DATASHEET

DSP7200.2HC DIGITAL ACTIVE LOUDSPEAKER



OVERVIEW

Designed to compliment the DSP7200.2, the DSP7200.2HC provides full range playback in a horizontal centre channel package. Built by hand in the UK, each Meridian DSP7200.2HC is a Digital Active loudspeaker which uses innovative Digital Signal Processing (DSP) technology. This ingenious, yet elegant design means that the loudspeaker enclosure contains the entire system's electronics including its amplification.

The DSP7200.2HC is ideal for mounting on a shelf, under a large-screen TV, or behind an acoustically-transparent projection screen and in partnership with other Meridian free standing or in-wall loudspeakers. The DSP7200.2HC delivers sounds that are incredibly lifelike, in scale and tone especially when integrated into Trifield installations which feature other Meridian freestanding loudspeakers such as the DSP7200.2 and DSP8000. Unique Centre Elevation adjustment technology allows the listener to raises the centre image for the perfect movie experience which brings to life to formats such as 5.1 surround sound.

PRODUCT HIGHLIGHTS

- Dual magnet, semi-horn-loaded composite dome tweeter with silver voice coil.
- Centre Elevation allows the image from a centre channel loudspeaker to be raised to be in line with main left and right loudspeakers.
- New extended-bandwidth analogue electronics, optimised to deliver maximum performance from high-resolution recordings.
- DSP provides performance enhancements including the latest implementation of Enhanced Bass Alignment (EBA) technology to provide additional clarity and an open, transparent sound-stage.
- Features four custom drivers, amplifiers, digital converters, improved digital crossovers and advanced sound-shaping DSP technology.

USER FEATURES

- Source information in the loudspeaker display is also derived from the controller, allowing for additional custom legending.
- Bass, Tilt, Centre Elevation 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

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.

CENTRE ELEVATION

In most installations, where the centre-channel loudspeaker is below the display, the sound seems to emanate from below and not from the screen, detracting from the experience. DSP in a Meridian centre loudspeaker psychoacoustically raises the sound image to centre-screen – where we expect it for the most engaging movie or concert experience.

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.

MERIDIAN APODISING FILTER

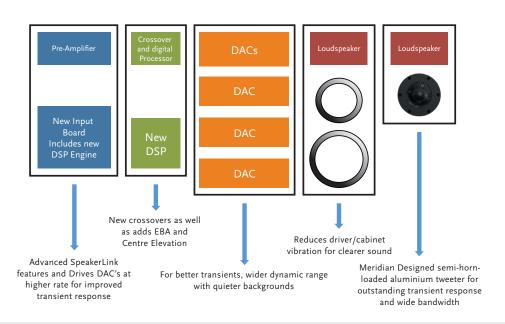
A unique Meridian filter that avoids pre-ringing, so it can be steeper, cleaning up the effects of early, less efficient filters used in the digital recording process. The result: a better, cleaner sound from recordings both old and new.

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.

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.



CONSTRUCTION

The Meridian DSP7200HC is manufactured from interlaminated panels finished in high gloss piano lacquer. Black and High Gloss White are available as standard finishes.

The DSP5200.2HC features a centre LED display with eightcharacters with system lights which can be blanked.

- Available in High Gloss Black or High Gloss White as standard finishes. Custom finishes are available upon request as well as a further 270 RAL colour finishes as part of Meridian's Select programme.
- '3 1/2-way' acoustic reflex system with dualport.
- Individually covered grilles for bass units.

SPECIFICATION

INPUTS	 Meridian SpeakerLink (RJ45) & S/PDIF digital input, , 32kHz-96kHz sampling rates at up to 24 b with MHR support (phono) and Meridian BNC Comms
	Carries infra-red pickup for system automation
OUTPUTS	• 1 x RJ45 with balanced digital audio and control for 2nd loudspeaker
	Carries infra-red pickup for system automation
PERFORMANCE	• Peak SPL: 112dB at 1m (music material)
	• Noise less than 15dB spl. Overall distortion typically <0.02% at any frequency or level
	• Frequency response In room within 3dB: 28Hz - over 20kHz
AMPLIFIERS	• 4 x 150w (600w)
BASS DRIVERS	• 2 x 200mm polypropylene long-throw bass drivers
MID DRIVERS	• 1 x 160mm polypropylene mid
ALUMINIUM DOME TWEETER	• 1 x 25mm Meridian piston in short horn, aluminium dome with silver voice-coil
DSP SPECIFICATION	• 1 x Freescale 56367 running at 150MHz
	• 4 x 24-bit Multi-bit delta-sigma DACs with 128x oversampling
	• Active bass/mid crossover - minimum-phase at 2.6kHz
	Bass protection Response correction for the whole system
	User tone controls
	Analogue/digital volume and phase control
DISPLAY	• Eight character display with system lights, can be blanked
DIMENSIONS/WEIGHT	HEIGHT; 295mm [11.6in] WIDTH: 1060mm [41.7in]
	• DEPTH*: 478.25mm [18.8in] • WEIGHT: 64kg [141lbs]
POWER	• 100-125; 200-250V AC 50-60Hz
	• 20W standby; 600W max

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