

SPECIAL EDITION DSP5200 DIGITAL ACTIVE LOUDSPEAKER

OVERVIEW

The Special Edition series of Meridian loudspeakers represent the pinnacle of Meridian's loudspeaker design and development programme and are the most advanced loudspeakers that Meridian has produced to date.

Over 30 years of engineering development, coupled with extensive research in Psychoacoustics into how we perceive sound, have informed every aspect of the Special Edition series.

Built by hand in the UK, each Meridian Special Edition DSP5200 is a Digital Active loudspeaker containing Digital Signal Processing (DSP) technology. This ingenious, yet elegant design means that the loudspeaker enclosure contains the entire system's electronics including its amplification. In common with the other loudspeakers in the Special Edition series, a suite of innovative Meridian technologies is also provided.

With an ability to deliver the very best from High Resolution sources, including MQA, the performance of the Meridian Special Edition DSP5200 demonstrates why Meridian is widely regarded as the Pioneer of High Resolution Audio.



PRODUCT HIGHLIGHTS

- New DSP provides performance enhancements including the latest implementation of Enhanced Bass Alignment (EBA) technology to provide additional clarity and an open, transparent soundstage. New Meridian-designed short-horn-loaded tweeter with a beryllium dome for outstanding transient response and extended frequency range.
- New mechanical clamp rings on the mid-range and bass drivers provide enhanced mechanical stability and further minimise coloration.
- New extended-bandwidth analogue electronics, optimised to deliver maximum performance from high-resolution recordings.

USER FEATURES

- Source information in the loudspeaker display is also derived from the controller, allowing for additional custom legending.
- Bass, Tilt, and Axis presets for enhanced control and a new lowpass crossover design.
- ‘Ethernet’ style SpeakerLink cabling which maintains performance and is easy to install.

TECHNOLOGIES

NEW SPEAKERLINK INPUT BOARD AND DSP

A new SpeakerLink board provides enhanced interoperability between Meridian Controllers and DSP Loudspeakers. Digital Signal Processing has been enhanced for higher clock speeds, giving superb handling of the high sample rates encountered with high-resolution audio sources.

WIDEBAND ANALOGUE ELECTRONICS

Each amplifier has been refined to provide a more lifelike sound, with optimised transient response, extended frequency response and enhanced dynamic range.

MQA –MASTER QUALITY AUTHENTICATED

Special Edition loudspeakers fully support MQA. MQA is a technology that captures the full magic of an original studio performance. Using pioneering scientific research into how people hear, MQA delivers master quality audio in a file that's small enough to stream or download.

ENHANCED BASS ALIGNMENT (EBA)

Meridian’s innovative Enhanced Bass Alignment 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.



