SOVOX

MC4082

SPECIFICATION

Bi-amplified four-way screen-channel system pairing a dual 12-inch LF module with an 8-inch coaxial mid/high module and six ribbon super-tweeters.

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



- ● Coaxial 8″ mid and 2″ HF share one acoustic axis — aligned sources support stable dialogue imaging
- ● Six ribbon super-tweeters with integrated, ultra-light diaphragm-and-coil construction extend response to 20 kHz
- ● Dual 12-inch bass-reflex LF module; 42 Hz–25 kHz (±3 dB) system response
- ▲ 300 Hz LR24 active crossover, bi-amplified: LF and mid/high modules on separate amplifier channels
- ▲ Mid/high module stacks atop the LF enclosure — both 410 mm wide, forming one flush two-module array that recesses easily into the wall, for screen-frame mounting
- ■ 18 kg, 302 mm-deep mid/high module for staged handling behind the screen

02 OVERVIEW

The MC4082 is a bi-amplified, four-way screen-channel loudspeaker system combining a dual 12″ bass-reflex LF module with a mid/high module (8″ coaxial midrange, 2″ HF, and six ribbon super-tweeters). It delivers 42 Hz–25 kHz (±3 dB) response with 90° × 45° nominal coverage for behind-screen main channels in small-to-medium auditoria, screening rooms and dubbing stages.

A 300 Hz LR24 active crossover splits the LF and mid/high sections, each driven by its own amplifier channel; internal passive crossovers at 1.8 kHz and 4.0 kHz integrate the coaxial mid, HF and ribbon UHF bands within the mid/high module. The 8″ coaxial mid and 2″ HF share one acoustic axis, so their sources are coincident, while the six ribbon super-tweeters employ an integrated ultra-light diaphragm-and-coil construction for the top octave. The mid/high module stacks directly on the LF enclosure to form a compact two-module array; at 18 kg and 302 mm deep, it allows staged handling and positioning in confined screen-wall spaces, with screen-frame mounting. Both modules are 410 mm wide, so the stacked array is flush and recesses easily into a wall opening; in dubbing stages and acoustically demanding auditoria, this three-way layout — low, mid and high each handled by a dedicated driver — is especially well suited.

03 APPLICATIONS

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

04 SPECIFICATIONS

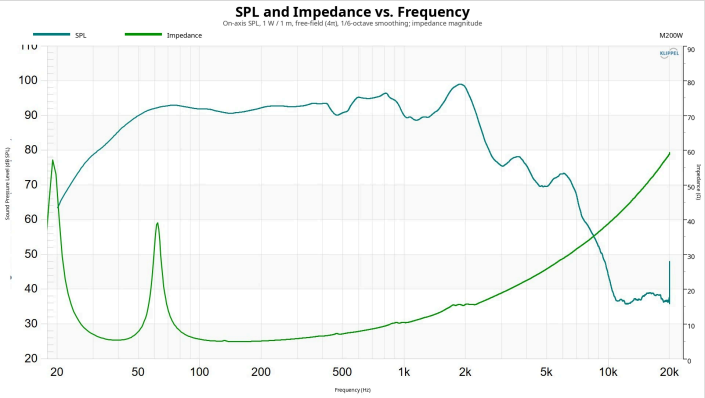
MC4082 ACTIVE CROSSOVER SYSTEM		
PRODUCT TYPE	Cinema Screen Loudspeaker System	
SYSTEM TYPE	4-Way, Bi-Amplified	
FREQUENCY RESPONSE (±3 DB @ 2Π)[1]	42 Hz–25 kHz	
FREQUENCY RANGE (-10 DB @ 2Π)[1]	28 Hz–25 kHz	
COVERAGE ANGLE (H×V)	90° × 45°	
	M200(W) LF MODULE	**MC4082(T)** MF / HF MODULE
DRIVER CONFIGURATION	12"LF × 2	8"MF+ 2"HF(coaxial)+ Ribbon UHF × 6
NOMINAL IMPEDANCE	4Ω	8Ω
AES 100-HOUR POWER RATING[2]	600W	180W
AES 2-HOUR POWER RATING	750W	225W
PROGRAM POWER[3]	1200W	360W
SENSITIVITY (2Π) @1W/1m	98dB	93dB
RATED MAXIMUM SPL /1m @ 2Π	125.8dB	115.6dB
CALCULATED MAXIMUM SPL /1m @ 2Π[4]	131.8dB	121.6dB
CROSSOVER FREQUENCY	LR-24dB oct @300 Hz (LF–MF HF)	1.8 kHz passive (MF–HF) & 4.0 kHz passive (HF–UHF)
RECOMMENDED HPF	30 Hz, LR24	-
ENCLOSURE TYPE	Bass-reflex enclosure	Sealed enclosure with coaxial driver and super-tweeter array
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate	MDF · PVC laminate
INPUT CONNECTORS	Binding posts	Binding posts
MOUNTING OPTIONS	Screen-frame mounting	On top of the LF module
DIMENSIONS W×H×D (mm)	W410 × H860 × D402 mm	W410 × H724 × D302 mm
NET WEIGHT	34.7 kg	18 kg

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05 FREQUENCY RESPONSE

On-axis frequency response, 1W/1 m, free-field, 1/6-octave smoothing[5]

M200(W) · MC4082(T)

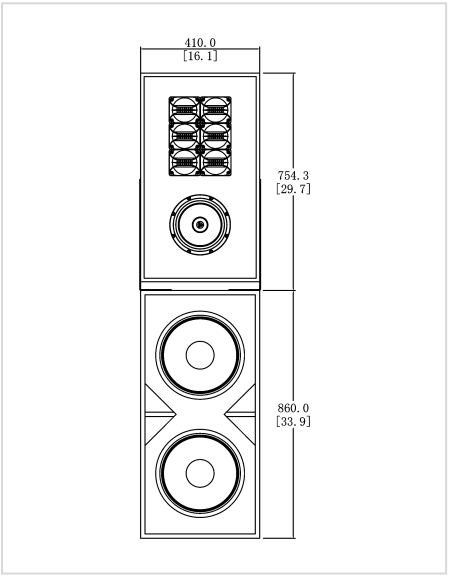


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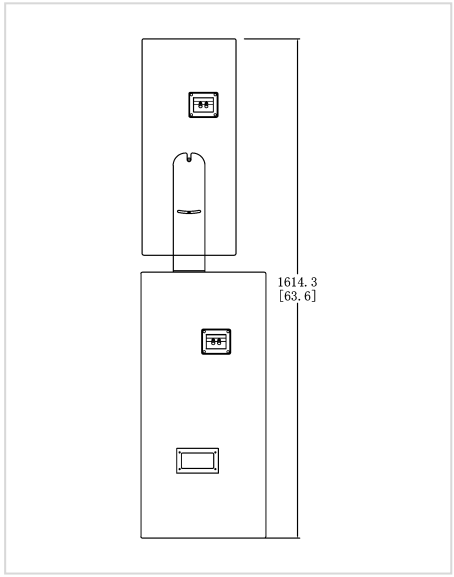
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

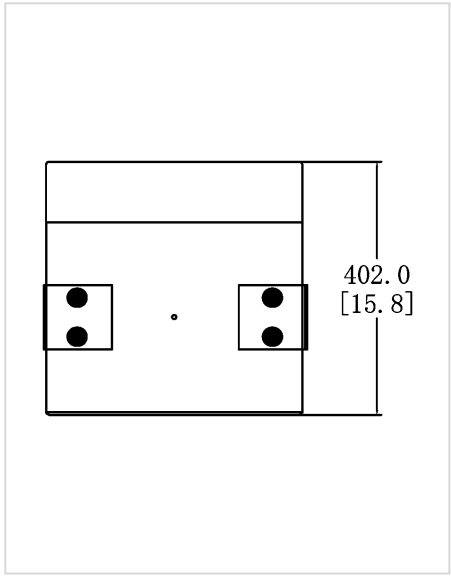
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



Front View



Side View



Top View

SPECIFICATION NOTES

1. 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.
2. 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
3. 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).
4. 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.
5. 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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