



**MERIDIAN**

## DSP3200

Compact Digital Active Loudspeaker



The DSP3200 is a compact, elegant and great-sounding digital active loudspeaker. As is immediately evident from the shape, it mirrors the design of the DSP8000 and other DSP loudspeakers in the Meridian range. It features a 165mm bass driver and 85mm wide-range driver, each driven by their own powerful amplifier, and Meridian's award-winning DSP crossover system which gives the DSP3200 a performance that belies its compact size.

The DSP3200 is an ideal building block in a smaller Meridian system, for example coupled with an Audio Core 200, or for adding an extra zone to a multi-room system, and the cabinet design provides wide, full-range dispersion allowing a broader listening area.

The DSP3200 is the successor to the DSP3100 as the smallest loudspeaker in the Meridian line and, like its predecessor, can be floor-mounted on stands, or free-standing, for example on a bookshelf. The DSP3200 has also been designed to suit

widely available König & Meyer 24471 wall brackets that allow the speaker to be mounted either upright or in the inverted position, the latter being ideal for discreet corner-mounting, while DSP control ensures that the speaker delivers its best regardless of position.

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

### Drive Units

The DSP3200 features two drive units, a 165mm bass driver and an 85mm wide-range driver. Both drive units are built around an extremely stiff and stable die-cast aluminium chassis.

The bass driver 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 extremely efficient hybrid magnetic

### 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 – on or in furniture, on floor stands 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.

Onboard Digital Signal Processing for dynamic bass protection with very accurate transients. DSP3200 always delivers clear, accurate, quality sound even at high levels and for prolonged periods.

Sophisticated DSP-based loudness control allows DSP3200 to deliver a bigger sound that remains balanced even at low listening levels.

Meridian SpeakerLink connectivity makes DSP3200 quick and easy to set up and install.

König & Meyer 24471 wall bracket optionally allows inverted installation, so DSP3200 fits discreetly into corner locations while DSP audio controls allow it to continue to deliver maximum audio quality.

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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 DSP3200 is driven via Meridian SpeakerLink, which provides balanced digital audio and control signals from the host Meridian controller. 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 DSP3200 to be set up as Left/Centre or Right speaker in a system.

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. This system can bring new life especially to older digital recordings, where you can even experience the

performance reproduced in higher quality than was possible in the studio at the time. 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 low output-impedance power amplifiers with exceptional performance and high efficiency, but with very low heat dissipation, coupled directly to the drivers.

### Cabinet

Each DSP3200 loudspeaker is built around a precision-manufactured cabinet, which uses innovative design techniques to give exceptionally low colouration and impressive midrange transparency.

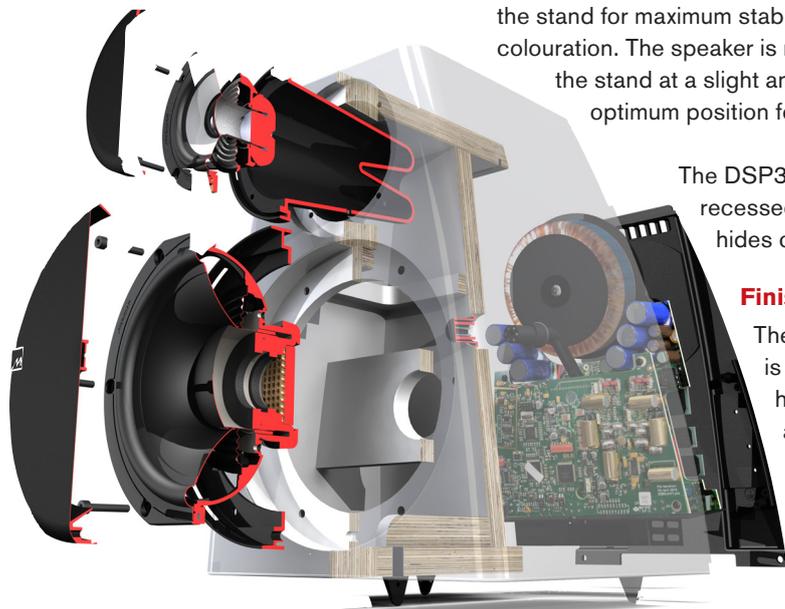
The acoustically-sealed enclosure is fabricated from curved, pressure-laminated panels, each using multiple layers of carefully-selected woods to provide high stiffness and damping. Its narrow tapered front baffle offers optimum dispersion across a wide listening area.

The cabinet stands on triangulated adjustable machined feet fitted to the base of the enclosure. Alternatively, Meridian offers a specially-designed floor stand, which provides cable management, allowing power and SpeakerLink cables to be run discreetly between the floor and the loudspeaker. The stand includes floor spikes, and the speaker can be bolted to the stand for maximum stability, minimising colouration. The speaker is mounted on the stand at a slight angle to offer the optimum position for listening.

The DSP3200 includes a recessed panel which hides cable entry.

### Finishes

The DSP3200 is available in high-gloss white and high gloss black.



### Outline Technical Specification

#### Performance

- Frequency response in-room within 3dB from 45Hz to over 20kHz.
- Output > 105dB spl @ 1m on music material.
- Noise less than 15dB spl.

#### Connections

- Meridian SpeakerLink in and out (RJ45)

#### Construction

- 2-way sealed enclosure system.

#### Drivers

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

#### Amplifiers

- Two 75W power amplifiers, one for each driver.
- Overall distortion typically < 0.02% at any frequency or level.

#### Dimensions

- Height: 320mm (without feet); width: 244mm at base, tapering to 134mm; depth: 246mm at base, tapering to 179mm.

#### Mounting

- Floor-mounting on stands
- Free-standing on shelf, etc
- Wall mounting via König & Meyer 24471 bracket allows upright or inverted orientation.

#### Weight

- 8.5kg (20lbs) per unit.