



## ***Product Specification Sheet***

### **SM-181**

### **Ultra-Low Profile Compact Stage Monitor**

#### **General**

The SM-181 is a compact ultra-low profile / low sight line, two-way (Full Range) stage monitor loudspeaker system. The SM-181 is a versatile loudspeaker system ideally suited for a variety of near field applications such as Houses of Worship; classrooms; boardrooms; restaurants and lounges where a low profile and low sight line (less than 10" high) stage monitor with high output and superb sonic quality is required. The SM-181 incorporates a CNC machined wooden high frequency wave-guide horn with coverage parameters of 110° Conical Dispersion. This exceptionally designed and crafted horn is coupled to a 1" exit HF driver. The horn driver assembly delivers energy where it's precisely required - to the audience. An optional 90° x 60° Rotatable Constant Dispersion horn is also available. The low frequencies are handled by one 8" transducer matched to the high frequency horn – placing all devices in a similar wave pattern. An internal passive crossover has been engineered to effectively manage the system. Dual ¼" Jacks or Dual NL4 inputs on the sides allow convenient daisy-chaining of multiple monitors. The unit has a 16-gauge enamel coated perforated steel grille. The SM-181 can also be ordered with an optional strap handle for ease of movement.

#### **Construction**

For structural integrity ¾" birch veneer plywood is used. Top, bottom, rear, and side panels are reinforced internally with wood bracing, which is both, glued and cross-nailed in place. Finish options include Unfinished, Black or White Textured Enamel paint.

#### **SM-181 Application**

The SM-181 should be used when a compact high output loudspeaker is needed for sound reinforcement and music playback in Stage Monitor or other Near Field applications. The SM-181 can be used in Houses of Worship, Live Theater, Lounges, Bars and Restaurants, Nightclubs, Schools, Airports, Spas, Boardrooms, and Convention Centers.

#### **Architectural Specifications**

The loudspeaker shall be of the two-way type. The loudspeaker shall incorporate one 8" woofer capable of handling 200 watts of continuous power. A 1" exit Mylar diaphragm compression driver coupled to a 110° Conical Dispersion CNC machined wooden HF Wave-Guide, or a 90° x 60° Rotatable Constant Dispersion horn shall reproduce the high frequencies. The system will have a frequency range of 70 Hz – 20 kHz +3/-3dB, a pressure sensitivity of 97.3dB at 1 watt power capacity measured at 1 meter and averaged between 125 Hz and 16 kHz. The cabinet shall be constructed of ¾" birch veneer plywood and braced internally. All exposed corners shall be rounded for damage resistance. A 16-gauge enamel coated perforated steel grille shall be provided for protection of the transducers. An optional strap handle shall be available for ease of movement. The loudspeaker shall be the OAP SM-181.

Rev. B (05/13)

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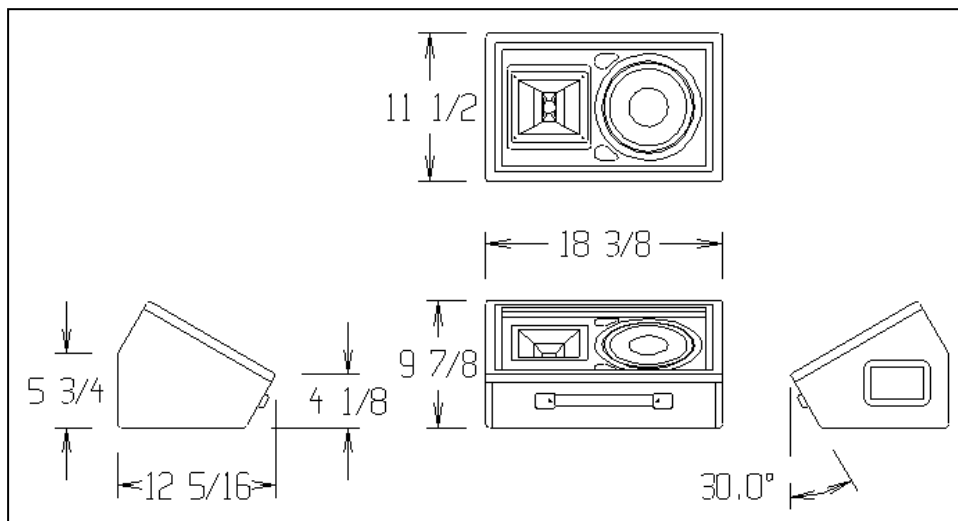
## Warranty

OAP Audio SM-181 Model Loudspeakers are guaranteed against failure due to workmanship and materials for a period of five years from the date of purchase and is limited to the original purchaser. If such failure does occur, the unit will be replaced or repaired (at the discretion of OAP Audio) without charge for labor and materials. The unit must be delivered to OAP Audio or one of its authorized service facilities prepaid. In-warranty items will be returned prepaid. Items not covered by warranty include: finish or appearance items, burned coils, or failures due to operation under other than specified conditions. This warranty also does not include any incidental or consequential damages. Repair by someone other than OAP Audio or an authorized OAP service facility will void this guarantee.

*NOTE: As a research and development corporation, OAP Audio reserves the right to change specifications to improve performance.*

## Specifications (SM-181)

<b>Impedance</b>	8 ohm nominal
<b>Frequency Response</b>	70 Hz – 20kHz (+/- 3 dB) 55 Hz – 22kHz (+/- 6 dB)
<b>Power Handling</b>	200 Watt Continuous Power
<b>Sensitivity</b>	97.3 dB @ 1 W / 1 m (avg. between 125 Hz – 16 kHz)
<b>Dimensions</b>	18.375" W x 9.875" H x 12.3125" D
<b>Angles</b>	35° and 55°
<b>Weight</b>	28 lbs.
<b>Low Freq. Device</b>	8" woofer, (2" voice coil, vented pole piece, 30 oz Mag.)
<b>High Freq. Driver</b>	1" exit w/ 1.75" voice coil diameter, Mylar diaphragm
<b>Horn</b>	110° Conical Dispersion CNC machined wooden HF Wave-Guide, or optional 90° x 60° Rotateable Constant Dispersion horn.
<b>Finish</b>	Unfinished; Black or White Textured Enamel Paint.
<b>Grill</b>	16-Ga. Perf. Steel
<b>Input</b>	Dual ¼" Jacks or Optional Dual NL4 w/ L-Pad, 2-way passive crossover (Red+/Black-)
<b>Handle</b>	optional strap handle.



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