

MAUI i1

PASSIVE INDOOR/OUTDOOR INSTALLATION COLUMN LOUDSPEAKER

LDsystems **LD**

FEATURES

- Surface-mounted passive column Loudspeaker with nine 3" mid-range woofers and two 1" neodymium tweeters
- BEM-optimized high frequency waveguide for wide horizontal and controlled vertical dispersion
- 120 W RMS at 8 ohms
- Input selector switch: 8 ohms (transformer bypass) / 100 V / 70 V
- 70 V / 100 V power taps: 60 W, 30 W, 15 W, 7.5 W with low saturation transformer
- IP65 protection class, aluminum speaker grille and weather treated cones
- Sealed connection panel cover for outdoor protection
- 4-Pole Terminal Block connector for parallel speaker connection
- Extensive passive audio crossover for balanced frequency response and Self-resetting overload protection for tweeters
- U-Bracket included; bracket for angled wall installation optionally available

DESCRIPTION

For acoustically challenging interiors where music and speech must be clearly understood, even in the rearmost rows, there is one solution - MAUI® i1.

This feature is achieved with nine 3" mid-range drivers, two 1" neodymium high-frequency drivers and a specially developed BEM-optimized Waveguide. This combination avoids unnecessary reflections on the floor and on ceilings by keeping the vertical dispersion as narrow as possible and the horizontal one as wide as possible.

Installers can easily integrate the MAUI® i1 in any constant-voltage audio system. This is made possible with an 8 Ohm / 70 V / 100 V selector switch. In addition, you can tap the power down to 60 W, 30 W, 15 W and 7.5 W depending on how many speakers you need to run in parallel and for a more efficient performance. At 8 Ohms, you can benefit from the best frequency response and highest 120 W RMS power rating.

For outdoor use, MAUI® i1 features weather treated cones, an aluminum loudspeaker grille and a weatherproof cover for the connection panel. That way, no water can enter the panel and your Loudspeaker stays rust free.

Surface installation is easy with the included U-bracket and with its black or white color selection, the loudspeaker blends unobtrusively and discreetly into almost any location.

The multiple award-winning MAUI® series has been expanded with the completely revised i1 and adapted to the special requirements of indoor and outdoor installations. All of this definitely makes MAUI® i1 the right choice for your demanding fixed installations.

SPECIFICATIONS

Product number:	LDMAUI1
Product type	Installation Loudspeakers
Type	Passive
Low/mid Woofer dimensions	9 x 3"
Woofer dimensions	76.2 mm
Woofer magnet	Ferrite
Woofer brand	Custom-made
Horn	BEM optimized CD Horn
HF driver dimensions	2 x 1"
HF driver dimension	25.4 mm
HF driver magnet	Neodymium



Product number:	LDMAUI1
HF driver brand	Custom-made
Dispersion (H x V)	120° x 30°
Load rating (RMS)	120 W
Peak power	480 W
Frequency response	130 - 19000
Crossover frequency	2500 Hz
SPL (1W/1m)	94 dB
Max. SPL	116 dB
Impedance	8 Ohm(s)
Input selector switch	70 V - 100V - 8 Ohms (transformer bypass)
100 V Transformer power taps	60 - 30 - 15 - 7.5 W
70 V Transformer power taps	60 - 30 - 15 - 7.5 W
Protection class IP	65
Loudspeaker inputs	1
Speaker input connections	4-pin Euro Terminal Block (Pitch - 5.08 mm)
Cabinet material	Aluminium
Cabinet construction	Closed
Width	85 mm
Height	985 mm
Depth	105 mm
Accessories (included)	U-Bracket for surface mount
Optional accessories	Tilt-and-Swivel Wall Mount: LDMAUI1WMBT(W)
Weight	8.6 kg

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ARCHITECT & ENGINEER'S SPECIFICATIONS

The passive loudspeaker system shall be of surface-mount vertical column design, consisting of nine 3-inch (76.2 mm) mid frequency transducers with weather-resistant paper cones, and two neodymium 1-inch (25.4 mm) high frequency transducers assembled in a specially developed BEM-optimized Constant-Directivity Waveguide. The loudspeaker system shall be capable of operation in low-impedance mode or over a 70/ 100V constant-voltage audio system via a built-in low-saturation transformer.

The loudspeaker system shall be of two-way design, with a passive crossover and integrated self-resetting high frequency driver protection against damage from occasional overpowering.

The loudspeaker system shall meet the following performance specifications: measured sensitivity shall be 94 dB SPL (on-axis, free-field sensitivity, measured at 1 m with 1W input); frequency response shall extend from 130 Hz to 19 kHz (10 dB below rated on-axis sensitivity); maximum rated SPL shall be of 116 dB; rated power shall be 120 W RMS (two-hours, continuous pink noise); measured low-impedance peak power shall be 480W (band-limited above 200 Hz); nominal impedance shall be 8 ohms. The nominal coverage angle (-6 dB) of the loudspeaker system shall be 120 degrees horizontal and 30 degrees vertical.

The loudspeaker system's input panel shall be located on a recessed area that contains an input mode switch, a power tap selector, and a 4-pole terminal block connector, pitch 5.08mm. A weather-cover plate with two cable glands shall be provided for optional sealing protection of the input panel against precipitation and moisture. The input mode switch shall be a 4-way selector with three input options: 70V, 100V or 8 Ohm. The 8 Ohm position shall bypass the internal transformer and offer 120W of rated power. The loudspeaker system's transformer tap selector switch shall be a four-position rotary type with taps of 60W, 30W, 15W or 7.5W.

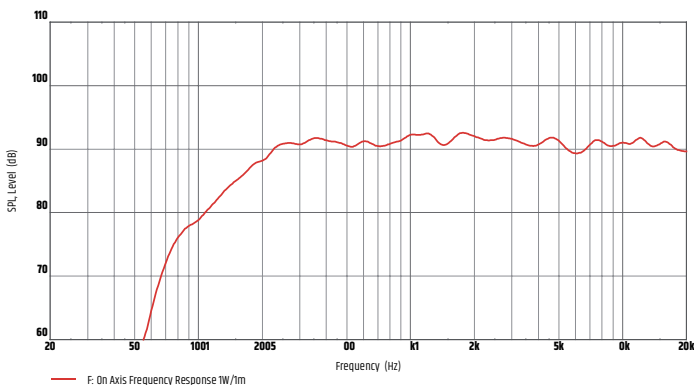
The loudspeaker enclosure shall be constructed of extruded-aluminum with an aluminum front grille and shall meet IEC60529 IP-65 specifications for protection against intrusion of solid objects, dust and water. The loudspeaker system shall be available in two RAL colors: black (9005) or white (9010).

The loudspeaker system shall include a surface mounting U-bracket with a slanted recess in the top side for easy mounting and oblong holes to adjust the distance between the enclosure and the wall. On its rear panel the enclosure shall have four M5 threaded holes for an optional tilt-and-turn wall bracket and shall also have four M5 threaded holes for shoulder eye bolts to be used for attaching safety wire ropes. The U-bracket shall have two M5 threaded holes on the top, and two on the bottom for shoulder eye bolts, and it shall also have four pass-through holes for speaker cables.

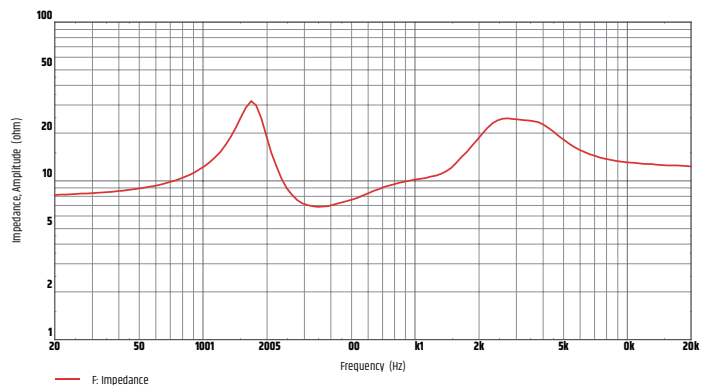
The enclosure shall be 985 mm (38.8 in) high, 97.7 mm (3.8 in) wide, and 106 mm (4.1 in) deep. With the mounting bracket installed, the front of the grille shall stand 161mm (6.3 in) from the mounting surface when set to its maximum range. The loudspeaker system shall have a net weight of 8.6 kg (18.9 lb).

The loudspeaker system shall be the LD Systems® MAUI® i1.

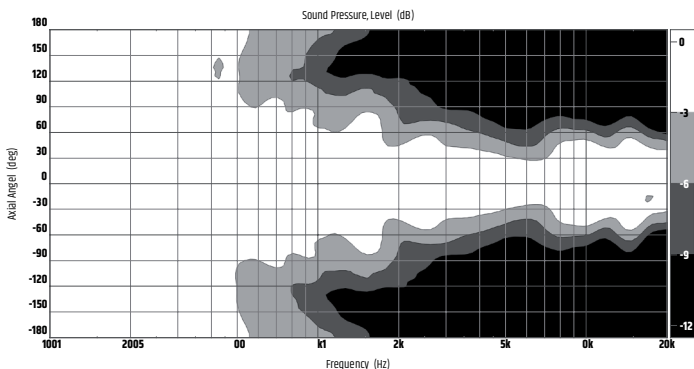
FREQUENCY RESPONSE GRAPH



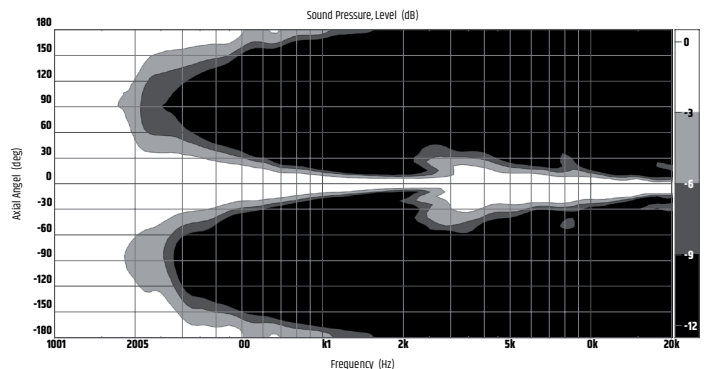
IMPEDANCE GRAPH



HORIZONTAL DIRECTIVITY GRAPH



VERTICAL DIRECTIVITY GRAPH



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TECHNICAL DRAWINGS

Scale 1: 10

