



SPECIFICATIONS SM500iV

DESCRIPTION

A 2-way full range system in a vented stage monitor enclosure. Includes a 15-in woofer 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 SM500iV is engineered for 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 of Worship | Live Music Clubs |

PERFORMANCE

| | |
|---|-----------------|
| Frequency Response (Hz) | |
| +3 db | 65 Hz to 18 kHz |
| -10 dB | 50 Hz |
| Axial Sensitivity (dB SPL, 1 Watt @ 1m) | |
| Full Range | 98 |
| Bi-amped LF | 98 |
| Bi-amped HF | 106 |
| Impedance (Ohms) | |
| Full Range | 8 |
| Bi-amped LF | 8 |
| Bi-amped HF | 10 |
| Power Handling (Watts, Continuous) | |
| Full Range | 600 |
| Bi-amped LF | 1000 |
| Bi-amped HF | 200 |
| Recommended High-Pass Frequency | |
| 24 dB/Octave | 50 Hz |
| Calculated Maximum Output (dB SPL @ 1m) | |
| Full Range Peak | 131.8 |
| Bi-amped LF Peak | 134.0 |
| Bi-amped HF Peak | 135.0 |
| Full Range Long Term | 125.8 |
| Bi-amped LF Long Term | 128.0 |
| Bi-amped HF Long Term | 129.0 |
| Nominal Coverage Angle, -6 dB Points (degrees) | |
| Horizontal | 60 |
| Vertical | 45 |



PHYSICAL

| | | |
|----------------------------|---|--------------------|
| LF Subsystem | 1x 15-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 Left Side: 1x Neutrik NL4 Speakon 1x Female AP4 | |
| Grille | Vinyl coated perforated steel, foam backed | |
| Options | Standard config MX200-5M | |
| Dimensions | Inches | Millimeters |
| | Height (face) | 25.2 641 |
| | Width | 18.2 464 |
| | Depth | 14.8 375 |
| | Minimum Stage Height | 19.9 504 |
| Floor Angle(s) | 40° up | |
| Weights | Pounds | Kilograms |
| | Net Weight | 89 40.5 |
| | Shipping Weight | 95 43.2 |

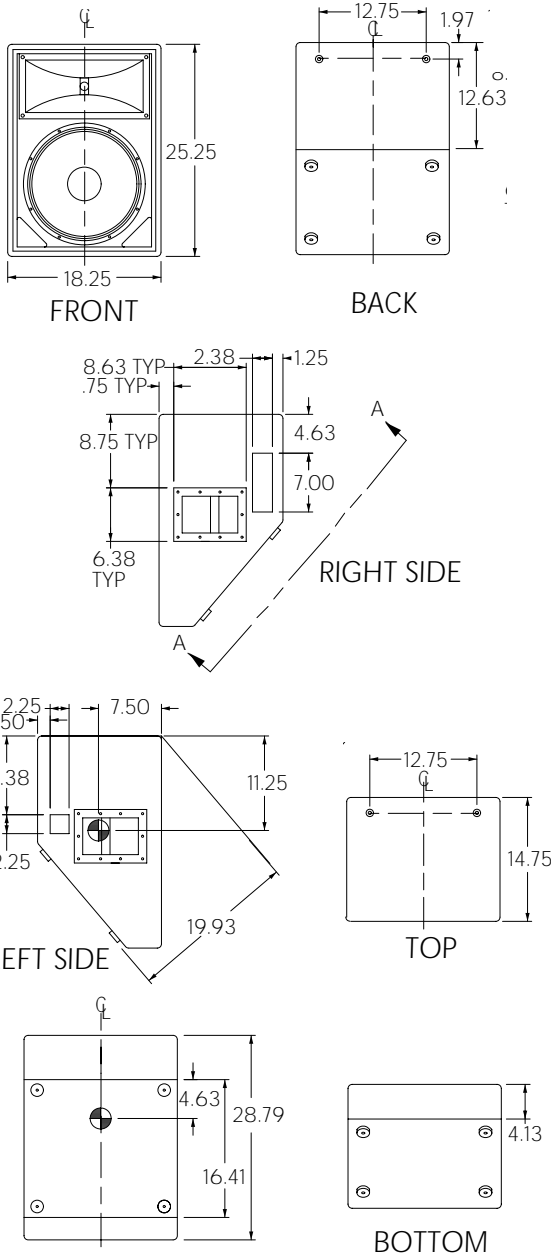




SPECIFICATIONS SM500iV

DIMENSIONAL DRAWING

◎ 3/8"-16 THREADED HOLE
 ⊕ CENTER OF GRAVITY
 CABINET SYMMETRICAL ABOUT ITS CENTER LINES.
 ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.



A & E SPECIFICATIONS

The two-way full range loudspeaker systems shall incorporate a 15-in LF transducer 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 65 Hz to 18 kHz measured on axis. In passive mode, the loudspeaker shall produce a Sound Pressure Level (SPL) of 98 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 131.8 SPL on axis at 1 meter. It shall handle 600 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms.

In bi-amped mode, the low frequency section shall produce a Sound Pressure Level (SPL) of 98 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 low frequency section in bi-amped mode shall handle 1000 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms. In addition, the high frequency section in bi-amped mode shall produce a Sound Pressure Level (SPL) of 106 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 135 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 10 Ohms.

The loudspeaker enclosure shall be irregularly trapezoidal 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 SM500iV.

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3/9/97

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

