SOVOX

# MC4105

SPECIFICATION

Bi-Amplified Screen Channel Loudspeaker System

## 01 FEATURES



- Four-way, bi-amplified architecture with independent LF and mid/high-frequency amplifier channels
- 15" LF x 2 low-frequency section in a bass-reflex enclosure
- 10" coaxial MF + 2" HF + Ribbon UHF x 8 mid/high-frequency section
- 38 Hz–20 kHz frequency response with 90° x 45° nominal coverage
- LR-24 dB/oct @300 Hz (LF-MF/HF) active LF crossover; on top of the LF module

## 02 OVERVIEW

The MC4105 is a premium four-way, bi-amplified screen channel system that combines a 15" LF x 2 low-frequency module with a coaxial mid/high-frequency section and ribbon super-tweeters. The system delivers 38 Hz–20 kHz response and 90° x 45° nominal coverage for auditoriums that require precise dialogue localization, extended high-frequency detail, and substantial dynamic headroom.

## 03 APPLICATIONS

Behind-screen main channels · Multiplex cinemas · Screening & dubbing rooms

## 04 SPECIFICATIONS

**MC4105** ACTIVE CROSSOVER SYSTEM

| | |
|---|---|
| PRODUCT TYPE | Cinema Screen Loudspeaker System |
| SYSTEM TYPE | 4-Way, Bi-Amplified |
| FREQUENCY RESPONSE (±3 DB @ 2Π)[1] | 38 Hz–20 kHz |
| FREQUENCY RANGE (-10 DB @ 2Π)[1] | 28 Hz–20 kHz |
| COVERAGE ANGLE (H×V) | 90° × 45° |

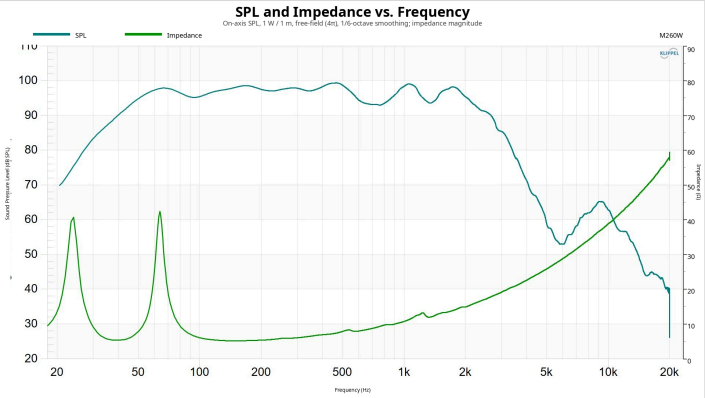
| | **M260(W)** LF MODULE | **MC4105(T)** MF / HF MODULE |
|---|---|---|
| DRIVER CONFIGURATION | 15"LF × 2 | 10" coaxial MF + 2" HF + Ribbon UHF × 8 |
| NOMINAL IMPEDANCE | 4Ω | 8Ω |
| AES 100-HOUR POWER RATING[2] | 800W | 270W |
| AES 2-HOUR POWER RATING | 1000W | 337.5W |
| PROGRAM POWER[3] | 1600W | 540W |
| SENSITIVITY (2Π) @1W/1m | 102dB | 100dB |
| RATED MAXIMUM SPL /1m @ 2Π | 131dB | 124.3dB |
| CALCULATED MAXIMUM SPL /1m @ 2Π[4] | 137dB | 130.3dB |
| CROSSOVER FREQUENCY | LR-24dB oct @300 Hz (LF–MF HF) | 1.8 kHz passive (MF–HF) & 4.0 kHz passive (HF–UHF) |
| RECOMMENDED HPF | 25 Hz, LR24 | - |
| ENCLOSURE TYPE | Bass-reflex enclosure | Sealed enclosure with coaxial driver and super-tweeter array |
| ENCLOSURE MATERIAL / FINISH | MDF · PVC | MDF · PVC laminate |
| INPUT CONNECTORS | Binding posts | Binding posts |
| MOUNTING OPTIONS | Behind-screen installation | On top of the LF module |
| DIMENSIONS W×H×D (mm) | W701 × H961 × D450 mm | W410 × H802 × D302 mm |
| NET WEIGHT | 44.3 kg | 22 kg |

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## 05 FREQUENCY RESPONSE

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

M260(W) · MC4105(T)

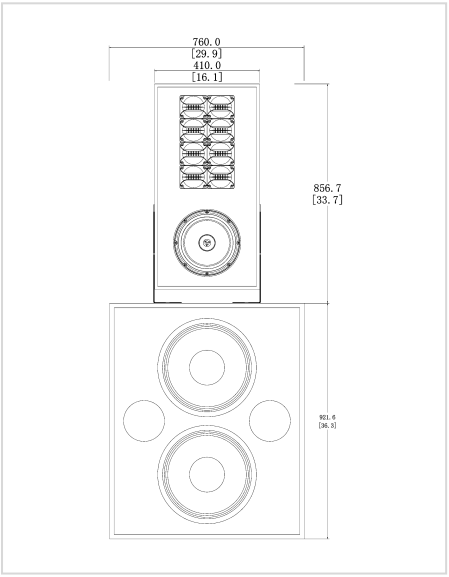



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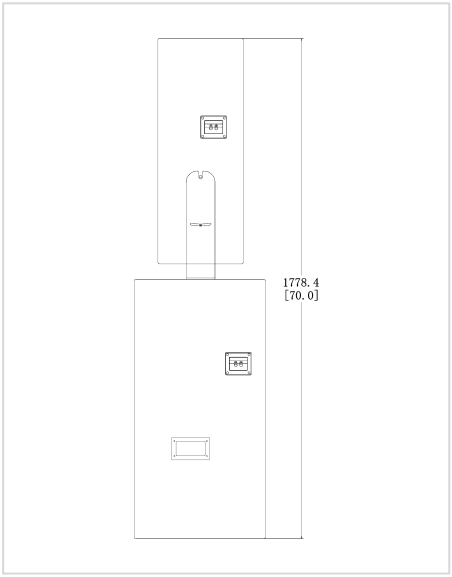
## 06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

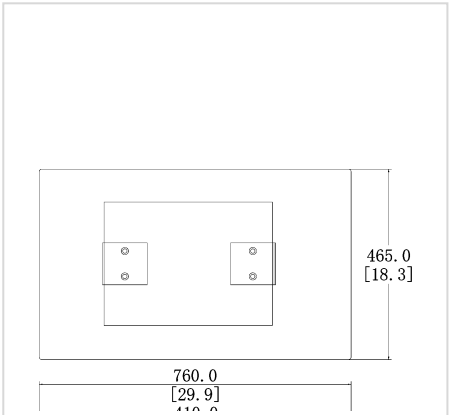
THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING




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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