# SPECIFICATIONS SM400iH

## DESCRIPTION

A 2-way full range system in a vented stage monitor enclosure. Includes 2x 12-in woofers and a 2-in exit compression driver on a 60° x 45° constant directivity horn. Powering mode is switchable: passive (LF/HF crossover) or bi-amplified.

## APPLICATION

The SM400iH is engineered for extended bandwidth response, maximum output and controlled coverage. Switch allows passive or bi-amp operation. Both types of industry standard connectors are supported for flexible "daisy chaining" of multiple monitors. Six year warranty.

Applications include:

| | |
|---|---|
| Concert Tours | Corporate Events |
| Major Televised Events | Cathedrals |
| Large Houses or Worship | Live Music Clubs |

## PERFORMANCE

| | |
|---|---|
| **Frequency Response (Hz)** | |
| ±3 db | 60 Hz to 18 kHz |
| -10 dB | 45 Hz |
| **Axial Sensitivity (dB SPL, 1 Watt @ 1m)** | |
| Full Range | 101 |
| Bi-amped LF | 101 |
| Bi-amped HF | 105 |
| **Impedance (Ohms)** | |
| Full Range Passive | 4 |
| Bi-amped LF | 4 |
| Bi-amped HF | 8 |
| **Power Handling (Watts, Continuous)** | |
| Full Range | 500 |
| Bi-amped LF | 1000 |
| Bi-amped HF | 200 |
| **Recommended High-Pass Frequency** | |
| 24 dB/Octave | 45 Hz |
| **Calculated Maximum Output (dB SPL @ 1m)** | |
| Full Range Peak | 134.0 |
| Bi-amped LF Peak | 137.0 |
| Bi-amped HF Peak | 134.0 |
| Full Range Long Term | 128.0 |
| Bi-amped LF Long Term | 131.0 |
| Bi-amped HF Long Term | 128.0 |
| **Nominal Coverage Angle, -6 dB Points (degrees)** | |
| Horizontal | 60 |
| Vertical | 45 |

## PHYSICAL

| | |
|---|---|
| LF Subsystem | 2x 12-in, vented |
| HF Subsystem | 1x 2-in exit compression driver on constant directivity horn |
| Configuration | 2-way, full range floor monitor |
| Powering | Switchable: full range (passive LF/HF crossover) or bi-amplified |
| Controls (switches, knobs) | Powering mode switch |
| Cabinet Type (shape) | Irregular pentagon (floor monitor) |
| Enclosure Materials | Baltic birch plywood |
| Finish | Black catalyzed polyurethane |
| Connectors | Right Side: 2x Neutrik NL4 Speakon, 1x Male AP4<br>Left side: 1x Neutrik NL4 Speakon, 1x Female AP4 F |
| Grille | Vinyl coated perforated steel, foam backed |

| **Dimensions** | **Inches** | **Millimeters** |
|---|---|---|
| Height (face) | 22.5 | 572 |
| Width | 27.5 | 699 |
| Depth | 14.8 | 375 |
| Minimum Stage Height | 18.0 | 455.4 |
| Floor Angle(s) | 40° up | |

| **Weights** | **Pounds** | **Kilograms** |
|---|---|---|
| Net Weight | 98 | 44.6 |
| Shipping Weight | 108 | 49.1 |

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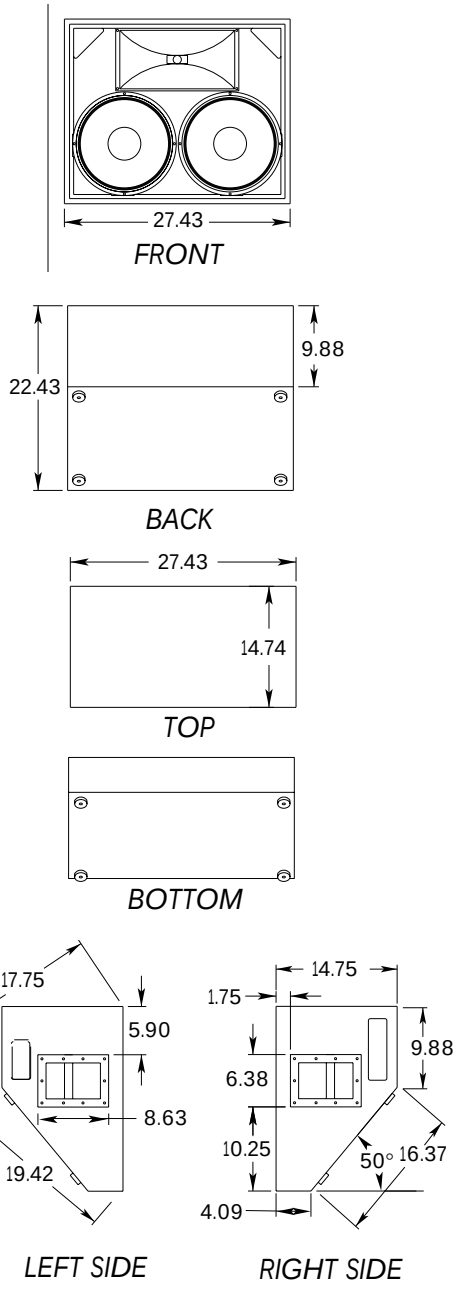
## DIMENSIONAL DRAWING

*ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.*




## A & E SPECIFICATIONS

The two-way full range loudspeaker systems shall incorporate 2x 12-in LF transducers and a 2-in exit compression driver HF transducer.

The LF driver shall be mounted in a vented enclosure tuned for optimum low frequency response. The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (h) x 45° (v). An internal passive filter network shall provide fourth order acoustical crossover and system equalization.

System frequency response shall vary no more than ±3 dB from 60 Hz to 18 kHz measured on axis. In passive mode, the loudspeaker shall produce a Sound Pressure Level (SPL) of 101 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 134 SPL on axis at 1 meter. It shall handle 500 Watts of amplifier power (continuous) and shall have a nominal impedance of 4 Ohms.

In bi-amped mode, the low frequency section shall produce a Sound Pressure Level (SPL) of 101 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 137 SPL on axis at 1 meter. The low frequency section in bi-amped mode shall handle 1000 Watts of amplifier power (continuous) and shall have a nominal impedance of 4 Ohms. In addition, the high frequency section in bi-amped mode shall produce a Sound Pressure Level (SPL) of 105 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 134 SPL on axis at 1 meter. The high frequency section in bi-amped mode shall handle 200 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be irregularly pentagonal in shape with its baffle angled up 40°. It shall be constructed of multi-ply, void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black catalyzed polyurethane. Input connectors shall be one Neutrik NL4 Speakon and one male AP4 on the right side plus one Neutrik NL4 Speakon and one female AP4 on the left side. The system shall include a switch allowing it to be operated in bi-amp or passive powering mode. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grille backed with open cell foam to protect against dust.

The two-way full range loudspeaker shall be the EAW model SM400iH.

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Manufacturing tolerances are +/- 0.13 and +/- 1°

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