Modular three-way screen-channel system with dual 12-inch LF and a dedicated 12-inch midrange, for screen-channel service. Hall depth ≤ 17 m/24 m [1]

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



- ● Dual 12-inch woofers with ADM™ tightly-pressed paper cones and stiff suspension for controlled, well-damped bass.
- ● A dedicated 12-inch midrange carries the dialogue band alone, without competing with the woofers for excursion.
- ● 3-inch compression driver with HLMS™ dual shorting rings (copper sleeve + aluminium ring) for linear motor behaviour at high output.
- ▲ 300 Hz LR24 active crossover, bi-amplified: LF and mid/high on separate amplifier channels.
- ▲ Mid/high module 302 mm deep and 17.2 kg, so it can be flown before the LF module is positioned.
- ■ Separate LF and mid/high enclosures, both 410 mm wide, stack into one flush column for easy wall recessing; the heaviest piece is 34.7 kg, so handling, positioning and servicing can be staged.

02 OVERVIEW

The M200 is a modular three-way screen-channel loudspeaker system for left, centre and right channels in small to medium-sized commercial cinema auditoria. It combines a dual 12-inch low-frequency module with a mid/high module featuring a dedicated 12-inch midrange and a 3-inch compression driver. Separate transducers handle the low-, mid- and high-frequency bands to support the reproduction of film dialogue, music and screen-channel effects.

The LF drivers feature SOVOX ADM™ pressed-paper cones, while the dedicated midrange reproduces the critical dialogue region. The HF compression driver incorporates SOVOX HLMS™ dual shorting-ring motor technology. An external processor provides a 300 Hz, 24 dB/oct Linkwitz-Riley active crossover, with separate external amplifier channels driving the LF and mid/high sections. An internal 1.8 kHz passive network integrates the midrange and HF drivers. Separate LF and mid/high enclosures (402 mm / 302 mm deep) are both 410 mm wide, so the stacked array recesses easily into a wall opening — well suited to dubbing stages and acoustically demanding auditoria.

03 APPLICATIONS

Behind-screen main channels · Small to medium commercial auditoriums · Dubbing rooms

04 SPECIFICATIONS

M200 ACTIVE CROSSOVER SYSTEM

PRODUCT TYPE	Cinema Screen Loudspeaker System
SYSTEM TYPE	3-Way, Bi-Amplified
FREQUENCY RESPONSE (±3 DB @ 2Π) [2]	45 Hz–18 kHz
FREQUENCY RANGE (-10 DB @ 2Π) [2]	33 Hz–20 kHz
COVERAGE ANGLE (H×V)	90° × 45°

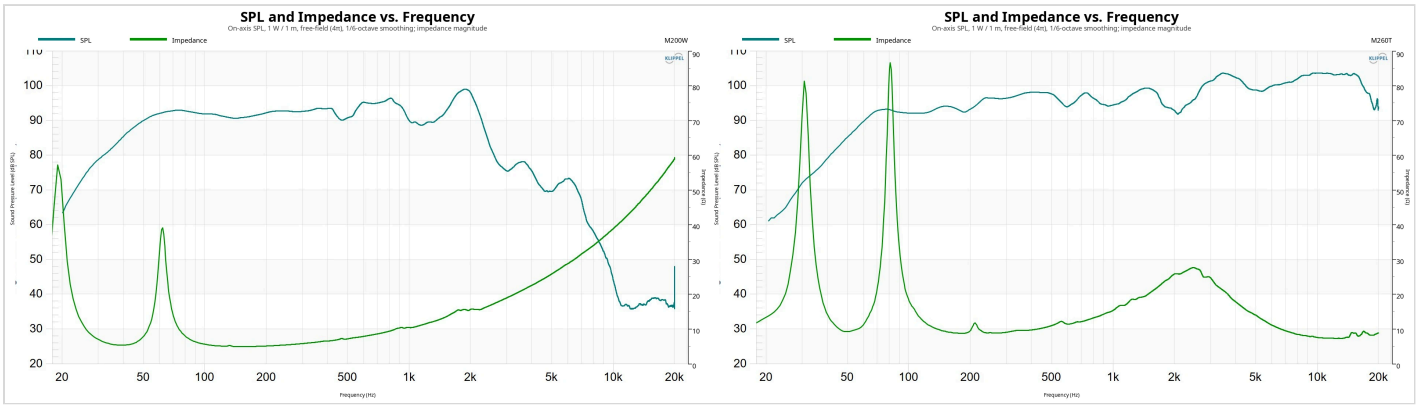
	M200(W) LF MODULE	**M260(T)** MF / HF MODULE
DRIVER CONFIGURATION	12"LF × 2	12"MF + 3"HF
NOMINAL IMPEDANCE	4Ω	8Ω
AES 100-HOUR POWER RATING [3]	600W	350W
AES 2-HOUR POWER RATING	750W	437.5W
PROGRAM POWER [4]	1200W	700W
SENSITIVITY (2Π) @1W/1m	98dB	102dB
RATED MAXIMUM SPL /1m @ 2Π	125.8dB	127.4dB
CALCULATED MAXIMUM SPL /1m @ 2Π [5]	131.8dB	133.4dB
CROSSOVER FREQUENCY	LR-24dB oct @300 Hz (LF–MF HF)	1.8 kHz passive (MF–HF)
RECOMMENDED HPF	30 Hz, LR24	-
ENCLOSURE TYPE	Bass-reflex enclosure	Bass-reflex enclosure with built-in horn
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate	MDF · PVC laminate
INPUT CONNECTORS	Binding posts	Binding posts
MOUNTING OPTIONS	Behind an acoustically transparent screen	On top of the LF module
DIMENSIONS W×H×D (mm)	W410 × H860 × D402 mm	W410 × H724 × D302 mm
NET WEIGHT	34.7 kg	17.2 kg

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05 FREQUENCY RESPONSE

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

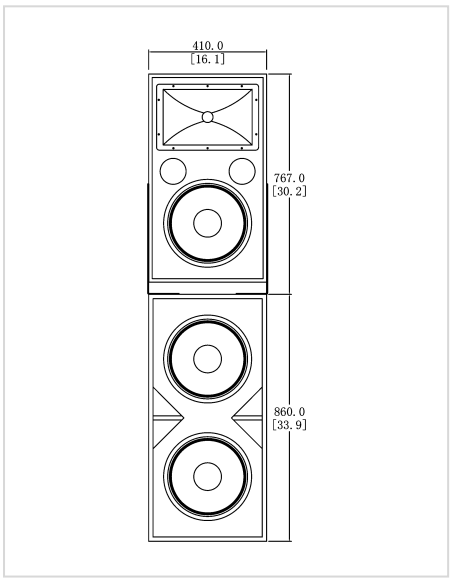
M200(W) · M260(T)



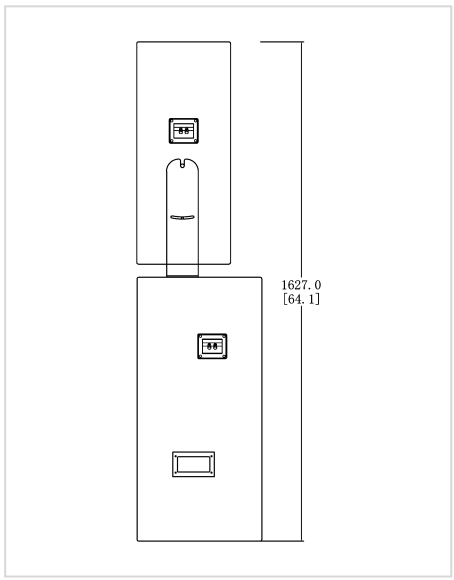
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

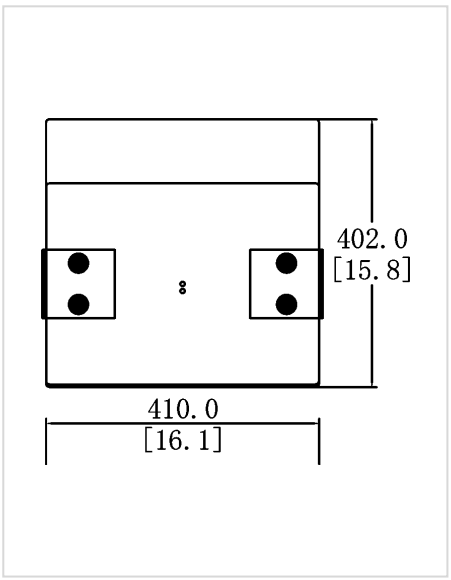
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



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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