

MERIDIAN 200 SERIES — The intelligent high fidelity system.



BOOTHROYD STUART
MERIDIAN

History

British hi-fi equipment has always had a reputation for fine sound quality but staid execution. In the last decade, this has been enhanced through a long-overdue revolution which has lifted the products out of the hobbyist sector and into the realm of 'desirable acquisitions'. Instrumental in this change has been Boothroyd Stuart Ltd, the first British manufacturer to combine excellence in audio performance with peerless aesthetics and user appeal.



Since 1977, Allen Boothroyd and Bob Stuart have conceived the Meridian line of audio components, blending Stuart's visionary approach to the use of electronics in the home with Boothroyd's unerring eye for style. This first manifested itself in the original 100 Series launched in 1977, a range which found immediate success because it represented a radically new approach to sound in the home. Instead of the traditionally complicated, outsized hardware which the audio community long accepted as the norm, the 100 Series demonstrated that excellent performance was obtainable from small, elegant units devoid of gimmicks.

The company soon followed the Meridian amplifiers with a range of equally elegant



loudspeakers, noteworthy because they simplified installation by housing the amplifiers within the enclosures. In addition to creating a tidier environment, this simple move provided genuine sonic gains.

By adhering to a policy which always addresses the environmental as well as the musical needs of the user, Boothroyd and Stuart have announced the next step. Long experienced in the field of digital technology, Boothroyd Stuart Ltd has conceived the 200 Series, offering the best of Meridian's established virtues with new-found flexibility and convenience.



'The future system'

During Meridian's first decade, hi-fi users witnessed the arrival and in some cases the departure of more formats than in any other 10-year period: Compact disc, Elcaset, Hi-Fi Video, Surround Sound, CD Video, Digital Audio Tape, satellite and cable broadcasting, even a turntable that reads LP's by laser. To cope with all of these music sources, a system must be designed with adequate facilities, total adaptability and clear, easy-to-use controls. With even more new sources waiting in the wings, there's no doubt that your investment in hi-fi must be protected by something better than a service warrantee. It must be 'future compatible'.

Meridian's 200 Series components presage the forthcoming developments by virtue of an in-built modular approach. Unlike manufacturers who produce 'locked' systems, Meridian provides building-block progress which allows the system to grow to suit the user's changing needs. Nowhere is this made more apparent than in the conception of the 206-Pro Compact Disc Player and 201 Remote Control Preamplifier. By endowing the 208 with an on-board control section of true audiophile quality, it can be used as a preamplifier, accepting signals from LP disc, FM tuner and tape record/replay. As the user's requirements change, a 201 preamplifier can be added, thus increasing the number of potential sources, all functions being controlled by handset from the listening position.

The latest member of the Meridian family, the D600 Digital loudspeaker, increases the possibilities even further and will enable the music lover to exploit digital sources to the fullest extent.

The Meridian 208 CD Player/Preamplifier

The most significant advance in audio began with the introduction of Compact Disc in 1983 and the start of the digital revolution.

Meridian were among the first to recognise the benefits of digital audio not the least of which was access in the home to signals of the calibre of the master tape and the real user benefits of a storage medium that avoided the inevitable deterioration of signals handled in the analogue domain.

Meridian also recognised that digital audio presented the ultimate challenge to the audio designer since it was very clear that all Compact Disc players were not sounding equal. Since this time Meridian have pressed forward a research programme to understand and develop advanced and superb sounding digital audio equipment and are clearly a company at the leading edge of this field.

The 208 CD Player/Preamplifier is the latest and most advanced model, benefiting from Meridian's huge investment in this technology.

The 208 contains an analogue preamplifier of the highest possible technology. This preamplifier gives a variable output that can be used to directly drive active speakers or power amplifiers such as M60 or 205. A headphone socket is provided plus 3 line level inputs with LP disc option and full on/off tape monitoring.

The construction techniques that are used to make the 208 the very best sounding CD player have consequently produced a state-of-the-art preamplifier in the same enclosures.



The 208 begins a third generation of CD players. It incorporates a totally new servo system using digital as well as analogue techniques that result in more accurate reading of discs. Meridian have combined this servo system with the latest generation of decoding electronics in such a way that the 208 offers nearly twice the error correcting ability of earlier CD players.

The most interesting development for the 208 is a coherent-differential **Bitstream Conversion** technique. This proprietary technique extends the very latest generation of single-bit PDM digital-to-analogue conversion to a higher level of performance by giving each channel two D/A converters each providing one bit at 256 X oversampling in a constant pulse density configuration.



BITSTREAM CONVERSION

This new development is enhanced by the use of passive filtering and the highest quality construction methods. The 208 employs aerospace structural techniques including surface mounted components and four layer printed circuits.

The 208 retains the famous connected two-box construction that isolates completely the electronics from the playing system.

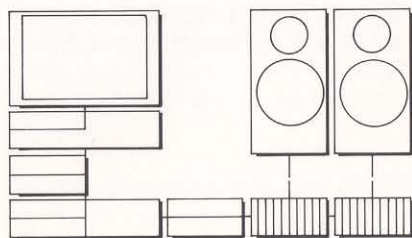
The 208 gives the highest sound quality that can be obtained from Compact Disc today and will stand for many years as a major milestone in the development of CD.

Planning Your Hi-Fi

Mysteries may be fine to read, but not to experience. For many years, choosing a hi-fi system has been an activity worthy of Simenon or Chandler, and it needn't be that way. Meridian's goal since the inception of the original 100 Series electronics and M Series speakers has been to create a path to hi-fi bliss which isn't strewn with obstacles.

Because Meridian dealers are appointed only after undergoing the closest scrutiny, the Meridian purchaser has already eliminated the difficulty of choosing a capable source of purchase. Meridian dealers have been selected for their skill in helping you, the customer, to find the system which best meets your tastes and requirements. The Meridian dealer will be able to guide you through the process of defining a system and will demonstrate the performance and the operation of the components under consideration.

To define your requirements, you need to be aware of such details as the number of rooms to be equipped with sound, the size of the rooms to aid in speaker selection and the types of sources you're likely to employ. A basic system can consist of as few or as many sources as the user wishes, the selection including Compact Disc, LP records, radio, tape and video or television played back through the hi-fi. These sources are connected to the preamplifier which provides the control (the





Meridian 208 CD player contains this stage). The preamplifier sends the signals to the amplifier, which drives the loudspeaker. Meridian loudspeakers contain their own dedicated amplifiers, thus eliminating another confusing choice. As all Meridian products are designed to work with each other, compatibility is never an issue.

Once selections have been made, the Meridian dealer will undertake the installation, leaving you to sit back and enjoy superb sound in the home. Beyond that, the dealer eliminates the worries of maintaining the system once it's installed in your home, for every Meridian dealer is qualified to service the equipment in the unlikely event of a fault occurring. Just as Meridian products are designed for future considerations, so are Meridian Retail Appointees concerned for the future contentment of their clients.

With the mystery removed, the pleasure remains.

Meridian Systems

The D600 Digital Loudspeaker, partnered with 206 Compact Disc Player forms a state-of-the-art CD replay system to which may be added further analogue sources, a Meridian 204 FM Tuner, an analogue audio cassette or open reel tape deck, (replay only) or the hi-fi audio output of a video cassette deck. Any two of these can be connected to the analogue inputs of the D600. Two further digital sources, including DAT, may also be connected. If a 'Record' facility is required it will be necessary to use the 201 Preamplifier or 208 CD/Preamplifier. Remote control of Meridian ancillary equipment such as 206, 204, 201 etc connected to the D600 is achieved via the 609 remote control which is supplied with the D600.

Authorised Dealer

BOOTHROYD STUART
MERIDIAN

Design for High Fidelity

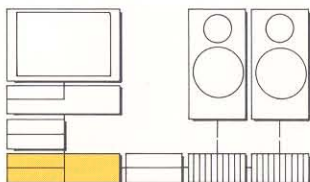
**BRITISH
DESIGN
AWARD
1988**

Compact Disc Players
Active Loudspeaker Systems
Amplifiers • Preamplifiers
Tuners • Multi Room Systems

Boothroyd Stuart Limited
Huntingdon • Cambridge
England 0480 52144

M60 Active Loudspeaker partnered with 208 similarly provides state-of-the-art CD replay with tuner, LP disc, and tape record/replay available, all remotely controllable by 209 handset. The addition of a 201 control preamplifier to either of the above systems will simply increase the number of inputs available to the system.

All communication and control of the above systems is by handset from the listening position with the full capability to interface with other existing and future Meridian 200 and 600 Series components or a Multiroom sound distribution system. With Meridian your investment in hi-fi is indeed protected by 'future compatibility'.



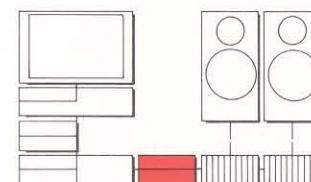
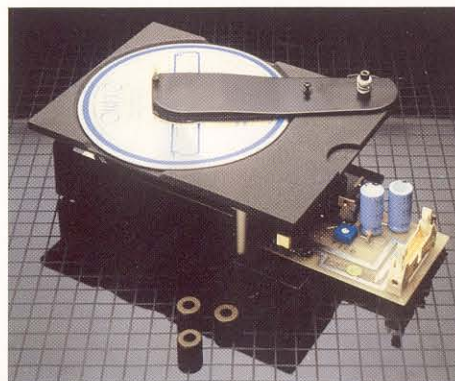
Meridian 206 Compact Disc Player

When Boothroyd Stuart launched the Meridian MCD and Pro-MCD, the audio community responded with overwhelming approval. A specialist manufacturer in the UK had rewritten the rules of a new technology, thus establishing a standard by which other players would be judged. In the intervening years, Compact Disc has developed at an alarming pace, but Meridian remained at the forefront with the 207-Pro. The inclusion of a full function preamplifier section with remote came as a most welcome and practical bonus.

Now, for those wishing to incorporate Meridian sound quality into an existing conventional system, without the need for the additional facilities provided on the 207 or 208, comes the Meridian 206. But the 206 is not just a 207 or 208 without preamplifier facilities.

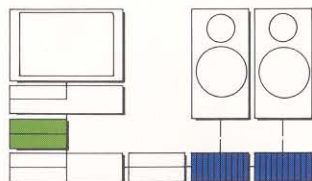
Control and transport sections, whilst still contained in two separate boxes, are now secured together. All control communications take place internally using a powerful single microprocessor, custom programmed by Meridian and affording better control and stability with faster track access.

A remote handset is supplied to control the extensive programming and status indication facilities of the 206. Both digital and optical outputs are provided.



Meridian 201 Remote Control Preamplifier

In many installations, the users' requirements may demand even more facilities than are offered by the preamplifier section of the 207-Pro Compact Disc Player. Meridian has responded to such needs with the 201 Remote Control Preamplifier. As its name suggests, the 201 offers control over the entire system, providing the user with the functions of source selection and volume setting. The 201 however, takes such basic commands a stage further by expanding the abilities of a preamplifier to include a number of convenience features overlooked in other designs. In addition to routing the signals from an LP record playing system, a CD player, a tuner, a video or television receiver and two tape recorders, the 201 has the capability of pre-setting the playback levels of each source to preclude the jarring sensation of unexpected changes in volume. With this facility, the user can switch between sources without having to reset the playback levels. Overall playback levels, too, can be adjusted to preset levels, the desired volume indicated by a digital read-out. For systems employing tape recording equipment, the 201 will allow for dubbing from one tape deck to another as well as allowing the user to record from any source while listening to another. To best exploit the partnering equipment in the 200 Series, the 201 can form the basis of a fully remote-controllable, multi-room installation when adapted with optional accessories from the Meridian catalogue. The 201 sets new standards in sonic performance and operational flexibility.



Meridian 204 FM Stereo Tuner-Timer

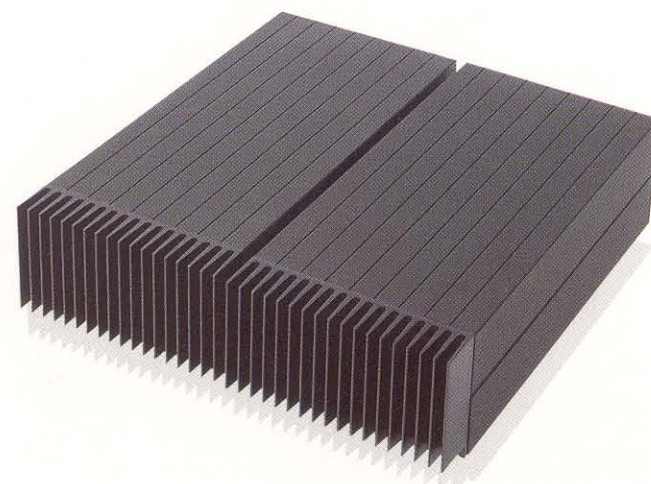
Radio remains one of the richest sources of home entertainment, providing music and speech in high quality stereo. When used to enjoy a live concert, it provides programme material unrivalled for sonic excellence. To add this rewarding form of listening pleasure to the 200 Series, Meridian has devised the 204 FM Stereo Tuner-Timer, which marries sonic excellence with operational convenience and versatility. The 204 provides instant access to as many as 18 stereo FM stations while offering electronic scan tuning and manual step tuning for locating interim stations. Information is provided to the user via a digital display showing tuning frequency, the preset number as allocated by the user, signal strength and time. An added bonus enjoyed with the 204 is the inclusion of a clock timer to further increase the flexibility of the 200 Series system. When used with either the 207-Pro Compact Disc Player or the 201 Preamplifier, all of its functions are operable via remote control.



Meridian 205 Mono Power Amplifier

If a preamplifier is the brain of a hi-fi system, then the power amplifier is its heart. The preamplifier provides the control; the power amplifier provides the energy. While Meridian loudspeakers contain dedicated amplifiers, Meridian has devised the separate 205 Mono Power Amplifier to link 200 Series components with conventional loudspeakers. Producing a full 100 watts, the 205 is configured in a single-channel chassis to increase layout flexibility and improve sound

quality. Housed in elegant black textured enamel enclosures, a pair of 205 Mono Power Amplifiers will operate with power in reserve for most domestic situations and with a wide array of speaker types. The operating principle of the 205 is Class A to ensure the lowest possible distortion, and the amplifier features music-sensing circuitry for automatic switch-on to full operational status. While the 205 can be used with any preamplifier, it remains the perfect partner for the 207-Pro Compact Disc Player or the 201 Preamplifier.



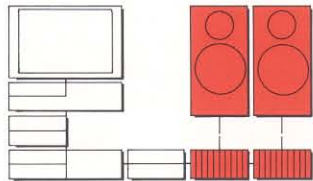
Recording Music

Meridian's 200 Series System has been conceived in such a way that the active home recordist can have full confidence in its sonic and operational capabilities. Both the 207-Pro Compact Disc Player and the 204 FM Stereo Tuner-Timer provide source material of the highest calibre, while the boundless flexibility of the 201 Remote Control Preamplifier will allow the recordist to route signals between tape decks at the press of a button. When matched with a high quality cassette or open reel tape deck, the 200 Series System will provide everything that the home recordist needs to exploit the merits of the many recordable formats. With the recent arrival of Hi-Fi Video, which adds audiophile-calibre sound to television enjoyment, and the advent of Digital Audio Tape we are closer than ever before to truly complete home entertainment systems. The 200 Series provides the options to preclude the restrictions.





Active Loudspeakers



Early in the company's history, Meridian formed a commitment to produce active loudspeakers. While other manufacturers are content to produce loudspeakers requiring selection and employment of separate outboard power amplifiers, Meridian opted for the use of built-in amplifiers in all of its speaker systems. After much research and careful deliberation, the design team accepted that active systems could not be rivalled by conventional systems for addressing a number of both sonic and practical considerations.

The term active refers to loudspeaker systems which utilise electronic crossovers and dedicated power amplifiers housed within the speaker enclosure and driving each loudspeaker unit directly instead of through long lengths of cable. Meridian's research demonstrated a number of undeniable benefits at every level of speaker selection and usage. On the most basic level, the use of dedicated amplifiers eliminated a number of worries from the user's viewpoint. At the very earliest stage of assembling a hi-fi system, the active speaker obviates the need to choose a suitable amplifier, thus precluding any concern about system compatibility. In a properly designed active speaker, there is no such thing as a mismatch.

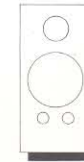
Because the amplifiers are housed within the speaker cabinet, the user need not make space for the generally bulky presence of a separate amplifier, in turn freeing precious shelf space for other uses. Because the preamplifier is connected

directly to the active speaker, an entire set of connections is removed, simplifying installation and dispensing with the possibility of signal degradation at the extra connection point.

These practical benefits present a sufficient case for active systems, but it doesn't stop there. Just as the user is freed from the potential traps to be found in amplifier selection, so were Meridian's designers freed from the concerns of having to design their speakers to mate with a seemingly infinite number of amplifier types. When a Meridian loudspeaker leaves the factory, the designers know that it cannot be compromised by amplifier incompatibility, because they have installed exactly the right amplifier for the task. By fitting Meridian speakers with dedicated electronics, the company assures you, the listener, that the speaker will always deliver optimum performance in terms of both signal output and signal quality.

Meridian M30

While all Meridian loudspeakers occupy little floor space, room dimensions will determine the correct choice of speaker system. For environments where space is restricted or where aesthetics demand an unobtrusive design, Meridian offers the M30, the smallest of the company's four models. Incorporating a 165mm mid/bass driver to handle the middle and lower frequencies and a ferro-fluid cooled soft dome tweeter for the uppermost portion of the sound spectrum, each M30 enclosure contains two separate power amplifiers, one per driver. Unique to the Meridian M Series speakers is the company's music-sensing circuit, which allows the user to leave the speakers powered up, ready for instant music even when not in use. Simply switching on the music activates the M30 and M20 eliminating the need to sustain the warm-up associated with separate amplifiers. To ensure that M Series speakers match your acoustic



environment, Meridian has installed easy-to-use controls on the rear surface to aid in fine-tuning the performance. Because Meridian has combined active technology with a small enclosure, space considerations need no longer hinder your quest for uncompromised sonic excellence.





Meridian M20

Larger rooms require larger systems, so Meridian devised the M20 to provide greater room-filling capability from an enclosure only slightly larger than that of the M30. By extending the vertical aspect of the enclosure, Meridian has been able to incorporate a second driver to augment the bass performance. Although the front panel has a greater surface area than the M30, the M20 shares its smaller sibling's commanding ability with image presentation because of its narrow aspect. As with all M Series speakers, the M20 is finished in the highest quality veneers, with simple, elegant styling to complement any decor. The M20, like the M30, can be used on either floor stands or bookshelves, depending upon the user's environmental considerations.

Meridian M60

Largest of the three M Series speaker systems, the M60 is an interactive loudspeaker system derived from the D600 Digital Active Loudspeaker shown on the next page. Lacking only the latter's control sensor, preamplifier facilities and digital circuitry, the M60 provides prodigious performance from a slim elegant proportioned floor standing enclosure.

Switchable equalisation controls are provided to compensate for room positioning effects and the system is equipped with balanced inputs. All internal wiring is made with silver-plated LC oxygen free copper. All this in an enclosure taking up less than one square foot of floor space and less than three feet tall.

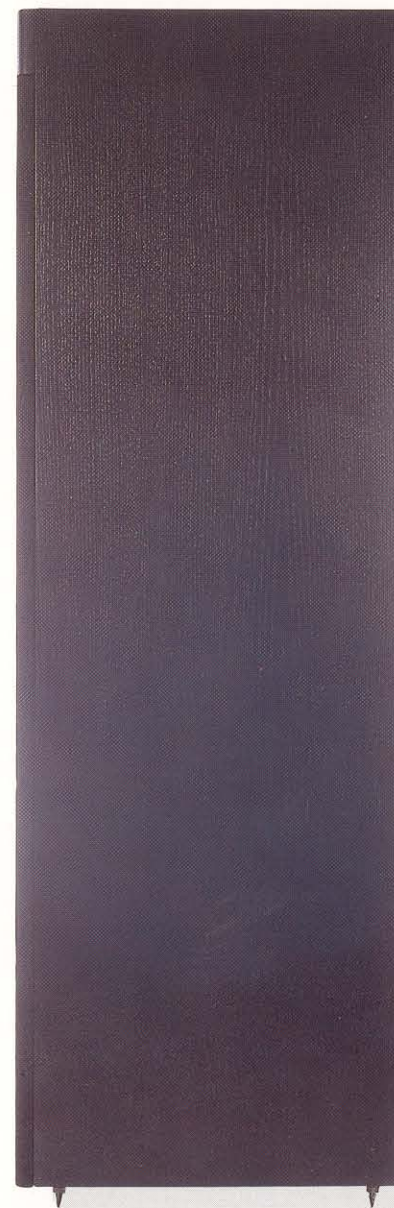
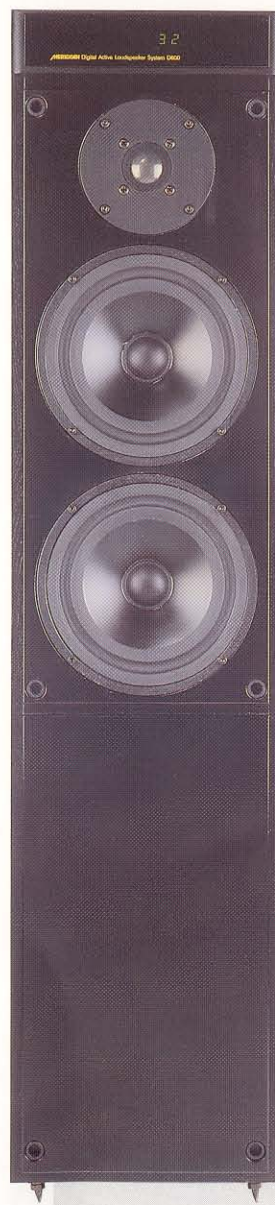
The M60, like any of the M Series speakers, may be directly partnered, with the 208 CD/Preamplifier, creating an elegant system capable of satisfying the requirements of the most demanding audiophile.

D600 Digital Active Loudspeaker

A decade of experience in the design of active speakers and digital audio components has equipped Meridian's designers with the ability to make a truly revolutionary step in the progress of loudspeaker conception. The quest for an all-digital reproduction chain has led to the D600 loudspeaker, a product which reaches previously unattainable levels of sound, performance and user convenience.

It has long been accepted in hi-fi circles that contenders for the state of the loudspeaker art had to be ungainly monoliths which few listeners would care to house. Meridian, unwilling to compromise a philosophy which requires that hi-fi designs be domestically acceptable, has managed to provide the most comprehensive employment of the latest digital technology in a speaker diminutive enough to be mistaken for a conventional system. The D600, however, is a case of joyous deception.

Within an enclosure no larger than a conventional passive system, Meridian has installed three separate power amplifiers dedicated to three drive units. By dividing the sonic spectrum between a pair of 160mm Polypropylene bass/midrange drivers and an aluminium diaphragm tweeter, Meridian has ensured that each part of the frequency range is reproduced without compromise. The Class AA amplifiers provide distortion-free power to enable the D600 to reproduce the deep bass, the natural midband and the crystal clear treble necessary to reproduce music as faithfully as possible. But the D600 has another advantage over all other systems.



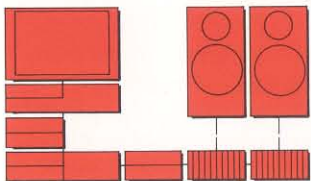


When using a digital source such as Compact Disc or Digital Audio Tape with conventional amplifiers and speakers, the music programme must be converted from its pure digital state at a point early enough to subject it to potential degradation. The D600 eliminates this entirely because it accepts a digital signal at the latest possible stage. The signal is converted after error correction within the D600 itself, so it is protected from the ravages of the circuitry of a conventional preamplifier and myriad lengths and types of signal cable. It is only through the D600 that the listener can experience the maximum performance obtainable from digital sources.

The sonic gains have been augmented by convenience features found in no other speaker, for we have been taught that loudspeakers simply sit there awaiting the signal. Meridian has proven otherwise. With the D600, the user has access to a display panel providing visual confirmation of the system's status. When the D600 is used with the full 200 Series reproduction chain, it is capable of accepting commands from the 209 System Handset. This allows the user to house the main components out of the line of vision or even in another room, while still enabling the listener to make adjustments from the comfort of the primary listening position. By making access to the music easier than ever before, the listener is free to enjoy the rewards of natural sound reproduction.

As with all Meridian designs the D600 will not intrude upon your home environment. Such is the completeness of the design in terms of sonic, aesthetic and ergonomic considerations that it can only enrich the pleasures of the dedicated music lover.

Extending Your System: The Meridian Multi-Room Concept

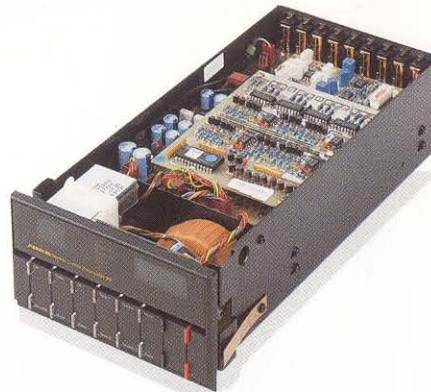


Meridian's 200 Series components, M-Series loudspeakers and D600 Digital Active Loudspeaker embody the best of British design and execution. Each model is the finest of its type and is able to perform with grace even when partnered with products from other sources; Meridian would not sacrifice wide-ranging compatibility in its quest for excellence. But because the company understands that absolute synergy can provide even greater possibilities, Meridian has endowed the range with a valuable 'extra'. When a system of Meridian components is assembled around the 207-Pro Compact Disc Player or 201 Remote Control Preamplifier, it is possible for the user to expand on its capabilities to create a comprehensive home entertainment network.

Digital technology has improved more than the sound of your hi-fi system. It has made possible the installation of secondary remote-controllable sound systems in rooms other than the main listening environment, with greater convenience and wider options than were available from conventional mechanical or electrical switching arrays. The comprehensive nature of the 201 Remote Control Preamplifier, and for simpler requirements the 207-Pro Compact Disc Player, frees the user from the need to purchase and house two or more separate systems if music is desired throughout the home. Meridian has created a range of dedicated accessories, including remotely-sited keypads and signal distribution units, which combine with the 200 Series components to route sound to other rooms without any loss of operational control.

So comprehensive is this network that two different sources can be enjoyed in different rooms, and the network even provides a 'lock-out' to prevent tampering from room to room. All you need to distribute sound throughout your home are the appropriate accessories and amplifiers and speakers for each zone. Your 200 Series components will feed the music to each area.

Music has never been more accessible than it is today, with both selection and availability enabling the music lover to exploit its richness with limitless freedom. Meridian now brings this level of freedom to the hi-fi system itself, providing you with a choice of where and how you listen to match the choice of material you choose to savour.



201 and 202 Remote Control Preamplifier

The Meridian 201 Remote Control Preamplifier serves not one but two roles in the 200 Series. Conceived to expand on the basic preamplifier stage provided with the 207-Pro Compact Disc Player, it acts as a primary control unit with ample provision for a number of sources, including moving-coil or moving magnet phono cartridges, tuner, video, CD player and two tape decks. Source selection is comprehensive, and the 201





can even be used to match the levels of the different sources while providing electronically controlled overall playback level setting. On its own, the 201 can act as a top-quality control centre in any serious hi-fi system.

When mated with components and multi-room accessories from the 200 Series, the capabilities of the 201 increase to encompass full remote control operation of multiple listening zones throughout the home. With the addition of the 210 Two-System Board Kit, the 201 becomes the control centre for what is in effect two separate systems, enabling the user to play back programme material from two different sources in different listening areas. It will accept commands from the 209 System Handset, access all functions on the two separate systems, allow for recording of one source while monitoring another, direct sound to any room in the house and provide timed operation when used with the 204 FM Tuner-Timer. The 201 Remote Control Preamplifier, by virtue of its unrivalled functionality, is simply the most sophisticated, ergonomically complete control centre available today.

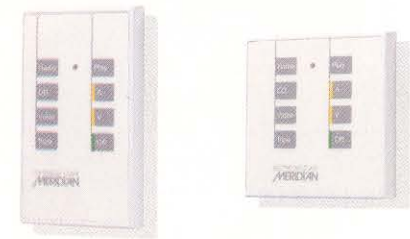


Meridian 212 Remote Sensor

The Meridian 212 Remote Sensor is an unobtrusive unit designed to accept the commands from the 209 System Handset. Because of its size and operating principle, the 212 can be positioned within range of the listening position wherever you deem it most convenient. The 212 is fitted without controls and is connected to either a Meridian Active Speaker, Meridian 201 Remote Control Preamplifier, or a cable junction box.

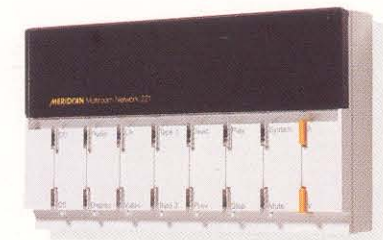
Meridian 213 Remote Display Sensor

Like the Meridian 212, the 213 Remote Display Sensor accepts commands from the 209 System Handset. The 213 also adds visual display of system status for situations where visual confirmation is desired.



Meridian 220 Wall Panel

Designed to fit on a standard light switch bezel, the 220 Wall Panel provides an inconspicuous method of switching between signal sources and controlling playback levels. The handy mute control will defeat the sound for momentary interruptions, such as answering the telephone.



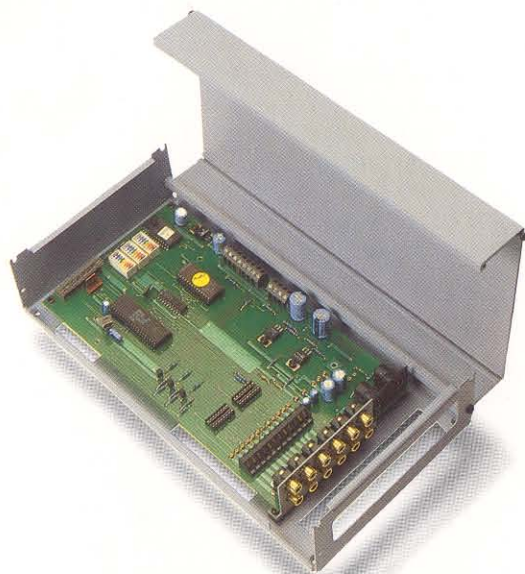
Meridian 221 Wall Display Panel

For more extensive command control than is provided by the 220, Meridian recommends the 221 Wall Display Panel. This wall-mounted keypad, styled to reflect the elegance of the 200 Series fascias, can be mounted where instant

touch control of the system is required, such as near the main light switch in a listening zone. The 221 is equipped with press buttons to duplicate the majority of control functions accessible from the front panels of the 200 Series components and is provided with a tell-tale display window to indicate operating status. The 221 Wall Display Panel can also serve as a sensor to accept the commands from the 209 System Handset.

210 Two-System Board Kit

The 210 Two-System Board Kit converts the 201 from single-system status to twin-system status, accessible via press buttons on the 201's fascia.



222 Control Box

The 222 Control Box extends the programme capabilities of the 201 to zones outside of the main listening area. Unlike a conventional extension system, which may only offer volume control, the



microprocessor-equipped 222 acts as a remote portion of the 201, providing the zone with access to 'System 2' operation status as well as remote volume control. Used in conjunction with the power amplifiers or Meridian Active Loudspeakers, it can be connected to either a wall panel or remote control sensor and handset to receive its commands.

223 Power Box

The 223 Power Box is used in each zone employing a 222 Control Box. This unit provides power to the network and will run up to 10 rooms.

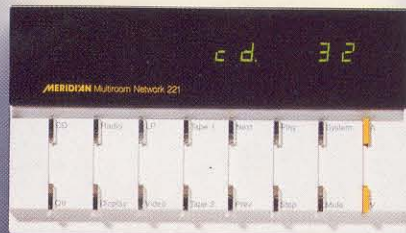
224 Star Box

The 224 Star Box is used to connect the cables which feed the various zones and has been designed to simplify installation while providing a tidy method of fixing.

225 Junction Box

The 225 Junction Box is a simplified version of the 222, for use in zones requiring fewer facilities.





226 Remote Amplifier

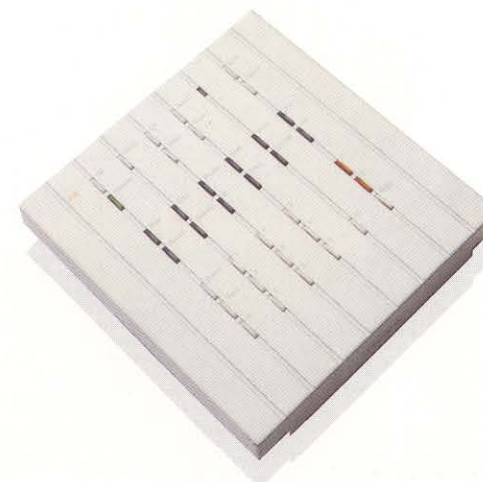
The 226 is a 30 watt amplifier used to provide power to non-active speaker systems in remote zones. Its operation is controlled by the 201 and therefore may be installed with the other hidden components within the zone.

209 and 609 System Handset

The Meridian 209 handset and 609 have been devised so as to provide comprehensive operation of the entire 200 series system from the comfort of the listening position. Styled to resemble the front panels of the 200 components, the 209 features clearly-marked, easy-to-understand press buttons which access every function available to the user from the in-situ components. Its commands delivered via standard RC5 infra-red signals to either the 201 remote control preamplifier, 207-Pro Compact Disc Player or 212 Remote Sensor. Included among its capabilities are direct selection of CD tracks and reselected FM stations, source selection of up to eight inputs, volume control and mute operation. To simplify its operation, the 209's command keys have been grouped in three separate sections, one each devoted to source selection commands, operational instructions and track or station selection. The 609 handset, supplied with the D600, is painted white. It is similar in format and control capability, but includes several functions specific to the operation of the D600. Housed in a die-cast metal chassis finished in black satin enamel, the 209 and 609 System Handsets are rugged enough to survive the handling expected of remote control units, and will deliver up to a year's use with a single set of batteries.

P16 In-Wall Loudspeaker

An easy to install, full range speaker system for flush in-wall mounting, incorporating one coincident source, 2-way drive unit.



Technical Specifications

Product	Description	Controls	Input	Remote	Sensitivity	Output	Distortion	Noise	Display	Connectors	Consumption
201 and 202	Control Unit Preamplifier	Inputs, Copy, Mute System 1+2 Mode, Standby	CD, Radio, LP Tape 1+2 Video	All	MM+MC as 215 150mV/10k all others	775mV @ 27R 2V max. 2V phones	0.02%	MM+MC as 215 -85dB others	System 1+2, Inputs Volume, Setup, Copy Tape-mute, Mute	3D7, 1D5 1HPJ 14P	20VA ac
204	FM Tuner Timer	Preset 1-6, 10-up 20-up, Mode, Mono Step, Scan, Set	87.5 - 108MHz FM 75 ohm Unbalanced	Presets via other 200 unit	1.5uV mono 23uV stereo 100uV ult.	775mV @ 47R 100% mod. @ 1kHz	0.2% mono 0.4% stereo	-68dB ultimate	Stereo, Timer Freq. Preset No. S.Strength, Time	1PAL 1D7, 1D5 2P	20VA ac
205	Mono Power Amplifier	None	Unbalanced	No	775mV @ 11k	100W in 8 ohm	0.04%	-90dB	Standby Music on	1P 2 x 4mm	10 - 200VA ac 5VA standby
206	Compact Disc Player	Open, Play, Stop, Pause Next, Prev, Store, Mute Inputs, Display, Volume	na	All	na	NB only 1 opt kal on 206	<0.004%	<90dB	Track, Index, Phase Time, Volume, Mute TOC, EQ, Err, Repeat	3P ID5 1 EIAJ opt	20VA ac
208	Compact Disc Player and Preamplifier	Open, Play, Stop, Pause Next, Prev, Store, Mute Inputs, Display, Volume	CD, LP (option) Tape, Line	All	MM+MC as 215 150mV/10k all others	2V pk fixed 775mV variable Dig. IEC 958	<0.004%	MM+MC as 215 -90dB fixed -85dB others	Track, Index, Phase, Time, Volume, Mute TOC, EQ, Err, Repeat	7P 1D7, 1D5 1HPJ	20VA ac
Modules											
210	2-System for 210	na	As 201	Yes	As 201	775mV, 2V max	0.02%	-90dB	na	Gold pins	<100mW dc
211	Volume for 222	na	From 222	Yes	775mV	775mV, 2V max	0.02%	-90dB	na	Gold pins	<100mW dc
214	Buffer for 223	na	Sys1+2, Com 1+2	na	775mV	OdBm bal/un	0.01%	-90dB	na	Gold pins	<100mW dc
215	Phono for 201 or 207	Moving Coil Moving Magnet	MM, MC	na	100uV MC 1.5mV MM	150mV 6V max.	0.01%	-60dB MC -68dB MM	na	Gold pins	<100mW dc
Remote controls											
209	System Handset	As 201 + 207, numbers	na	Yes	na	IR RC5	na	na	Transmit/battery	na	gV PP3 6 months
212	Remote sensor	na	IR only	Yes	RC5	200-comms	1:1	na	None	Fixed cable	20mW dc
213	Remote sensor	na	IR + 200-comms	Yes	RC5	for 222	1:1	na	4-digit repeat	Fixed cable	up to 1W dc
220	Wall switch	CD, Radio, Tape, Video Volume, Mute	na	No	na	200-comms	na	na	None	Screw	20mW dc
221	Smart wall panel	CD, Radio, LP, Tape 1+2 Video, Disp, Off, Volume Play, Stop, Next, Prev, Mute	IR	Yes	RC5	for 222 IR out	1:1	na	8-digit repeat System 1+2+L Off, Mute	Screw	20mW standby Up to 2W dc
Junctions											
222	Control Box	From 212, 213, 220 Setup, Reset	Sys 1+2+L, FM/TV Com 1+2+L, Dig.	Yes	775mV bal/un switched	775mV, 2V max	0.02%	-85dB	As 213 or 221 Screw	12P, 2D7, 2PAL	2W dc
223	Power Box	Power On/Off	As 222	Yes	775mV bal/un	775mV, 5V max	na	na	None	As 222	30VA ac max
224	Star Junction	na	na	na	na	na	na	na	na	Screw	na
225	Junction Box	None	As 222	Yes	As 222	1:1	na	na	None	As 222	200mW dc
226	Power amplifier	Power On/Off	balanced	No	775mV @ 11k ohms	2XW rms into 4 Ω	0.1%	-85dB	On	2P, Screw 2 x 4mm	10-120VA ac
Loudspeakers											
M30	Active system	Sense, Ground, bal/un 9xResponse, Bookshelf	bal/un	No	775mV @ 11k ohms	70W tweeter 70W bass/mid	0.03% 0.03%	-90dB -90dB	On/Sense	1P 2 Network	135VA ac max
M20	Active system	Sense, Ground, bal/un 9xResponse, Bookshelf	bal/un	No	775mV @ 11k ohms	70W tweeter 70W bass/mid	0.03% 0.03%	-90dB -90dB	On/Sense	1P 2 Network	135VA ac max
M60	Active system	Ground, Earthed 9xResponse, bal/un	bal/un	No	775mV @ 11k ohms	65W tweeter 65W mid 65W bass	0.02% 0.02% 0.02%	-90dB -90dB -85dB	On	2P	200VA ac max 20VA ac idle
D600	Digital Active system	Reset, Setup Remote adjust of L/R Response, Dig/An	Sys 1+2 bal/un Dig 1+2 Com 1+2+L	Full	775mV Sys 1+2 IEC 958, 32-48kHz 200-Comms	65W tweeter 65W bass/mid 65W bass	0.02% 0.02% 0.02%	-90dB -90dB -90dB	On, Lock 4-digit presettable	8P 2D7	200VA ac max 10VA standby
P16	Passive wall-mount speaker	na	na	na	88dB/283 rms at 1M	104dB max spl	na	na	na	na	na

Notes: Connectors: P=Phono; D# = DIN # pins; HPJ = 1.25" stereo headphone jack; PAL = 75 ohm unbalanced coax antenna connector; first number is quantity fitted; Screw = terminal connectors. Distortion: Except 204 all products <0.1% at all times and conditions; number listed is test limit under rated condition; typical performance is better. Noise in loudspeakers all <20dB spl @ 1m. Abbreviations: na = not applicable; bal = balanced signal; un = unbalanced signal; + = and; / = or; IR = infrared; Sense = Music-sense; Disp = display; Dig. = digital; An = analogue; Com = communications. Units: All voltages rms ac unless specified otherwise. Dimensions Width x Height x Length, mm

Product	Description	Miscellaneous specification	Features	Construction	Finish	Size	Weight
201 and 202	Control Unit Preamplifier	Relative input sensitivity by $\pm 12\text{dB}$. Programmable mute level 0 - 64. Programmable startup and alarm conditions for System 1+2.	Full tape control. Unique 64 step electronic volume using FETs. Fully controllable IR, coms and RS232	Extruded Aluminium case Internal steel chassis Full RFI shielding	Black texture paint Front panel ABS with glass window	160×100×310	4.8kg
204	FM Tuner Timer	Selectivity 56dB, Capture ratio 1.5dB. AM suppression 55dB, Separation 40dB typ @ 1kHz. Battery memory for 18 presets and 201 data.	Programmable startup and display. Timer activates system incl. 207. Dig. signal strength. User settable seek strength.	Extruded Aluminium case Internal steel chassis Full RFI shielding.	Black texture paint Front panel ABS with glass window	160×100×310	4.8kg
205	Mono Power Amplifier	Thermal, DC and load protection by muting or crowbar and circuit breaker.	Direct-coupled discrete complementary topology. Non-switching output stage	Extruded Aluminium case + heatsink. Steel chassis.	Black texture paint	160×100×310	6kg
206	Compact Disc Player	Sampling frequency 44.1kHz 16 bit. Conversion 4 × oversampling @ 16bit. 196 step digital filter. Precision > 15.6 bit.	CD circuits use passive filtering. Two box isolation. Single custom microprocessor.	Extruded Aluminium case Diecast CD support.	Black texture paint Front panels ABS and glass.	325×100×320	10kg
208	Compact Disc Player and Preamplifier	Differential bitstream conversion 2 × 1bit @ 256 × oversampling. Precision 16 bit.	Single custom microprocessor twin optical outputs. Separate master clock oscillator for low jitter	Extruded Aluminium case. Diecast CD support.	Black texture paint. Front panels ABS and glass.	325×100×320	10kg
Modules							
210	2-System for 201	All inputs of 201 and volume separate output.	Separate standby from System 1.	PCB	open	130×40×140	0.3kg
211	Volume for 222	3 input bal. preamplifier for use with 222.	Unique 64 step electronic volume control.	PCB	open	130×30×130	0.3kg
214	Buffer for 223	Audio and data buffer/booster for 223.	Output balanced or unbalanced. Bidirectional.	PCB	open	100×30×60	0.2kg
215	Phono for 201 or 207	Switchable Moving Coil or Moving magnet.	Ultra-low noise Device. Virtual inductor.	PCB	open	55×30×100	0.2kg
Remote controls							
209	System Handset	Total of 31 keys include Preset and Track	Can control whole multiroom system.	Magnesium alloy diecasting	Black paint	160×32×160	0.5kg
212	Remote sensor	Receiver and repeater for RC5 commands	Wall or shelf mount.	Moulded case, glass front.	Black paint.	160×36×40	0.2kg
213	Remote sensor	212 with display added.	For use with 222 only	Moulded case, glass front.	Black paint.	160×36×40	0.2kg
220	Wall switch	Low-profile splash-proof input for multiroom.	For use with 222 only.	Plastic moulded case.	White natural.	80×15×80	0.1kg
221	Smart wall panel	Display can show status of 3 systems, 1+2+local including source, volume, standby, pause, track frequency, preset number, set-up data.	Push-button and IR input. Can control up to three sources of each type.	Moulded case and front Glass window.	White panel Black glass window.	160×35×100	0.3kg
Junctions							
222	Control Box	Non-volatile memory. Maintains status of 3 systems. User definable, 'smart' operation.	Can be used as slave or controller. Can have internal volume control, 211	Extruded aluminium case Steel chassis.	Grey satin paint Can be painted by user.	160×56×310	1.5kg
223	Power box	Power outputs + 10V @ 2A, $\pm 20\text{V}$ @ 0.5A	Power source for multiroom products	As 222	As 222	160×70×310	1.5kg
224	Star Junction	For cable management in multiroom installations	8 cable outlets	Plastic moulded case	Light grey natural	100×50×100	0.2kg
225	Junction Box	In-room connection box without electronics.	Connects 3 audio, digital and TV/FM	As 222	As 222	160×56×310	1.5kg
226	Power amplifier	Stereo wall-mounting amplifier for multiroom	High current drive capability into impedance loads.	As 223	As 222	160×70×310	3kg
Loudspeakers							
M30	Active system	160mm bass unit, 25mm Aluminium dome tweeter. Range 40Hz-20kHz, 160dB spl max.	Double filter supply. Thermal protection. Critically damped servos. Option stand.	Cabinet 18mm MDF, fine wood veneers. Chasses aluminium.	Rosewood, Walnut, Black ash	180×385×300	32kg pr 10kg stand
M20	Active system	2×160mm polypropylene bass, bass/mid. 25mm aluminium dome tweeter. Range 36Hz-20kHz, 110dB, spl max.	Double filter supply. Thermal protection. Critically damped servos. Stand incl.	Cabinet 18mm plywood, fine wood veneers. Chassis aluminium.	Rosewood, Walnut, Black ash	180×500×365	19 kg ea 10kg stand
M60	Active system	2×160mm polypropylene bass, bass/mid. 25mm aluminium dome tweeter. Range 36Hz-20kHz, 110dB, spl max.	Two power supplies. Thermal protection. Critically damped servos. On light.	Cabinet 18mm plywood, fine wood veneer finish. Chassis aluminium.	Rosewood, Walnut, Black ash	210×900×295	31kg ea
D600	Digital Active	2×160mm polypropylene bass, bass/mid. 25mm aluminium dome tweeter. Range 36Hz-20kHz, 110dB, spl max.	Digital filter, error correction, disp of CD sub-code, 4 × oversampling 16 bit 15.5 bit precision. Passive DAC filter.	Cabinet 18mm plywood, fine wood veneer finish. Chassis aluminium.	Teak, Rosewood Walnut, Black Ash Glass display window	210×900×295	32kg ea
P16	Passive wall-mount	Coincident-source two-way speaker system.	HF protection. Neodymium magnet. Square or round bezel	Moulded ABS bezel, cast aluminium chassis.	White. Can be customised.	200×200×90	1kg

Notes: Due to a policy of continual development, all specifications are subject to change without notice. All reasonable efforts have been made to ensure that the specifications on these two pages are accurate. However Boothroyd Stuart Ltd. and their agents are not liable for any errors or omissions. Fitness for purpose is determined by the retailer.



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