

M6

DIGITAL ACTIVE LOUDSPEAKER

DATASHEET

OVERVIEW

Meridian's M6 is a uniquely shaped loudspeaker. Featuring individual components that are perfectly matched and sonically balanced, the entire system's electronics are housed within the enclosure and deliver a level of performance that is unsurpassed by traditional speaker design.

Whether used individually, in a stereo pair or within a surround-sound system, the gently tapered and cylindrical shape gives the M6 its naturally wide dispersion pattern which fills a room with a superbly-imaged, natural sound that can be enjoyed from any position.



PRODUCT HIGHLIGHTS

- Low-frequency driver is specially orientated to play downwards, which means bass reproduction is solid and floor loaded and ensures it blends effortlessly into the listening environment.
- Low-tuned porting system further extends the loudspeaker's low-frequency performance.
- Precision moulded into a complex form – impossible to achieve with traditional materials and techniques.
- Features include including First In, First Out (FIFO) buffering, wide range drivers, efficient DSP crossovers and multiple DACs.
- The cylindrical acoustic radiation pattern provides an even distribution of sound throughout the room.

USER FEATURES

- DSP software which supports a “Mono” mode – activated from the Digital Channel Selector switch. Our unique algorithm combines signals from the left and right channels so that the M6’s signature room-filling sound can be achieved from a single speaker.
- ‘Ethernet’ style SpeakerLink cabling for optimal performance and easy installation.
- A discreet light ‘halo’ – found nestling underneath the M6’s aluminum top-cap – indicates whether the speaker is operating (white) or in standby (blue).

TECHNOLOGIES

ENHANCED BASS ALIGNMENT

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.

WIDE RANGE DRIVER

Loudspeakers use crossovers to “divide” music into bands their drivers can reproduce. This introduces distortion, reducing sound quality – particularly on human voice recordings. Designing a single driver for both mid and high frequencies made a crossover within the vocal range unnecessary, avoiding distortion and reproducing more lifelike vocals at all volume levels.

MERIDIAN HIGH RESOLUTION

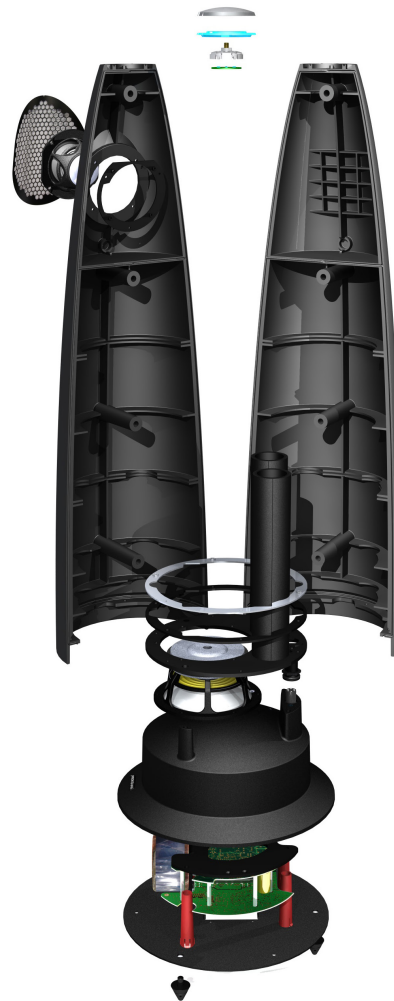
Meridian High Resolution (MHR) was the first approved encryption method for transferring high definition digital audio between components. Previously, it had to be in the analogue domain, reducing quality. MHR allows secure movement of high resolution digital audio within a Meridian system, without compromise, improving quality by reducing cyclic repetition.

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 multiple ‘First In, First Out’ (FIFO) buffering system minimises jitter, ensuring perfect timing and improved clarity. You enjoy a clearer feeling of the instruments and their interrelationship.



CONSTRUCTION

The M6 is formed from a specially developed, glass-filled resin. Uniquely heavy and rigid, it is precision moulded into a complex form which is impossible to achieve using traditional manufacturing materials and techniques. Its tapered profile is acoustically inert, with the cylindrical enclosure providing separate, isolated housings for the wide-range and the low-frequency drivers.

The cylindrical base is made from high grade aluminium and houses the power input, and Meridian SpeakerLink (R)45 connections and the Digital Channel Selector switch.

- A stylish aluminium cap and integrated distinctive circular light halo allow users to see the status of the M6 easily.
- Its off-axis dispersion and even distribution of sound creates a wide listening area perfect for large spaces.

SPECIFICATION

INPUTS	• Meridian Speakerlink (R)45
OUTPUTS	• Meridian Speakerlink (R)45
PERFORMANCE	• Peak SPL: 114dB 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: 38Hz - over 20kHz
BASS DRIVERS	• 1x 140mm aluminium cone
WIDE RANGE DRIVER	• 1x 85mm aluminium cone
DISPLAY	• Discreet light halo indicates whether the speaker is operating (white) or in standby (blue).
DIMENSIONS/WEIGHT	• HEIGHT*: 921mm [36.26in] • DIAMETER 300mm [11.8in] at base, 66mm [2.6in] at top
	• WEIGHT: 18kg [39.6lbs]
POWER	• 110 - 120 Volt 50/60Hz Max 500W • 220 - 240 Volt 50/60Hz Max 500W

* Including rubber feet

M6 DIGITAL LOUDSPEAKER ICONIC DESIGN, PURE SOUND

The award winning M6 incorporates high performance amplifiers and electronics which are all neatly hidden. Whether used individually, in a stereo pair or within a surround-sound system, the M6 digital active loudspeaker combines superb sound with elegant design to complement any room setting and layout.



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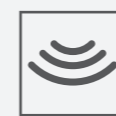
THE M6 AT A GLANCE



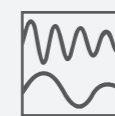
DSP active advantage – self-contained audio system with no amplification equipment needed.



On-board DSP provides thermal and dynamic bass protection – enables high level use for prolonged periods of time.



Off axis dispersion and even distribution of sound – creates wide listening area perfect for large spaces.



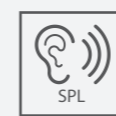
Features Meridian's unique Enhanced Bass Alignment (EBA) technology - bass, mid and treble all reach you at the same time, in perfect alignment.



Enhanced Boundary Control – eliminates bass boom.



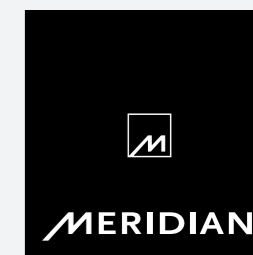
Multiple installation applications in home and commercial environments enabled by Meridian's unique Design and Specification Service.



Outstanding performance – two powerful, built in amplifiers with DSP provide a maximum output level of 114dB at 1m.



For full details, contact:
design@meridian.co.uk
+44 (0)1480 445678



DIGITAL SIGNAL PROCESSING THE ESSENCE OF AUTHENTIC SOUND

Digital Signal Processing (DSP) technology provides the foundation for every Meridian loudspeaker. A completely integrated audio system featuring multiple power amps, precision DACs and unique technologies, Meridian DSP loudspeakers provide more output, more bass and significant control advantages.

With designs suited for a wide variety of applications including living spaces, home theatres and marine, all Meridian DSP loudspeakers deliver unparalleled performance levels.



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THE DSP PATH AT A GLANCE



The DSP Loudspeaker is a complete audio system with DAC's, pre amplifiers, power amplifiers and high efficiency digital crossovers built into each speaker – just add a source.



Advanced listener controls including time-compensated balance, listening axis and Enhanced Bass Alignment – these enable speaker placement flexibility in a variety of environments.



Built in high performance power amplifiers, custom matched to each drive unit for maximum fidelity, control and output.



True, measured Sound Pressure Level (SPL) output for all models.



Features Meridian's proprietary Enhanced Bass Alignment (EBA) technology – bass, mid and treble all reach you at the same time, in perfect alignment.



On-board Digital Signal Processing – no lossy passive crossovers and wasted power.



Inert, rigid cabinet construction – you hear the high quality drive units, not the box.



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