##### MLA Compact

The loudspeaker shall be a self-powered, vertically-arrayable three-way system. Its transducers shall consist of two 10” low frequency drivers, two 5” midrange drivers each coupled to a constant-directivity midrange horn, and four 0.7” exit compression drivers each coupled to a constant-directivity high frequency horn. The drivers shall be configured to be driven as one low-frequency cell, two midrange cells and two high-frequency cells.

The loudspeaker shall incorporate a Class D amplifier module with five channels of amplification and DSP for independent drive and control of each cell. The amplifier shall deliver a total of 4.2kW peak output to the transducers and include networking capabilities to enable remote control and system monitoring. Its power supply shall employ Power Factor Correction and operate from 100-240V, 50-60Hz AC.

Audio connectors shall be male and female XLR type and the AC power connector shall be an IEC309 CEE Form.

The loudspeaker shall have 100° horizontal dispersion and 10° vertical dispersion. Vertical dispersion of the complete array shall be determined by a combination of the splay angles between adjacent enclosures and dedicated array control software. The on-axis frequency response shall be 65Hz-18kHz +/- 3dB and the loudspeaker shall produce a maximum SPL of 135dB peak at 1 metre.

The loudspeaker enclosure shall be constructed from multi-laminate birch and poplar ply with a textured black polyurethane coating. The drivers shall be protected by a perforated steel grille and the enclosure shall incorporate an integral rigging system to assemble an array of up to 24 enclosures suspended from a dedicated flying frame.

Dimensions (W x H x D) shall be 788mm x 280mm x 500mm (31in x 11in x 19.7in). Weight shall be 49.5kg (109lbs).

The loudspeaker shall be the Martin Audio MLA Compact.