

DSP3300

DIGITAL ACTIVE LOUDSPEAKER

DATASHEET



OVERVIEW

Engineered for versatility, the DSP3300 is an ideal building block in a smaller and medium-sized Meridian system. Though compact, the DSP3300 houses three drivers, plus all the advanced Meridian electronics necessary to deliver an extremely impressive performance both in terms of bass and overall sound pressure levels for a loudspeaker of this size. The DSP3300 can be used in multiples in stereo or multichannel applications. It can also serve as the ideal centre channel to complement a pair of DSP3200s or M6s.

The DSP3300 features a precision-manufactured cabinet which can be used horizontally or vertically with no reduction in sound quality. It is compatible with commonly available wall-brackets for mounting in either orientation.

PRODUCT HIGHLIGHTS

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

- Wide-range driver allows the frequency of the digital crossover 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.
- Sophisticated DSP-based loudness control allows DSP3300 to deliver a bigger sound that remains balanced even at low listening levels.
- Audio enhancement technologies include FIFO buffering, Meridian High Resolution (MHR) and Meridian's "apodising" filter.

USER FEATURES

- Perfectly suited to a wide range of room positions – horizontally or vertically, on or in furniture or on wall brackets.
- Meridian SpeakerLink connectivity makes DSP3300 quick and easy to set up and install.
- 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.

TECHNOLOGIES

ON-BOARD DSP

On-board DSP provides thermal and dynamic bass protection while retaining very accurate transients, ensuring that when the loudspeaker is played at high levels –even over prolonged periods of time – it always delivers a clean, detailed and accurate sound. Use of a wide range driver also minimises distortion, reproducing more lifelike vocals at all volume levels.

ENHANCED BASS ALIGNMENT (EBA)

Meridian's innovative Enhanced Bass Alignment (EBA) technology uses two different technologies to time-align high, mid and upper bass frequencies with the low bass, resulting in audibly improved bass transients and added life and clarity.

MERIDIAN APODISING FILTER

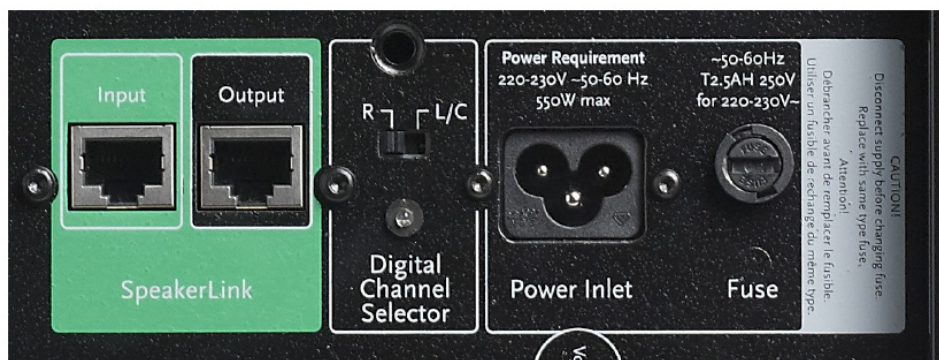
A unique Meridian filter that avoids pre-ringing, so it can be steeper, cleaning up the effects of early, less efficient filters used in the digital recording process. The result: a better, cleaner sound from recordings both old and new

FIFO BUFFERING

Meridian's 'First In, First Out' buffering system minimises jitter, ensuring perfect timing and improved clarity. You enjoy a clearer feeling of the instruments and their interrelationship.

SPEAKERLINK

Meridian's SpeakerLink uses an "Ethernet style" cable to deliver pristine digital sound and control down a single cable between Meridian components. The result is simple, unobtrusive, and cost-effective cables that are easy to install.



REAR PANEL LAYOUT

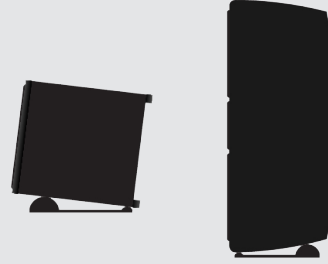
CONSTRUCTION

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

Inside the unit is a powerful DSP crossover, 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 featuring exceptional performance.

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

- Compatible with commonly available König & Meyer 24471 wall-brackets providing great installation flexibility.
- Recommended $\geq 80\text{mm}$ (3.15in) clearance behind unit.
- Rubber stand-pad (available separately) provides vertical or slightly angled stance.



SPECIFICATION

INPUTS	• Meridian Speakerlink (R)45
OUTPUTS	• Meridian Speakerlink (R)45
PERFORMANCE	• Peak SPL: 114dB at 1m • Frequency response in-room within 3dB from 45Hz to over 20kHz
AMPLIFIERS	• 2 x 75W (150 W)
BASS DRIVERS	• 2 x 165mm polypropylene long throw bass drivers
TWEETER	• 1 x 85mm aluminium cone wide-range driver
DSP SPECIFICATION	• 2 x Freescale 56367 running at 150MHz
CONTROLS	• A selector switch allows each DSP3300 to be set up as Left/Centre or Right loudspeaker in a system.
STATUS LED	• Rear-mounted LED indicator showing Standby or On
DIMENSIONS	• HEIGHT*: 206mm [8.1in] • WIDTH*: 555mm [21.9in] • DEPTH*: 235mm [9.25in]
PACKED DIMENSIONS	• HEIGHT: 420mm [16.5in] • WIDTH: 650mm [25.6in] • DEPTH: 440mm [17.3in]
WEIGHT / PACKED WEIGHT	• WEIGHT: 11.5kg [25.3lbs] • PACKED WEIGHT: 16.5kg [36.3lbs]
POWER	• 550W Max.

*Horizontal orientation