



**MERIDIAN**

# 808v6

Signature Reference Compact Disc Player



*Meridian is the acknowledged leader in high-performance Compact Disc playback, and has held that pre-eminent position since the release of the world's first audiophile CD player, the MCD, in 1984. Since then, Meridian has introduced over two dozen CD player models, each one redefining the state of the Compact Disc art.*

*This steady process of improving CD performance has been recognized by more than 50 awards and has made Meridian absolutely synonymous with the very best in Compact Disc.*

*The 808 was introduced in 2004 to immediate acclaim. Meridian hailed it as the best CD player they had ever made. But, since then, developments in technology and innovations conceived in Meridian's own R&D laboratories have made it possible to better even the best.*

*Now, Meridian introduces the latest generation of the 808, a proud member of the 800 Reference Series, specifically developed to render the very best sound from Compact Disc and network audio. In addition, the 808v6 now decodes Meridian Master Quality Authenticated (MQA) sources.*

Part of the Reference 800 Series, the 808v6 is the highest performance CD Player ever manufactured by Meridian. The latest edition of this ground-breaking product offers several significant improvements including the decoding and rendering of MQA sources to deliver studio quality reproduction – guaranteed – via both digital and analogue outputs.

At the heart of Meridian's ultimate music system, the 808v6 offers CD playback from an internal CD ROM based drive which allows for data recovery and error correction many times better than that employed in standard CD systems, as well as external analogue and digital sources.

CD remains a significant music source, with an amazing depth of catalogue. All the more reason, then, to continue our quest to make Compact Disc sound the very best it can. The 808v6 inherits Meridian's tradition of over a quarter-century of award-winning players, yet sets a whole new benchmark.

### **Meridian: CD Innovator**

Of all manufacturers, Meridian has the longest history of high-performance CD players. Meridian's first CD player, MCD, was introduced over 30 years ago. MCD sounded radically better than anything

### **New features**

**Built-in MQA decoder** – fully supports Master Quality Authenticated (MQA) encoded music playback, guaranteeing a studio master quality experience

**Upgraded S/PDIF and USB receivers** – enables USB and RCA inputs to receive up to 192 kHz digital audio

**Enhanced DSP chip** – offers lip-sync control, DSD playback (DoP) and MQA rendering capability for analogue outputs. The analogue outputs also feature Bass, Treble and Balance Controls

**Improved analogue output card** – features an upgraded circuit with filtering that broadens the bandwidth, and maximises the potential of high-resolution music

### **Product highlights**

Audiophile CD Player including full controller/preamp functionality with Meridian technology including ROM drive, triple FIFO buffering and DSP apodising upsampling filter to deliver the best possible "high definition" sound from the popular CD medium

Advanced S/PDIF receiver enables Meridian SpeakerLink interconnection for superb quality: twin outputs for simple, robust "home run" installation

Unique proprietary 'apodising' upsampling filter provides audibly enhanced performance

Direct connection to a Meridian Sooloos System for the highest possible sound quality digital media playback, with direct Play Queue control

Advanced linear power supply

Available in Black and the complete range of Meridian Select colours

## 1984

### Meridian MCD and Pro-MCD

Meridian's first CD player, the MCD, based on a Philips chassis with completely custom analogue circuitry, was the world's first audiophile CD Player. Its successor, the Pro-MCD shown here, included a separate custom-designed power supply, DAC and oscillator, mounted underneath the transport.



## 1985

### Meridian invents the CD Transport

The idea of separating the transport from the rest of the player – to minimise jitter and other distortion from the mechanism – was developed to produce the world's first separate Transport/DAC product – the critically-acclaimed 200/203 shown here.



## 1989

### Meridian 208 CD Player

The highly successful 200 Series included several CD players. Using different DACs as the technology developed, the 208 was a landmark in Meridian's CD player development, with up to 20-bit conversion capability and preamplifier functionality.



## 1991

### Meridian 602 Transport and 601 DSP Preamplifier

The 600 Series was highly regarded by reviewers and owners alike, especially the 602 transport and its companion 601 DSP Preamplifier, 603 Digital Control Unit or 606 DAC.



## 1993

### 508 – Compact Disc Classic

The 500 Series, launched in 1993, developed into a full range of audio/video products, including Meridian's first DVD player, the 596, in 1997. Meanwhile, from 1994 onwards, the 508 set the standard for CD until the advent of the G08 in 2003.



## 2004

### Meridian 800 Reference Series

Originally a superb DVD player, the Meridian 800 developed to become one of the most highly-specified optical disc players in the world. From its impeccable pedigree came the original 808 Signature Reference CD player, and now the 808v6 – the highest quality Compact Disc player Meridian has ever built.



## 808v6

### Signature Reference Compact Disc Player

else available and even now still stands comparison with many designs of today.

In the intervening years, Meridian has relentlessly pursued the path of making better and better CD players, introducing over two dozen models – each one better than the one before. Every model has received critical acclaim, and we have gathered more than 50 awards for our CD players.

Over the years we have researched, pioneered and ultimately mastered the art of refinement of every aspect of CD playback. We showed how jitter was a major challenge to audio quality – indeed, Meridian was the first company to isolate jitter, as far back as 1984.

Our technologies include advanced servo implementations, unique power supply designs, significant innovations in the digital arena and, of course, peerless analogue sections. Meridian also pioneered the idea that special disc navigation could improve the playback quality on difficult discs (such as those with fingerprints, scratches or manufacturing defects). Our players also benefited from digital output capabilities.

Meridian was also the first company to offer a 2-box solution (utilising an outboard DAC), and has developed special phase-locked loops and FIFO buffers to produce the very best result in such systems – including of course our preferred system, a CD player directly connected to a pair of Meridian DSP loudspeakers.

Over the years a Meridian CD player has become synonymous with the best sound, and 'a reference'. This is a reputation we cherish, and one which we aim to defend by making each player better than the one before.

#### Why the 808?

Interest in the 808 CD player remains very strong. This tells us that there are still listeners who do not want pictures or complications attached to their music enjoyment, and wish to take advantage of the extensive selection that is available on Compact Disc.

At the same time, the 808 provides a bridge to a server/cloud-based future. The 808 can replay music stored losslessly on a Meridian Sooloos Digital Media System

## The press on Meridian's CD players...

### Meridian CD Player

"...a breakthrough for CD players. ...[Soundstage] is where the Meridian renders the competition irrelevant and worthless."

—*The Absolute Sound, Winter 1985*

### Meridian Pro-MCD

"I suspect that [the Meridian Pro-MCD] will be the first CD player to be regarded as a 'classic!'"

—*Hi-Fi News & Record Review, Feb 1986*

### Meridian 207

"The original Pro-MCD set the benchmark in its day, but the 207-Pro was the radical step, placing Meridian for all time in the CD player hall of fame."

—*Hi-Fi Choice, June 1990*

"There is nothing else on the market remotely like the Meridian 207... It is...one of the finest-sounding CD players on the market."

—*Sydney Morning Herald, Aug 1988*

### Meridian 602/606

"In Meridian we might be looking at a company that has a real contribution to make towards raising CD performance."

—*Audiophile, June 1991*

"...the 602 [via the 606] was damn near impossible to fault... Its resolution of the subtlest treble details was intricate to the point of being exquisite... the 602/606 turned out to be a very 'special' combination."

—*Hi-Fi Choice, July 1991*

### Meridian 508

"...the Meridian 508.24...the world's best single-box player and used as a reference machine by renowned US publication *Stereophile*... brings out aspects of music that most players can merely hint at..."

—*Audio & Video Lifestyle, 1999*

"...the 508.24's measured performance reveals that Bob Stuart and his talented digital design team have done a fabulous job."

—*Stereophile, May 1998*

### Meridian 800

"...the 800 is perhaps the finest overall CD player I've ever laid ears on. When you consider that there are some CD-only players around that demand this outlay, the price tag doesn't seem all that eye-watering... Takes audio to another level.... Without doubt the finest optical disc playing system we've encountered."

—*HiFi World, December 2002*

"...I found that the Meridian... was clearly superior... not just to my reference components, but to any other CD front ends that I've auditioned or reviewed... The performance of Meridian's 800/861 with CDs is superior to the performance you get with the great majority of SACDs and DVD-As through any player."

—*Absolute Sound, December 2003*

### Meridian 808

"The 808 is worth every penny asked for it. ...this deck is head and shoulders above almost everything else I have ever heard. It's beautiful, well built and sounds wonderful... After listening to this player for the last three months at least six (sometimes 10-12) hours a day, I'm still as infatuated with it as the day it arrived. The main thing is that the Meridian 808 is an extremely musical player that gets it right on all levels."

—*Tone Audio, Issue 8, 2007*

– for example, your existing CD library, high-resolution sources and the latest MQA sources – at the highest possible quality, with control of the Play Queue from the MSR+ remote, plus streams and downloaded files. The 808 also offers additional inputs to make it truly the hub of the ultimate music system.

MQA is a revolutionary audio processing system that captures the essence of a studio master with advanced sampling technology and encapsulates it into a lossless stream or file. On replay, the sound of the original studio master is reproduced – guaranteed.

MQA sources in the form of streams or files are handled differently depending on whether they are destined for analogue or digital outputs. Two stages must be carried out to enjoy an MQA source: decoding and rendering. In all cases, MQA sources are decoded in the 808. Then, in the case of Meridian DSP Loudspeakers connected via SpeakerLink, the signals are passed to the loudspeakers for rendering. When passed to the analogue outputs, the MQA source is rendered internally within the 808.

Thus the 808 is an exquisite CD and network player/pre-amplifier, embodying the very best of our art and technology. And the 808 is a 'signature' model – each one hand-signed by Meridian's founders, Robert Stuart and Allen Boothroyd.

Meridian's 808 is the latest in a series of optical disc players that use a CD-ROM drive for reading. This drive allows multiple passes to be made, ensuring that the correct data are recovered from the disc and improving Compact Disc's error-correction a hundredfold. It also allows complete buffering of the recovered data.

To ensure the lowest possible jitter, 808 incorporates an advanced clocking regime, and employs three buffers. By the time the data is passed to the DACs or the digital outputs, the jitter is incredibly low – in fact 808 has the lowest jitter we have ever

measured on a CD player.

## Above and beyond

The signal path includes proprietary error correction and concealment, and Meridian's acclaimed 'Resolution Enhancement' DSP, in which the original 44.1kHz, 16-bit audio is upsampled to 176.4kHz, 24-bit in a 500MIPS processor operating with 48-bit internal precision. This upsampling allows conversion-related filtering to take place far above the limits of human hearing, so there are no artefacts added to the sound – you simply hear the pure music.

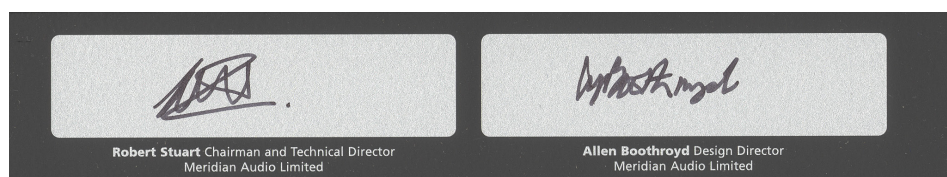
However, the 808 goes further still. High-resolution audio prefers sample rates and bit depths higher than the 44.1kHz 16-bit CD format, which is why we use resolution enhancement that includes upsampling and features special 'apodising' filters – filters that are minimum phase, with no ripple, causing no pre-echo: and thus offering optimised timing. These filters require significant DSP to deliver, using the power of the 808's main processor. But the system is so effective that it can even correct certain errors made in the recording or mastering stage. The same advanced DSP also allows control of lip-sync delay, to ensure that audio signals remain in perfect synchronisation with video.

Finally, at the end of the audio chain, the 808v6 employs the latest multi-bit oversampled delta-sigma D/A converters, combined with a matching proprietary analogue output stage of the highest quality.

## Innovation is the keynote

The 808v6 includes many other features, including twin RJ45-based SpeakerLink interfacing, allowing a direct "home run" single-cable link from the 808 to each of a pair of Meridian DSP speakers via convenient, easily-installed unobtrusive cabling.

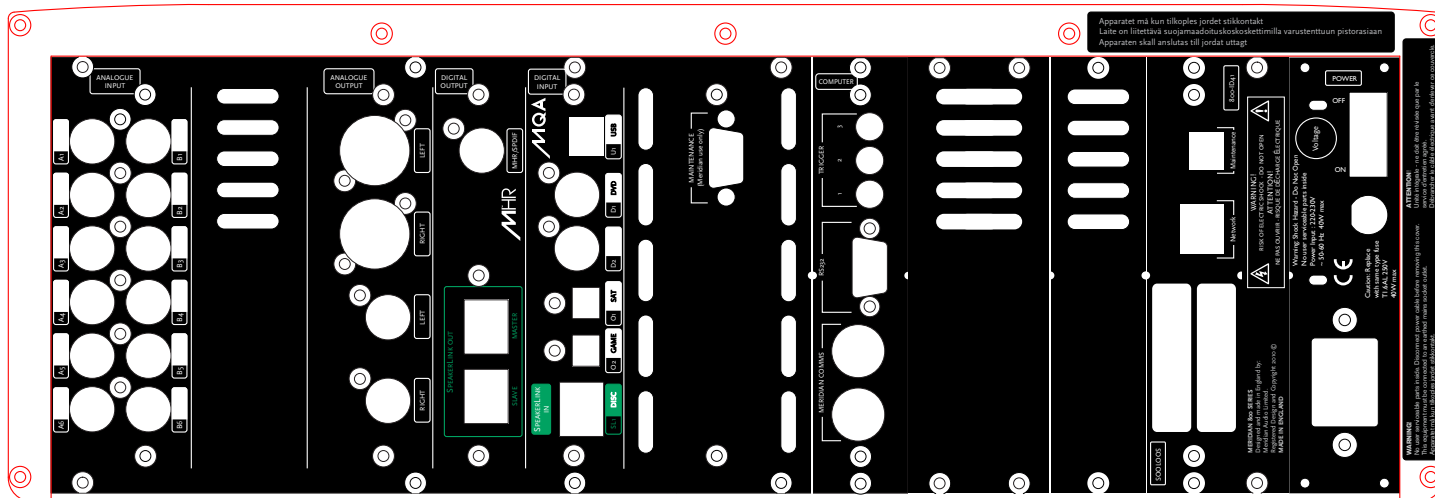
The 808v6 also includes extensive preamplifier functionality, with a comprehensive set of analogue and



Robert Stuart Chairman and Technical Director  
Meridian Audio Limited

Allen Boothroyd Design Director  
Meridian Audio Limited

Each 808 is hand-signed by the founders of Meridian, Bob Stuart and Allen Boothroyd.



808v6 rear panel layout

digital inputs – including SpeakerLink for convenient interfacing with other Meridian components. The analogue input stage features enhanced high-performance analogue to digital conversion.

Both analogue inputs and outputs are included, the latter with redesigned circuitry and enhanced DSP including advanced filtering and broader bandwidth, maximising the potential of high-resolution music. The analogue outputs also offer control of Treble, Bass and Balance.

808v6 also features high-definition digital and USB input capability, accepting S/PDIF coaxial and USB sources at up to 192kHz/24-bit, allowing the 808v6 to be used as an exceptionally high quality computer audio replay system, with a level of quality limited only by the quality of the source material. The 808v6 also supports the playback of DSD sources via DSD-over-PCM (DoP) from a suitable media player, using the USB or S/PDIF coax inputs.

The latest SpeakerLink firmware is included, which supports features available on selected loudspeakers such as Enhanced Bass Alignment, Enhanced Boundary Control and subwoofer level. The result is, quite simply, the most impeccable-sounding CD and network player available today, with full preamplifier capabilities enabling it to form the heart of the ultimate music system.

The 800v6 is available in Black and the full range of Meridian Select colours.

### Outline Specifications

#### THD & Noise

- Better than -96dBFS

#### Mechanism

- Triple-beam laser, multi-speed CD-ROM transport

#### Conversion

- 192kHz-capable, 24-bit, Delta Sigma converters operating at 4 x CD sample rate (176.4kHz).
- Apodising-style upsampling filter system.
- Decoding of Meridian MQA sources
- Native DSD (DoP) decode

#### Stereo Outputs

- Analogue: 1 unbalanced on phono, 1 balanced on XLR-3M: 2.3V rms fixed/variable, Class A, 47Ω impedance
- Digital: coax unbalanced (S/PDIF); twin RJ45 balanced (AES/EBU)
- SpeakerLink digital interface for single-cable connection of other Meridian equipment. Operating at up to 2 x CD sample rate (88.2kHz), 24-bit or using Meridian's proprietary MHR format.

#### Stereo Inputs & Sources

- Analogue: 6 unbalanced on phono.
- Digital: 2 coax, 2 toslink optical, 1 speakerlink RJ45, 1 USB
- Meridian Sooloos Digital Media System connectivity via RJ45 Ethernet connection

#### Formats

- CD Audio (CD-DA), CD-R, CD-R/W
- MQA decoding on digital inputs, plus rendering to analogue outputs.
- DSD on S/PDIF coaxial inputs and USB (DoP) with suitable media player

#### Comms

- Two 5-pin 240° DIN sockets for Meridian Comms, and RS232 full remote/configuration interface. Three programmable 12V trigger outputs. RJ45 SpeakerLink.

#### Construction

- Black and the full range of Meridian Select colours.

#### Controls

- Front-panel keys for Open/Close, Play, Stop, Pause, Previous, Next, On/Off. Additional controls behind hinged front access cover include Repeat, Fast Forward/Reverse, Display, Mute, Volume Up/Down, Store/Clear, Source. Full remote control via MSR+, RS232.

#### Display

- 20-character dot matrix display with adjustable brightness and contrast. Indicators for Phase, Repeat and EQ (emphasis).

#### Dimensions

- 480mm (18.9in) x 175mm (6.9in) x 411mm (16.2in) (whd)

#### Power

- Advanced linear power supply