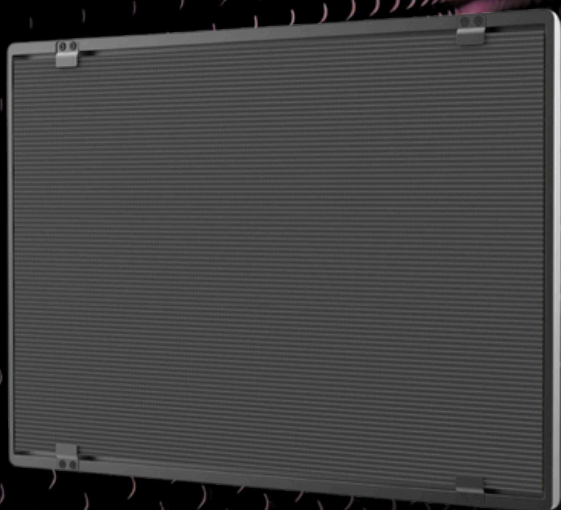


PERIPHERAL VISION

The Future Is Flat.

DML500A Speaker Info Sheet



Exclusive Distributor of

FlatPanel
AUDIO

FlatPanel Audio

DML500A

High output Distributed Mode Loudspeaker (DML) for architectural applications. Designed for architects, the thin design of the DML500A affords flush mounting in walls and ceilings. System integrators are specifying this radically different technology to solve room problems old-school loudspeakers worsen.

How different? The DML500A eschews pumping focused air pressure waves traditional loudspeakers employ to create ear-fatiguing sound. Instead, non-destructive waves emerge wide and diffuse to more gently bathe the ear in pleasing, super-intelligible sound over almost eight octaves.

Especially noticeable in highly reverberant spaces, DML sound waves provide non-destructive room interactions, so free of room echo and comb filtering that one customer referred to the intelligibility improvement over their old church system as “mind boggling.”

“Floor-to-balcony, stereo-stable imaging in every seat is another performance “wow,” making DML500A the top choice for immersive audio. Superb power handling plus 165° conical coverage allowed an American airport to replace 104 traditional speakers with six DML500A flat panels.

Unmatched placement flexibility also optimizes aesthetic choices and quicker installations. Rugged construction includes a powder coated die cast aluminum enclosure with multiple VESA mounting points.

Applications:

Airports and transit, Restaurants, Luxury home theaters, High end retail, Immersive venues and Museums.



DML500A specifications

Frequency range (–10dB)	75Hz-20kHz
Frequency response (±6dB)	85Hz-20kHz
Horizontal/vertical coverage	165°
System sensitivity	92 dB
Rated maximum SPL	SPL 123 dB
System nominal impedance	8 ohms

Power handling

Continuous / program / peak	200W/300W/600W
Suggested high pass filter	90Hz Butterworth 2nd order

Drivers

FlatPanel transducer	4 x DML exciter
Voice coil diameter	32 mm
Voice coil winding wire	Copper-clad aluminum
Suspension design	Standard spider

Diaphragm design

Design principle	Bending wave modal
Radiator surface area	400 x 575 mm
Material	Carbon fiber honeycomb
Input connection	Pigtail 14 AWG

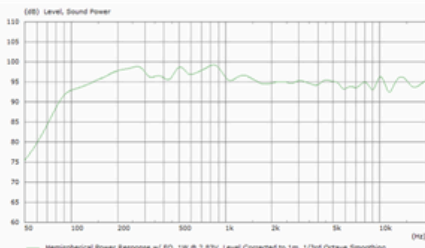
Physical

Outer dimensions (H x W x D)	17.2 in x 23.4 in x 2.2 in 437 mm x 596 mm x 56 mm
Weight	17 lbs / 7.72 kg
Shipping dimensions	37 in x 27 in x 8 in 650 mm x 800 mm x 250 mm
Shipping weight	23 lbs / 10.45 kg

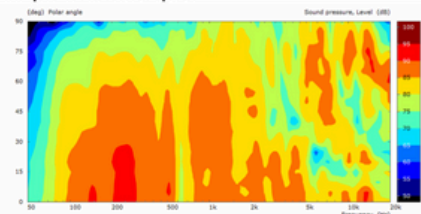
FlatPanel Audio DML500A

Hemispherical power response

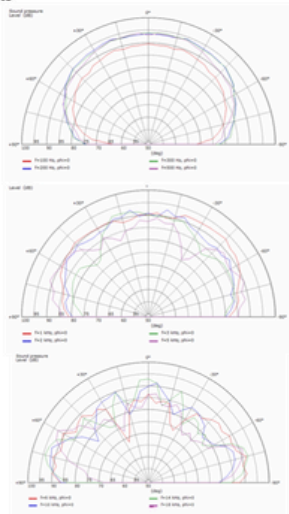
Due to the modal nature of DML loudspeakers, the best way to represent their acoustic characteristics is to measure their power response. Measurements are made at 5° intervals in both the vertical and horizontal axes, and averaging a total of 1349 measurements.



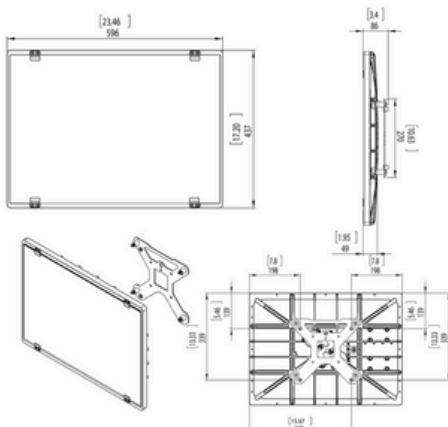
Hemispherical contour plot



Polar plots



High output Distributed Mode Loudspeaker (DML) for architectural applications



Accessories

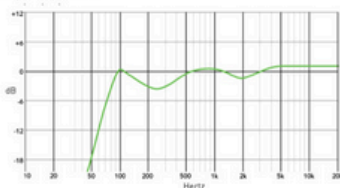
The DML500A includes an integrated VESA mount with a 200 x 200 mounting pattern suitable for M8 bolts. More information about mounting accessories and hardware is provided in the installation documentation.

Recommended filtering/crossover

The following are the initial recommended acoustic filters as implemented in all DML acoustic measurements. They also represent an EQ starting point for all field applications.

- High Pass - Butterworth 4th order (24 dB) @ 100Hz
- Peaking Filter - 95Hz / Q of 3 / Gain of 3 dB
- Peaking Filter - 265Hz / Q of 0.7 / Gain of -4 dB
- Peaking Filter - 500Hz / Q of 0.7 / Gain of 2 dB
- HF Shelving Filter - 4000Hz / Q of 1.0 / Gain of 2 dB

Frequency response



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