



MERIDIAN

DSP3300

Versatile Digital Active Loudspeaker



The DSP3300 is a versatile digital loudspeaker ideal for main, centre channel and surround operation in smaller and medium-sized systems. It features dual 165mm bass drivers for powerful, impressive bass and an 85mm wide-range driver. Each driver is mounted in its own subsidiary enclosure. Two powerful amplifiers, coupled with Meridian's award-winning DSP crossover system, give the DSP3300 an extremely impressive performance both in terms of bass and overall sound pressure levels for a loudspeaker of this size.

DSP3300 forms the ideal centre channel complement to a pair of DSP3200 loudspeakers: the latter use identical drivers and deliver a sonic signature that matches the DSP3300 well. A compact but very capable surround system can be configured using DSP3300 units throughout.

The DSP3300 is an ideal building block in a smaller Meridian system, for example coupled with an Audio Core 200, for adding an extra zone to a multi-room system, or for use as main, surround or centre channel loudspeakers in a smaller multichannel environment.

The DSP3300 features an ingenious cabinet design with a rubber mount (supplied) that allows the speaker to be

placed free-standing either horizontally or vertically. The mount can be used either to support the loudspeaker vertically or to angle it upwards in horizontal position – see illustration overleaf.

In addition, the use of a single, centrally-located wide-range driver enables the loudspeaker to deliver excellent stereo imaging, whether positioned horizontally or vertically. DSP control ensures that the speaker delivers its best regardless of position.

The cabinet design provides wide, full-range dispersion, which permits an extensive listening area.

The DSP3300 may be wall-mounted using the same König & Meyer 24471 wall brackets as used on the DSP3200.

Drive Units

The DSP3300 features three drive units, dual 165mm bass drivers and an 85mm wide-range driver. The drive units are built around an extremely rigid and stable die-cast aluminium chassis.

The bass drivers features a specially-designed stiff, yet light polypropylene cone piston and dustcap with a low-loss rubber surround. The large, 56mm diameter voice coil employs heavy gauge copper wire in a 4-layer bifilar winding and features an

Product highlights

Meridian's DSP Loudspeaker technologies deliver powerful, room-filling sound with the performance of a conventional speaker many times the size.

Perfectly suited to a wide range of room positions – horizontally or vertically, on or in furniture or on wall brackets.

Wide-range driver allows DSP crossover frequency to be outside the speech band, for an effortless sound that remains clear, open and spacious, even at high listening levels.

Dual bass drivers for powerful, effortless low frequency performance.

Onboard Digital Signal Processing for dynamic bass protection with very accurate transients. DSP3300 always delivers clear, accurate, quality sound even at high levels and for prolonged periods.

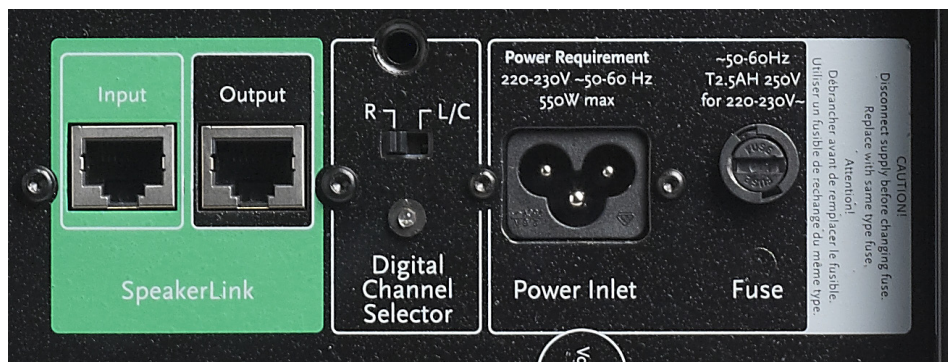
Sophisticated DSP-based loudness control allows DSP3300 to deliver a bigger sound that remains balanced even at low listening levels.

Meridian SpeakerLink connectivity makes DSP3300 quick and easy to set up and install.

Rubber mount (included) allows vertical standing or angling up in horizontal position. König & Meyer 24471 wall bracket (same as used with DSP3200) allows wall mounting.

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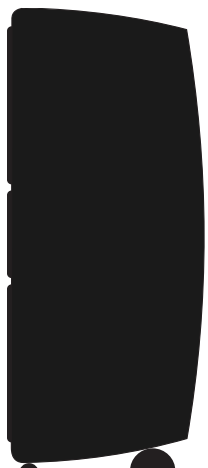
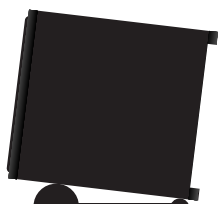
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very efficient hybrid neodymium magnetic motor design, providing extremely linear performance, thus minimising colouration and mechanical distortion. The wide-range driver includes an aluminium alloy cone piston with low-loss rubber surround, and features a 20mm diameter voice coil using heavy copper-clad aluminium wire. It also features an extremely efficient neodymium magnetic motor design.

Electronics

The DSP3300 is driven via Meridian SpeakerLink, which provides balanced digital audio and control signals from the host Meridian controller or source. Both input and output are provided, enabling loudspeakers to be “daisy-chained” if this is more practical than the preferred “home run” arrangement. A selector switch allows each DSP3300 to be set up as Left/ Centre or Right speaker in a system. (See illustration above.)



Inside the unit is a powerful DSP crossover. Incoming signals are optimised with multiple FIFO buffering, and upsampled using Meridian’s proprietary ‘apodising’-style filter that is free from pre-echo effects, thus delivering a cleaner, better-defined, more ‘high-definition’ sound whatever the source material, while at the same time correcting errors introduced by filters earlier in the chain – for example as a result of the original recording system.

The DSP is followed by individual digital-to-analogue conversion stages with extremely high precision analogue and digital design, delivering maximum dynamic range and overall audio quality. The analogue signal is then passed to powerful, highly linear, low output-impedance power amplifiers. These feature exceptional performance including low noise, low distortion, and high quality components, and are coupled directly to the drivers.

Cabinet

Each DSP3300 loudspeaker is built around a precision-manufactured cabinet, which uses innovative design techniques to give exceptionally low colouration and impressive midrange transparency.

The acoustically-sealed enclosure is fabricated from curved, pressure-laminated plywood panels, each using multiple layers of carefully-selected woods to provide high stiffness and damping.

Finishes

The smooth lines and high gloss finish of the loudspeaker provide an exceptionally attractive appearance.

The DSP3300 is available in high-gloss white and high-gloss black.

Outline Technical Specification

Connections

- Meridian SpeakerLink in and out (RJ45)

Controls

- Left/ Centre, Right selector switch

Construction

- 2-way sealed enclosure system

Drivers

- 2 x 165mm polypropylene bass driver
- 1 x 85mm aluminium cone wide-range driver

Amplifiers

- Two 75W power amplifiers, bass and wide-range
- Overall distortion typically <0.02% at any frequency or level

Indicators

- Rear-mounted LED

Dimensions

- Height (horizontal orientation): 206mm (8.1in); width: 555mm (21.9in); depth: 235mm (9.25in)

Mounting

- May be used free-standing horizontally or vertically, eg on shelf
- Rubber mount allows unit to be placed vertically or angled up when horizontal.
- Wall mounting via König & Meyer 24471 bracket (same as DSP3200)
- Recommended ≥80mm (3.15in) clearance behind unit

Weight

- 11.5kg (25.3lb) per unit