M12T



Key Features

- 2" "SlingShot" compression driver
- · Customized horn with 55x45 degree dispersion
- Customized 12" woofer with 4" voice coil
- Modular crossover switchable between Passive and Active mode
- Highly durable SafeCoat coating
- "SlingShot" flying system
- Speakon® NL4 with Link

Description

The M12T is a full-range speaker designed specifically for AV production companies. It offers a solid bass response despite the compact cabinet and excels with regard to speech intelligibility. The custom designed horn has been developed speficially for the 2" driver and features the Mach WaveShaper technology which reduces eddy current at the flare exit and improves throw and clarity. The 55x45 degree dispersion pattern is highly controlled and ensures excellent performance when multiple M12T's are used in clusters. A special composite material was developed for the hornflare. It combines stiffness with high inner damping and reduces resonance to inaudible levels. The cabinets are made of the finest 18mm, 13 ply Finnish birch, cut on CNC machines, assembled by trained Danish carpenters and treated with the Mach SafeCoat, a highly scratch resistant, UV stable polyurethane/polyurea coating. All medium throw Touring models come with our modular passive crossover which can be switched to active mode. Impedance relation between crossovers and drivers has been carefully designed and the special low current technique ensures superb performance and reliability at maximum SPL. The crossover is mounted directly behind the Speakon terminal for easy access and features a thermal protection circuit. The 2mm steel grille is designed to be part of the structural strength of the cabinets and has the Mach logo discretely engraved in each corner. The cabinet features integrated handles and a fast and flexible flying system made of black anodized aircraft alloy. The 15 degree trapezoidal shape of the top-boxes facilitates easy design of clusters and arrays. M12T features an integrated top-hat adapter.

SPECIFICATIONS

Passive mode:

Power rating IEC268: Power rating, peak: Sensitivity 1w/1m: Max SPL, calculated long term: Max SPL, peak Frequency range +/-3dB: Nominal impedance: Recommended amplifier:

Drive units:

Woofer: Nominal impedance: Power handling AES: Sensitivity 1w/1m: Maximum SPL, calculated: Maximum SPL, peak: Recommended amplifier: Compression driver: Nominal impedance: Power handling AES: Sensitivity 1w/1m: Maximum SPL, calc. long term: Maximum SPL, peak Recommended amplifier:

Weight & Measurements: Dimensions (HxWxD):

Flying system: Finish: Grille:

Net weight:

Input connectors: Top-hat adapter: Rigging hardware: 420 watt 1680 watt 97 dB 125 dB 131 dB 57 Hz - 20 kHz 8 ohm 600 watt in 8 ohm

12" with 4" voice coil 8 ohm 600 watt 97 dB 125 dB 131 dB 600 watt in 8 ohm 3" diaphragm, 2" throat 16 ohm 140 watt 108 dB 130 dB 136 dB 200 watt in 16 ohm

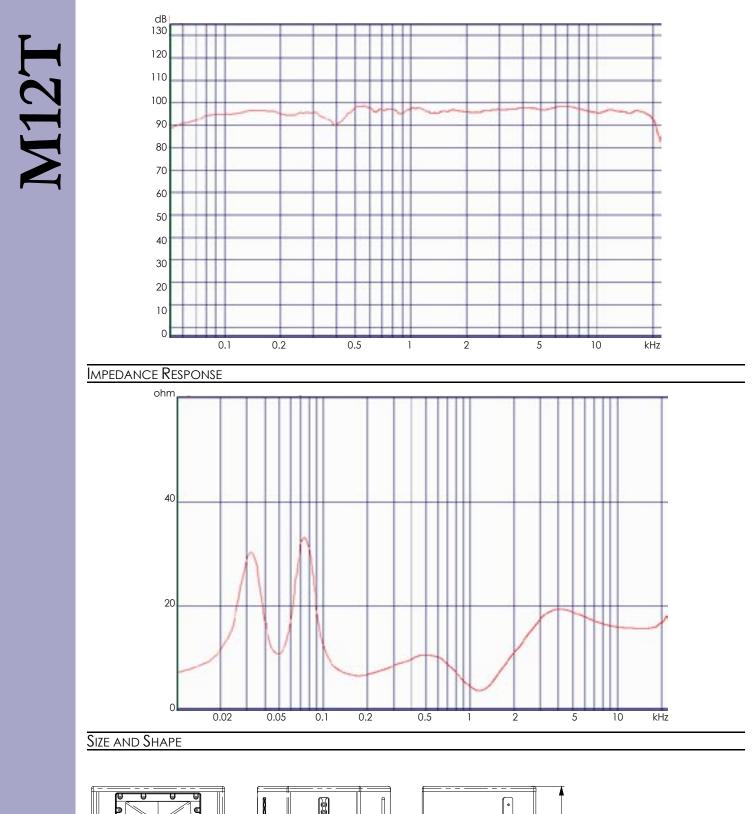
61x46x36 cm (24x18x14in) 34 kg (75 lbs) Flying tracks accept double stud Black SafeCoat coating 2 mm steel with foam backing 2 x Speakon® NL 4 35 mm. diameter Double Stud & Ring part no. 93944004

ARCHITECTURAL SPECIFICATIONS

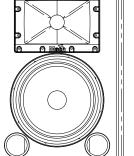
The loudspeaker system shall be a two-way, reflex-tuned, full-range speaker with an IEC268 power handling of 420 watt and a frequency response from 57Hz-20kHz with a crossover point at 1.6 kHz and a 55x45 degree dispersion pattern. The loudspeaker system shall have a sensitivity of 97 dB and a maximum output of 125 dB. The loudspeaker shall also have a built-in, modular, switchable passive crossover with protection circuit. The loudspeaker system shall have one 12" woofer and one 2" compression driver with a titanium diaphragm and Mylar suspension. The woofer shall have an 8 ohm load. The compression driver shall have a 16 ohm load. The loudspeaker shall also have a three-point flying system, each with a documented load of 2145 kg. The cabinet shall be protected with the SafeCoat surface, constructed of 18mm Finnish plywood, trapezoidal in shape with a 15 degree angle and be 61cm(24in) high, 46cm(18in) wide and 36cm(15in) deep with a weight of 35kg(75lbs). The loudspeaker system shall be the Mach M12T.

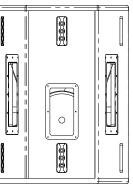
NOTE: Mach is continually working on research and production improvements, which can be introduced into existing products without notice. The products will always equal or exceed the original design specifications unless otherwise stated.

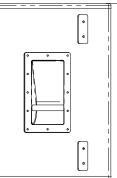




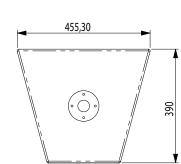






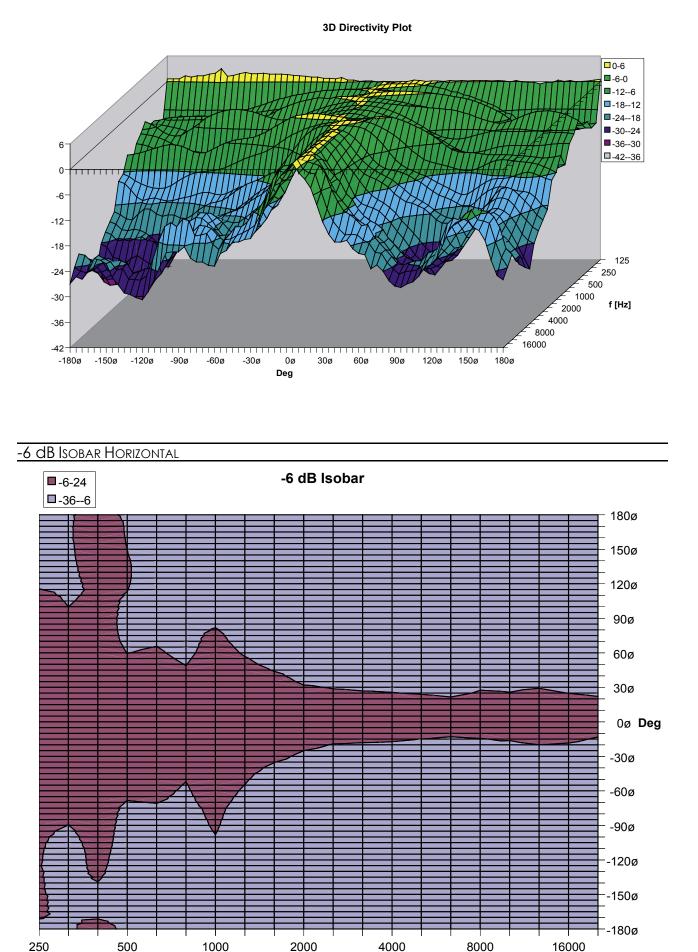


610,50



3D DIRECTIVITY PLOT HORIZONTAL

M12T

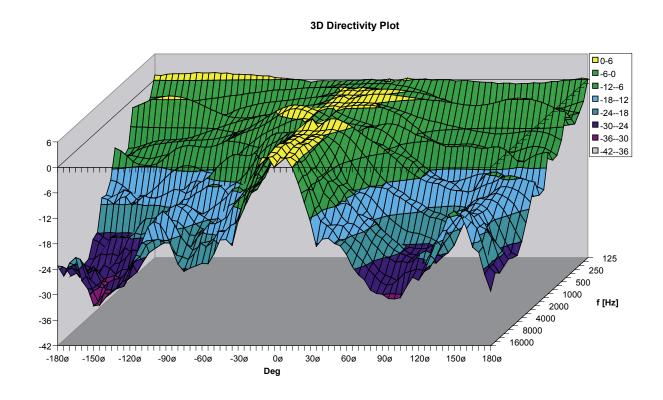


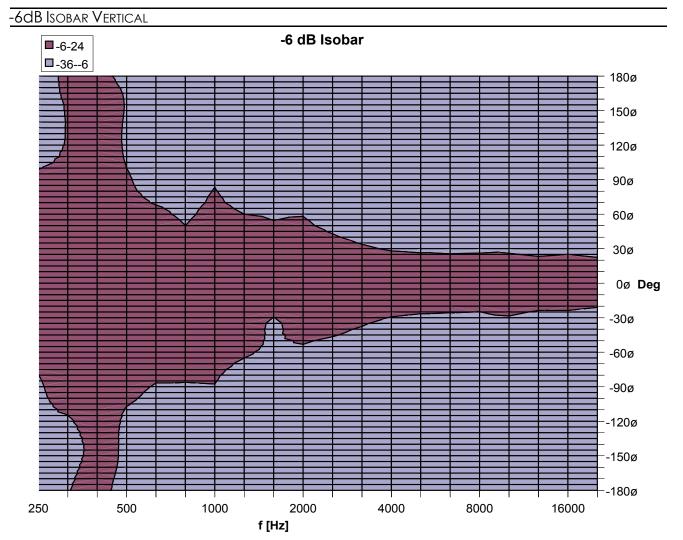


f [Hz]

3D DIRECTIVITY PLOT VERTICAL

M12T







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