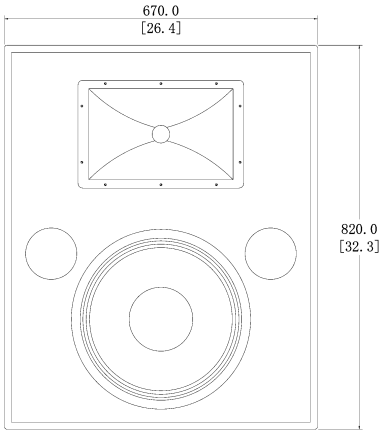
MV2150



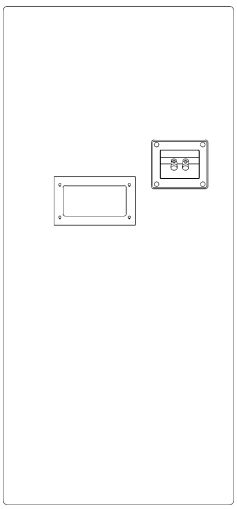
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

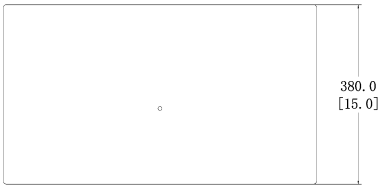
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



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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