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MILAN MI5

ENGINEERING INFORMATION

The MILAN MI5 is a compact trapezoidal self-powered two-way loudspeaker enclosure designed for use in a wide variety of live sound, corporate rental and mobile DJ applications that require professional sound quality in an easily transportable format.

It consists of a custom designed 15" reflex-loaded neodymium low frequency driver and a 1" high frequency compression driver on a 90°H x 60°V dispersion HF horn in an optimally tuned and extensively ribbed and rigidised enclosure, together with an integrated lightweight Class D amplifier module featuring both mic and line inputs.

All operating controls, connectors and indicators are provided on the rear panel. The amplifier provides two input channels – which are both mic/line switchable – with balanced combination jack/XLR connectors, individual level controls, as well as bass and treble tone controls and a switchable low frequency contour when using the MI5 with subwoofers. A balanced XLR output provides a line level mix out signal to additional powered MILAN enclosures. Mains power is supplied via an IEC mains connector with integrated fuseholder. The auto-sensing power supply operates on AC line voltages from 100V to 240V, allowing it to be used practically anywhere in the world. The lightweight 450 watt Class D amplifier features sophisticated DSP which provides dynamic EQ and limiting functions to ensure high performance and long term reliability. Status LEDs indicate mains power, the presence of input signal, and limiter action.

The trapezoidal cabinet is constructed from gas injected polypropylene, and the symmetrical 43° angled sides enable its use as a compact wedge monitor. A dual angle pole mount socket is fitted for use with optional 35mm poles and loudspeaker stands. Recessed flush handles are provided on the cabinet sides as well as a handle on the top for easy lifting and carrying. A powder-coated perforated galvanised steel mesh grille protects the drive units from damage.

Rigging points are provided on the top and bottom to enable vertical or horizontal suspension in permanent installations using M10 eyebolts.

FEATURES

- Rigidised injection moulded enclosure
- Digitally self-powered with integral DSP
- Two input channels
- Mic/line switchable
- Two band EQ
- Mix Out function
- Neodymium drive unit
- Frequency dependent limiting
- Trapezoidal shape
- Symmetrical wedge angle
- Integral rigging points
- Dual angle pole mount

APPLICATIONS

- Live sound
- Mobile DJ
- Wedge monitoring
- Corporate rental

Turbosound
PROEL GROUP COMPANY

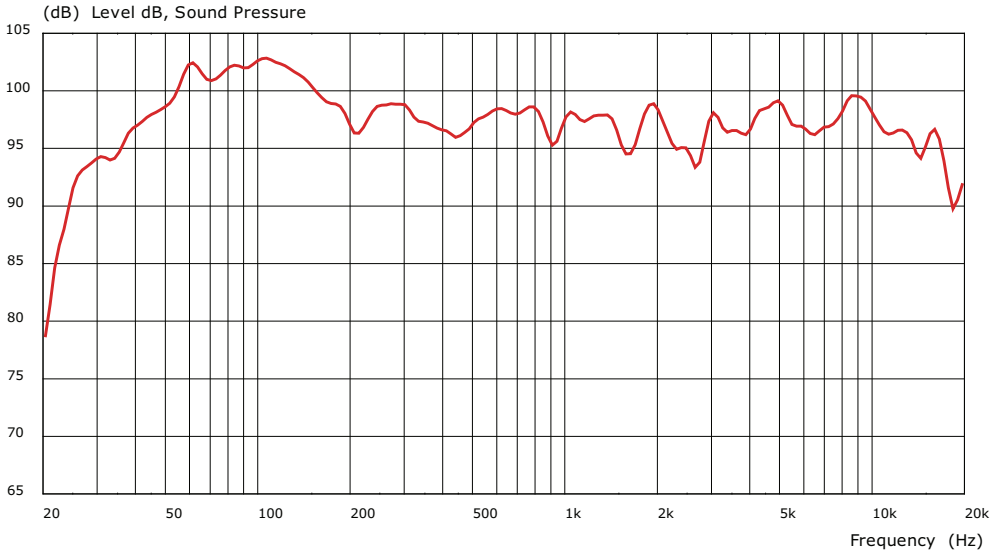
ENGINEERING INFORMATION

DIMENSIONS (HxWxD)	720mm x 470mm x 400mm (28.3" x 18.5" x 15.7")
NET WEIGHT	22kg (48.4lbs)
COMPONENTS	1 x 15" (381mm) LF driver, 1 x 1" (25mm) HF compression driver
FREQUENCY RESPONSE	36Hz – 17kHz ±3dB, 23Hz – 22kHz ±10dB
NOMINAL DISPERSION	90°H x 60°V @ -6dB points
MAXIMUM SPL	125dB continuous, 131dB peak
CONSTRUCTION	Injection-moulded polypropylene enclosure. Self-coloured in black/blue. Three recessed carrying handles. Integral dual angle pole mount socket
GRILLE	Powder coated perforated galvanised steel mesh
CONNECTORS	Input: (2) Jack/XLR female, wired pin 2 hot; Mix out: (1) XLR male, wired pin 2 hot; IEC mains connector with integrated fuseholder
CONTROLS	Gain (per input channel), 4th order high-pass filter at 100Hz, mains on/off, 2 band EQ
INDICATORS	Signal LED (green), Limit LED (red), power LED (blue)
AMPLIFIER	**TYPE:** Class D **POWER OUTPUT:** 450 watts continuous @ 8 ohms (1kHz, 0.01% THD) **MAX INPUT:** +20dBu **USER EQUALISATION:** 2-band shelf switchable high-pass filter at 100Hz **LIMITING:** Thermal limiter, current overload **POWER REQUIREMENTS:** 100V to 230V AC @ 50/60Hz
RIGGING HARDWARE	(6) M10 internal threaded rigging points

SPARES AND ACCESSORIES

LS-1530	15" (381mm) LF loudspeaker
CD-118	1" (25mm) HF compression driver
RD-116/118	Replacement HF diaphragm
MG-MI5	Metal grille
PB-55	Wall bracket, pole mount fixing
EB-10	M10 shoulder eyebolt

FREQUENCY RESPONSE

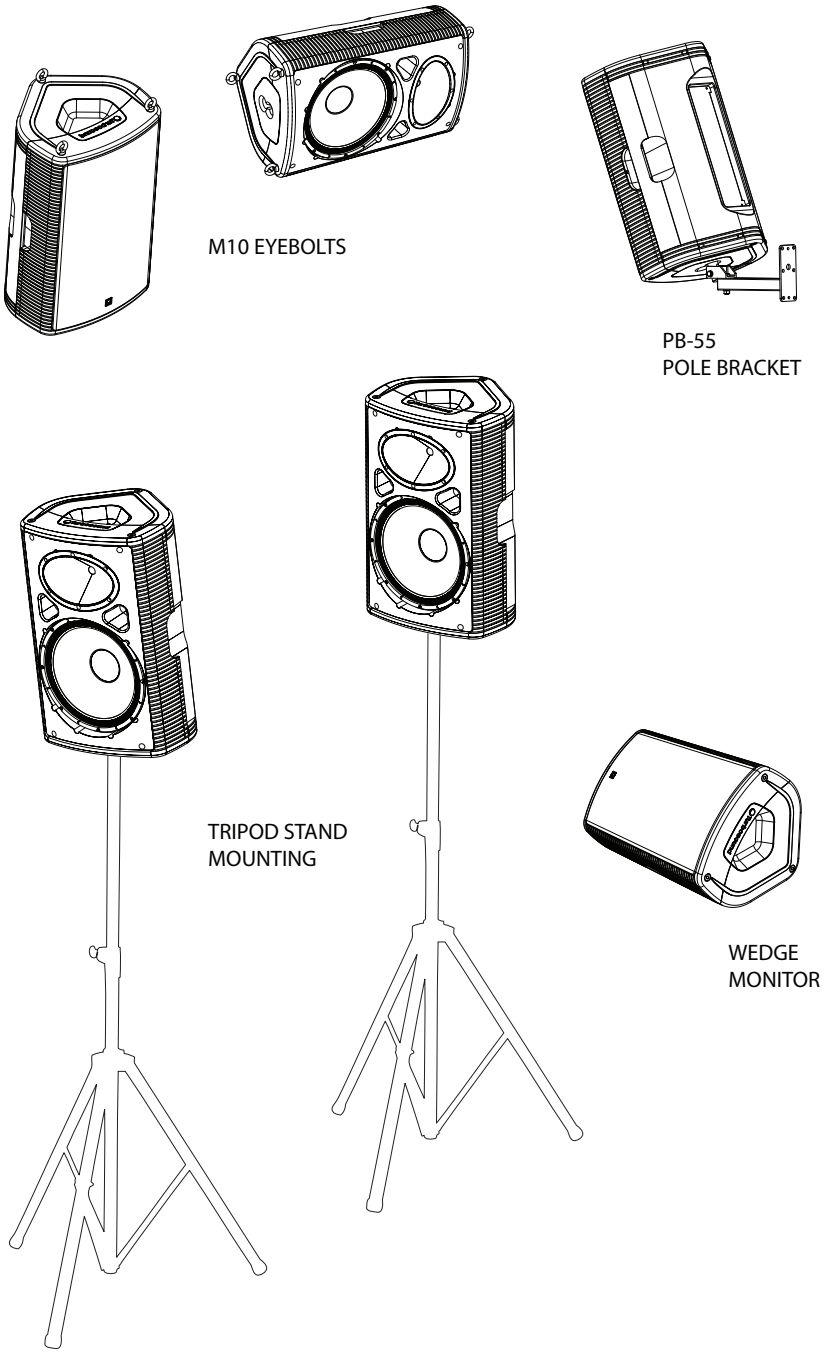


INSTALLATION AND RIGGING HARDWARE

The enclosure is fitted with M10 rigging points on the top and bottom to allow single loudspeakers to be rigged vertically or horizontally in permanent installations using M10 eyebolts. The PB-55 pole bracket enables cabinets to be wall mounted and allows for a range of adjustment angles.

For portable applications the cabinet's dual angle pole mount socket allows it to be mounted on 35mm speaker stands, or pole mounted on a bass encloures, with the option to tilt the cabinet downwards for improved coverage.

The symmetrical trapezoidal side angle allows the MI5 to be used in all floor monitoring applications.



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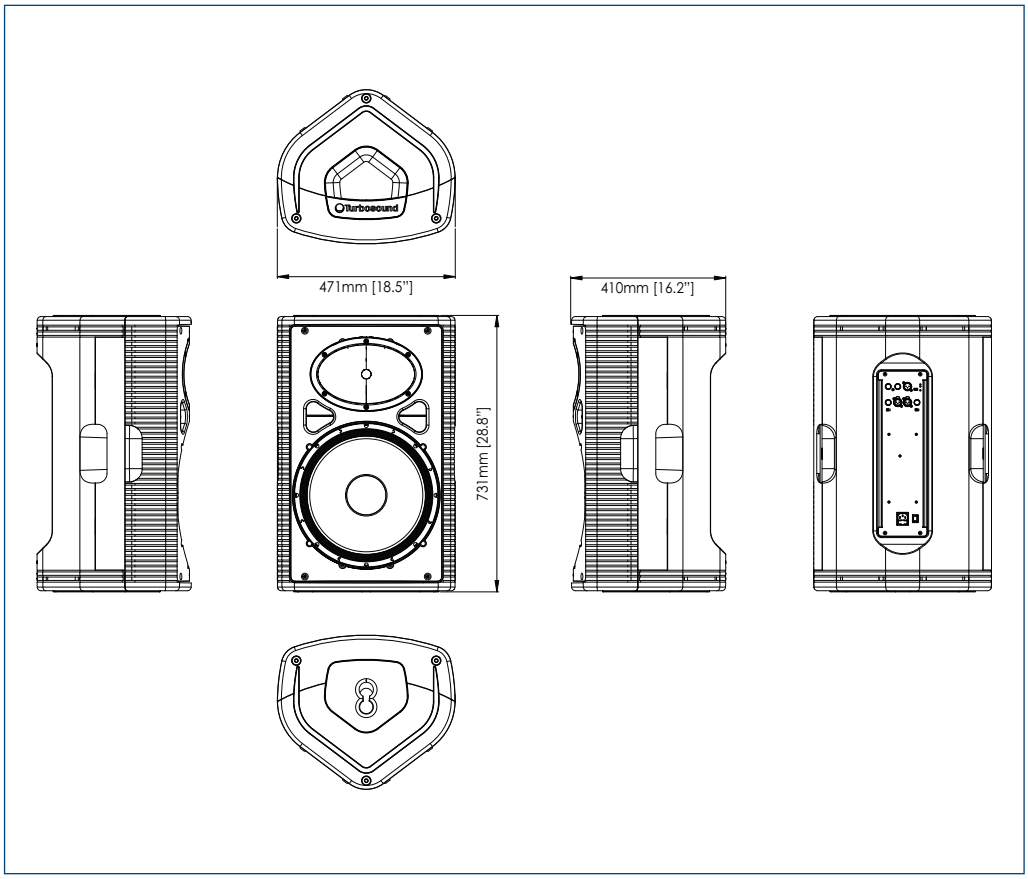
ARCHITECTURAL & ENGINEER'S SPECIFICATIONS

The speaker shall be of the two-way digitally self-powered type consisting of one 15" (381mm) low frequency driver and one 1" (25mm) high frequency driver together with a Class D amplifier and control electronics module. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with swept sine wave input, shall be flat within ±3dB from 36Hz to 17kHz, and within ±10dB from 23Hz to 22kHz. Nominal dispersion, at -6dB points, shall average 90°H x 60°V. Maximum SPL (peak) measured with music program at stated amplifier input shall be 131dB. Dimensions: 720mmH x 470mmW x 400mmD (28.3"H x 18.5"W x 15.7"D). Weight: 22kg (48.4lbs). The loudspeaker system shall be the Turbosound MILAN MI5. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.



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