SOVOX

ES3468

SPECIFICATION

Three-way, bi-amplified screen-channel system for non-acoustically-transparent Direct-View LED walls, with four 6.5-inch midranges in a slim bar-type module. Hall depth ≤ 16 m/23 m [1]

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



- ● Purpose-built for auditoria with non-acoustically-transparent Direct-View LED walls, keeping the acoustic image sourced from the screen plane and aligned with the picture.
- ● Dual 15-inch woofers with SOVOX ADM™ coated, cloth-edged tightly-pressed paper cones; frequency response 38 Hz–20 kHz (±3 dB) with usable extension to 28 Hz.
- ● Four 6.5-inch midrange drivers expand vocal-band radiating area and programme handling.
- ▲ The mid/high horn rotates as required, easing audience-area alignment across different screen positions and mounting orientations.
- ▲ Bi-amplified active crossover at 300 Hz (Linkwitz-Riley 24 dB/oct) assigns LF and MF/HF to dedicated amplifier channels, with a built-in 3.0 kHz passive network within the mid/high module.
- ▲ Slim mid/high module is only 198 mm deep, fitting the narrow space around LED panels.
- ■ Two-module division of labor (16.3 kg mid/high, 44.3 kg LF) eases screen-frame rigging.

02 OVERVIEW

The ES3468 is a three-way, bi-amplified screen-channel system for cinemas using non-acoustically-transparent Direct-View LED walls. Because an LED wall does not pass sound, the screen channel uses a two-module layout on or around the panel: a bass-reflex dual-15-inch low-frequency module anchors the low end, while a slim sealed mid/high module integrates four 6.5-inch midranges and a 3-inch compression driver. Frequency response is 38 Hz–20 kHz (±3 dB) with 100° × 20°–30° nominal coverage.

Only 198 mm deep and 16.3 kg, the bar-type mid/high module fits the narrow space beside or above the LED panel; the horn turns to suit the screen position and mounting orientation, keeping the acoustic image aligned with the picture. The four midranges share the vocal band in proportion to the dual-15-inch low-frequency section.

03 APPLICATIONS

Main channels for LED direct-view screens · LED-screen cinemas

04 SPECIFICATIONS

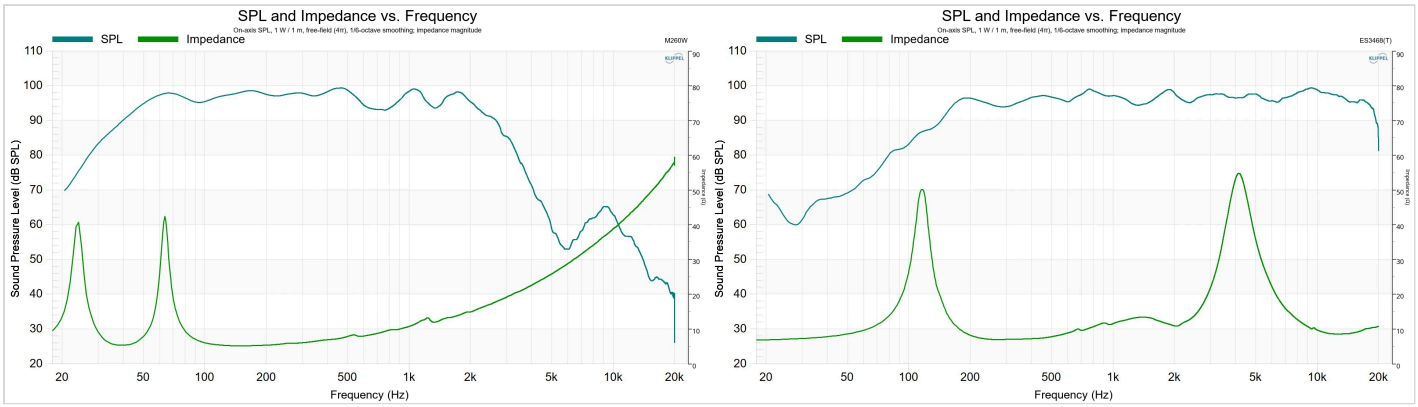
ES3468 ACTIVE CROSSOVER SYSTEM		
PRODUCT TYPE	Cinema Screen Loudspeaker System	
SYSTEM TYPE	3-Way, Bi-Amplified	
FREQUENCY RESPONSE (±3 DB @ 2Π)[2]	38 Hz–20 kHz	
FREQUENCY RANGE (-10 DB @ 2Π)[2]	28 Hz–20 kHz	
COVERAGE ANGLE (H×V)	100° × 20°–30°	
	M260(W) LF MODULE	**ES3468(T)** MF / HF MODULE
DRIVER CONFIGURATION	15" LF × 2	6.5" MF × 4 + 3" HF × 1
NOMINAL IMPEDANCE	4Ω	6Ω
AES 100-HOUR POWER RATING[3]	800W	450W
AES 2-HOUR POWER RATING	1000W	562.5W
PROGRAM POWER[4]	1600W	900W
SENSITIVITY (2Π) @1W/1m	102dB	99dB
RATED MAXIMUM SPL /1m @ 2Π	131dB	125.5dB
CALCULATED MAXIMUM SPL /1m @ 2Π[5]	137dB	131.5dB
CROSSOVER FREQUENCY	LR-24dB oct @300 Hz (LF–MF HF)	3.0 kHz passive (MF–HF)
RECOMMENDED HPF	25 Hz, LR24	-
ENCLOSURE TYPE	Bass-reflex enclosure	Sealed enclosure
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate	MDF · PVC laminate
INPUT CONNECTORS	Binding posts	Binding posts
MOUNTING OPTIONS	Screen-frame mounting	LED screen-frame mounting
DIMENSIONS W×H×D (mm)	W701 × H961 × D450 mm	W997 × H223 × D198 mm
NET WEIGHT	44.3 kg	16.3 kg

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05 FREQUENCY RESPONSE

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

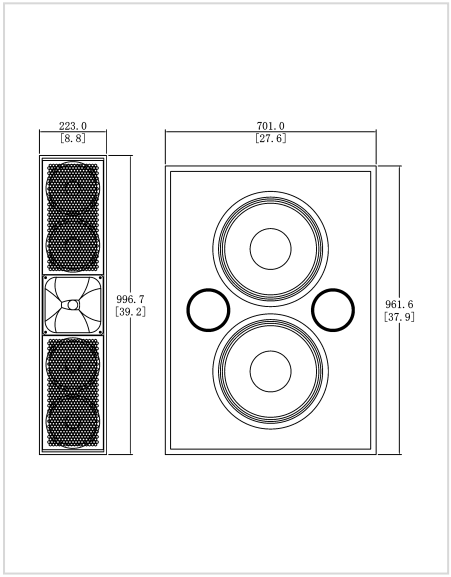
M260(W) · ES3468(T)



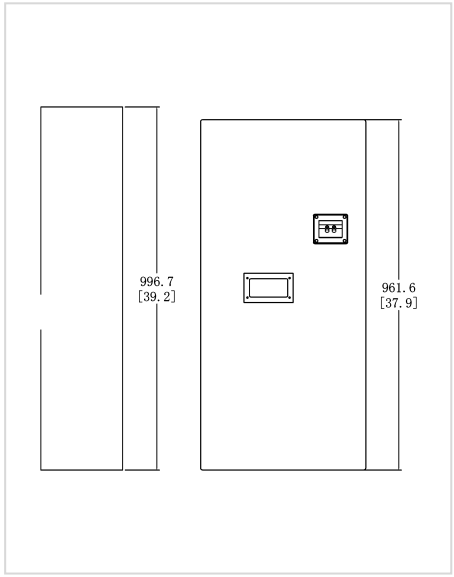
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

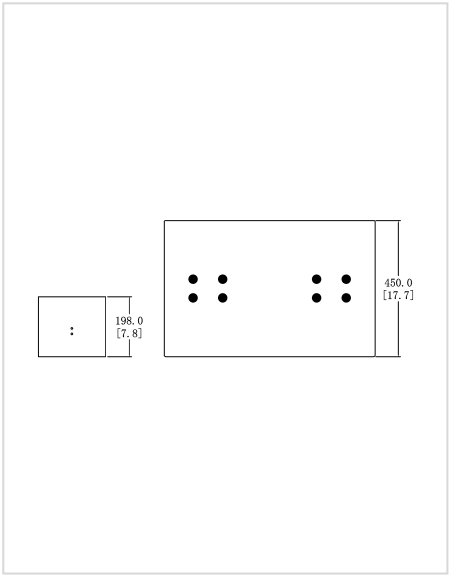
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



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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