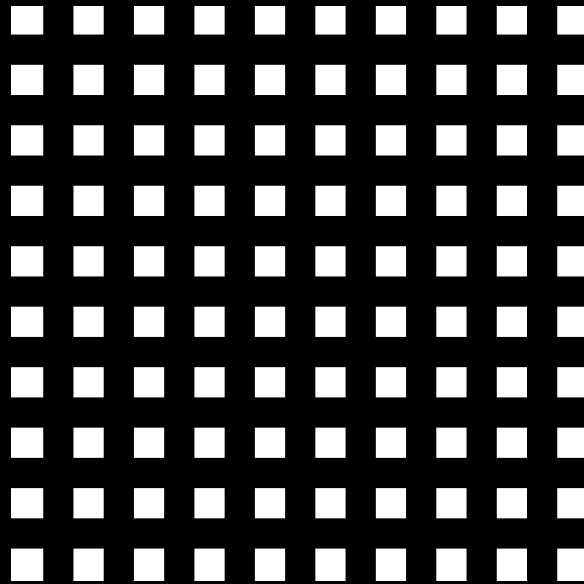


HIGHER FIDELITY



BOOTHROYD STUART
MERIDIAN[®]

“...the most awesome components made in the world.”

Rick McCallum, Producer, Star Wars...



The founders



Bob Stuart studied Psychoacoustics, Electronic Engineering and Management at Imperial College, London. A passion for music soon led him to specialise in audio design.

Boothroyd and Stuart met in Cambridge, discovered shared interests and philosophies in audio equipment design and founded Meridian in 1977. Since then, their designs for Meridian Audio have gained much critical and industrial acclaim, winning the coveted Design Council Award for Outstanding British Products an unprecedented three times in addition to many other international accolades.

The latest G Series, 800.4 DVD and 808 CD players, the 861.4 Processor and DSP Loudspeakers represent the culmination of these many achievements.



Allen Boothroyd trained as a mechanical engineer, going on to study industrial design at the Royal College of Art.

Bob's passion for music plays a major part in his desire to ensure that the quality of an original recording is maintained indefinitely. As a result, Meridian Lossless Packing (MLP) technology was developed by the Meridian research team. These efforts were rewarded when MLP was mandated by the world's leading audio experts as the lossless compression scheme for the DVD-Audio standard – a significant achievement for any audio company. Today, MLP is at the heart not only of DVD-Audio and DualDisc, but also of the emerging high-definition media specifications, HD-DVD and Blu-ray Disc.

Lifestyle technology



The Meridian MCD-Pro was the world's first audiophile-quality Compact Disc player. It not only showed the potential of CD, but the promise of digital audio as a whole.

There is one concept that has informed and inspired Allen Boothroyd and Bob Stuart – and Meridian as a company – from the beginning, and it's a simple one: enjoyment.

Thus, the central focus of Meridian's internationally acclaimed components, loudspeakers and systems is to enhance your enjoyment and quality of life, through home entertainment. Our goal is to help you enjoy the movies you watch more, and get more out of the music you listen to. Even the award-winning styling and appearance of Meridian's 'Lifestyle technology' components is designed to enhance your surroundings.

From a compact stereo system to a custom home theatre installation, the message is the same. When you're listening to music on a Meridian system, you are brought closer to the music and the performers. We reproduce all the auditory 'clues' that help you create an image. We help recreate the space in which the performance takes place, whether it's a world-famous concert hall or the virtual space created in a rock studio. Every nuance and detail is made clear – you hear and understand on a deeper level. You enjoy the music more.

Add vision to sound, and the effect is even more pronounced. Our DVD players, video processors and projectors present film-like images of vibrant colour and crystal clarity. Pictures so lifelike, you are drawn into them – unaware, now, that you are looking at a screen. You enjoy the movie more.

Meridian brings you closer to the performance; closer to the heart of the art. A Meridian system is the ultimate lifestyle enhancement, enriching your life and soul.

We deliver enhanced enjoyment in many ways. Pioneers in the art of digital technology, we built the world's first audiophile-quality Compact Disc player over twenty years ago. Fifteen years ago we invented the DSP (Digital Signal Processing) loudspeaker, completing a pristine digital link from the studio to your listening room. Our systems often out-perform the monitoring on a soundstage – movies have never sounded so good. Now, as exclusive manufacturers, distributors and co-developers of Faroudja® video products, we deliver the picture to match.

But technology is no more than a means to an end – and in the case of Meridian, the end is the enjoyment that your lifestyle deserves.

Experiencing is believing



Meridian excels at complete, fully integrated systems, and the Meridian Digital Theatre is the ultimate expression of this concept. Meridian is the only company currently capable of offering a super-quality, totally digital path from disc to screen and speaker, for maximum quality and realism of both sound and vision.

Yet equally, Meridian components play well with others. Our CD and DVD players provide accurate, additional sources for your existing system; our power amplifiers will drive your preferred loudspeakers perfectly. With the choice of analogue and/or digital inputs and outputs on our controllers (preamplifiers) and surround processors, Meridian can easily blend in and become a part of your life.

This brochure introduces Meridian audio and video systems and components, from digital loudspeakers to amplifiers, analogue controllers to digital surround processors (another first for Meridian) – from a simple, superb-quality compact stereo system to a full home theatre installation.

If you need more technical information than the overview provided here, your dealer can provide a data sheet for each product, or you can find it on our web site.

Just as enjoyment is the goal, so reading about enjoyment is simply not enough.

We encourage you to experience Meridian audio and video entertainment products and systems for yourself. Whether you're looking for a component to complete or enhance your existing setup or a complete Meridian Digital Theatre, contact your nearest dealer (a list is available at www.meridian-audio.com or by calling or emailing us – details at the back of this brochure) and arrange a demonstration.

Then bring your favourite music and/or movies, sit down, take the Meridian System Remote Plus in hand, and press Play.

Only then will the sweetness of the sound and the naturalness of the image truly become clear. Try it. We promise you'll enjoy the experience – and that you'll want to enjoy it forever.

A unique performance

Our stylish DSP loudspeakers – a concept we invented over 15 years ago – replace passive crossovers, external digital to analogue converters and power amplifiers. Everything is in the speaker cabinet. The crossover is digital – offering DSP capabilities such as optimisation and bass enhancement that are simply impossible in the analogue domain – resulting in the performance you would expect from a loudspeaker four times the size, with a smoother, more natural sound that no conventional design can match. An individual precision digital converter handles each frequency band, each driving its own amplifier. Amplifiers are wired direct to the drivers they power just inches away – for the ultimate in control and accuracy.

Cabinet construction is equally unique, employing carefully designed combinations of laminated, bonded, metal and wood to minimise vibration, and damped with poured resins to ensure that the enclosure in no way colours the sound. We treat our loudspeakers like the quality musical instruments they are: a fact reflected in their elegant, stylish appearance. Meridian loudspeakers enhance their surroundings with their looks as well as their sound.

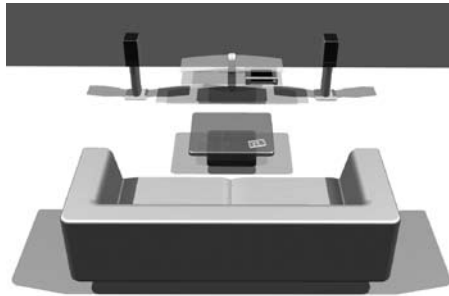




The type of system you want

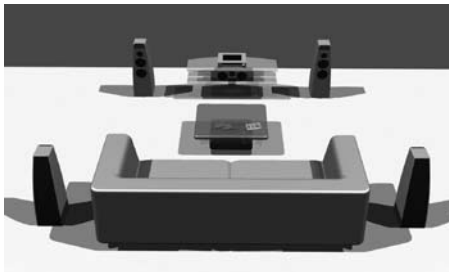
Stereo, multichannel or home theatre

2-channel Audio



A stereo system has a place in every home, and Meridian systems deliver the very best from your Compact Disc library and other sources, including fully optimised stereo reproduction of recordings made in surround-sound. Meridian offers superb CD and DVD players that can be coupled with our analogue stereo (and dual-mono) controllers and amplifiers as well as all-digital systems consisting of as little as a player and a pair of our DSP Loudspeakers.

Multichannel Audio



With powerful and versatile surround controllers in both our G Series and 800 Reference Series, Meridian systems are ideal for multichannel operation, some units supporting as many as 12 loudspeakers. Employ our DSP loudspeakers, or choose analogue versions of our surround controllers with our multichannel amplifiers, and your choice of loudspeakers.

The Meridian Digital Theatre — Music & Film



The Meridian Digital Theatre is the ultimate expression of surround sound and image for film and for music. In addition to superb sound, Meridian home theatre systems deliver unequalled high-definition images, enhancing existing sources to full High Definition broadcast quality, scaling and de-interlacing up to 1080p, thanks to Faroudja's exclusive Emmy-winning technology.



The style that suits you

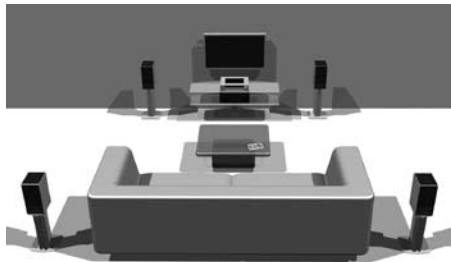
From individual components to entire systems

Components to complement your existing system



Often, you won't be starting from scratch: you'll want to upgrade an existing disc player, add a surround controller, or perhaps experience the world of DSP loudspeakers for the first time. Meridian's award-winning components are designed to work as part of a Meridian system, but each on their own is capable of extraordinarily high quality results when linked into your existing setup.

Compact and free-standing systems



At Meridian, we never forget that you need to get the best possible performance in the real world. DSP loudspeakers are much more efficient than conventional designs and can be smaller, while offering superior performance. Our controllers will render exquisite sound – in stereo or surround – in your home, whether it's a purpose-built home theatre or your living room. And Meridian speakers and components are elegantly styled to suit any décor.

Hidden systems

Meridian's 800 Reference Series is one of the most highly rated audio/video systems in the world. Comprising the 800 Optical Disc Player and 861 Surround Controller shown here, the series also includes the 808 Signature CD Player – the highest quality CD player Meridian has ever made.



Or perhaps you don't want to see the system at all. Our best-selling in-wall DSP, analogue and passive installation loudspeakers offer similar performance to our free-standing models. All our components can be rack-mounted and hidden away, with RS232 remote control integrated into your home automation system and remote IR sensing.

Finger on the pulse

The fine art of control

A sophisticated modern audio/video component offers many functions which you don't need every day. But at the same time, you require quick, simple and intuitive access to the functions you *do* need.

As a result, we've made Meridian systems accessible on several different levels. First, you can access the vast majority of common requirements from the front panel. In the case of the G Series, virtually every function can be configured by using the front-panel display and 'smart keys', labelled automatically according to context.

Connecting a computer to the serial port, however, allows access to every level of functionality of the component. You or your installer will perform initial setup on the system with our Windows graphic configurator. This includes setting up speaker sizes, positions and levels – you probably won't need to do that again.

Similarly, you can assign different sources to different inputs and determine how they should be handled – analogue or digital, music or movies, in stereo or surround.

What this all means is simplicity. Put a DVD in the player and press *Play*, for example. Down comes the screen. The lights dim, and your system is placed in the correct surround decode mode. Without another thought.



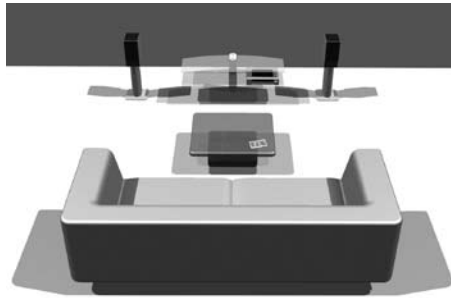


The G91A DVD player/tuner/controller is a complete system in a box: for stereo or surround, simply add speakers – Meridian DSP systems; G Series power amplifiers and your choice of conventional speakers; or, if you prefer, a combination of the two.



System choices I

2-channel compact system



The vast majority of music releases are on Compact Disc, and a modern CD is capable of exceptional results – on the right equipment. With a Meridian CD player, especially as part of a Meridian stereo system, you'll get more out of your CD collection than ever before. After all, we invented the audiophile CD player over twenty years ago.

In addition, high-resolution disc formats like DVD-Audio virtually always have stereo tracks you can choose – and even if they don't, a Meridian DVD-Audio/Video player will downmix surround sources expertly to stereo.

A compact stereo system thus represents an ideal entry point into the world of Meridian quality and performance. Start with a player like the G08 – with upsampling and a DVD computer-style drive to ensure that every

last bit is rendered correctly – and couple it direct to a pair of our compact DSP loudspeakers, like the DSP3100s shown on the opposite page.

For dramatically increased flexibility, choose the G91A DVD Player/Controller/Tuner with its vast array of possibilities in stereo and surround, including analogue and digital inputs, and couple that to a pair of DSP loudspeakers. Either delivers a pristine digital path from the recording studio to your listening room, the signal remaining in the digital domain from the original recording right through to the loudspeakers.

With Meridian, you can always alternatively choose an analogue path. Couple a player like the G08 and other sources to a stereo controller like the G02. Follow it with one of our stereo amplifiers and the passive speakers of your choice – or use our active analogue designs like the M3100 (the active version of the DSP3100 shown opposite) or M420 in-wall. At Meridian we are masters of both analogue and digital systems.

◀ *Meridian DSP3100 DSP loudspeaker on floor stand, with G08 upsampling CD player – a complete stereo system.*



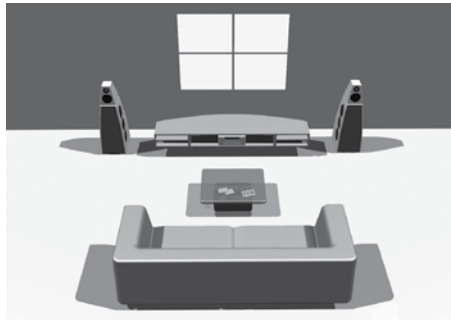
System choices 2

2-channel ultimate system



Meridian 808 Signature Reference CD Player

- ◀ We design our loudspeakers like musical instruments – which, of course, they are. Created to deliver outstanding performance for decades, they have to be capable of reproducing the sound of a Steinway or two at their real, acoustic level without distortion, something that few loudspeakers can manage: the acoustic piano is well-known as the supreme challenge for an audio system. With your eyes closed, you'll find it difficult to tell the two apart. Meridian loudspeakers will, of course, handle an orchestra, rock band or movie soundtrack equally superbly.



Our highest quality, most advanced products are also highly appropriate for stereo. Take the 808 Signature Reference CD Player, for example. It's the finest-quality CD player we have ever made.

Originally designed to celebrate the 20th anniversary of the introduction of our original audiophile CD player, the 808 is a limited edition, personally hand-signed by both the founders of the company, Allen Boothroyd and Bob Stuart: the multiple-Design-Award-winning team that has been behind Meridian since the beginning.

The 808 will play virtually any form of audio Compact Disc, offering prodigious jitter reduction, buffering, error-correction and multi-speed read capabilities along with upsampling.

The 808i adds digital and analogue stereo inputs and preamplifier functionality to the basic player.

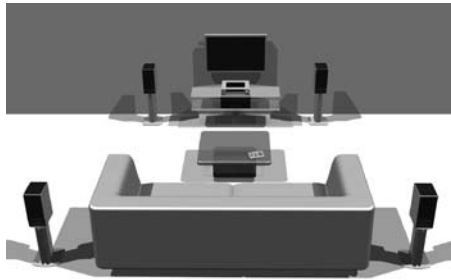
The 808 makes an ideal match for our DSP8000 DSP loudspeakers – once again, the top of our range. High resolution signals are passed direct from the player to the loudspeakers and the combination is truly breathtaking – there is simply no better way of listening to your music in stereo.

Of course, Meridian components, designed to work together as a complete system, can be mixed and matched as you require. You can equally couple the 808 to a pair of DSP5200s, or to an analogue power amplifier such as the G57 and the conventional loudspeakers of your choice.



System choices 3

Multichannel compact system



There's no doubt that surround sound adds an extra dimension to your listening experience. Some would say that the move from stereo to surround is as impressive as the difference between mono and stereo.

Don't forget, too, that there is more to surround sound than movie effects. Music in surround allows you to experience the feeling of sitting in the best seat in the house in a world-famous concert hall, or next to the producer in the recording studio. With the latest multichannel systems from Meridian, you can even experience surround sound with height.

In addition, Meridian components include innovations such as the universally praised Trifield system, which extracts the latent surround information in high quality stereo recordings and reproduces it, stabilising the image and bringing new life to your existing stereo collection.

Choose Meridian DSP loudspeakers that suit your room, such as the latest compact DSP3100 or DSP5200. Then, if you wish, add one or more of our analogue/digital subwoofers, like the SW1600, to supplement the lower frequencies. You can mix and match – perhaps larger speakers at the front and smaller ones at the rear – to build exactly the system you require, in the space you have available.

Drive the speakers with one of our award-winning digital surround processors. Then simply tell the graphical configuration programme what your system includes, and it'll set all the components up for optimum performance – whatever the size of the room or the position of the speakers.

Our compact systems are ideal anywhere you want something smaller – for a limited space or just less obtrusive – as well as Meridian's trademark: an incredible sound.

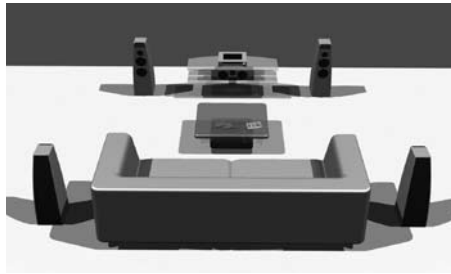
Meridian systems have been installed in luxury yachts, personal jets, theatres, dens, bedrooms and living rooms around the world.

† Our systems are at home in any environment. A compact Meridian surround system like that described here might be ideal for such varied locations as a luxury apartment, a superyacht, or even a personal jet.
Photo: The Image Bank/Gary John Norman



System choices 4

Multichannel freestanding systems



A Meridian surround system does more than simply reproduce the original performance: it takes you there. All the subtle cues present at a live acoustic event are reproduced, making you really believe you're sitting in the hall. Just close your eyes...

Reproducing whole orchestras – or solo instruments in real acoustic spaces, an even more exacting task – is carried out flawlessly, with incredible detail. You can 'listen into' the music, hearing the most subtle sounds clearly. Follow a musical line in an arrangement, catch a violin harmonic – or listen to the die-away of the final chord of *Sergeant Pepper*. Because a Meridian system can equally reproduce the 'virtual' spaces created in a rock studio or on a film soundstage. Meridian has no equal.

A Meridian multichannel system of *any* size is ideal for enjoying movies as well as music. The all-digital signal path preserves the

most subtle nuances of the sound, so that you hear it exactly as the sound designers intended – and possibly better than they ever heard it themselves – from birdsong and the wind in the trees to the roar of a thunderclap or the eruption of a volcano; an asteroid crashing into the Earth or the footfall of a *Tyrannosaurus Rex*. And our subwoofers, like the powerful SW5500, can help you feel the impact even more deeply.

Your Meridian system will meet all these challenges flawlessly, rendering from every surround encoding scheme on your discs the very best that they can offer, for a truly impressive, enveloping and stunningly real experience. Stereo material, too, can be rendered effectively into surround, for even greater enjoyment of your existing two-channel collection.

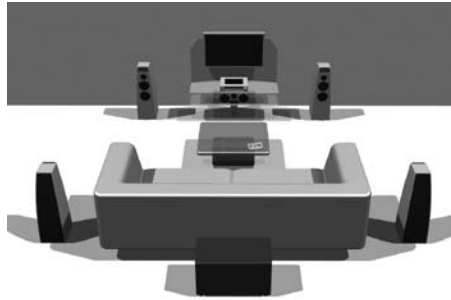
In addition, our freestanding loudspeakers look as good as they sound – with smooth, elegant lines and a wide range of finishes to complement any interior design or décor, from piano lacquer black and satin silver to carefully selected wood finishes (see inside the back of this brochure). Custom colours and finishes may be available to special order.

♦ A G Series system with DSP7000 loudspeakers at the front left and right, DSP5000HC centre-channel speaker.



System choices 5

Ultimate Digital Theatre



The Ultimate Digital Theatre is designed for those who simply must have the very best. Meridian's state-of-the-art components offer only the highest quality and ultimate performance, for both sound and picture.

Consider, for example, the DSP8000 loudspeakers and 800 Series components shown opposite. These are flagship designs upon which many of our other models have been based. They offer incredible power and accuracy – a combination that only the Meridian Digital Theatre can provide.

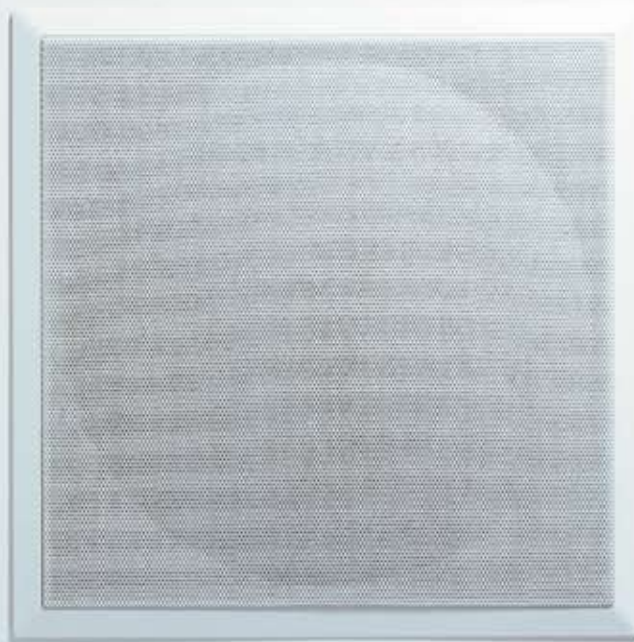
A Meridian Digital Theatre system is optimised for music, with the ability to handle, flawlessly, the entire gamut of sound: soft or loud, subtle or brash. As a result, Meridian systems out-perform the equipment you'll hear in virtually any cinema, or even an exclusive preview theatre. In fact, a top-quality Meridian system can

even out-perform the audio equipment at a film studio: directors experiencing their own movies on a Meridian system for the first time have been known to remark that they have never heard their movies sound so good. Rick McCallum, the producer of the Star Wars epics, told us that Meridian offers *"the most awesome components made in the world."* When it comes to movies, Meridian offers you an experience that can actually be superior to the 'real thing'.

Pair these exceptional audio components with the latest Faroudja digital video processors and High Definition digital video projectors, for the ultimate in sound *and* the ultimate in vision. *"This is the best DVD picture I've ever seen,"* said noted film producer Arnon Milchan, experiencing the Meridian Digital Theatre for the first time. *"It looks like 35mm film, and the sound is incredible."* Faroudja is the acknowledged leader in high-resolution, future-ready digital video processing, and Faroudja products are created and tested in our UK factory.

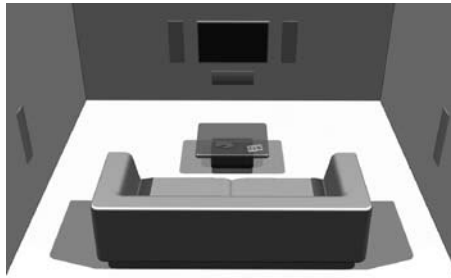
Meridian is the only company that can offer this unique combination of market-leading digital video and digital audio. With award-winning products revered and acclaimed around the world, Meridian leads the way.

◀ A DSP8000 loudspeaker shown with 800 Reference Series Optical Disc Player, Faroudja DVPI080 video processor and DSP5000HC horizontal centre-channel loudspeaker.



System choices 6

Hidden audio systems



Or perhaps you want to see nothing apart from the screen – and not even that, if it rolls away for pure music enjoyment. If so, we can fulfil your requirements here, too.

Our range of in-wall loudspeakers – in both active analogue and digital DSP-based varieties – are designed to deliver the same exquisite quality as our free-standing designs. Hide away all of the loudspeakers or perhaps only those at the rear, as you wish.

Our installation loudspeaker range includes slimline systems that may be mounted on-wall, offering a shallow, elegant profile; in-wall, with only the grille on the surface; or flush-mounted, so that they can be installed behind wall-coverings or fabric and thus be rendered completely invisible.

Meanwhile, the components can be hidden too. All our units may be rack-mounted with special active racking kits that allow access to interfaces at front and rear for trouble-free installation and configuration.

The components themselves can be controlled by infrared (with a remote sensor if required) or by serial command from your home automation system. Meridian components integrate seamlessly with all the primary choices for comprehensive system control.

With Meridian, you can see as much, or as little, of the equipment as you choose – but you always get *all* the performance!

◀ The 420 in-wall loudspeaker (both DSP420 and analogue active M420 are available) shown with a G68 Surround Controller.

G Series and 800 Reference Series components

G Series sources

G Series controllers

800 Series

G06 24-bit CD Player 	G01 Preamplifier/Tuner 		808 Reference CD player 
G08 Upsampling CD Player 	G02 Balanced Dual Mono Preamplifier 		800 Reference Optical Disc Player 
G98 DVD Transport 	G61 Surround Processor 		861 Reference Surround Processor 
G91A DVD Player/Controller/Tuner 	G68 Surround Processor/Tuner 		
	G51 2 x 100W Receiver 	MSR+ Backlit Learning Remote 	
			(not all items are to the same scale)

Loudspeakers

DSP8000



DSP7000



DSP5200



DSP420/M420 In-Wall



200 Series In-Ceiling



DSP5200HC



300 Series In/On-Wall



DSP3100



DSP5000



DSP5500



DSP3100C



DSP5500HC



SW1600



SW5500



Amplifiers

G56 2 x 100W Stereo Power Amplifier

G57 2 x 200W Stereo Power Amplifier

G55 5 x 100W Power Amplifier

G41 Speaker Control Unit

G46 DSP Speaker Control Unit


Video products

DVPI080 HD Video Processor

MF1080pHD 1080p Video Projector

DILA1080pHD 1080p Video Projector

HDMAX 421 4 into 1 HDMI Switch

HDMAX 121 HDMI Extender/Booster


61:54

D STUART
DIAN



Off

Sources:
Compact Disc players

G06 24-bit CD Player



G08 Upsampling CD Player



808 Reference CD Player



Compact Disc is still by far the most popular medium for music, with vast numbers of titles released every year. Indeed, Meridian Compact Disc players are more popular every year.

CD Audio offers exceptional results in a good playback environment, with a top-quality player, and Meridian offers such players both in the G Series – with the G06 and G08 – and the 800 Reference Series, with the 808 and 808i.

The players employ a high-speed ROM drive to reliably recover accurate data from the disc, and the G08, 800 and 808 employ upsampling to deliver the highest possible audio quality. Precision clocking and buffering minimise jitter, resulting in accurate stereo imaging and clear, clean highs.

The 800 Reference Series includes the 808 Signature Reference CD Player, the highest quality CD player we have ever produced: each unit is personally signed by Meridian's co-designers and founders Bob Stuart and Allen Boothroyd.

The 808 is available in two versions: as a player, or as a player/controller with multiple analogue and digital inputs – the 808i.



Sources:
DVD-Audio/Video players

G98 DVD-Audio/Video Transport

G91A DVD Player/Controller/Tuner

800 Reference Optical Disc Player


Meridian has been deeply involved in DVD – the most popular consumer electronics product ever – since its inception. Meridian is the only British hardware manufacturer to be a member of the international DVD Forum, and developed Meridian Lossless Packing (MLP) initially for DVD-Audio. MLP has since been adopted by both of the emerging High Definition disc formats.

No surprise, then, that our DVD players are consistent award-winners and frequently receive glowing reviews in the press – all of them have been dubbed ‘*Player of the Year*’. All our DVD players handle audio and video CDs, MP3 discs and both DVD-Video and DVD-Audio discs, including the DVD sides of DualDiscs, for the very highest image and sound quality available today. Proprietary Meridian High Resolution (MHR) technology conveys encrypted high-resolution audio between player and processor. The encryption, by removing cyclic content from the digital signal, also reduces jitter, so stereo and surround images are tighter, more stable and more precise, and high frequencies cleaner. SmartLink enables the processor to know exactly what kind of content is being played, so it can select your choice of mode.

Our DVD players also feature on-board Faroudja video processing technology, with full-bandwidth High Definition 1080p video output via HDMI to support the latest digital displays and automatic selection of aspect ratio according to programme content. Video inputs allow a single link from player to display, with all sources being deinterlaced and scaled by the player.

The G91A is a complete system in a box: just add speakers. It’s a player/controller/tuner, with analogue and digital inputs, DAB/FM or AM/FM tuner and a comprehensive on-board surround decode capability. It’s able to drive a set of Meridian DSP loudspeakers or an analogue 5.1 system directly – or combinations of the two. It’s the ideal heart of a powerful stereo or surround system.

Alternatively, the G98 DVD-Audio/Video player is an ideal companion for our surround controllers.

And then there is the 800 Reference Series Optical Disc player. It is, quite simply, in a class of its own both for sound and vision, and needs to be experienced to be believed.



BOOTHROYD STUART
MERIDIAN



G68 Digital Surround Controller

Display



On/Off



Controllers & Surround Processors

G01 Preamplifier/Tuner



G02 Balanced Dual-Mono Preamplifier



G61 Surround Processor



G68 Surround Processor/Tuner



861 Reference Surround Processor



Analogue and digital audio are both foundations of the Meridian heritage. From beginnings in the late Seventies, when analogue was the whole story in consumer audio, Meridian has continued to develop its command of analogue technology, with good reason: it is equally important in a digital system.

Then when digital audio came along in the form of the Compact Disc, Meridian was the first to offer an audiophile-quality CD player, which still stands the test of time today.

Thus Meridian components offer both analogue and digital: two analogue controllers (or preamplifiers, if you prefer), the G01 and G02, offer unbalanced and true dual-mono balanced operation respectively, with optional phono modules.

On the digital side, our surround processors are second to none, with analogue and coax plus optical digital inputs, and both balanced and unbalanced analogue and digital output capabilities. Three models are available.

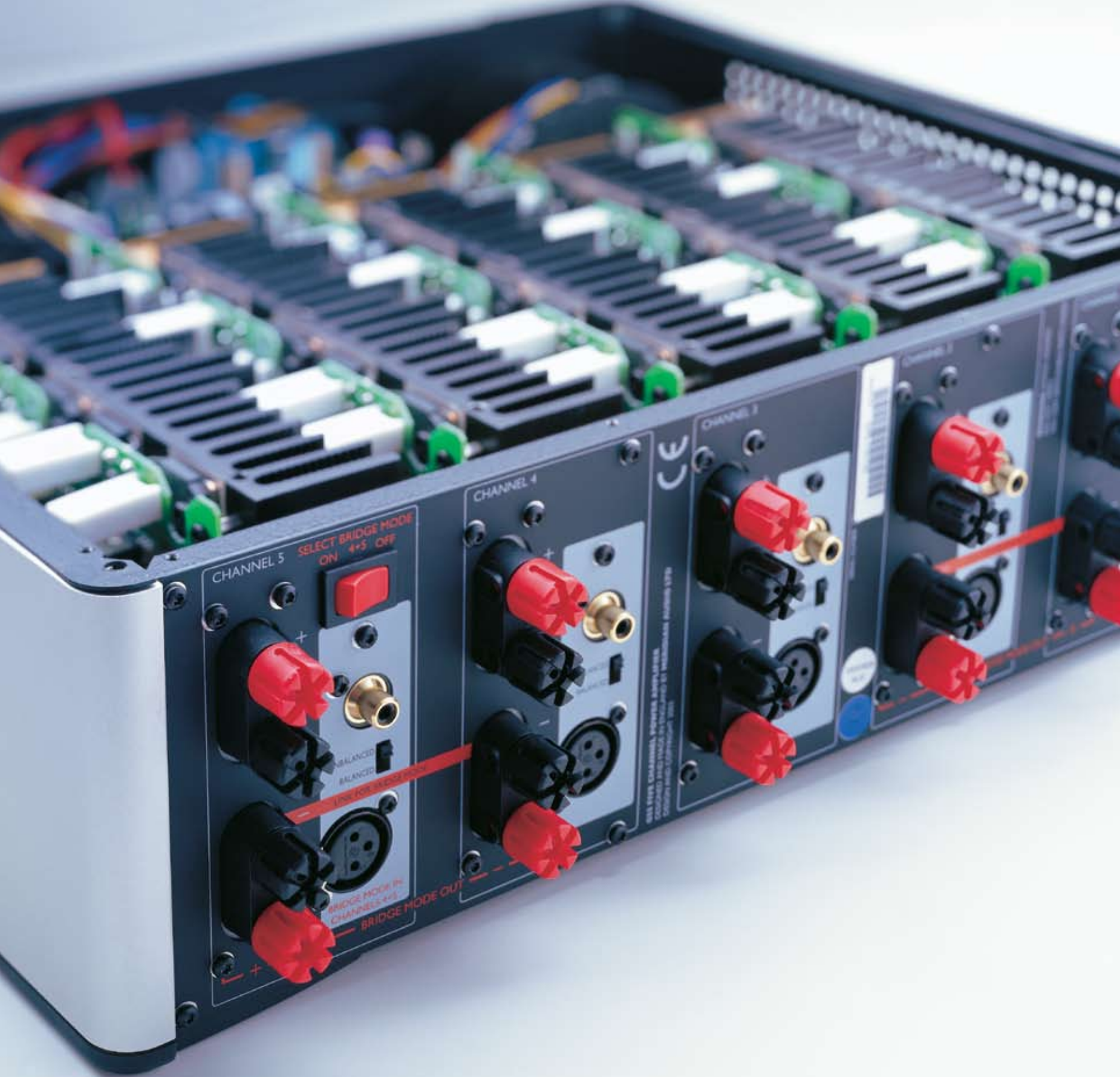
The recently introduced G61 represents an affordable entry level Meridian surround processor with a compact form-factor and an extensive range of capabilities.

The G68 is available in a number of different versions, including balanced and/or unbalanced analogue outputs or analogue and digital outputs, and with or without video switching and tape/multiroom capability.

The powerful, unparalleled 861 Reference unit, once again, stands on its own, with extraordinary clarity, precision and versatility.

All three are packed with multiple surround decoding capabilities, including the latest AAC technology plus Dolby Digital, DTS, Ambisonics, and much more. We write our own decoder software, so we can be sure that the output is faithful to the original.

The G68 and 861 include Meridian's ground-breaking Room Correction to manage troublesome acoustics. Unlike some 'room EQ' systems, which essentially equalise your loudspeakers and not the room, MRC recognises that you probably have very good loudspeakers already, and instead focuses on smoothing the room's decay time over a range of lower-register frequencies, removing muddiness and the impact of room nodes.



CHANNEL 5
SELECT BRIDGE MODE
ON 4+5 OFF

CHANNEL 4

CHANNEL 3

CHANNEL 2

SEE YOUR CHANNEL POWER SUPPLIES
FOR CHANNEL 5 AND 4+5
OPERATING INSTRUCTIONS

BRIDGE MODE IN
CHANNELS 4+5

BRIDGE MODE OUT

Power amplifiers

To drive your choice of loudspeakers

G56 2 x 100W Stereo Power Amplifier

G57 2 x 200W Stereo Power Amplifier

G55 5 x 100W Power Amplifier

G51 2 x 100W Stereo Receiver


Meridian components are designed to work together as complete systems, but they are also open-ended, thanks to our range of power amplifiers, which allow you to interface Meridian components seamlessly with conventional passive loudspeakers.

Two stereo amplifiers are available – one offering 100W per channel and the other 200W. We also offer a 5 x 100W multichannel amplifier for surround applications. They can also be doubled up and run in bridged mode for higher power outputs and multi-amped systems.

Our amplifiers feature truly advanced design, with heavily overspecified audiophile-grade components, beefy power supplies and true toroidal transformers. Like our loudspeakers, they feature low overall feedback yet high damping, for minimum coloration and maximum performance.

The G51 receiver represents the powerful combination of a G Series stereo preamplifier/controller offering seven stereo analogue inputs and dual tape outs and AM/FM or DAB/FM tuner, with a 2 x 100W stereo power amplifier.

DSP loudspeakers

Style, elegance and performance

The DSP loudspeaker concept is a fundamental one, invented by Meridian over 15 years ago, delivering an impressive performance, even from a small cabinet. Sophisticated cabinet construction materials and techniques ensure the enclosure is free of resonances and coloration. Smooth, elegant curves enable them to satisfyingly complement your interior design.

When you visit a Meridian dealer, Meridian DSP loudspeakers are probably the first things you'll notice. Their looks are unique; their sound is uniquely *believable*; they are like nothing else in the store.

Meridian DSP loudspeakers are available in a range of wood finishes as well as piano lacquer black and silver, with other colours available to special order (see opposite inside back cover). They range in size from the compact, bookshelf-sized DSP3100 to our flagship DSP8000, offering matchless performance on all musical and movie soundtrack content. Apart from their size, all the speakers have similar sonic characteristics, so you can mix and match as your needs dictate, secure in the knowledge that they will all work synergistically together as part of your overall system.



DSP8000 electronics



*DSP7000 (right) with DSP5500HC
centre-channel loudspeaker*





Compact loudspeakers

The DSP3100 Series



The DSP3100 represents a new benchmark in the development of compact, high-performance digital loudspeakers, and is designed for use as a bookshelf or stand-mounted loudspeaker. Matching aluminium stands are available that may be sand-filled for maximum stability and to minimise any impact on sound quality. The vertical units also include universal wall bracket mountings for additional flexibility in location. The horizontal centre unit is magnetically shielded. The DSP3100 is available in black or satin silver (illustrated) – matching the finish of G Series units.

The speakers are tonally similar to other Meridian DSP loudspeakers and as a result they are ideal for use, for example, as surrounds for a Meridian DSP-based system. They are equally suited for use in a smaller stand-alone system in a study or bedroom, and can be used as second zone speakers in a Meridian multiroom environment.

The extremely accurate characteristics of the DSP3100 make it eminently suitable for studio monitoring applications, particularly as a near-field or surround monitor in recording and mastering facilities. An active analogue version, the M3100, is also available.

Subwoofers

For any system, analogue or digital

Our smaller DSP loudspeakers – and systems in general, Meridian or otherwise, – are ideally complemented with one of our analogue/digital subwoofers, the SWI600 and SW5500. They combine the finest materials with state-of-the-art design to create what we believe are the ultimate subwoofers, emphasising extreme bass, depth, clarity, control and articulation.

Each subwoofer provides both digital and active balanced/unbalanced analogue inputs. They are based on 300mm (12in) high-efficiency long-throw custom bass drivers. The SWI600 uses a single driver, and the SW5500 includes two. In both cases, the enclosure is sealed for maximum flexibility of positioning. They are driven by Class G high efficiency ultra-low output impedance amplifiers. The combination of idealised magnetic design, careful star earthing, and very fast output devices gives the amplifiers extremely low noise and fast bass, optimised for both music and movie soundtracks.

Cabinets are constructed from 22mm wood with inert basket bracing and bitumen damping to produce an ultra-rigid cabinet that minimises coloration and resonance. Protection circuitry continually monitors driver behaviour for superior performance.



Smaller loudspeakers

The DSP5200 Series

DSP5200



DSP5200HC



SW1600 An ideal companion sub



The DSP5200 takes the elegant appearance and advanced design of Meridian's flagship DSP8000 and popular DSP7000 and delivers them in a compact package under 36in tall, with a horizontal centre available to match. Ideal for more spacious as well as smaller rooms, these loudspeakers will do justice to any system, in almost any environment.

Each DSP5200 combines a digital crossover design, three custom drivers, three amplifiers, two multi-bit delta-sigma digital converters and computers to deliver an impressive, uncoloured and accurate sound. Powerful digital signal processing technology gives the DSP5200 uncompromised, precise detail with pinpoint imaging and dimensionality in both stereo and surround. Advanced signal processing packs dynamics and bass into a compact, beautiful-looking enclosure. DSP controls allow correction for a variety of locations.

The stylish, curved and tapered cabinet construction is of 19mm thick multi-layer materials, and is inherently stiff with superior geometry and damping. This configuration, along with active operation, driver selection and DSP correction, delivers a combination of smooth, powerful bass and very low coloration.



DSP5000 & DSP5500 loudspeakers

Slim, single-box designs with maximum versatility

DSP5000



DSP5000HC



SW1600 subwoofer
An ideal companion subwoofer for either of these systems



DSP5500



DSP5500HC



SW5500 subwoofer
An ideal companion subwoofer for either of these systems



The DSP5000 and DSP5500 loudspeakers are front-facing single-box designs that can be built into system cabinets – DSP functions are provided to correct the frequency response in different locations. Each of the drive units has its own 75W power amplifier.

The DSP5000 is a 2½-way speaker, with three custom drivers, three amplifiers, two delta-sigma digital converters, digital crossovers and computers for maximum performance in a compact slimline cabinet. It offers uncompromised precise detail and stereo dimensionality unequalled for its price; advanced signal processing packs dynamics and bass into a compact, slimline package.

The 3-way DSP5500 includes removable wood and steel bolted side panels, which allow easy colour changes or custom finishes. The bass system uses two 200mm long-throw composite bass drivers. The cabinet vents through a floor-level wide-area coupling slot; this configuration, along with the active and DSP correction, maintains smooth powerful bass in the room down to 30Hz with very low mid-range coloration. The mid-range is a custom 160mm polypropylene driver in a separate enclosure.

DSP7000 loudspeaker

The essence of the DSP8000 distilled into a smaller cabinet



Like Meridian's flagship design, the DSP8000 (*opposite*), from which it is derived, the elegantly styled DSP7000 is breathtaking in its ability to place musicians in precise locations in your room, with even subtle body movements clearly audible. The system has the power to bring to life the most challenging orchestral or solo performance, soundtrack or rock band, with the innovative cabinet and drive technology necessary to deliver the demanding dynamic resolution required by today's advanced audio formats.

Each unit employs two high-efficiency long-throw custom bass drive units. The treble and mid-range drivers are mounted in a separate acoustic enclosure: the former is a semi-horn-loaded composite dome design with a silver voice coil, while the mid-range uses a custom 160mm polypropylene driver.

The drivers are powered by four independent high-power, low-feedback amplifiers with extremely low noise, high detail, and fast bass. The electronic assembly is powered by a substantial toroidal transformer feeding high-quality audiophile-grade capacitors.

The precision cabinet uses innovative design techniques to give exceptionally low coloration and exquisite mid-range transparency.

DSP8000 loudspeaker

Our flagship digital design



Meridian's flagship loudspeaker, the DSP8000, sets entirely new standards for clarity, dynamics, imaging and realism. The DSP8000 is designed to reproduce sounds at up to full natural level while providing all the resolution required by sources of up to 24-bit and 192kHz sampling. A new approach to cabinet construction, employing unique interlaminated metal/wood materials, was developed especially for this product, along with the careful selection of advanced drive unit materials.

Each DSP8000 loudspeaker uses six multiple high-efficiency long-throw custom bass drive units. The bass units are mounted symmetrically in pairs on the sides of the bass cabinet, cancelling vibration in order to minimise interference with the mid-range and treble units, which are mounted in a separate, sealed head assembly. The treble unit is a semi-horn-loaded composite dome design with a silver voice coil. The mid-range unit incorporates a cone made from a uniquely light and stiff combination of polymers to give unparalleled transparency.

The speakers are driven by five independent high-power, low-feedback power amplifiers, mounted on a specially extruded multi-finned heatsink.



Installation loudspeakers

Offering hidden benefits

DSP420/M420 in-wall



200 Series in-ceiling



G4I Speaker Control Unit



G46 DSP Speaker Control Unit



Meridian's installation loudspeakers have rapidly become some of the company's most popular loudspeaker products, with their ability to deliver Meridian's signature DSP technology and performance in a virtually invisible, installed design.

To the original DSP420, which shares performance characteristics with our stand-alone designs, we have added the M420, an active analogue version with the same drivers and power amplifiers. The back-box includes the analogue or digital input board and power termination in their own sealed enclosures, and the units can be mounted flush (completely hidden) or in-wall (with surface grille).

Our new 200 Series in-ceiling designs and the 300 Series of in-wall and on-wall systems allow exceptional flexibility of configuration. They can be supplied as passive speakers to be driven by external conventional amplification; as an active analogue system driven by a G4I Speaker Control Unit, including 8 x 100W power amplifier and modular plug-in electronic crossover, which can handle up to five channels of audio; or as a DSP system, driven by a G46 DSP Speaker Control Unit with DSP crossover and 8 x 100W power amplifiers.

The G4I and G46 Speaker Control Units have the same form factor and appearance as the other G Series units, and can be mounted with the G Series Active Rack kit.

The 200 Series of in-ceiling speakers are 2-way designs with an 8in (200mm) bass driver, pivoting tweeter and optional crossover, for either surface grille or flush mounting.

The 300 Series consists of three ultra-slimline systems for in-wall (surface grille), flush-mount (completely hidden, eg behind wall coverings) and on-wall applications, featuring 6.5in (165mm) bass drivers, and a wide-dispersion ribbon tweeter for superb performance anywhere. Units are supplied with or without passive crossover.

A white paintable grille and frame is included, and rough-in boxes are available. The 320 includes a single bass driver and tweeter; the 330 (opposite) adds an 8in (200mm) Auxiliary Bass Radiator (ABR); and the 350 features two bass drivers and two ABRs.

In every case, Meridian installation loudspeakers deliver the performance of a stand-alone design in a discreet enclosure with minimal visual impact – and awesome power.

◀ P330W in-wall system elements





The video connection

“This is the best DVD picture.... It looks like 35mm film.”

Annon Milchan, Producer, LA Confidential, Mr & Mrs Smith...

**Breathtaking sound...
Bright, clear images...
One source: Meridian.**



Meridian offers you a complete home theatre system, with both breathtaking audio and bright, clear high-resolution video. (Meridian G Series installation photo courtesy of AMX UK.)

Meridian is the exclusive manufacturer and distributor of the prestigious Faroudja brand, a name known the world over for superb video processing and precisely optimised high definition projectors. Today, Faroudja products are made in Meridian's UK factory. As a result, we can offer a complete system – not only breathtaking surround sound, but vibrant, crystal-clear images too. We call it the Meridian Digital Theatre.

Faroudja deinterlacing and scaling technology is already incorporated into Meridian DVD players. Now our Faroudja high definition video products, co-developed with Genesis Microchip Inc, put Meridian light-years ahead of the competition.

In a typical setup, a Faroudja video processor handles all the video sources in your system, analogue and digital. It de-interlaces, scales, and cross- and up-converts the images to full-bandwidth High Definition 1080p resolution.

From the processor, the resulting full-bandwidth HD signals can be fed digitally via DVI/HDMI to one of Faroudja's outstanding video projectors or an alternative digital display device.

Meridian also offers the HDMAX range of HDMI/DVI enhancement products, which use proprietary technology to improve high-resolution image quality, lowering noise and reducing artifacts while allowing immensely increased cable runs.

Faroudja's 60 patents and 35 years of Emmy®-Award-winning video processing development give visibly superior, film-like results, from High Definition sources or – with astonishingly similar quality – from your existing DVD collection. And Faroudja video products are the perfect complement to Meridian's world-class audio performance. Both draw you deeper into the experience, together enveloping you in the closest approach to reality you can imagine.

This is the **Meridian Digital Theatre**: the ultimate in home entertainment technology – a unique way to increase your enjoyment of music and movies.

No other company can offer this awesome combination of digital sound and digital images – from one source. The Meridian experience is the experience of a lifetime that you can enjoy in your own home: don't miss the opportunity.

Meridian people

Your guarantee of satisfaction



It may seem a cliché to say that what makes a company is its people, but nowhere is that more true than at Meridian.

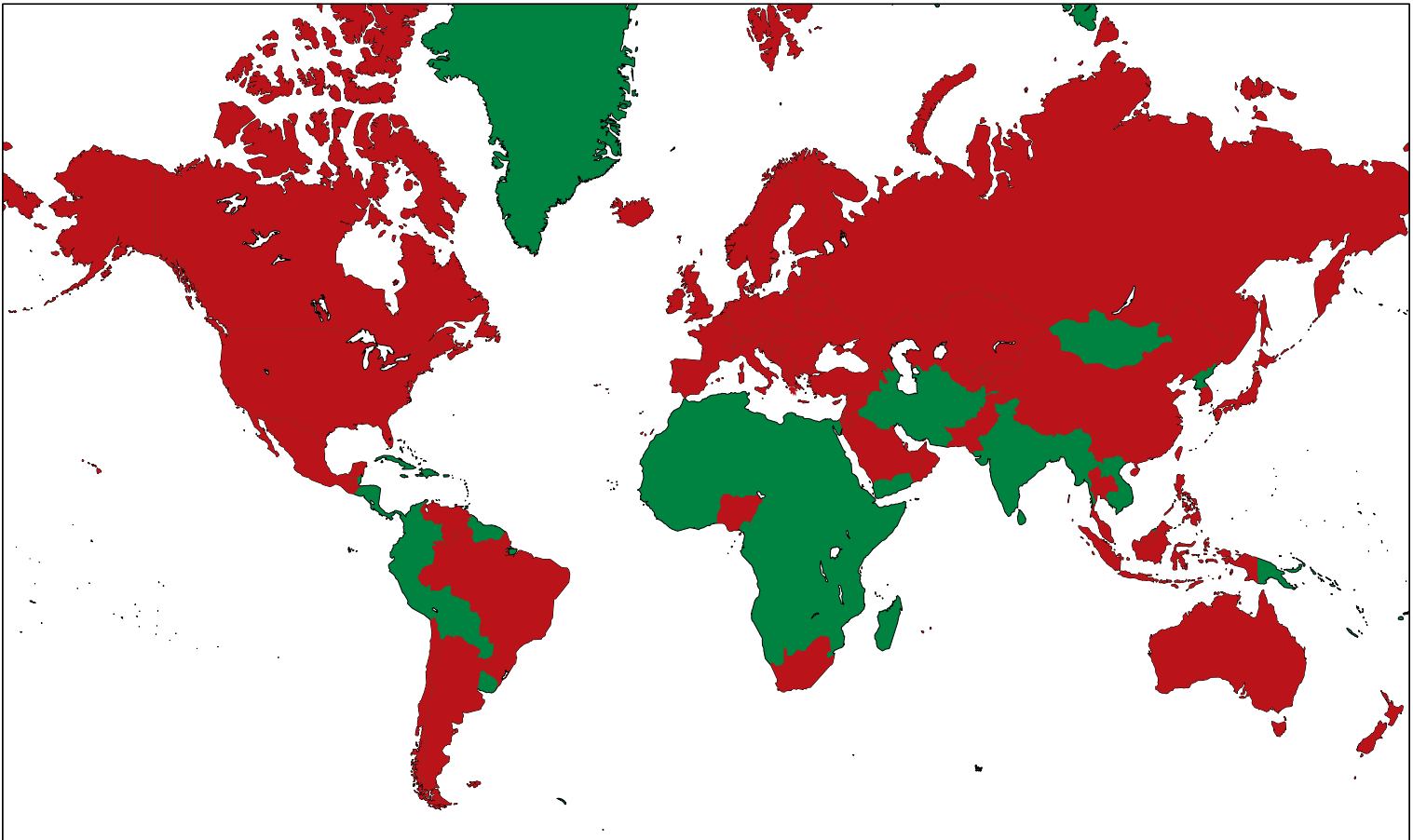
Not only do we take the utmost care in manufacture; once you are a Meridian owner, we want to make sure that you continue to enjoy the very best performance from your system and components.

We are continually striving to improve the performance of our products, and from time to time, as a registered Meridian owner, you will receive news of updates and enhancements, sometimes in the form of software you can download from our web site, and on other occasions in the form of new hardware options or revisions that you can either add yourself, your dealer can install, or we can handle for you at the factory.

Meridian has won awards for outstanding customer support, both in the UK and the US. Our support staff are experts at meeting the challenges of a complex installation, finding new solutions that give you exactly the system and features you desire.

Meridian worldwide

International distribution



*Meridian's head office is in Huntingdon, in the United Kingdom. We also have a subsidiary in the USA, Meridian America Inc, and a network of distributors that extends to many parts of the world, as broadly indicated here in red. For guaranteed after-sales service of the highest quality, we strongly recommend that you purchase from the nearest authorised Meridian dealer in your country, as the dealer you purchase from is responsible for supporting your equipment. For a complete, up-to-date list of international distributors, and a dealer locator to help you find your nearest authorised Meridian supplier, please visit the Meridian web site at **www.meridian-audio.com** or contact Meridian in the UK.*

Meridian Products – Outline Specifications

See data sheets and specifiers' drawings for more detailed information

This section is for broad guidance only, and is not a substitute for the product data sheets and Specifiers' Drawings, which should be referred to wherever possible. These are available from Meridian; the Meridian web site; the optional CD-ROM available with the brochure/catalogue; or from your dealer or distributor.

Meridian G Series

General: USB and/or RS232 port provided where remote configuration/control is possible. Meridian Comms and triggers provided where relevant. See data sheets.

Construction: Meridian black or silver finish in metal & glass. Units may be rack-mounted with the G Series Active Rack kit.

Dimensions: Width: 440mm (17.32in); Depth: 350mm (13.78in) excl. connectors (and knob if present); Height: 90mm (3.54in)(1) or 132mm (5.2in)(2): units are height (1) unless otherwise stated.

G01 Stereo control unit: MM and MC cartridge options; AM/FM or DAB/FM tuner; 7 unbalanced inputs on phono; 2 main outputs, 2 tape outputs. Weight 8.5 kg (18.7 lbs)

G02 Dual mono control unit: MM & MC cartridge options; AM/FM tuner; 4 unbalanced, 3 balanced bi-phase inputs; Main Outputs: 1 unbalanced, 1 balanced bi-phase; Copy output: 2 unbalanced, can be configured as 1 balanced output. Weight 8.5 kg (18.7 lbs).

G06 24-bit Compact Disc Player: Triple-beam laser, multi-speed CD/DVD-ROM transport; 192kHz-capable, 24-bit, Delta Sigma DACs operating at 44.1kHz; Analogue out: unbalanced; Digital out: S/PDIF (IEC60958), coax and Toslink optical. Weight: 8 kg (17.6 lbs).

G08 24-bit Upsampling CD Player: as G06 except 192kHz-capable, 24-bit, Delta Sigma converters operating at 4 x CD sample rate (176.4kHz); Analogue outs: unbalanced on phono, balanced on XLR-3M; Digital outs: S/PDIF (IEC60958), coax and Toslink optical, operating at up to 2 x CD sample rate (88.2kHz), 24-bit.

G12 Remote Infrared Sensor: Matte black tubular sensor for flush-mounting into a vertical surface or may be surface-mounted. Cable plugs directly into the sensor input on a G-Series component. 51.6mm long, fits into a 0.63 (41/64th) inch (16 mm) hole.

G51 Integrated Stereo Receiver: AM/FM or FM/DAB tuner. Inputs: 7 unbalanced on phono. Main Output: 2 x 100W per channel into 8Ω. Pre Output: 2 unbalanced on phono. Tape Output: 2 unbalanced on phono. Headphone: 2V rms max out. Weight: 13.5 kg (29.7 lbs)

G55 Multichannel Power Amplifier: Power Output: 5 channels at 100W into 8Ω, or 2 channels at >300W into 8Ω (bridge mode). Distortion: Less than 0.01% input to output. Signal/Noise: Better than -100dB Inputs: Balanced on XLR-3F connectors and unbalanced on phono. Outputs: 2 output sets per channel, terminal posts. Weight: 20 kg (44 lbs).

G56 2-channel Power Amplifier: Power Output: 2 channels at 100W into 8Ω, or 1 channel at >300W into 8Ω (bridge mode). Distortion: Less than 0.01% input to output. Signal/Noise: Better than -100dB. Inputs: Balanced on XLR-3F connectors and unbalanced on phono. Outputs: 2 output sets per channel, terminal posts. Weight: 13.5 kg (29.7 lbs).

G57 2-channel Power Amplifier: Power Output: 2 channels at 200W into 8Ω, or 1 channel at >650W into 8Ω (bridge mode), ~1000W into 4Ω. Distortion: Less than 0.01% input to output. Signal/Noise: Better than -100dB. Inputs: Balanced on XLR-3F connectors and unbalanced on phono. Outputs: 2 output sets per channel, terminal posts. Weight: 20 kg (44 lbs).

G61 Surround Controller: Inputs: Digital (S/PDIF) Inputs: 5 x Toslink optical in, 6 coax stereo in, 2 x 6-ch MHR coax in. Analogue Input: 5 x stereo, 1 x 6-ch analogue in, unbalanced. Outputs: Digital outputs (S/PDIF coax): Main L/R, Centre/Sub,

sides, rears; A/B (configurable). Analogue outputs (phono): Main L, Main R, Rear L, Rear R, Centre, Sub; L.Z, R.Z (configurable). Processing: 3 x Motorola 56367s and a 56371 running at 150MHz to give a total of over 500MIPS (million instructions per second). 48-bit arithmetic throughout. Conversion: 24-bit Sigma-Delta converters operating at up to 96 kHz on analogue inputs and outputs. Formats include AAC, Dolby Digital, DTS, MPEG Surround. DSP Modes include Direct, Music, Trifield, Ambisonics (2-ch UHJ & B-Format), Super Stereo, Music Logic, THX, Mono, Discrete, TV Logic, ProLogic IIx Music, ProLogic IIx Movie, ProLogic IIx THX, Cinema and up to 10 user-defined. Weight: 9kg (19.8lbs).

G68 Surround Controller with Room Correction: Most* units include: Digital (S/PDIF) Input: 4 x optical in, 6 coax stereo in, 2 x 6-ch MHR coax in. Analogue Input: 5 x stereo, 1 x 6-ch analogue in, unbalanced. AM/FM tuner. Zone2/Tape/Zone3 Audio: 2 x analogue audio out, 2 x digital out. Primary Options: G68D adds: Digital (S/PDIF) Output: 10-channel digital surround out with MHR (5 x phono); 2 x analogue out (phono). G68ADV adds: Analogue/Digital Output: 10-channel digital out w/MHR (5 x phono); 8 channels of analogue out. Primary Video: 2 x S-Video out, 4 x S-Video in, 2 x composite out, 4 x composite in. Component Video I/O: 1 x component video out, 3 x component video in (phono); Trigger 2, 3; 1 x additional optical digital in. A/V multi-zone (replaces Audio zone output): 2 x S-Video out, 2 x composite video out, 2 x analogue audio out, 2 x digital out. BNC Meridian Comms. G68AXV adds: Bal/Unbal Analogue Out instead of digital outputs: L, R, C, Sub balanced outs (XLR-3F); 6 x surround outs, unbalanced. G68XXV adds: Balanced Analogue Out instead of the listed outputs: 8 x balanced outputs, XLR-3F. *G68] is as the G68ADV but without the tuner, multi-zone capability and video switching. Processing: 5 x Motorola 56367s running at 150MHz to give a total of approx. 750MIPS (million instructions per second). 48-bit arithmetic throughout. Conversion: 24-bit Sigma-Delta converter chips operating at up to 96 kHz on analogue inputs and outputs. Formats include Dolby Digital, DTS, MPEG Surround, THX Ultra 2, THX Surround EX and more. DSP Modes include Direct, Music, Trifield, Ambisonics (2-ch UHJ & B-Format); 4, 5, 6, & 7 speaker decode), Super Stereo, Music Logic, THX, Mono, Discrete, TV Logic, Digital, Digital THX, DTS, DTS THX, DTS Music, MPEG, MPEG THX, MPEG Music, ProLogic IIx Music, ProLogic IIx Movie, ProLogic IIx THX, Cinema. Meridian Room Correction, and more. Weight: 10kg (22lbs). Height 132mm (5.2in).

G91A DVD Audio/Video Player Controller Tuner: Formats: DVD-Audio, DVD-Video, DVD-R; Video CD (VCD), CVCD, MP3; CD Audio (CD-DA), CD-R and hybrids such as SACD (CD layer only) and DualDisc (DVD layer only). Audio inputs: Analogue: three stereo inputs, unbalanced on phono. Digital S/PDIF: two stereo coax inputs and two stereo Toslink optical inputs. Tuner: AM/FM or DAB/FM. Audio outputs: Analogue: 6-ch surround output, variable up to 3V rms. Digital: MHR Smart Link digital output (15 Pin 'D' type connector) and 3 x coax, 1 x aux digital transport out (digital coax). HDMI v1.1 6-ch/bitstream output (with video). Video Processor: Two composite video inputs, one component input, three S-Video inputs; composite, S-Video, component and HDMI outputs (DVI-compatible, HDMI also carries 2-ch audio), outputs all simultaneously active; selected video input is converted to all formats at valid resolutions (except non-interlaced component input which bypasses processor). Faroudja DCDI® scaling and de-interlacing technology. HDMI port supports 480p, 576p, 720p, 1080i and 1080p. Analogue component out at 480p and 576p. Weight: 9kg (19.8lbs).

G98 DVD Audio/Video Transport: Formats: as G91A. Audio outputs: HDMI v1.1 6-channel 24-bit/96kHz and bitstream audio (and video), plus: G98DH: 3 x digital coax main outputs with MHR Smart Link, plus 15-pin 'D' type connector. 1 x digital coax auxiliary output. G98AH: 6-channel analogue output on phonos, plus digital aux out (Toslink optical and coax). Video Processor: as G91A. Weight: 9kg (19.8lbs).

Meridian 800 Reference Series

General: RS232 port provided for remote configuration/control. Meridian Comms and triggers. See data sheets.

Construction: Black lacquer or satin silver finish in metal & glass. Available as table-top or rack-mount versions – specify when ordering. 800 Series Active Racking Kit supplied with rack-mount version.

Dimensions: 480mm (18.9in) x 175mm (6.9in) x 411mm (16.2in) (whd).

Weight: 18kg (38lbs) approx depending on card complement.

800 Version 4 Reference Optical Disc Player: *Note: Exact capabilities dependent on installed cards. See data sheet for details and specify when ordering.* Formats: DVD-Video, DVD-Audio, CD Audio (Red Book), CD Video (White Book), MP3. ATAPI 2 DVD ROM drive. Audio outputs: Independent copy and 2room+ capabilities. 6-channel main and 2-channel auxiliary 24-bit, 96 kHz S/PDIF digital outputs with MHR. Option for simultaneous digital outputs at different sample rates from DVD and CD. Option for simultaneous output of Dolby Digital compressed stream for a decoder (like 861) and a decoded version for a second zone. Optional 2 + 4 channel analogue outputs on both phono and XLR (balanced) with 24-bit, 192 kHz converters (800DAX version). Audio DSP: 800 uses Meridian's proprietary DSP software to provide on-board decoding for DTS, Dolby Digital and MPEG Audio, error correction, resolution enhancement, up and down-sampling and high-resolution digital gain control. Video in and out: Selectable inputs for 2 composite and 2 S-video in NTSC or PAL format signals, plus component in. Outputs scaled and available simultaneously as composite, S-video, component, HDMI or RGB. Video DSP: Software-based video decoding for MPEG1 and MPEG2 video. Digital video backplane allows options for future video processing enhancements.

808 Reference Compact Disc Player: Mechanism: Triple-beam laser, multi-speed CD/DVD-ROM transport. Faroudja DCDI® scaling and de-interlacing technology. Converters: 192kHz-capable, 24-bit, Delta Sigma converters operating at 4 x CD sample rate (176.4kHz). Stereo Outputs: Analogue: 1 unbalanced on phono, 1 balanced on XLR-3M: 2.3V rms fixed/variable, Class A, 47Ω impedance. Digital S/PDIF (IEC60958): main coax with MHR plus auxiliary coax, operating at up to 2 x CD sample rate (88.2kHz), 24-bit. Stereo Inputs: (808i only) Analogue: 6 unbalanced on phono. Digital S/PDIF: 3 coax and 2 Toslink optical. Formats: CD Audio (CD-DA), CD-R, CD-R/W, MP3, DVD-Audio (stereo content).

861 Version 4 Reference Surround Processor: *Note: Even fundamental specifications including input and output capability are dependent on installed cards. See data sheet for details and specify when ordering.* Full-system controller/preamp, up to 12 analogue or digital audio, and up to 12 video sources. Tape cards provide additional internal A/D and D/A converters to give full support for both tape recorders and an extensive 2- and 3-zone multiroom capability in analogue or digital formats. Accepts multichannel digital audio, the 861 will handle S/PDIF-encoded Dolby Digital, DTS or MPEG. Processing engine can consist of between 2 and 10 modular processor cards, each offering an 300 MIPS of processing power with multiple ultra-fast 48-bit processors and high-speed cache memory. Speaker layouts from 2- to 9-speaker stereo/surround with multiple subwoofers (with adjustable crossover parameters), including with-height configurations such as 2+2+2, and Ambisonic layouts such as square/rectangle, pentagon, hexagon and heptagon. On-board algorithms include Meridian's own highly transparent Dolby Pro Logic IIx and Dolby Digital implementations, MPEG Surround, DTS, THX extensions, TV Logic and music programs including Trifield and Ambisonics – in the latter case handling both 2-channel UHJ and planar B-Format sources. Meridian Room Correction: Employs a special computer program that uses the 861 to measure a room's resonances with a simple microphone. It then computes digital filters to control the resonances, or "modes", and uploads them to the 861, where different sets of filters can

Meridian Products – Outline Specifications

See data sheets and specifiers' drawings for more detailed information

be associated with different loudspeaker layouts and profiles. Outputs: The 861's outputs can be provided as digital signals to feed Meridian DSP Loudspeakers, or as variable analogue outputs using a proprietary on-board 24-bit resolution D/A conversion method – or as a mixture of both. Video control: broadcast-grade video switching options for monitors, projectors and video tape routing. The comprehensive setup and customisation facilities allow the user to link any video and audio combination to the 12 sources (accessed from Source switching on the front panel or the remote control). Video formats supported via optional cards include Composite, S-Video, Component (interlaced and de-interlaced/progressive), HDMI and RGB.

Meridian Loudspeakers

DSP8000: System Design: Four-way active loudspeaker. Crossovers at 80Hz, 200Hz and 2.6kHz. Four 24-bit D/A converters. Five 100W power amplifiers per speaker. All processing is performed upsampled in twin 100MHz digital signal processors (DSPs). DSP8000 uses Meridian's memory-based dejittering system for ultimate clarity. Controls: System and speaker are operated with the included Meridian System Remote. Control features include source, bass and treble tilt, listening axis, volume, timecompensated balance and absolute phase. Inputs: Two coaxial digital audio, 32kHz to 192kHz at up to 24 bit. MHR support. Response: 20Hz to 20kHz. Max. output 118dB spl. Display: Eight-character display behind front glass, can be blank. Dimensions: 1350mm (53.2in) H, 400 (15.7) W, 528 (20.8) D. Finish: Black gloss piano lacquer or satin silver. Other colours special order.

DSP7000: System Design Performance: Frequency response in-room within 3dB from 30Hz to over 20kHz. Maximum output >112dB spl @ 1m on music material. Noise less than 15dB spl. Overall distortion typically <0.02% at any frequency or level. Inputs: Two digital inputs to SPDIF standard; 32kHz–96kHz sampling rates at up to 24 bit; MHR support. Construction: Four-way acoustic reflex system. Digital crossovers at 200Hz and 2.6kHz. 2 x 200mm long-throw bass drivers. 1 x 160mm polypropylene mid driver. 1 x 25mm aluminium-dome tweeter, silver wire, short horn-loaded with protective grille. Black gloss piano-lacquer cabinet, other colours to special order. FIFO memory buffer input for the lowest possible jitter from almost any source. Analogue gain and filtering using proprietary Meridian Class-A discrete amplification. Digital and conversion electronics constructed using advanced surface-mount techniques and partitioned 6-layer printed-circuit boards. Four 24-bit 128 x oversampling D/A converters. Four 100W power amplifiers per speaker. Controls: Rear-panel controls for Power On/Off. MSR and RS232 port provide control over bass, treble tilt, listening axis, volume, timecompensated balance and absolute phase. Dimensions: 1050mm (41.3") H, 348 (13.7") W, 458 (18.0") D. Weight 70kg (154 lb) each.

DSP5500: System Design: Three-way active loudspeaker. DSP crossover at 200Hz and 2.6kHz. Four channels of delta-sigma D/A conversion. Four 75W power amplifiers per channel. All signal processing is performed in the 100MHz digital signal processors. Controls: System and speaker are operated with the included Meridian System Remote. The listener has control over the source and features including bass, tilt, listening axis, volume, balance and absolute phase. Inputs: Two coax digital audio, 32kHz to 96kHz, up to 24 bit. MHR support. Response: 35Hz to 20kHz. Max. output 112dB spl. Display: Four-character display. Drive units: Two 200mm high-efficiency bass drivers, one 160mm polypropylene mid driver and one Meridian 25mm short-horn tweeter with aluminium dome and silver voice coil. Cabinet: Veneered MDF braced, steel shielded and damped, in black ash or rosewood finish. Cables included. 5500 Dimensions: 1100mm (43.3in) H, 285 (11.2) W, 415 (16.3) D. 5500HC Dimensions: 1100mm (43.3in) W, 285 (11.2) H, 415 (16.3) D.

DSP5200: Performance: Frequency response in-room within 3dB from 35Hz to over 20kHz. Linear-phase mid/top crossover. Output >108dB spl @ 1m on music material. Noise less than 15dB spl. Overall distortion typically <0.02% at any frequency or level.

Inputs: Two S/PDIF digital inputs, 32kHz–96kHz sampling rates at up to 24 bit with MHR support. Construction: '2 1/2-way' acoustic reflex system. Single-port (vertical model) or dual-port (horizontal centre). Drivers: 2 x 160mm polypropylene bass drivers. 1 x 25mm aluminium-dome tweeter, silver wire, short horn-loaded. Electronics: Two precision 24/192 oversampling converters for bass/mid and tweeter signals. Active bass/mid crossover. Digital and conversion electronics constructed using advanced surface-mount techniques and partitioned 6-layer printed-circuit boards. DSP: 150MIPS digital signal processor. Digital crossover at 2.6kHz. Response correction for the whole system. Bass protection. User tone controls. Analogue/digital volume and phase control. Amplifiers: Three 75W power amplifiers, one for each driver. Display: Eight-character display with system lights, can be blanked. Dimensions: Vertical model: height: 903mm (without spikes/feet); width: 300mm at base, tapering to 179mm; depth: 356mm at base, tapering to 217mm. Horizontal centre model: height: 200mm; width: 734mm; depth: 265.75mm at deepest point. Weight: 35kg packed.

DSP420: System design: Inputs: 1 x digital input 75 Ohm, IEC958, 44.1kHz – 96kHz FIFO locks at 44.1, 48, 88.2, & 96kHz +150 PPM, PCM & MHR Cabinet: Aluminium front baffle with sealed, mechanically damped and insulated acoustic enclosure. Baffle finished in textured black enamel. White moulded frame and Grille custom paintable Acoustics: 2 Way Infinite Baffle enclosure 2 x 127mm high-efficiency long-throw custom drivers, 1 x Meridian 25mm tweeter with aluminium dome Response: 55Hz - 20kHz +3dB Amplification: Internal 85W woofer, 65W tweeter. 6-200VA. DSP: 100MHz Motorola 56364, Linear Phase Crossover, 96kHz/24Bit DAC. Dimensions: Frame 457mm (18") square x 89 (3.5") Hole cutout 420 square (16.54" x 16.54") Product designed to fit standard 16" stud centres Mounting: Positioning template for New Construction, Easy install frame with fire proof power connection box.

M420: Analogue Active version of DSP420 with balanced and unbalanced line-level inputs.

DSP3100/M3100: Performance: Frequency response in-room within 3dB from 45Hz to over 20kHz. Linear-phase mid/top crossover. Output >105dB spl @ 1m on music material. Noise less than 15dB spl. Overall electronic distortion typically <0.02% at any frequency or level. Inputs: DSP3100: Two S/PDIF digital inputs, 32kHz–96kHz sampling rates at up to 24 bit with MHR support. M3100: Line level unbalanced (phono) and balanced (XLR-3F) inputs, switch-selectable. Construction: Vertical unit: 2-way ported design with 160mm bass driver; Horizontal centre: 2½-way closed box design with twin 5¼ in (120mm) bass drivers, with doped carbon fibre cones and cast alloy baskets. 1in (25mm) Meridian piston treble drive unit with doped fabric dome. Electronics: Constructed using advanced surface-mount techniques and partitioned 4-layer printed-circuit boards. DSP3100 includes two precision 24/192 oversampling converters for bass/mid and tweeter signals; Motorola 56367 150MIPS digital signal processor; Digital crossover at 2.3kHz; Response correction for the whole system; Bass protection; User tone controls; Analogue/digital volume and phase control. M3100 features precision line-level active crossover. Amplifiers: Two 75W power amplifiers, one for each band. Display: Eight-character display with system lights, can be blanked. Dimensions: Vertical units: 7.65in/194mm x 15.2in/386mm x 10in/254mm; Horizontal centre unit: 18.5in/470mm x 6.9in/173.5mm x 10in/254mm. Optional floor stand: 12.2in/310mm x 20.2in/513.7mm from floor to top of platform x 12.65in/321.5mm. (All dimensions w x h x d; original units are metric.) Weight: Vertical unit: 30lb/13.5kg; Horizontal centre unit: 36lb/16.5kg. Black or silver finish.

SW1600 & SW5500 Powered Subwoofers: Digital inputs: 1 x S/PDIF coax input (+1 output), 32-96kHz. PCM using IEC958, or MHR connection support with auto-detection. Analogue inputs: 3 x phono inputs: mono, left, right. 3 x XLR balanced inputs: mono, left, right. Frequency response within 3dB, 20Hz–400Hz in-room (bypass). Noise and hum <72dBm. Variable gain control. Variable low pass filter 40Hz–150Hz. Internal filter defeat switch. Absolute

phase switch. Sealed enclosure. Black inert basket-braced bitumen-damped cabinet constructed from 22mm MDF. 6mm annealed plate glass top.

SW1600: Output stage: Power amplifier: 150W Class G high efficiency ultra low output impedance. 1 x 300mm (12in) high-efficiency long-throw custom driver. Acoustic output typically >107dB spl @ 1m. 417mm x 417.5mm x 411mm (16.4in x 16.5in x 16.25in) (W x H x D excluding feet). Weight 28kg (62lb).

SW5500: Output stage: Power amplifier: 300W Class G high efficiency ultra low output impedance. 2 x 300mm (12in) high-efficiency long-throw custom drivers. Acoustic output typically >110dB spl @ 1m. 775mm x 417.5mm x 411mm (30.5in x 16.5in x 16.25in) (W x H x D excluding feet). Weight: 50kg (110lb).

300 and 200 Series Installation Loudspeakers: Due to the nature of these systems and the extensive range of options available, the specifications are too wide-ranging to be included here. Please see the data sheets and specifiers' drawings for full details.

Meridian Faroudja Products

DVPI080MF: Digital Video Processor with 10-bit signal path; 1080i deinterlacing with MADI (Motion Adaptive Deinterlacing) and 3:2/2:2 pulldown. High Bandwidth Mode: full resolution 1920x1080p (deinterlacing without scaling). Enhanced mode: 1080i converted to 1280x720 resolution then scaled to the selected output rate. Inputs: NTSC/PAL, Composite (BNC), S-Video (4-pin DIN), Component (BNC) 480i/480p/720p/1080i, RGB (BNC) 480i/480p/720p/1080i, Comp. Sync - 1v pp, RGB - 700mv pp. DVI Input: DVI - I (female) digital (0-255/16-235). Output (Progressive): DVI - I (female) digital only 0-255, HDCP Compliant. Dimensions: 1.75in H x 17in W x 12.5in D (Depth incl rear BNC). Weight: 14 lbs. Designed to accompany MFI and MF2 projectors.

DVPI080HD: As DVPI080MF but adds PC (D15F) Pass-through input and RGBHV (BNC & D15F), YPrPb (BNC & D15F) analogue outs.

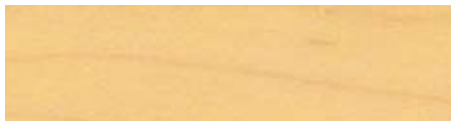
D-ILA1080MFI: Home Theatre Projector. D-ILA Device / 0.82in (1920 pixels x 1080 pixels) x 3 (Approx. 6,220,000px). Normal Throw version 1.9x power zoom/focus lens (2.0:1 to 3.8:1). Short Throw version 1.4x lens (1.5:1 to 2.1:1). 200 W Ultra-high pressure mercury lamp. Screen 60in to 200in (Aspect ratio: 16:9). Throw Approx. 2-15m. Input Signal: 1080/60p or 1080/50p. Resolution: 1920 pixels x 1080 pixels. HS: 56.25 kHz, 67.43 kHz, 67.5 kHz. VS: 50 Hz, 59.94 Hz, 60 Hz. Contrast Ratio: 2500:1 DVI input, HDCP-compatible. Control: RS-232C I/O. Dimensions 20.2in x 7.6in x 22in approx. (W x H x D) (513 mm x 193.7 mm x 558.5 mm approx) (Excl. lens & protrusion). Weight: Approx. 37.5 lbs (17.0 kg).

D-ILA1080MF2: Home Theatre Projector. 3-chip D-ILA (0.82-inch diagonal). Aspect Ratio: 16:9. Screen size/Throw: 40in to 200in (16:9)/1.6m to 10.5m (16:9). Resolution: 1920 x 1080 pixels (16:9) x 3 chips. Total resolution: Approx. 6,220,000 pixels. 1.3x zoom lens (1.8:1 - 2.35:1, manual zoom/manual focus, 50% offset). Wide conversion lens attachment option. 250 W Ultra-high pressure mercury lamp. Contrast Ratio: 2100:1. HDCP compatible DVI-D input. RS-232C serial control. Dimensions: (W x H x D) 11¼in x 5¼in 14-3/16in (298 x 134 x 360mm) without protrusions. Weight: 13.66 lbs (6.2kg).

Colours & finishes



High Gloss Lacquer Black



Satin Natural Maple



Satin Black Ash



Claret



Racing Green

Note that these printed samples are necessarily approximate. Paint colours other than black and silver lacquer are available to special order.

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High Gloss Lacquer Silver



Satin Stained Cherry



Satin Stained Santos Rosewood



Deep Blue



Modena Giallo



Rosso Corsa

BOOTHROYD STUART
MERIDIAN

© Meridian Audio Limited MMVI
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from an original design by Allen Boothroyd

For more details...

For product data sheets, architectural drawings and more detailed information on individual products, please contact your dealer. A CD-ROM containing this information is also available on request, and the latest details can be downloaded from the Meridian web site:

www.meridian-audio.com

Also available on the web site are a range of papers on our technology and the principles behind our products, such as DSP Loudspeakers, Meridian Room Correction, our approach to high-quality audio – and a great deal more, such as software and firmware updates. In addition, the information is continually updated as new products and data become available.

The small print

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