MACH M154I

KEY FEATURES

- Modular crossover switchable between passive and active mode
- 19 mm MDF cabinet with 2mm extruded aluminum profiles
- Service free thermal compression driver protection
- 15" low/mid device
- 1" compression driver
- Five integrated M10 flying points combined with internal steel bracing
- Polyurethane coated top and bottom plates with integrated handles
- Speakon terminal with link option
- Optional top-hat adapter

DESCRIPTION

The M154i is a compact yet very powerful top-box. It is a dedicated top-box designed to be supported by the M152i or M182i subwoofer. The solid bass reflex cabinet uses a 15" customized mid/high unit especially optimized for excellent clarity and detail in the crucial midrange area. The unit features a conical diaphragm and heat management is taken care of by a double cooling system which ensures a minimum of power compression. The conical diaphrag enables the unit to perform with a linear response up to 2 kHz. A special 1" compression driver with a 2" diaphragm mounted behind a 100 x40 degrees horn is featured in the M154i. The diaphragm is extremely light weight giving the unit an oputput similar to that of many 2" drivers while maintatning excellent HF performance. The trapezoid shaped cabinet is reinforced by black anodized interlocking aluminum profiles. The heavy-duty, moisture- and scratch-proof steel grill emphasizes the rugged yet stylish design of the M154i. The crossover is placed directly behind the Speakon terminal and can be switched between active and passive mode. It features a thermal protection circuit in active as well as passive mode.

The cabinet is made of 19mm Medium Density Fiberboard (MDF) built around an integrated solid steel frame combining reinforcement and four M10 flying points. M154i features an optional top-hat adapter.

SPECIFICATIONS

Passive mode:

Power rating IEC268:	425 watt
Power rating peak:	1700 watt
Sensitivity 1w/1m:	102 dB
Max SPL, calculated long term:	128 dB
Max SPL, peak:	134 dB
Frequency range +/-3dB:	75 Hz - 20 kHz
Nominal impedance:	8 ohm
Recommended amplifier:	600 watt in 8 ohm

Drive units:

Woofer	15” with 4” voice coil
Nominal impedance:	8 ohm
Power handling AES:	425 watt
Sensitivity 1w/1m:	102 dB
Maximum SPL, calculated:	128 dB
Maximum SPL, peak:	134 dB
Recommended amplifier:	600 watt into 8 ohm
Compression driver:	2” diaphragm, 1” throat
Nominal impedance:	16 ohm
Power handling AES:	50 watt
Sensitivity 1w/1m:	107 dB
Maximum SPL, calculated:	124 dB
Maximum SPL, peak	130 dB
Recommended amplifier:	75 watt into 16 ohm

Weight & Measurements:

Dimensions (HxWxD):	72x49x45 cm (28x19x18 in)
Net weight:	39 kg / 86 lbs
Finish:	Black SafeCoat coating
Grille:	2 mm steel with foam backing
Input connectors:	2 x Speakon® NL 4
Top-hat adapter:	35 mm. diameter
Rigging hardware:	Eyebolt part no. 93940002

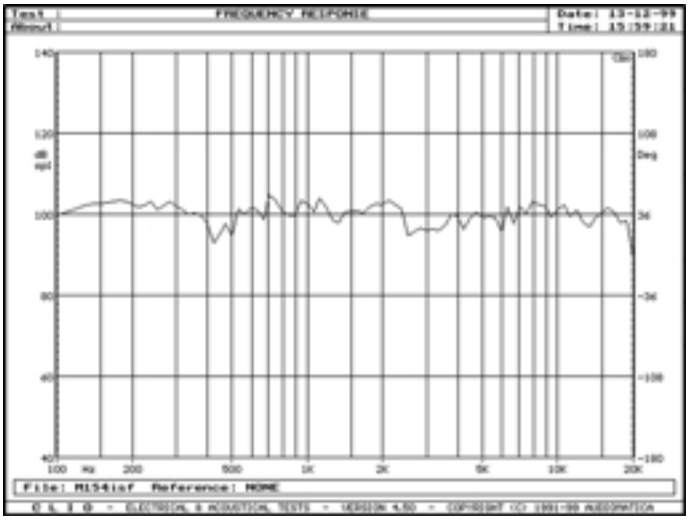
ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way reflex-tuned top-box with an IEC268 power handling of 425 watt and a frequency response from 80-20kHz with a crossover point at 1.3 kHz. The loudspeaker system shall have a sensitivity of 102 dB and a maximum output of 128 dB. The loudspeaker shall also have a built-in modular, switchable passive crossover with double protection circuit. The loudspeaker system shall have one 15" low/mid device and one 1" compression driver with a lightweight polyester diaphragm. The woofer shall have an 8-ohm load, the compression driver shall have a 16-ohm load. The loudspeaker shall also have two flying points in the top and bottom plates, which shall be protected with the SafeCoat surface. The enclosure shall be constructed of 19mm Medium Density Fiber, built around an aluminum frame, equipped with internal metal bracing, trapezoidal in shape with a 15 degree angle and shall be 72cm(28in) high, 49cm(19in) wide and 45cm(18in) deep with a weight of 39kg(86lbs). The loudspeaker system shall be the Mach M154i.

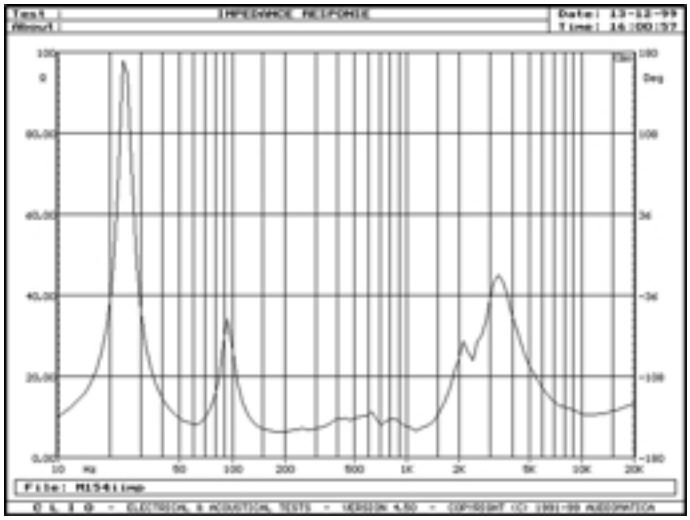
NOTE: Mach is continually working in reseach and production improvements, which can be introduced into existing products without notice. The products will always equal or exceed the original design specifications unless otherwise stated.

MACH M154I

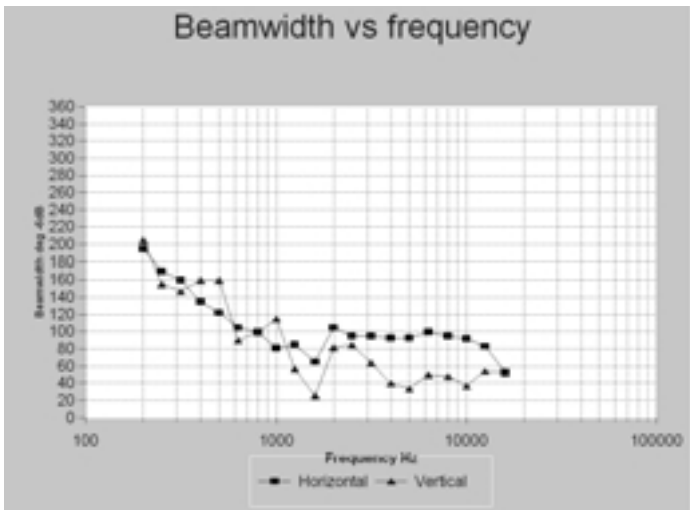
FREQUENCY RESPONSE

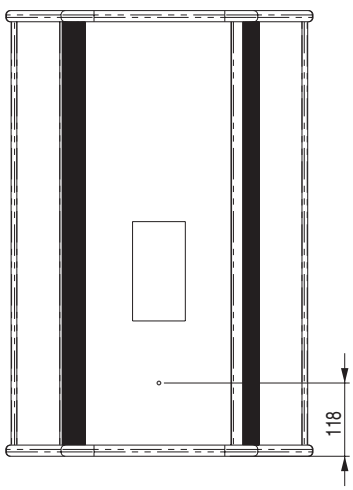


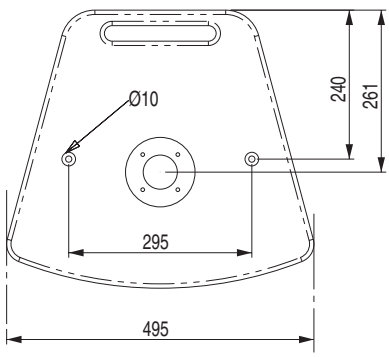
IMPEDANCE RESPONSE

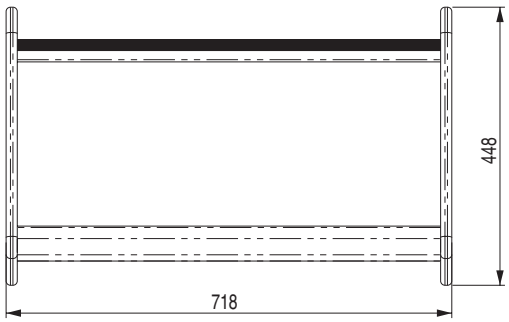


DISPERSION VS. FREQUENCY









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