

Meridian Intros Architectural In-Wall Loudspeakers

Written by Marco Attard
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The Meridian architectural loudspeaker lineup gets a pair of in-wall additions-- the DSP640.2 and DSP520.2, the first powered by the Meridian Class-M DSP Engine allowing for high SPLs and strong bass performance.



According to the company, the double precision Aux filter improves resolution on low frequencies, while built-in dynamic bass protection technology maximises bass extension. In addition, the two models integrate "DYNAMIC" high-resolution amplifiers, with an electrically screened, potted and optimised high mass toroidal transformer promising the least possible mechanical noise. Post filter feedback delivers lower output noise and improved total harmonic distortion (THD), allowing for even the smallest details to be heard.

The DSP640.2 features 8 power amplifiers delivering 100W per drive unit, and L+R mode for high-power soundbar applications. It can deliver over 105dB over 4m, providing full range sound with bass extension down to 40Hz, together with on-board Bass Alignment to align high, mid and upper bass frequency with the low bass for added clarity. Proprietary centre elevation technology raises the perceived image location from an under-screen loudspeaker so it appears from the centre of the room. Further enhancements include FIFO buffering, DSP upsampling, apodising filters and MHR (Meridian High Resolution) built-in, allowing use as a full-range loudspeaker without need for an additional subwoofer.

Meanwhile the DSP520.2 features a quad-amp DSP design with 4 amplifiers delivering 100W per drive unit. L+R mode technology ensures the true reproduction of all the audio present in a stereo recording when a single speaker is in use, while delivering bass extension down to 50Hz for full range sound. The speaker features one 140mm long throw bass driver and one 85mm wide-range driver for full-frequency response, maximum dispersion and wide listening area, and

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carries Meridian technologies such as centre elevation.

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