



MT-102

Portable Two-Way Loudspeaker System

General

The MT-102 is a portable two-way passive trapezoid shaped loudspeaker with an integrated handle and pole mount socket. The low frequency spectrum is handled by a cast frame 10" radiator, while a 1" throat titanium diaphragm driver coupled to a 90° x 40° defined coverage horn extends high frequency performance. To achieve low crossover insertion loss and high reliability, 14-gauge wire and mylar capacitors are used throughout with all components mechanically secured to a glass epoxy PC board. To ensure enclosure stability, 3/4" birch plywood is used with all interconnecting surfaces extensively braced and glued. The MT-102 uses a 16-gauge perforated grill for speaker component protection. Standard finish is black textured paint, with white or unpainted as an option. Like all other OAP loudspeaker systems, the MT-102 comes with a five-year warranty.

Applications

The MT-102 should be used when a compact, high output full-range loudspeaker is needed for portable sound. It can be a stand-alone system operated passively (standard) or in a bi-amp mode (optional) with frequency response down to 78 Hz. The MT-102 can also be used as a "mid-hi" section of an extended range system when used with low-frequency speakers such as the OAP Audio LF-115, TR-215, LF-118 and TR-218. It can be stand mounted by using a 1.5" diameter tube speaker stand.

MT 102xover and optional Connector Panels

The MT-102 is supplied with the MT-102XOVER input panel. This panel has parallel 1/4" jacks for input connectors. For all OAP 1/4" operations, the tip is positive and the sleeve is negative. For multi-pin cable use, the optional IP-4NS Neutrik Speakon connector panel is available. For the IP-4NS Neutrik Speakon, input panel: pin 1 - is LF negative; pin 1 + is LF positive; pin 2- is HF negative; pin 2+ is HF positive. Terminal strip input panels are also available.

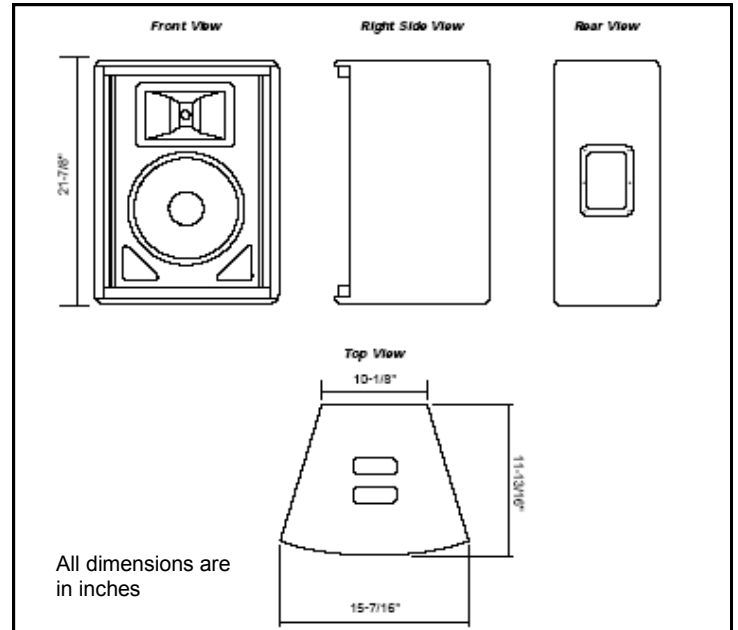
To change input panels, remove the phillips head screws. Lift the panel from the enclosure and disconnect the input panels by pulling apart the connector. To install the new panel, reverse the above procedure. Insure that there is a color continuity on both sides of the connector.

Warranty

OAP Audio Engineered Sound Series loudspeakers are guaranteed against failure due to workmanship and materials for a period of five (5) years from date of purchase and is limited to original purchaser. If such failure does occur, unit will be replaced or repaired (at the discretion of OAP Audio) without charge for labor or materials. Unit must be delivered to OAP Audio or one of it's authorized service facilities prepaid. In warranty items will be returned prepaid. Items not covered by warranty includes finish or appearance items, burned coils, or failure due to operation under other than specified conditions. This warranty also does not include any incidental or consequential damages. Repair by other than OAP Audio or an authorized service facility will void this guarantee.

Architectural Specifications

The loudspeaker shall be of the two-way type and trapezoid shape (15°



taper). The loudspeaker shall incorporate a 10" low frequency driver, and a 1" compression driver mounted on a defined coverage horn. The system shall have a frequency range of 78 Hz to 16,000 Hz, a pressure sensitivity of 102 dB at 1 watt power capacity giving a maximum output capability of 121 dB measured at 1 meter and averaged between 125 Hz and 8,000 Hz. The cabinet shall be constructed of void-free 3/4" birch plywood and stiffened internally. All exposed corners shall be rounded for damage resistance. The top and bottom of the cabinet shall be 1.5" thick. The system shall be the OAP MT-102.

Specifications

Low Frequency Driver	10" with a cast frame, 2.5" edgewound V.C.
High Frequency Driver	1" throat driver with 1.75" titanium diaphragm
High Frequency Horn	1" throat defined coverage horn, 90°x40° dispersion
Impedance	8 ohms nominal
Frequency Response	78Hz to 16KHz
Sensitivity	102db 1 watt @ 1 meter averaged between 125 Hz and 8,000 Hz. 121db maximum @ 1 meter averaged between 125 Hz and 8,000 Hz.
Power Handling	300 watts program power
Dimensions	15.5" W x 22" H x 11.75" D
Weight	50 lbs.
Trapezoid Taper	Front to back, 15° each side
Input Connector	Parallel 1/4" jacks or barrier strip, NL4 optional
Color	Black texture is standard with white and unfinished optional
Grill	Black epoxy perforated 16 gauge carbon steel, white grill available as option
Roadcoat (optional)	Black. Durable 100% polyurea coating for the ultimate in protective finishes.

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

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