

M E R I D I A N G S E R I E S S Y S T E M G U I D E

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This guide was produced by: Human-Computer Interface Ltd,
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Contents

Contents

Introduction	1	Playing DVD-Video discs	23
Welcome	2	Explains how to play DVD-Video discs on the G Series DVD players.	
Typical configurations	3	Home Playing DVD-Video discs	24
Basic use	5	More Fast and slow-motion playback	25
Describes the basic operation of the G Series products, using the front panel or the MSR+.		More Displaying and exiting from menus	26
Operating your G Series system	6	More Selecting options from a menu	27
Using the MSR+	7	More Selecting the audio soundtrack and repeat playback	28
Using a preamplifier	9	More Changing the camera angle and subtitles	29
Explains how to select sources and control their volume, using a preamplifier or receiver.		More Changing the video controls	30
Home Selecting sources	10	Display	31
Playing CDs	11	Digital surround processing	33
Provides information about playing audio CDs on your G Series CD player or DVD player.		Explains how to use your G Series digital surround controller.	
Home Playing CDs	12	Home Selecting a source and changing the DSP preset	34
More Repeat and fast scan	13	DSP presets	35
More Programming a selection	14	More Changing DSP parameters	36
Display	15	DSP parameters	37
Using the radio tuner	17	Display	38
Explains how to use the radio tuner, which is available with the G01 Control Unit, G51 Receiver, G68 Digital Surround Controller, G92 DVD Player Controller Tuner, and G95 DVD Surround Receiver System.		Glossary	39
Home Selecting a station	18	Index	41
More Tuning manually and defining preset stations (AM/FM band)	19		
More Defining preset stations and scanning (DAB band)	20		
Display	21		

Introduction

Welcome to the Meridian G Series – a range of extremely advanced audio products designed to work together in a single integrated system. This *System Guide* provides information about operating your G Series system, whatever the particular combination of units it includes.

Welcome

All the G Series products work in a similar way, and this guide gives general information about switching units on and off and selecting functions from the front panel or Meridian System Remote (MSR+). It also provides information about using specific products in the G Series, including the CD player, integrated tuner, DVD player, and digital surround controller.

For information about setting up your G Series products refer to the separate *Installation Guide* provided with each product.

The Meridian G Series

Taking technologies from the top-of-the-line 800 Series and adding new features and possibilities that are completely unique, Meridian's G Series represents a pinnacle of development from the world's premier hi-fi manufacturer.

All G Series units have the same footprint, and are built into an elegant enclosure suitable for free-standing operation. Alternatively kits are available for rack mounting. All units can be supplied either in traditional Meridian black or in a sleek silver finish.

G Series units are easy to use. The units all feature a similar user interface, based around an easy to read fluorescent display. The positive-action front-panel keys are software-defined, their current function shown in the display. Where appropriate, G Series units also feature a rotary volume control.

The G Series is accompanied by a comprehensive multifunction MSR+ remote control with automatic backlighting. In addition to the ability to control all Meridian components, the remote can be programmed to control virtually any other remote-controlled device, via its learning capability or its extensive on-board command library.

Full configuration of many G Series components may be achieved by running a special set-up program on a Windows computer, connected to the G Series unit via a serial link.

Construction

Inside, the Meridian G Series is as advanced as its appearance suggests. G Series components incorporate the latest technologies and techniques, and many unique features. Many components feature a combination of functionality. For example, an AM/FM or DAB/FM tuner is included in selected models. Many G Series components are upgradeable with new firmware and hardware as new developments are made and new industry standards emerge.

The G Series range

The Meridian G Series range includes CD and DVD players, controllers, processors, and power amplifiers. Some units include comprehensive video processing and the latest interfacing – such as high-resolution HDMI connectors – and some incorporate the ability to transfer full-resolution, high-sample-rate digital signals from player, to processor, to digital loudspeaker via Meridian's unique MHR SmartLink. Often, components are available with either digital or analogue outputs, and while G Series components are a perfect match for our range of DSP loudspeaker products, they can also be used with conventional passive loudspeakers, driven by the G Series stereo and multichannel power amplifiers.

Highest possible audio quality

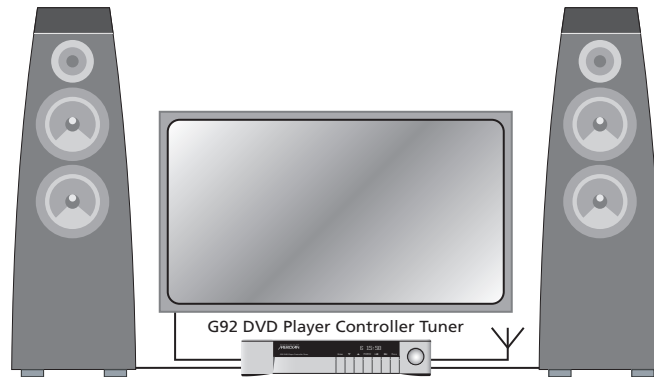
The G Series continues the Meridian tradition of the highest possible audio quality, implemented via a combination of the latest and most sophisticated digital and analogue circuitry, and with a distinctive appearance that looks just as good as it sounds.



Typical configurations

This section shows some recommended G Series systems.

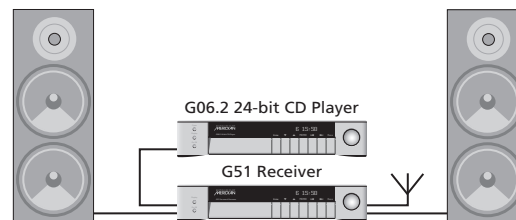
Compact DVD system



The Meridian G92 DVD Player Controller Tuner incorporates a radio tuner and preamplifier with digital, analogue, and video inputs, making it ideal as the basis for a complete compact system. It can

be connected directly to a pair of Meridian DSP loudspeakers, such as Meridian DSP5200s, to create a complete stereo system with no additional components.

Integrated Analogue System

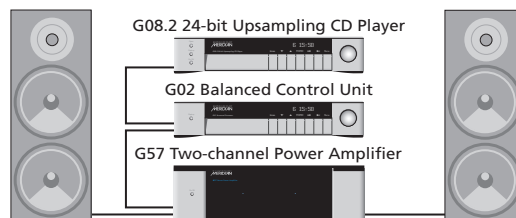


The G51 Receiver combines an analogue preamplifier with a two-channel power amplifier, making it ideal as the basis for a complete compact music system in conjunction with a pair of passive loudspeakers.

The G51 includes an integrated tuner to provide FM and AM radio, and the G06.2 is ideal as a CD player for the system.



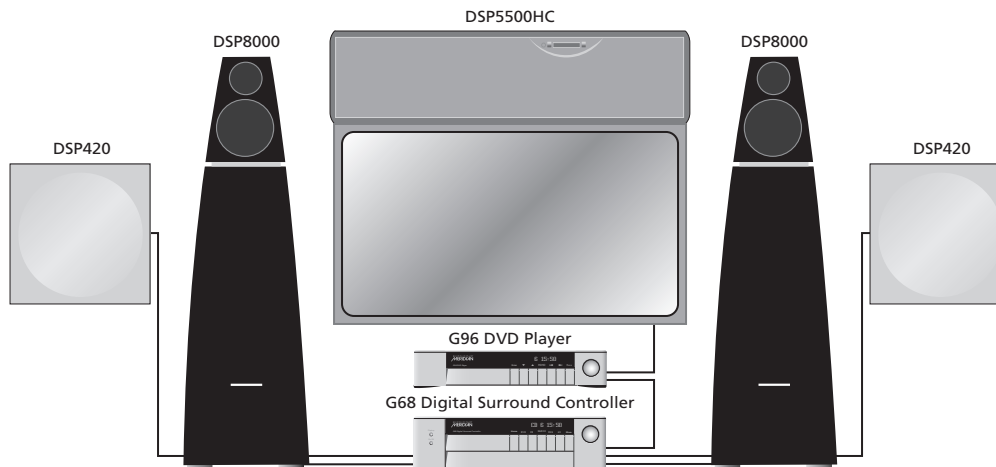
Balanced analogue system



The G02 Balanced Control Unit provides balanced outputs, making it the heart of a superb quality analogue system. The G57 Two-channel Power Amplifier is an ideal companion to the G02 to

provide a generous 200W per channel to drive passive speakers. The G08.2 24-bit Upsampling CD Player is an excellent source for use with the G02, giving a fully balanced system.

Meridian Digital Theatre



The G68 Digital Surround Controller can be used with Meridian digital loudspeakers, such as DSP8000s and a DSP5500HC centre speaker, to provide audiophile quality sound. A further two or four speakers, such as DSP420 Digital Loudspeakers, can be added as side or rear loudspeakers to give excellent multichannel reproduction from music and movie sources.

Alternatively, the G55 Five-channel Power Amplifier can be added to the system for use with five passive loudspeakers. The G96 DVD Player is an ideal source for use with the G68. It plays DVDs as well as audio CDs and MP3 CD-ROMs, and provides high-quality video routing and scaling.

Basic use

This chapter describes the basic operation of the G Series products, using the front panel or MSR+.

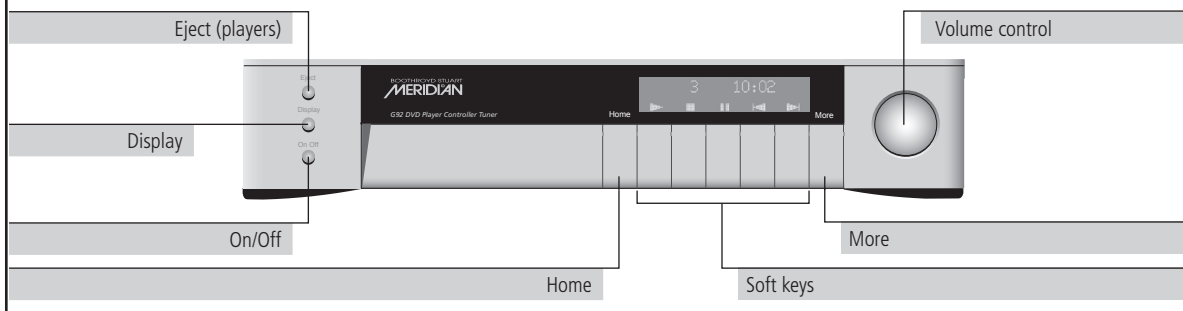
Operating your G Series system

This section gives information about switching your G Series system on and off, using the soft keys, and changing the display format.

The five soft keys under the display make the G Series products particularly easy to use. They change to reflect what the product is doing. For example, if you are playing a CD they provide Play, Stop, Pause, Previous, and Next commands. The current function of each key is shown above the key on the bottom line of the display.

This initial set of soft keys is called Home. You can get back to it at any time by pressing **Home**, to the left of the soft keys.

You can display additional, less frequently needed commands by pressing **More** to the right of the soft keys. The more complex products have several sets of soft keys and pressing **More** steps between the sets.



On/Off

To switch on from standby

- Press **On/Off**.

Alternatively select a source using the MSR+.

To switch to standby

- Press **On/Off** or **OFF** on the MSR+.

Display

To change the display format

- Press **Display**.

The display will step through a series of alternative display formats, depending on what is currently playing.

To blank the display

- Press **Display** until you reach the blank display option.

Blanking the display also switches off all the display circuitry.

Home

To display the Home soft keys

- Press **Home**.

Products which combine two or more functions, eg tuner and preamplifier, provide a set of Home soft keys appropriate to each function.

- Press **Home** to switch between the alternative sets of Home soft keys.

Soft keys

To select a command

- Press **More** until the command you want is displayed above the soft keys.
- Press the soft key corresponding to the command.

If you do not select a command after a few seconds, the soft keys revert to the Home soft keys.

More

To access more soft key commands

- Press **More**.

An example is the brightness command.

To change the display brightness

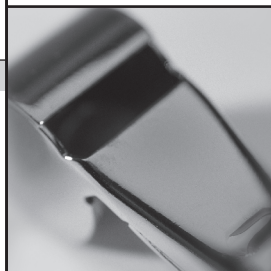
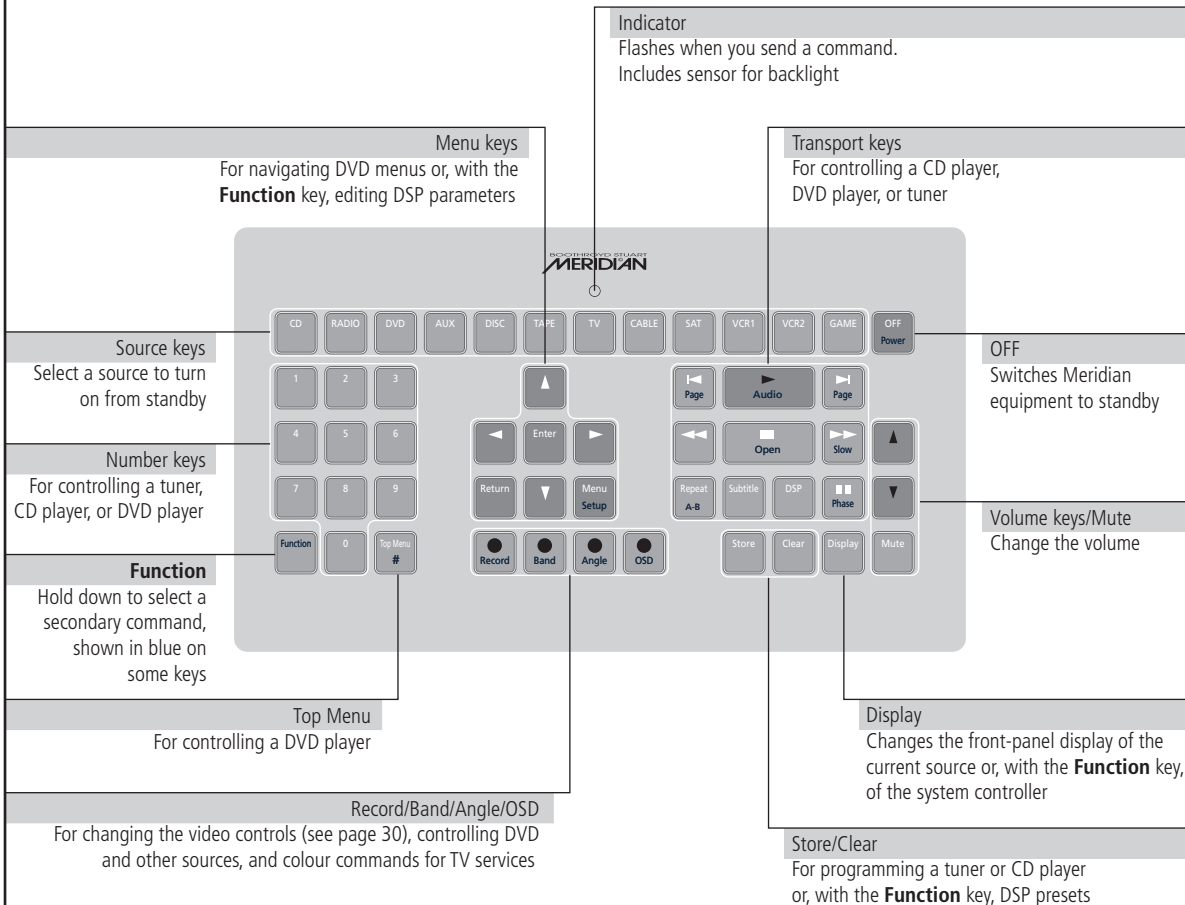
- Press **More** until the display shows **-Bright+**.
- Press **-Bright** or **Bright+** to decrease or increase the display brightness.
- Press **Home** to return to the Home soft keys.

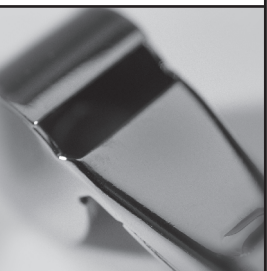
Using the MSR+

You can control all of the functions of your G Series products using either the front-panel controls, or the MSR+ remote control provided with the products.

This page summarises the commands available from the remote. To access the secondary commands, shown in blue on some keys, hold down the **Function** key in the lower left corner and press the key.

For information about programming the remote to control the other equipment within your system please refer to the *MSR+ User Guide*, supplied separately.





Using a preamplifier

This chapter explains how to select sources and control their volume using a preamplifier or receiver.

Home Selecting sources

The G Series controllers provide up to 12 sources initially labelled: **CD, RADIO, DVD, AUX, DISC, TAPE, TV, CABLE, SAT, VCR1, VCR2, and GAME.** You can configure the names of each source to

suit the other equipment in your system; see the *G Series Control Unit and Receiver Installation Guide*.

- Press **Home** to display the soft keys for selecting a source.

Source		Volume	
CD		65	
CD	Radio	TV	VCR1
			Copy

Sources

To select a source

Either:

- Press the appropriate source key on the MSR+.

Or:

- Press the soft key corresponding to the source.

You may need to press **More** until the source you want is displayed.

Volume

To change the volume

- Turn the volume control.

You can adjust the volume between 1dB and 99dB in precise steps of 1dB, where 9dB is equivalent to doubling the loudness.

As you adjust the volume the display may change to show the currently selected source and current volume:

DVD 76

To mute the sound

- Press the volume control.

The display will show:

Mute

To restore the sound

- Press the volume control again, or adjust the volume.

To mute the speakers without muting the headphones (G51 only)

- Press **More** until **Spkr** is displayed.
- Press **Spkr** to turn the speakers off.

Balance

To change the balance

- Press **More** until **<Bal.** and **Bal.>** are displayed.
- Press **<Bal.** or **Bal.>**.

As you change the balance the display shows how far you have moved the sound field, and the direction:

Bal. <4

To restore centre balance

- Adjust the balance until the display shows:

Bal. <0>

Copy

To copy a source to the Copy outputs

- Press **Copy** until the display shows the source you want to copy. For example:

C. Radio

C. Source copies the current source, and **C. Mute** mutes the copy outputs.



Playing CDs

This chapter explains how to play audio CDs on your G Series CD player or DVD player.

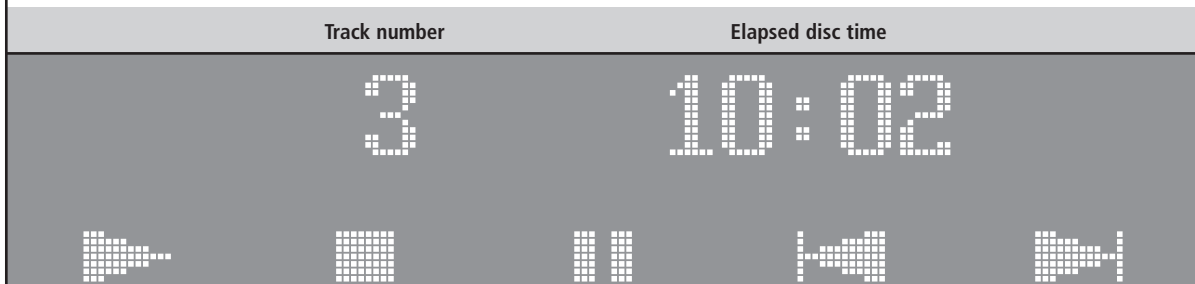
The CD players and DVD players will play audio CDs and recordable CDs. In addition, the DVD players will play MP3 CD-ROMs.

Home Playing CDs

The G Series CD players and DVD players allow you to play an entire CD, or start playing from any track. While a disc is playing you can go back to the start of the track or skip to the start of the next track.

If you have programmed a selection, these functions also work with the selection of tracks you have programmed. For information about programming see *Programming a selection*, page 14.

- With a CD in the tray press **Home** to display the soft keys for playing CDs. With a G92/G95 select the **DVD** source first.



Play/Skip

To play the disc

- Press ►.

To skip to the next track

- Press ► while the disc is playing.

The display shows:

Play 3

Stop

To stop playback

- Press ■.

Pause/Resume

To pause playback

- Press ||.

Depending on the current display format the display shows **PS** or **Pause**:

PS 10:09

You can change tracks while the disc is paused using ◀ or ▶.

To resume playback

- Press || or ►.

Previous/Next

To play from a particular track

- Press ◀ or ▶ to step through the track numbers, or enter the track number using the MSR+.

The display shows which track you are selecting; for example:

Track 7

- Press ► to start play immediately.

Alternatively, after a short delay the disc will start to play from the track you have selected.

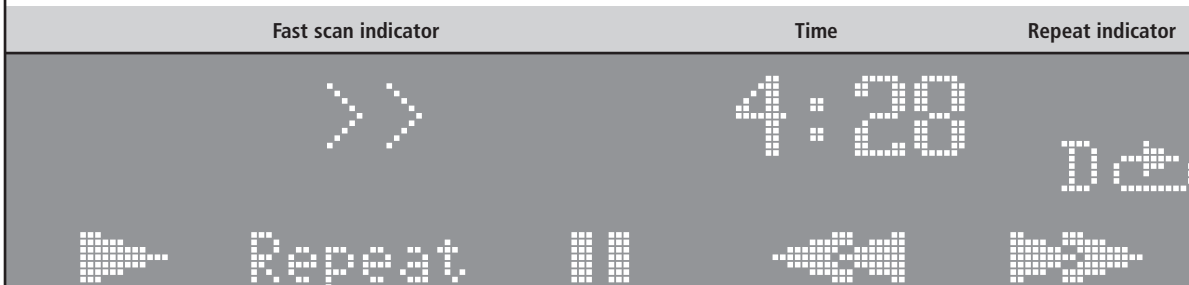


More Repeat and fast scan

You can choose to play a track, disc, or selection repeatedly, so that when it has played, it will start again from the beginning; with MP3 discs you can also repeat the current album.

You can also scan through a disc at faster than normal speed to rapidly locate a particular position on the disc.

- Press **More** to display the soft keys for repeat and fast play.



Play

To revert to normal speed play

- Press **▶**.

Repeat

To repeat the current track

- Press **Repeat**.

The display shows:

Repeat track

To repeat the disc

- Press **Repeat** again.

The display shows:

Repeat disc

To cancel repeat

- Press **Repeat** until the repeat indicator disappears.

With MP3 discs you can press **Repeat** again to repeat the album.

Pause

To pause playback

- Press **||**.

Depending on the current display format the display shows **PS** or **Pause**:

PS 10:09

You can fast scan forward or reverse from pause.

To resume playback

- Press **||** or **▶**.

Fast scan reverse/forward

To scan at twice normal speed

- Press **◀◀** for reverse or **▶▶** for forward.

The display shows:

>> 36:48

To scan at eight times normal speed

- Press **◀◀** or **▶▶** again.

The display shows:

>>> 36:48

To revert to normal play

- Press **◀◀** or **▶▶** again, or press **▶**.

Play resumes from the point you scanned to.

To change album on MP3 discs (DVD players)

If you are playing an MP3 disc the fast scan keys change to **▼** and **▲**.

- Press **▼** or **▲** to go to the previous or next album.

An album is a folder of MP3 files.



More Programming a selection

The G Series CD players and DVD players allow you to programme a selection of tracks, and then play only those tracks you have programmed.

You can programme a selection either by storing the tracks you want to play, or by clearing the tracks you do not want to play. If you programme a selection by storing the tracks you want to

hear, you can play the tracks in any order and repeat tracks in the sequence.

You can programme a selection while the disc is playing, in which case the selection will be played after the current track finishes.

- Press **More** to display the soft keys for programming selections.

Store indicates track will play. Clear indicates track will not play.

Track number

Store

10



Store

Clear



Play

To play a selection of tracks

- Programme the tracks you want to play, using **Store** and **Clear**.
- Press **▶**.

To clear the programmed selection of tracks

- Press **Home** to display the **■** key.
- Press **■** twice.

The display shows:

C.P.

Store

To make a selection by adding tracks

- Press **◀** or **▶** to select the first track you want to play, and press **Store**.

The display will change from **Track** to **Store**, and all the other tracks will be marked **Clear**.

You should store the first track for a selection within two seconds, or it will begin to play.

Clear

To make a selection by omitting tracks

- Press **◀** or **▶** to select the first track you want to omit, and press **Clear**.

The display will change from **Track** to **Clear**, and all the other tracks will be marked **Store**.

You should clear the first track for a selection within two seconds, or it will begin to play.

Previous/Next

To add or remove a track from a selection

- Select the track using **◀** or **▶**.

Alternatively you can enter the track number using the MSR+.

- Press **Store** to add the track, or **Clear** to remove the track.

Display

Audio CDs

- Press **Display** to step between the following display options:

Track number and elapsed track time.

6 1:05

Track number and elapsed disc time.

6 31:05

Track number and remaining track time.

6 3:55

Track number and remaining disc time.

6 28:55

Total number of tracks and total disc time.

12 60:00

MP3 disc display options

The G Series DVD players will also play recordable CD-ROMs containing folders of MP3 files, called albums.

- Press **Display** to step between the following display options:

Scrolling display of filename and elapsed track time.

1-02 Puccini

Track number and elapsed track time.

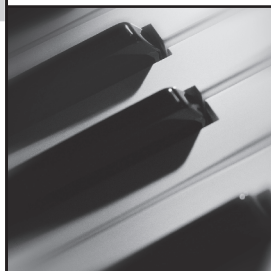
6 0:01:55

Track number and remaining track time.

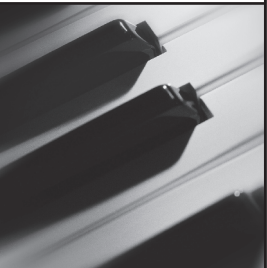
6 0:03:55

Album number and track number.

3- 6



Playing CDs



Using the radio tuner

This chapter explains how to use the radio tuner, which is available with the G01 Control Unit, G51 Receiver, G68 Digital Surround Controller, G92 DVD Player Controller Tuner, and G95 DVD Surround Receiver System.

The radio tuner provides the FM waveband, and a choice of AM (LW and MW) or DAB (Digital Audio Broadcasting; not available with G68). It supports RDS (Radio Data System) on FM to display the station name.

Home Selecting a station

This section gives information about using the DAB/FM or AM/FM radio tuner. It explains how to select stations, change the waveband, and step between preset stations.

- Press **Home** when the **Radio** source is selected to display the soft keys for selecting stations.



Radio

To select the radio tuner

- Press **Home** to display the source options.
- Press **Radio** to select the radio tuner.

Select station

To select the next station

- Press **▼** or **▲**.

DAB band

The tuner will select the previous or next service, in alphabetical order.

FM/AM band

The tuner will scan down or up in frequency until it finds the next station.

On FM, if the station supports RDS the display will show the station name:

BBC R3

Band

To change the band

- Press **Band**.

You can switch between the following bands:

DAB/FM tuner

FM (VHF)
DAB

AM/FM tuner

FM (VHF)
MW (Medium Wave)
LW (Long Wave)

AM/FM tuner (USA)

FM (VHF)
AM

Step Previous/Next

To step between preset stations

- Press **◀** or **▶**.

Alternatively enter the preset station number using the remote.

The display shows the frequency and preset station number:

99.3 MHz 2

or, if a name has been stored for the preset station, the preset station name:

Classic

For information about defining preset stations, see *Tuning manually and defining preset stations*, page 19.



More Tuning manually and defining preset stations (AM/FM band)

This section gives information about using the AM/FM band to tune manually to a specific frequency, and define preset stations. You can store up to 30 preset stations each with a name of your choice, and then select them directly from the front panel or MSR+.

- Press **More** to display the soft keys for tuning manually and defining preset stations.



Step ▼/▲

To tune manually

- Press **Step** ▼ or ▲.

This steps through the frequencies in steps of 0.1MHz on the FM band, and steps of 10kHz (AM, USA), 9kHz (MW), and 1kHz (LW).

Store

To define a preset station

- Tune to the station you want to store.
- Press **Store**.

The display shows:

Pick Station

- Press ► to show the first unused preset label:

To select a different preset press ◀ or ▶.

- Press **Store** to store the preset station.

The display shows:

Stored

To edit the label

After storing a preset station the display shows:

Store Label?

- Press **Store** to edit the label or **Return** to exit.

If you selected **Store**:

- Use ▼ or ▲ to change the flashing character, and ◀ or ▶ to move between characters:

BBC R3_

- Press **Store** to store the label.

The display shows:

Stored

Clear

To clear the current preset station

- Press **Clear**.

Audio

To change the audio setting

- Press **Audio**.

You can select between the following settings:

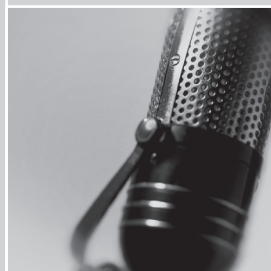
G01/G51

FM: Mono or Stereo.

G92/G95

FM: Stereo, Wide, Medium, Narrow, or Mono. Wide, Medium, and Narrow progressively reduce the stereo width to reduce hiss on noisy stations.

AM: Low Pass, Whistle, or Filter Off. Low Pass removes excess hiss, and Whistle removes 4.5kHz whistle.



More Defining preset stations and scanning (DAB band)

This section gives information about using the DAB band to define preset stations and scan for services.

You should scan for services when using the tuner for the first time, and then periodically to find any new ensembles (groups of

stations) that are available.

- Press **More** to display the soft keys for defining preset stations and scanning.



Store

To define a preset station

- Tune to the station you want to store.
- Press **Store**.

The display shows:

Pick Station

- Press **▶** to show the first unused preset label:

To select a different preset press **◀** or **▶**.

- Press **Store** to store the preset station.

The display shows:

Stored

To edit the label

After storing a preset station the display shows:

Store Label?

- Press **Store** to edit the label or **Return** to exit.

If you selected **Store**:

- Use **▼** or **▲** to change the flashing character, and **◀** or **▶** to move between characters:

BBC R3_

- Press **Store** to store the label.

The display shows:

Stored

Clear

To clear the current preset station

- Press **Clear**.

Scan

To scan for services

- Press **Scan** to display the DAB Scan menu.
- Press **Auto** to start.

The display shows **Scanning** together with the name of each ensemble (eg **12A**) and the number of services found (eg **Found 34**). Note that this takes several minutes.

- Press **Return** to return to the previous display.



Display

FM band

- Press **Display** to step between the following display options:

Preset name.

Radio 3

Radio data (G92/G95 only).

BBC Symphony

Genre (G92/G95 only).

Classics

Time (G92/G95 only).

15:36

Note: The information displayed depends on the RDS features supported by the selected radio station, and may take several seconds to appear.

DAB band

- Press **Display** to step between the following display options:

Station name.

Radio 3

Ensemble name.

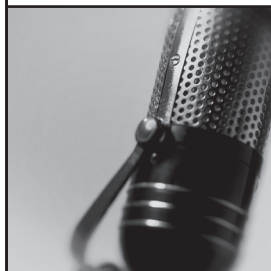
BBC National

Radio text (scrolling).

Welcome to t

Program type.

Pop Music





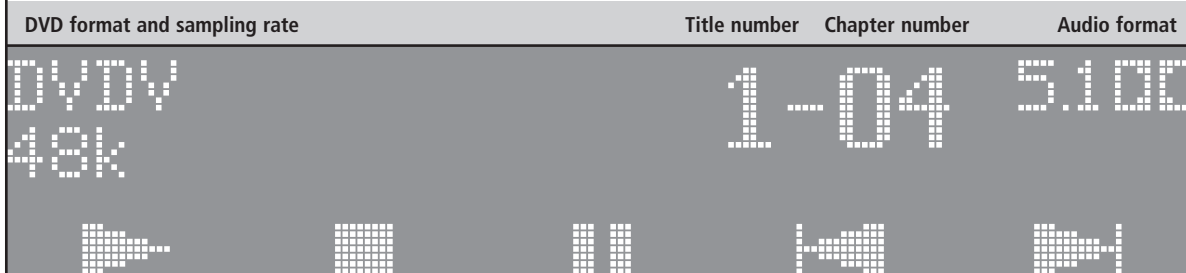
Playing DVD-Video discs

This chapter explains how to play movies on DVD-Video discs using the G Series DVD players.

Home Playing DVD-Video discs

Most DVDs start playing automatically when you close the tray. Some DVDs are double-sided, and need to be turned over during play.

- With a DVD-V in the tray press **Home** to display the soft keys for playing DVDs. With a G92 or G95 select the **DVD** source first.



Play

To play the disc

- Press **▶**.

The on-screen display shows **▶** and the front-panel display shows the title and chapter, or track number.

For example, on chapter 7 of title 1:



Stop

To stop playback

- Press **■**.

The on-screen display shows: **■**

To resume after stopping

- Press **▶**.

The disc will resume playing from the position where you stopped playback, and the on-screen display shows: **▶**

To return to the start of the disc

- Press **■** while the disc is stopped.

The on-screen display shows **■** and the disc is reset to the start.

Pause

To pause playback

- Press **||**.

The on-screen display shows: **||**

To step forward frame by frame

You can step forward, frame by frame, while a DVD-Video disc is paused:

- Press **||**.

The on-screen display shows: **▶||**

To continue after pausing

- Press **▶**.

The on-screen display shows: **▶**

Previous/Next

To move to the previous or next chapter or track

- Press **◀** or **▶**.

The on-screen display shows **◀** or **▶**.

Alternatively you can enter a chapter number using the remote, followed by **Enter**.

Note: These functions are normally disabled while the disc's copyright notice is being displayed.



More Fast and slow-motion playback

You can play back DVD-Video discs faster than normal, at twice or eight times normal speed, or in slow motion, at from one-half to one-sixteenth of normal speed.

Note: The sound is muted when playing back DVD-Video discs faster or slower than normal.

- Press **More** while a disc is playing to display the soft keys for fast and slow-motion playback.



Play

To resume normal speed

- Press **▶**.

Slow

To play DVD-Video discs in slow motion

- Press **Slow** during playback.

Each time you press **Slow** the speed switches between one-half, one-quarter, one-eighth, and one-sixteenth normal speed, as shown by the on-screen display:



Pause

To pause while playing at faster or slower than normal speed

- Press **||**.

Fast reverse/Fast forward

To play DVDs faster than normal

- Press **◀◀** or **▶▶** during playback.

Each time you press **◀◀** or **▶▶** the speed switches between twice and eight times normal speed, as shown by the on-screen display:



More Displaying and exiting from menus

DVDs generally provide a Top Menu, which provides access to the contents of the disc.

This section explains how to display these menus.

Many DVD-Video discs also provide a disc menu, which allows you to select additional sections or special options.

- Press **More** while a DVD is playing to display the soft keys for displaying and exiting from menus.



Return

To return from a menu

- Press **Return**.

This will exit from the menu without selecting an option.

Top

To display the Top Menu

- Press **Top**.

Menu

To display the disc menu

- Press **Menu**.

Enter

To select a highlighted option

- Press **Enter**.

Playback will start from chapter 1 of the title you selected.



More Selecting options from a menu

- Press **More** while a DVD is playing to display the soft keys for selecting options from a menu.

These keys may automatically appear if the DVD is currently displaying a menu screen, for example when a disc is first loaded.



Menu ◀▶

To move left or right on a menu

- Press ◀ or ▶.

Menu ▼/▲

To move down or up on a menu

- Press ▼ or ▲.

Enter

To select a highlighted option

- Press **Enter**.

Playback will start from chapter 1 of the title you selected.



More Selecting the audio soundtrack and repeat playback

DVDs often include multiple audio soundtracks, such as movie soundtracks in different languages, or different audio formats.

- Press **More** while a DVD is playing to display the soft keys for audio and repeat.

You can play back a specified title, chapter, track, or selection of a disc repeatedly.

Audio format and repeat mode



Audio

To select the audio soundtrack

- Press **Audio**.

Each time you press **Audio** the next available soundtrack is selected.

The on-screen display shows the language and audio format of the currently selected soundtrack:



Repeat

To repeat a title, chapter, or track

- Select the title, chapter, or track you want to repeat.
- Press **Repeat** to switch between chapter repeat, title repeat, and repeat off.

The current repeat mode is displayed on the on-screen display:



A-B

To repeat a specific section of a disc

- Press **A-B** at the beginning of the section you want to play back repeatedly.

The on-screen display shows:



- Press **A-B** again at the end of the section.

The on-screen display shows:



The DVD player automatically returns to the start of the section and plays it back repeatedly.

To cancel the repeat

- Press **A-B** a third time.



More Changing the camera angle and subtitles

Some DVD-Video discs include scenes recorded from up to nine different camera angles, and you can select the camera angle while you are playing the disc.

Many DVD-Video discs include subtitles in up to 32 different languages. While you are playing a disc you can turn the subtitles on or off, and select the subtitle language from those provided on the DVD-Video disc.

A question-mark symbol is displayed on the on-screen display if you select a function that is not currently available on this disc.

- Press **More** while a DVD is playing to display the soft keys for changing the camera angle and subtitles.



Angle

To select or change the camera angle

- Press **Angle** while viewing a scene with multiple camera angles.

Each time you press **Angle** the next camera angle is selected after a short delay.

The camera angle icon on the on-screen display shows the current camera angle and the total number of angles available:



Subtitle

To select the subtitle language

- Press **Subtitle** or **Function Subtitle** on the MSR+.

Each time you press **Subtitle** the next subtitle language is selected.

The on-screen display shows the subtitle language (for example, ENG, SPA, FRE, or OFF), followed by the subtitle number and total number of languages (for example 2/3):



On/Off

To turn subtitles on or off

- Press **On/Off** or **Subtitle** on the MSR+.

The on-screen displays shows the current subtitle setting:



More Changing the video controls

The G Series DVD players include several video controls to allow you to adjust the video image. The video controls are available for video inputs, and the picture position controls are also available for the internal DVD.

- Press **More** to display the **Video** soft key, then press **Video**.

Alternatively press the red ● key on the MSR+.

If you have reprogrammed the MSR+ you may need to press **Function DVD** first.



Video

To select the video control

- Press **Video** or the red ● key on the MSR+ to select the required control.

The following video controls are available:

X=, Y=: Horizontal and vertical picture position (not available on G92/G95).

Film: Film mode detection setting*.

I.Black: Input black level.

I.Cont.: Input picture contrast†.

I.Col.: Input picture colour†.

I.Hue: Picture hue (NTSC only)†.

O.Black: Output black level.

O.Cont.: Output picture contrast.

O.Col.: Output picture colour.

O.Hue: Output hue (NTSC only).

* Normally turned on. Should only be turned off if advised by technical support. 30fps setting may be useful for some older NTSC film material.

† Only for external video sources.



To adjust the current control

- Press ◀ or ▶ to change the current control; eg output black level.

Each control can be varied between 0% and 100%, where 50% is the default value.

The picture position control also uses ▼ and ▲ to alter the vertical position.

Aspect Ratio

To change the image aspect ratio

With correctly authored DVDs the DVD player automatically selects the correct scaling. For external inputs or incorrectly authored DVDs you can press the green ● key on the MSR+ to cycle through the following options:

4x3: Typical VHS and broadcast TV.

14x9LB: 4x3 picture with black bars top and bottom enclosing a 14x9 image. Typically BBC broadcasts in the UK.

16x9LB: 4x3 picture with black bars top and bottom enclosing a 16x9 image. Typically for films on Laserdisc.

16x9: 16x9 picture filling the image. Often called anamorphic. Typically for external DVD inputs.

Native: Aspect ratio conversion disabled. Image fills display as is.



Display

- Press **Display** to step between the following display options:

Title number and elapsed title time.

6 0:01:05

Title number and elapsed chapter time.

6 0:31:05

Title number and remaining title time.

6 0:03:55

Title number and remaining chapter time.

6 0:28:55

Title number and chapter number.

1-06

Total number of titles and total disc time.

12 1:00:00







Digital surround processing

This chapter explains how to use the digital surround processing features of your G Series digital surround controller, G92 DVD Player Controller Tuner, and G95 DVD Surround Receiver System.

Home Selecting a source and changing the DSP preset

Each G Series digital surround controller uses advanced digital signal processing techniques to give you superb space-filling sound that makes the most of whatever type of source you are listening to. It achieves this by identifying whether the source is music or a movie soundtrack, and whether it is two-channel or multichannel. It then automatically selects a processing mode, called a DSP preset, appropriate to that source.

For example, if you have selected the CD source and are playing

an audio CD, the **Trifield** DSP preset will initially be selected. You may then wish to choose a different DSP preset, such as **Music** or **Ambisonics**. You can also change the default DSP preset assigned to the source; see *Assign*, page 40.

- Press **Home** to display the soft keys for controlling your digital surround controller.

On the G92/G95 press **More** to display the **DSP** soft key.

Current source	DSP preset	Volume
DVD	Trifield	70
DVD	Radio	TV
		VCR1 DSP

Sources

To select a source

Either:

- Press **More** until the source you want to select is displayed.
- Press the key corresponding to the source.

Or:

- Press the appropriate source key on the MSR+.

The display shows the source, DSP preset, and volume setting.

DSP

To change the DSP preset

- Press **DSP** to step between the different DSP presets.

The display shows the current preset; for example:

Trifield

You will be able to choose any of the DSP presets appropriate to the source you are playing.

For more information about the DSP presets see the next page.

The digital surround controller mutes the sound while changing source or DSP preset, to avoid clicks in the speakers.

G92/G95

On the G92/G95 the DSP option is only available if the unit has been configured in the Surround application (Type 6 or 7).



DSP presets

Music on CD or radio

The following DSP presets add a surround dimension to stereo recordings, such as on audio CDs or FM radio.

Music extracts the mono and surround components of the original recording for the centre and surround speakers to give a spacious open sound field.

Trifield* is similar to **Music** but generates a centre-front signal that is completely integrated with the front stereo image, for a more stable, accurate, and focused stereo image. The image width is also adjustable.

Super produces a very good surround effect with many live recordings.

PLIIx Music and **Music Logic** are recommended for use with studio produced music, and provide different options for adjusting the sound field.

Special presets for two-channel materials

Direct uses only the left and right speakers; compare this with the effect of surround processing using the other modes. **Stereo*** will use a subwoofer if it is present.

Ambisonics is specially designed for two-channel materials that are UHJ Ambisonically encoded, such as certain audio CDs. The encoded surround information is recovered and played back using all the loudspeakers in your system. In addition it will give impressive results with other two-channel material.

Multichannel movie soundtracks on DVD

The following presets are designed for use with multichannel movie soundtracks encoded using Dolby Digital, DTS, or AAC (on some models). Typically these are labelled 5.1 because they provide five full-range channels (three front and two rear) and one LFE (bass effects) channel.

Cinema* and **THX** decode the soundtrack to render the original six channels to your speaker layout. **THX** adds some additional signal processing to match the sound to typical home listening conditions.

PLIIx Mov6, **PLIIx Mus6**, **THX Surround EX**, **THX Ultra2**, and **THX Music** create an additional pair of surround channels from the 5.1 channel soundtrack and are available if you have four surround speakers in your system. Use **PLIIx Mus6** or **THX Music** for music.

Two-channel movie soundtracks on DVD, video, and TV

Many movie soundtracks are Dolby Surround Encoded onto a two-channel stereo soundtrack.

The following DSP presets re-create the surround components from this type of material:

PLIIx Movie* is Dolby's recommended choice for Dolby Surround Encoded material, and **PLIIx THX** provides a variant of this better suited to home listening.

TV Logic uses the same processing techniques as **PLIIx Movie** but with adjustable steering to give better results with TV material.

* The G92 or G95, when directly driving a surround system, includes Trifield, Discrete, Cinema, Stereo, and PLII Movie presets.



More Changing DSP parameters

Each DSP preset provides a series of parameters that you can vary to customise the behaviour of the preset to your specific requirements. For example, most presets provide **Balance** and **Depth** to allow you to alter the imaging of the sound field.

For each of the built-in DSP presets these parameters are set to standard values, designed to give the best sound in typical listening conditions and with most source materials. Each time you select

a different DSP preset the parameters are reset to these standard values, even if you have previously altered them. You can also change the DSP preset assigned to a source.

- Press **More** to display the menu keys.

On the G92/G95 press **More** to display the **Assign** soft key. You cannot change the DSP parameters.

Current source	DSP parameter	Value
CD	Treble	+0.0
◀	▶	▼
▲	Assign	

Menu ◀/▶

To select the parameter you want to change

- Press ◀ or ▶, or **Function** ◀ or ▶ on the MSR+, until the display shows the name of the parameter you want to change.

For example:

Depth +0.5

Menu ▼/▲

To change the value of the parameter

- Press ▲ or ▼, or **Function** ▲ or ▼ on the MSR+, to change the value of the parameter.

As you change the value you will be able to hear the effect on the sound, and the display will show the current value. For example:

Depth +2.5

After a short delay the display will revert to the normal display of DSP preset and volume.

Assign

To assign a DSP preset to a source

- Listen to the source you want to change.

For example, to change the DSP preset used for multichannel movie sources, play a DVD-Video.

The display will show the DSP preset assigned to that source. For example:

DVD Cinema

- Press **DSP** until the display shows the new DSP preset you want to assign. For example:

DVD THX

- Press **More** until you see **Assign**.
- Press **Assign** to save the new assignment.



DSP parameters

Each DSP preset's parameters allow you to control how it processes the sound. You can adjust these parameters while you are listening to a source to achieve exactly the effect you want. Any changes you make are temporary, and when you select another source the parameters are reset to their standard, recommended values. This section describes some of the most useful DSP parameters.

If you want to make permanent changes to the DSP parameters for a DSP preset, or create a new DSP preset with your own settings, use the **Store** function. For more information see the *G Series Digital Surround Controller Installation Guide*.

Changing the frequency response

The **Treble** and **Bass** parameters allow you to adjust the slope of the whole frequency response and the bass response respectively. They affect the sound from all channels.

Moving the spatial position of the sound

The **Balance** parameter adjusts both volume and delays for each channel to move the sound to an off-centre listening position. The **Centre**, **Rear**, and **Side Level** parameters adjust the relative level of the corresponding speakers to allow you to move the spatial focus of the sound. For example, the level of the rears can be reduced if they are distracting with music material.

Adjusting the width of the sound field

Trifield and **Super** provide a **Width** parameter which adjusts the width of the image created by the three front speakers.

Adjusting the relative delay of each channel

The **Depth**, **R Delay**, and **S Delay** parameters allow you to adjust the delay of the centre speaker, rear speakers, and side speakers relative to the main left and right speakers. Increasing the delay makes the corresponding speaker sound farther away, and reducing it brings the sound closer. These are probably the most important parameters in creating a convincing three-dimensional sound field.

Changing the absolute phase

The **Phase** parameter changes the phase of the signal to all speakers. This can alter the ambience and bass impact for some material.

Selecting which surround speakers are used

Some DSP presets allow you to select which of the side or rear surround speakers are used, for the best surround effect.

Filtering the surround speakers

On some DSP presets you can also change the low-pass filtering of the surround speakers to avoid distracting high-frequency sounds.

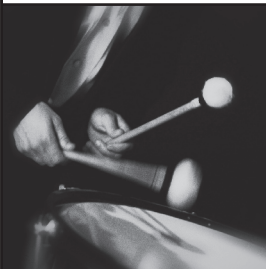
Using room correction

The G68 incorporates Meridian Room Correction, a unique system that compensates for acoustic deficiencies in your listening room, particularly at the bass end. It achieves this by automatically analysing the room response and then using Digital Signal Processing (DSP) to build a set of filters, called a profile. This audibly improves the sound by eliminating resonances and making the decay time consistent for frequencies below about 250 Hz.

Using the dynamic range control

The G Series digital surround controllers allow you to take advantage of dynamic range information provided in Dolby Digital sources, such as movies on DVD, to allow you to compress the dynamic range without compromising the sound quality. Useful settings are **Quiet Boost**, which raises the volume of quiet sounds for listening with background noise, and **Loud Cut**, which reduces the level of loud sounds, such as for late night listening.

Note: If you are using the digital surround controller with a Meridian DVD player your dynamic range control may be located in the DVD Setup menus; see the *G Series DVD Player Installation Guide* for details.



Display

- Press **Display** to step between the following display options:

Source, DSP preset, and volume.

DVD Trifield 70

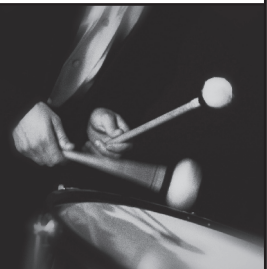
Source, DSP preset, and THX reference level.

DVD Trifield -22

Source, audio format, and sample rate.

DVD PCM 44k

Other diagnostic displays may appear depending on the configuration of the digital surround controller.



Glossary

Glossary

AAC

Advanced Audio Coding, an audio compression system incorporated into the MPEG standard and used for encoding audio broadcasts in some territories.

Absolute phase

A control that changes the phase of the signals to all the speakers. Can alter the ambience and bass impact for some material.

AC-3

An alternative name for the Dolby Digital format.

Ambisonics

A music encoding and decoding system designed to re-create the original sound field using an array of loudspeakers.

Compress

A DSP parameter providing dynamic range control for Dolby Digital sources.

Dolby Digital

A digital surround-sound format which provides five full-frequency-range channels (left, centre, right, left surround, and right surround) and an additional Low Frequency Effects (LFE) channel which is band-limited to 120Hz.

Dolby Surround

The encoding system used for the majority of movies on video and many TV broadcasts. Dolby Surround encoded material can be replayed with a surround decoder connected to an array of loudspeakers, which normally include at least left, centre, right, and rear surround.

DSP preset

A sound processing option. You can create user-defined DSP presets based on the built-in presets, and with specific DSP parameter values.

DTS

Digital Theatre Systems originally produced digital audio tracks for motion pictures. A version of this format adapted for consumer video and audio products is referred to as DTS. Like Dolby Digital it provides five full-frequency-range channels (left, centre, right, left surround, and right surround) and an additional Low Frequency Effects (LFE) channel.

DVD

Digital Versatile Disc, a CD-sized disc with nearly 30 times the storage capacity of CD. It is capable of storing digital video, high-quality multichannel audio, or computer data.

DVD-Video

A DVD containing video titles together with one or more soundtracks, menus, and other entertainment features.

Home

The standard set of soft keys for a G Series product.

IR Controller

The product in a Meridian system that has been configured to receive infra-red signals, and where appropriate send them to other products in the system.

Layout

Refers to a particular arrangement of speakers and subwoofers. You can select different layouts for the Logic, Music, and 5.1 Movie DSP presets.

LFE

The Low Frequency Effects (LFE) channel which enhances movie soundtracks with extreme bass sound effects up to 200Hz. It is band-limited to 120Hz in a Dolby Digital system.

LFE sub

A subwoofer which plays the full LFE signal in Dolby Digital, DTS, and MPEG presets.

MHR

Meridian High Resolution, a proprietary secure encoding format using encryption and anti-copy methods that allows secure transfer of audio streams between elements of a Meridian-only system for the purpose of playback only. It provides a secure copyright protection environment and has the very important benefit of lowering jitter and improving sound quality on all material.

MLP

Meridian Lossless Packing, an audio format that increases the amount of information that can be recorded without any loss of quality. The reference format for DVD-A material.

Mono sub

A subwoofer which handles all the bass for the system. A THX standard subwoofer has a crossover at 80Hz.

Mono surrounds

Surrounds which have a common signal steered to them. This may then be decorrelated by the THX process to give a more spacious sound.

MPEG

MPEG Surround is a digital encoding system developed by the Motion Picture Expert Group. Like Dolby Digital it provides

five full-frequency-range channels (left, centre, right, left surround, right surround) and an additional Low Frequency Effects (LFE) channel.

MSR+

The Meridian System Remote.

OSD

On-screen display, which displays information on status or setup on the video output of a DVD player.

PCM

Pulse Code Modulation, the method used to encode music digitally, as used on CDs and DVDs.

Room correction

A system that uses digital signal processing to analyse the room response and then build a set of filters to compensate for acoustic deficiencies.

Soft keys

The five keys on the front panel of G Series products that change function according to the labels on the bottom line of the display.

Source

An input to the system, such as CD or TV. The Meridian G Series provides up to 12 named sources, corresponding to the names of the 12 source keys on the MSR+.

Steered surrounds

Surrounds which have individual signals steered to them by the digital surround controller's DSP preset.

Surround

A sound reproducing system with more than two loudspeakers, and usually with speakers behind or to the side of the listener.

THX

Additional processing that follows Dolby Pro Logic Surround decoding to give a more faithful reproduction of cinema sound in the home.

Trifield

A DSP preset designed to extract centre and surround signals from a conventional two-channel stereo source.

A

aspect ratio, changing 30

B

balance, changing 10
 balanced analogue system 4
 basic use 5
 black level, changing 30
 blanking the display 6
 brightness, display 6

C

CD player 11
 CDs 11
 fast scan 13
 pausing 12
 playing 12
 programming a selection 14
 repeat play 13
 stop 12
 colour, changing 30
 configurations, typical 3
 contrast, changing 30
 control unit. *see* preamplifier
 copying a source 10

D

DAB tuner 20
 digital surround controller 33
 assigning a DSP preset 36
 changing a DSP preset 34
 DSP preset parameters 36
 DSP presets 35
 selecting a source 34

display

 blanking 6
 brightness 6
 changing 6
 Display key 6
 DSP parameters 37
 DSP presets 35
 assigning to a source 36
 changing 34
 parameters 37
 DVD-Video 23
 A-B repeat 28
 changing the audio
 soundtrack 28
 changing the camera angle
 29
 displaying DVD menus 26
 fast forward/reverse 25
 pausing 24
 playing 24
 repeating a title, chapter or
 track 28
 selecting a chapter 24
 selecting a track 24
 selecting menu options 27
 slow-motion 25
 stopping play 24
 DVD player 11, 23
 DVD system 3

F

functions, selecting 6

H

Home key 6
 Home soft keys 6
 horizontal picture position,
 changing 30
 hue, changing 30

I

introduction 1

M

Meridian Digital Theatre 4
 More key 6
 MP3 CDs 13
 MSR+, using 7
 mute 10

O

On/Off key 6
 Open/Close key 6

P

preamplifier 9
 changing the balance 10
 changing the volume 10
 copying a source 10
 muting the sound 10
 selecting a source 10

R

radio 17
 avoiding hiss 19
 defining a preset station 19
 manual tuning 19
 scanning 18
 selecting a station 18
 stepping between preset
 stations 18
 room correction 37

S

soft keys 6
 sources, selecting 10
 standby 6

T

Tuner. *see* radio
 typical configurations 3

V

vertical picture position,
 changing 30
 video controls 30
 volume, changing 10

