

G95 DVD Surround Receiver System

User Guide

Important safety instructions

- Read the instructions.
- Keep these instructions.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Install only in accordance with the manufacturer's instructions.
- Refer all servicing to approved service personnel.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

This apparatus has been designed with Class 1 construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding pin).

This apparatus uses a single-pole power switch. As a result it is not isolated from AC mains power when switched off at the rear panel. The apparatus may be isolated from mains power either by unplugging the power connector from the rear of the unit, or by unplugging the connector at the opposing end of the power cord or cable from its supply outlet. As a result, either or both of these connectors should remain accessible

Safety warnings

- Do not expose the product to dripping or splashing.
- Do not place any object filled with liquid, such as a vase, on the product.
- Do not place naked flame sources, such as lighted candles, on the product.

To avoid interference

Do not position the product:

- Near strong magnetic radiation, such as near a power amplifier.
- Near to a television, or where connecting cables may be subject to or cause interference.

To avoid overheating

- Leave at least 10cm around the equipment to ensure sufficient ventilation.

Do not position the product:

- In direct sunlight.
- Near heat sources, such as a radiator.
- Stacked with any other audio products, as the heat it generates may damage the other products.
- On a soft surface, such as a carpet, which would obstruct the ventilation holes in the base.

The sides, base, and top of the G95 DVD Surround Receiver System case contain venting holes for the internal heatsinks which should not be obstructed. Ensure that air can flow around them. The product normally runs warm to the touch when not in standby.

Radio interference

FCC Warning: This equipment generates and can radiate radio frequency energy and if not installed and used correctly in accordance with our instructions may cause interference to radio communications or radio and television reception. It has been type-tested and complies with the limits set out in Subpart J, Part 15 of FCC rules for a Class B computing device. These limits are intended to provide reasonable protection against such interference in home installations.

EEC: This product has been designed and type-tested to comply with the limits set out in EN55013 and EN55020.



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Introduction

This guide is designed to enable you to obtain the best possible results from your G95 DVD Surround Receiver System.

If you have just purchased the DVD system you should first turn to the chapter *Installing the DVD system*, page 31, for information about unpacking the DVD system, connecting it to the other equipment in your system, and configuring it using the front panel.

The G95 DVD Surround Receiver System

The G95 is a full 5.1 DVD Surround Receiver with both stereo and surround modes, a robust slot-loading DVD drive and five built-in digital power amplifiers to drive your choice of passive loudspeakers, plus an active subwoofer output. It plays audio CDs, MP3 CDs, Video CDs and DVD-Video discs including the DVD side of DualDisc hybrids. It can decode Dolby Digital, DTS, MPEG, and MP3 data streams to PCM for stereo and multichannel playback and also includes Trifield high-resolution stereo processing. Stereo and multichannel digital audio outputs are also available via HDMI at up to 192kHz.

The G95 also includes comprehensive preamplifier functionality with multiple analogue and digital inputs including two coax digital inputs, two optical digital inputs, and three analogue input pairs. Digital signal processing is included to upsample stereo decoded streams, or decode surround bitstreams from external sources. A

high-quality FM/AM tuner with RDS/RDBS (G95 model), or a DAB/ FM tuner (G95-DAB) is also included.

Audio outputs

Power amplifiers

The G95 includes five channels of powerful, compact and innovative new Class D digital power amplifiers, which offer exceptional power output – 100W per channel into 8Ω – while remaining cool even at full output. The G95 is the first Meridian product to include digital power amplifiers, and the design was chosen following extensive research to ensure that the quality and performance matched that typically delivered by Meridian’s conventional audio amplifier designs. The power amplifier has been specially optimised for cool running and maximum audio quality, including the use of audiophile capacitors and other components.

The amplifiers are powered by a linear power supply including an overspecified true toroidal transformer to provide the high levels of clean power required for powerful multichannel performance.

Line-level outputs

In addition to five pairs of heavy-duty gold-plated power output terminals, a complete set of six analogue line-level outputs is included to drive external power amplifiers and speakers and an active subwoofer such as the Meridian SW1600 or SW5500. Thus the G95 is truly a complete stereo or surround system in a box: just add the conventional passive loudspeakers (and optionally amplifiers) of your choice!

Built-in sources

DVD-ROM drive

At the heart of the player side of the G95 is a robust, high-speed, slot-loading DVD-ROM drive – the best type of drive to use to ensure accurate data recovery from all types of disc. The drive normally operates at standard speed; however, it is capable of recovering data a great deal faster when required, enabling it to make more attempts to recover accurate data from a problem disc. Because of this, the drive can perfectly recover the data from almost any compatible disc. In addition, the drive has a special on-board anti-vibration buffer and is especially robust for durability and reliability in constant service.

Unlike other players that use a mechanical approach to attempt to lower jitter by minimising drive vibration, the G95 employs a triple buffering system to minimise jitter, maximizing HF transparency, sound stage precision and stability. The result of this sophisticated approach is that the player delivers ultra-low jitter, with sound and picture quality second only to that of Meridian’s 800 Reference DVD/CD Player.

The digital electronics as a whole are driven by a new design of high-stability clocking system which further reduces jitter and ensures that the highest level of detail is recovered from a disc. All digital data are accurately re-clocked, and multiple power supplies ensure that digital and analogue circuitry are kept separate.

Radio tuner

Two tuner options are available: AM/FM and DAB/FM. The former provides AM (LF/MF) and FM (VHF stereo Band II) reception with RDS/RDBS, and is fitted with its own 96kHz, 24-bit A/D stage. Digital signal processing provides a sophisticated FM stereo blend/width control which allows you to minimise noise on a received signal. There is also a DSP-based low-pass filter and a whistle filter for improved AM reception. Alternatively, a version is available with DAB Digital Radio (UHF L-Band and/or VHF Band III) and FM.

User interface

The G95 features a comprehensive front-panel user interface which allows access to all the features of the unit. The player can be set to a standard Type which configures all the required settings as required for a particular application, stereo or surround. In addition, an on-screen display (OSD) allows you to configure specific settings individually.

The player employs Flash ROM memory for the operating system, so software updates can be downloaded from the Internet and installed via a PC connected to the serial port on the rear panel. This port also allows full remote control and configuration of the unit.

The output level of the system can be controlled remotely or via the front-panel knob which controls a proprietary hybrid digital/analogue volume control – a design similar to that used in the 800 Series and DSP 8000.

Digital Signal Processing

Upsampling

The G95 includes upsampling in stereo mode, which allows digital filters to be placed far beyond the range of human hearing, as well as offering other audible benefits right across the audio band, including improved transient response. All processing is at 48-bit precision. This results in a more open, transparent sound, tighter bass, and a generally more ‘musical’ sound overall.

To drive the power amplifier modules and the six-channel analogue line-level outputs, signals are upsampled to 24-bit, 176.4/192kHz for digital to analogue conversion – DACs can offer better performance at higher sampling rates; up to 88.2/96kHz multichannel or 192kHz in stereo is delivered as the digital audio component of the HDMI output, at 24-bit word length.

Digital surround decoding

Advanced digital processing features are handled by a powerful DSP engine delivering an impressive 150MIPS (million instructions per second). In addition, the G95 incorporates digital surround decoding to allow full 5.1 surround performance. The built-in surround processing system decodes 5.1 Dolby Digital or DTS soundtracks from DVD discs, and Dolby Digital or DTS data streams fed into the external digital inputs. It will also synthesise

a full surround image from 2-channel soundtracks on audio CDs or DVD-Vs, or from the external two-channel digital or analogue inputs, by extracting latent surround information in the recording.

The acclaimed Trifield system – which decodes conventional stereo to the 3-speaker front stage (LCR) of a surround layout for impressive added soundstage stability and imaging – is also included.

Several DSP presets are provided to allow you to choose the type of surround processing used for different sources. For 5.1 audio formats a Discrete or Cinema DSP preset is selected automatically, depending on whether the source is music or a movie. For two-channel audio formats the DSP preset can usually be switched between Trifield (recommended for music), Stereo (uses just the main left and right speakers and subwoofer), or PLII (recommended for movies), using the DSP key on the front panel or the supplied MSR+ infrared learning remote.

Video

On the video side, advanced video circuit designs, matched-phase video filters, and a broadcast-quality video encoder are employed to deliver low-noise images of outstanding colour depth up to full-specification High Definition 1080p resolution. Separate ultra-low jitter master video and audio oscillators allow picture and sound to be independently optimized, ensuring that the G95 DVD Surround Receiver System delivers breathtakingly clear pictures.

Video processor/scaler

The G95 includes a unique broadcast-quality, high-resolution video processor/scaler which combines both Meridian and Faroudja DCDi® technology, delivering the most advanced, high-quality video available today. The processor can simultaneously provide composite and S-video outputs, plus progressive component video and up to 1080p full-spec High Definition on an HDMI output. The processor can receive two composite, three S-video, and interlaced component video inputs, and convert between the formats, or to the HDMI (high-definition multimedia interface) standard, to provide a single video output for all the video sources in your system.

Picture adjustment controls

The video processor includes picture adjustment controls, available via the MSR+ and front-panel display. These include Contrast, Black Level (Brightness) and Saturation. The black level, contrast, colour, and hue (NTSC) are adjustable on the video inputs.

A bypass function allows progressive or high definition component video to be routed directly to the component output only.

HDMI port

The HDMI port also delivers high-resolution digital audio, up to six channels of PCM at up to 24-bit, 96kHz; two channels at 24/192; or a 5.1 bitstream.

The HDMI port supports a wide range of high quality digital video options including 480p, 576p, 720p, 1080i and 1080p, the highest video resolution available in the consumer industry – the same

resolution as the best current HD sources. Analogue component out is available at 480p and 576p (plus 1080i pass-through).

The HDMI output can be connected to a DVI input if the device supports HDCP copy protection, using a suitable adaptor cable.

To avoid potential degradation of High Definition signals caused by switching video signals inside the unit, the G95 includes a single HDMI video/audio output with HDCP.

To support environments where it is required to switch multiple HDMI-based sources (such as a High Definition PVR) to a single display, the G95 directly supports the Meridian HDMax 421 four-into-one HDMI switch box, which permits source selection on the G95 to switch HDMI inputs seamlessly via the 421.

Specifications

Audio inputs	Analogue: three stereo inputs, unbalanced 0.5–2.5Vrms on phono. Digital S/PDIF: two stereo coax inputs and two stereo Toslink optical inputs.
Loudspeaker outputs	5 x digital amplifier outputs (Left Front, Centre Front, Right Front, Left Surround, Right Surround) each delivering 100W per channel into 8Ω, with sturdy gold-plated binding posts (in Europe, terminals booted to CE spec)..
Line level outputs	Line-level analogue outputs (LF, CF, RF, LS, RS, Sub) on phono connectors.
Digital output	HDMI 2/6-ch/bitstream output (with video)
Tuner	AM (Long/Medium Wave, 150–285/525–1605 kHz). AM lowpass filter and whistle filter. FM (VHF Band II, 87.5–108 MHz), sensitivity 2μv. DSP processing for FM stereo/mono blend and width. DAB: Band III and L Band.
Video features	Automatic PAL or NTSC encoding on Composite and S-video. NTSC black-level setup adjustable as 0 or 7.5IRE. 16:9 and 4:3 displays supported. Contrast, Black Level, Saturation controls on output; Contrast, Black Level, Colour and Hue (NTSC) on inputs.
Video inputs and outputs	Two composite video inputs, one component input, three S-video inputs. Composite, S-video, component and HDMI outputs (HDCP-compatible, also carries 2/6-ch/bitstream audio), outputs all simultaneously active; selected video input is converted to all formats at valid resolutions (except non-interlaced component input which bypasses processor).
Video processor	Faroudja DCDi® scaling and de-interlacing technology. HDMI port supports 480p, 576p, 720p, 1080i and 1080p. Analogue component out at 480p and 576p (plus 1080i component pass-through).
Trigger output	12v trigger output allows control of power amplifiers, etc.
Comms	Full RS232 control and status enables custom integration or automation. Meridian Comms (2 x DIN plus BNC).
Formats	DVD-Video, DVD-R; Video CD (VCD), CVCD, MP3; CD Audio (CD-DA), CD-R and hybrids such as SACD (CD layer only) and DualDisc (DVD layer only).
Power	100–240v specified on ordering, 50–60Hz, 700W max.
Dimensions	Width: 440mm (17.32in); Depth: 350mm (13.78in) plus connectors; Height: 90mm (3.54in).
Weight	13.5 kg (30 lbs).
Rack mounting	Kit available from Meridian authorized dealers.
Controls	Front-panel soft key functions include Play, Stop, Pause, Previous, Next, plus Home and More keys. Off, Display and Eject buttons. Off gently illuminated when off; keys back-illuminated when on.
On-screen display	Switchable custom On-Screen Display allows instant review of disc status. Screen saver with user timeout options. Logo screen with PLUGE bars enables set-up of display device.
Front-panel display	Multi-character dot-matrix graphic Vacuum Fluorescent Display (VFD).

Using the DVD system

This chapter gives full information about operating the G95 DVD Surround Receiver System using the front panel or MSR+ remote control.

For information about connecting up and configuring the DVD system, refer to *Installing the DVD system*, page 31.

Basic use

For information about switching your G95 on and off, using the soft keys, changing the display format, and using the MSR+, see *Operating your G95 DVD Surround Receiver System*, page 8

Using the preamplifier features

For information about selecting sources see *Selecting sources*, page 10.

Digital Surround Processing

For information about using the Digital Surround Processing features of the G95, and the DSP modes, see *Changing the DSP preset*, page 11.

Playing CDs

For information about playing and controlling CDs see *Playing CDs*, page 14.

Using the radio tuner

For information about using the DAB and FM/AM radio tuner see *Using the radio*, page 18.

Playing DVDs

For information about playing and controlling DVD-Video discs see *Playing DVDs*, page 22.

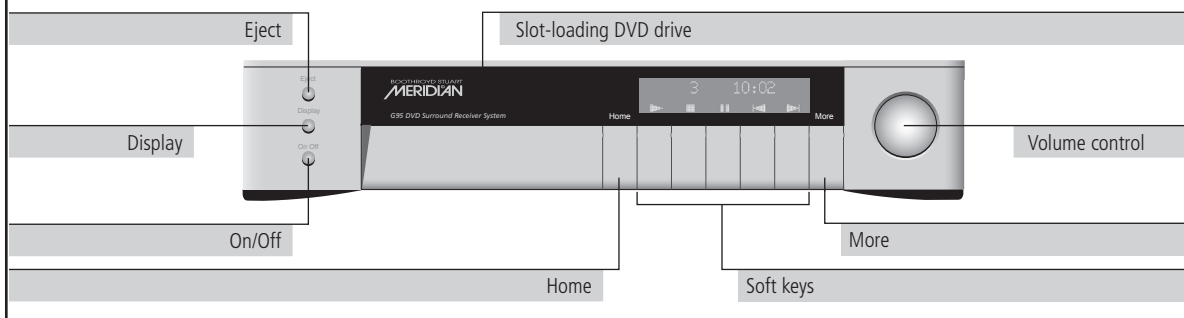
Operating your G95 DVD Surround Receiver System

This section gives information about switching your G95 on and off, using the soft keys, and changing the display format.

The five soft keys under the display make the G95 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. With some sources there are 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**.

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

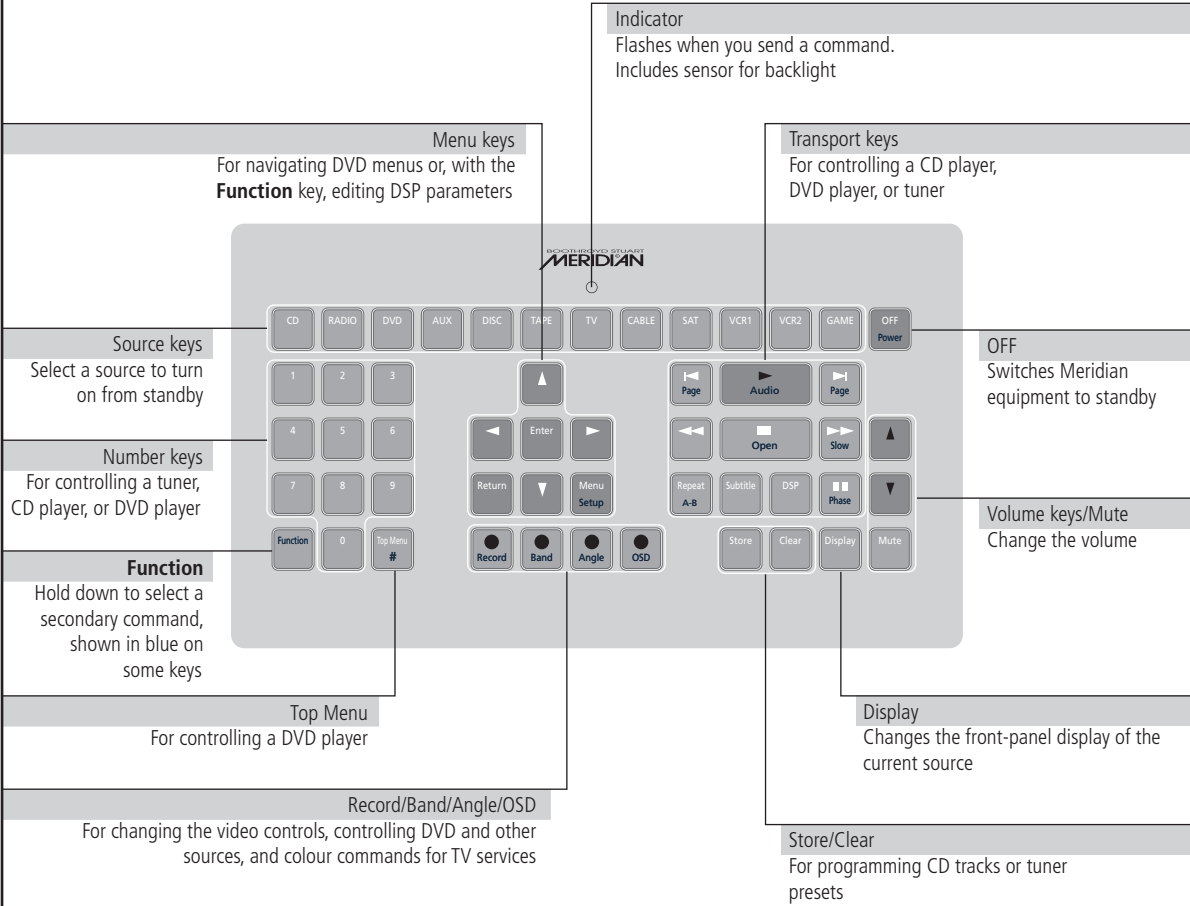
- Press **More** until the display shows **—Bright+**.
- Press **—Bright** or **Bright+** to decrease or increase the display brightness.
- Press **Home** to return to the Home soft keys.

Using the MSR+

You can control all of the functions of your G95 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.



Selecting sources

The G95 DVD Surround Receiver System provides up to 12 sources initially labelled: **CD, RADIO, DVD, AUX, DISC, TAPE, TV, CABLE, SAT, VCR1, VCR2, and GAME.**

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



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:



To mute the sound

- Press the volume control.

The display will show:



To restore the sound

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

Changing the DSP preset

The G95 DVD Surround Receiver System 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 **Stereo** or **PLII Movie**. You can also change the default DSP preset assigned to the source.

- Press **More** to display the **DSP** and **Assign** soft keys.

Source/Sampling rate	DSP preset	Audio format
DVDV 44k	Trifield	PCM
DSP	Assign	Video —Bright+

DSP

To change the DSP preset

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

The display shows the current preset; for example:



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 G95 mutes the sound while changing source or DSP preset, to avoid clicks in the speakers.

Assign

To assign a DSP preset to a source

- Listen to the source you want to change.
- Press **DSP** to show the DSP preset assigned to that source.

For example:



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



- Press **Assign**.

The display shows the new assignment; for example:



DSP presets

Multichannel movie sound tracks on DVD

The **Cinema** preset is designed for use with multichannel movie soundtracks encoded using Dolby Digital or DTS.

It decodes the soundtrack to render the original six channels to your speaker layout – five full-range channels (three front and two rear) and one LFE (bass effects) channel.

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

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

PLII Movie re-creates the surround components from this type of material. It is Dolby's recommended choice for Dolby Surround Encoded material.

Multichannel music recordings

The **Discrete** preset is recommended for music recordings containing more than two channels:

It renders the source channels to your speaker layout with the ultimate precision and transparency.

Music on CD or radio

The **Trifield** DSP preset adds a surround dimension to stereo recordings, such as on audio CDs or FM radio.

It 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.

Special presets for two-channel materials

Stereo uses only the left and right speakers, and a subwoofer if it is present. Compare this with the effect of surround processing using the other modes.

DSP displays

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

Source and volume.

DVD

65

DSP preset and volume.

PLII Mov

65

Blank.

Other diagnostic displays may appear depending on the configuration of the G95.

Playing CDs

The G95 will play audio CDs, recordable CDs, and MP3 CD-ROMs. You can 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 *Playing CDs – Programming a selection*, page 16.

- With a CD inserted select the **DVD** source and press **Home** to display the soft keys for playing CDs.



Play/Skip

To play the disc

- Press ►.

To skip to the next track

- Press ► while the disc is playing.

The display shows:



Stop

To stop playback

- Press ■.

Pause/Resume

To pause playback

- Press ||.

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



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:



- Press ► to start play immediately.

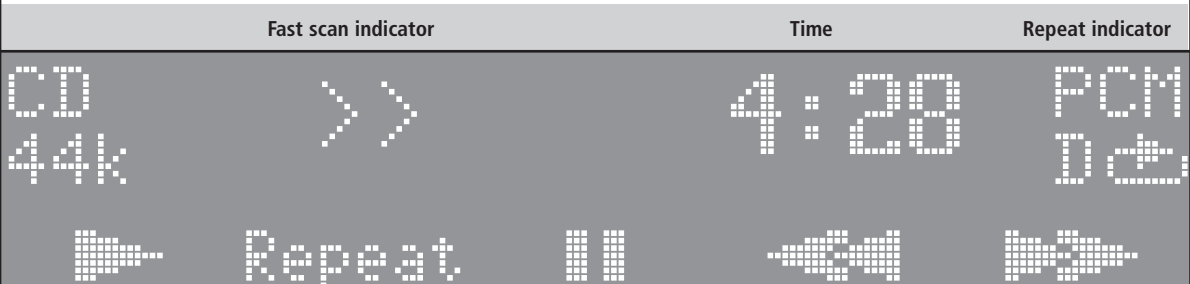
Alternatively, after a short delay the disc will start to play from the track you have selected.

Playing CDs – 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

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.

Playing CDs – Programming a selection

The G95 allows 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.



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:

Clear Prog.

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.

CD displays

Audio CDs

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

Track number and elapsed track time.



Track number and elapsed disc time.



Track number and remaining track time.



Track number and remaining disc time.



Total number of tracks and total disc time.



MP3 disc display options

The G95 DVD Surround Receiver System will also play recordable CD-ROMs containing folders of MP3 files, called albums.

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

Track number and elapsed track time.



Track number and remaining track time.



Scrolling display of artist and song name from ID3 tag, or filename if tag not present.



Album number and track number.



Using the radio

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.

Band and Frequency (AM/FM) or bit rate (DAB)

Station name (if available)

Stereo and preset station

DAB
160kb

Classic

Stereo
1





Band







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 *To define a DAB preset station*, page 19, or *To define an AM/FM preset station*, page 20.

Using the radio – 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

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



Step ▼/▲

To select the next service on the current ensemble

- Press **Step** ▼ or ▲.

For example, if you are currently listening to a BBC station this will step through all the BBC stations.

Store

To define a DAB 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.

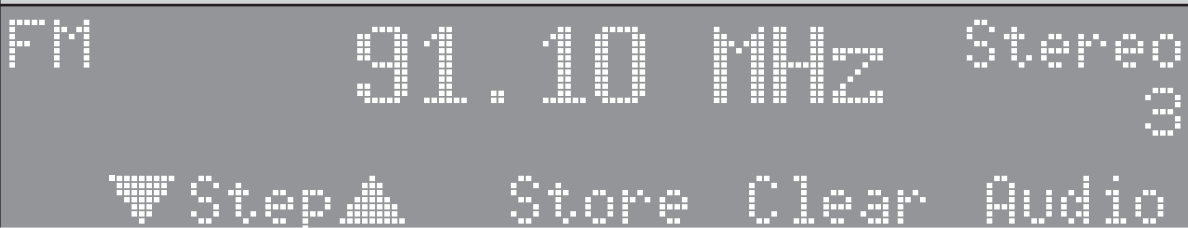
The display shows **Scanning** together with the name of each ensemble (eg **12A**) and the number of services found (eg **Found 34**). Note that this takes several minutes.

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

Using the radio – 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 an AM/FM 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:
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.

Radio displays

FM band

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

Preset name.

Radio 3

Radio data.

BBC Symphony

Genre.

Classics

Time.

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 DVDs

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


• After loading a DVD-Video disc select the **DVD** source, then press **Home** to display the soft keys for playing DVDs.

DVD format and sampling rate	Title number	Chapter number	Audio format
DVDV 48k	7	0:12:34	5.100
			

Play

To play the disc

- Press .

The on-screen display shows  and the front-panel display shows the chapter number and title time. For example:



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.

Playing DVDs – 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:



Playing DVDs – 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**.

If you selected a title on a DVD-Video disc playback will start from chapter 1 of that title.

Playing DVDs – 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**.

If you selected a title on a DVD-Video disc, playback will start from chapter 1 of that title.

Playing DVDs – Selecting the audio soundtrack and repeat playback

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

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

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



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.

Playing DVDs – 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:



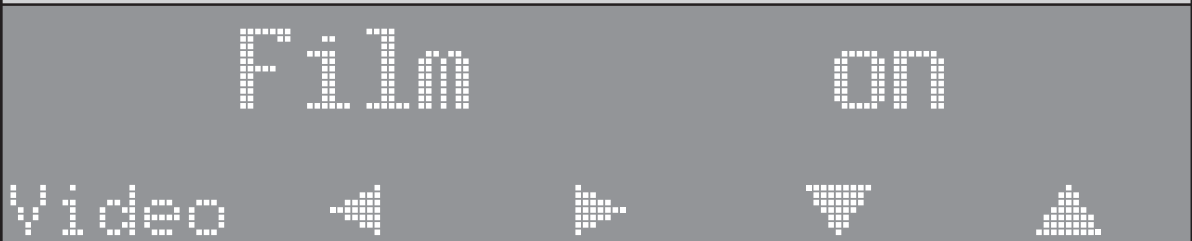
Playing DVDs – Changing the video controls

The G95 DVD Surround Receiver System includes 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.

Alternatively press the red ● key on the MSR+.

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

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



Video

To select the video control

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

The following video controls are available:

Film on/off: Film mode detection setting†.

I.Black: Input black level*.

I.Cont.: Input picture contrast*.

I.Col.: Input picture colour*.

I.Hue: Input picture hue (NTSC only)*.

O.Black: Output black level.

O.Cont.: Output picture contrast.

O.Col.: Output picture colour.

O.Hue: Output picture hue (NTSC only).

* Only for external video sources.

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

Left/Right

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.

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.

DVD displays

• 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

Using the DVD
system

Installing the DVD system

This chapter explains how to install the G95 DVD Surround Receiver System. It describes what you should find when you unpack the product, and how you should connect it to the other equipment in the system.

You should not make any connections to the product or to any other component in the system while the AC power supply is connected and switched on.

Unpacking

The G95 DVD Surround Receiver System is supplied with the following accessories:

- MSR+ remote control with batteries, manual, and spare key caps.
- Meridian Comms lead.
- Ferrite bead*.
- Power cord.
- This manual.

*If a trigger cable is used this should be clamped around the cable near the DVD system.

Models fitted with a DAB/FM tuner also include the following:

- Telescopic DAB antenna.

Models fitted with an AM/FM tuner also include the following:

- AM antenna.
- FM antenna.
- 2 FM antenna adaptors.

If any of these items are missing please contact your dealer.

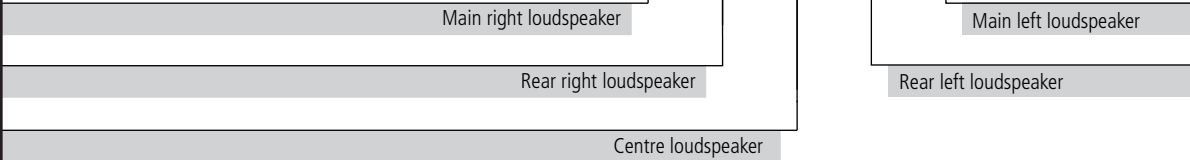
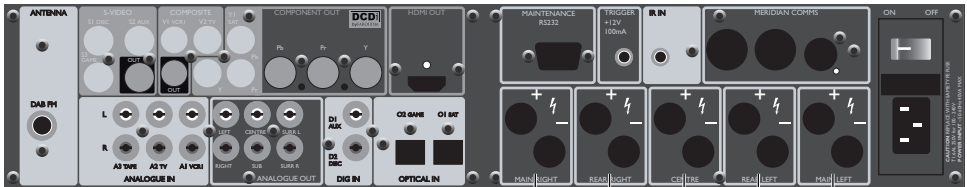
Note: You should retain the packaging in case you need to transport the unit.

Audio connections

The G95 DVD Surround Receiver System includes five power amplifiers, allowing you to connect five passive loudspeakers in a surround system.

It also provides six line-level analogue outputs, for the five main channels and an active subwoofer.

Loudspeaker outputs



Use this output	To connect to this
MAIN RIGHT, MAIN LEFT	The left and right loudspeakers in a stereo system, or main loudspeakers in a surround system..
REAR RIGHT, REAR LEFT	The rear left and right loudspeakers in a surround system..
CENTRE	The centre loudspeaker in a surround system..

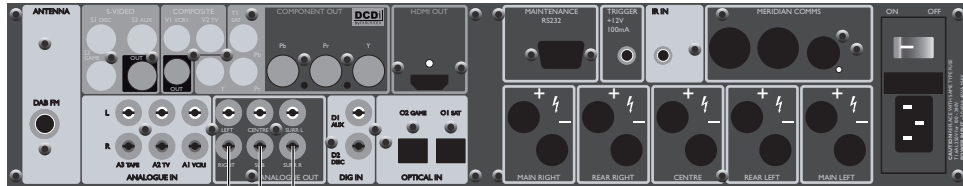
The loudspeakers should not have an impedance of less than 4Ω.

- Connect the positive (red) cable to the terminal marked + and the negative (black) cable to the terminal marked -.
- Loosen the terminal, insert a bare wire into the hole in the terminal post, and tighten the terminal to secure the wire.

- Ensure that none of the bare wires extend beyond the terminals where they might touch.

On models sold outside Europe, cables terminated in banana plugs can also be used.

Line outputs



Main left/right line outputs

Surround left/right line outputs

Centre and sub line outputs

Use this output

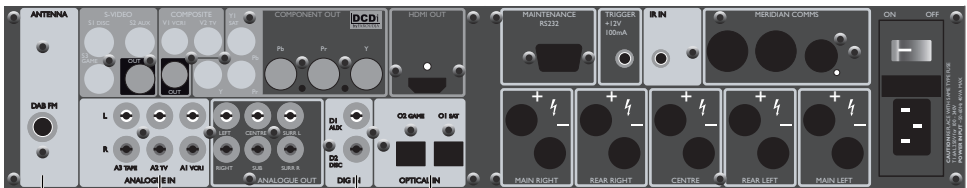
ANALOGUE OUT LEFT, RIGHT,
CENTRE, SUB, SURR-L, SURR-R
ANALOGUE OUT SUB

To connect to this

Analogue active loudspeakers, passive loudspeakers with power amplifiers, or a surround controller with a multichannel analogue input.
An active analogue subwoofer, such as the Meridian SW1600 or SW5500 subwoofer.

Preamplifier and tuner connections

The G95 includes an integrated preamplifier, allowing you to connect up to seven external sources in addition to the DVD player and internal tuner.



Antenna

Digital optical inputs

Analogue inputs

Digital coax inputs

Use this connector

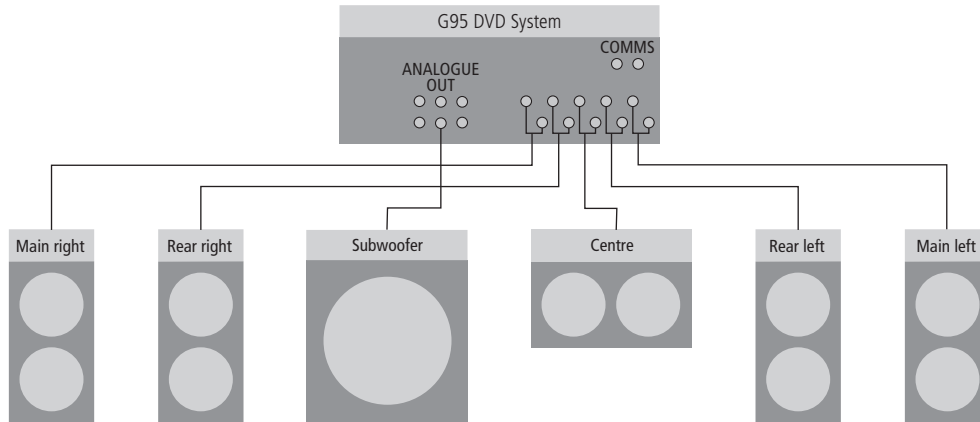
ANALOGUE IN A1 (VCR1), A2 (TV), A3 (TAPE)
DIG IN D1 (AUX), D2 (DISC)
DOPTICAL INPUT O1 (SAT), O2 (GAME)
ANTENNAE FM, AM or DAB/FM

To connect to this

The analogue outputs of a source such as a TV or tape deck.
The digital output of a source such as a LaserDisc player.
The optical output of a source such as a satellite receiver.
FM and AM or DAB/FM antennae.

The default assignment of the sources to each input are shown in brackets after the input name in the above table. DVD and RADIO correspond to the internal DVD player and tuner.

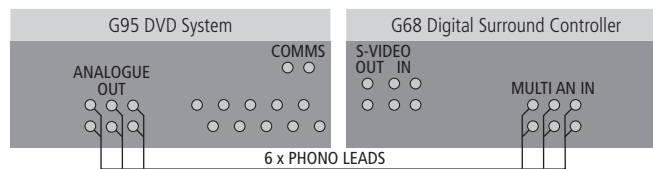
Applications

To create a surround system (Type 7)

The G95 provides five loudspeaker connections and six line analogue outputs, and includes surround decoding to allow you to create a 5.1 surround system directly connected to five passive loudspeakers and an active subwoofer.

- Connect the LEFT and RIGHT loudspeaker outputs to the main front loudspeakers.

- Connect the SURR L and SURR R loudspeaker outputs to the rear loudspeakers.
- Connect the CENTRE loudspeaker output to the centre loudspeaker.
- Connect the SUB analogue output to an active analogue subwoofer.

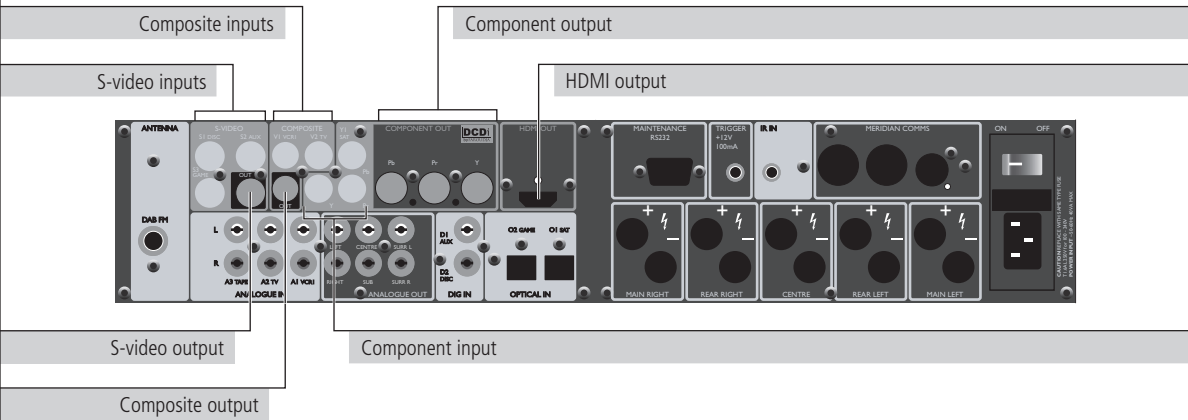
To connect to a multichannel analogue surround controller (Type 1 or 2)

The G95 provides six multichannel analogue outputs which can be configured as fixed-level outputs, to allow you to connect to a surround controller with multichannel analogue inputs. For example, you can connect to the Meridian G68 or 861, to take

advantage of the Meridian Room Correction provided by these products.

- Connect the analogue outputs to the analogue inputs of the surround controller, using phono leads.

Video connections



Video outputs

Use this output

- HDMI OUT
- COMPONENT OUT
- S-VIDEO OUT
- COMPOSITE OUT

To connect to this

- The HDMI input of a monitor or high-definition television.
- The component or progressive component video inputs on a monitor or projection television.
- The S-video input on a monitor or television.
- The composite video input on a monitor or television.

Video inputs

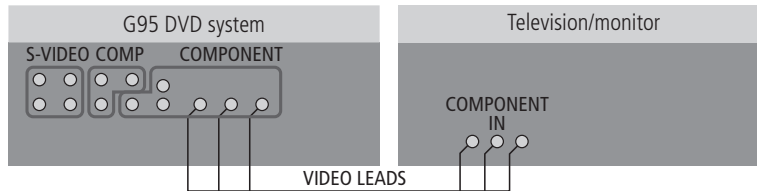
Use this input

- S-VIDEO S1 (DISC), S2 (AUX), S3 (GAME)
- COMPOSITE V1 (VCR1), V2 (TV)
- COMPONENT Y1 (SAT)

To connect to this

- The S-video output of a source such as a LaserDisc player or video game.
- The composite output of a source such as a television tuner or VCR.
- The component output of a source such as a satellite receiver.

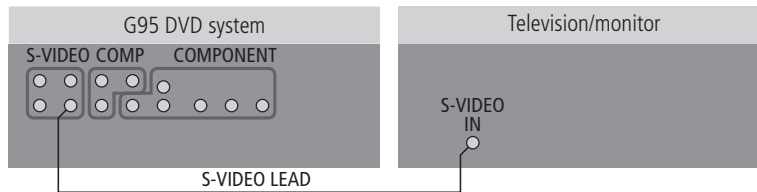
To connect to a display using component video



If your television, monitor, or projection system includes component video inputs, but no HDMI or DVI-HDCP, these will give the highest possible quality from DVD-Videos.

- Connect the appropriate component outputs from the DVD player to the component video inputs, using suitable video cables.

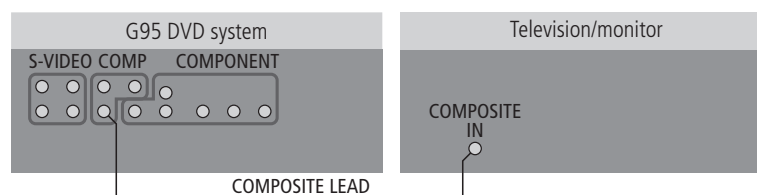
To connect to a display using S-video



- Connect the S-video output to a corresponding input on a television, monitor, or video control unit, using a suitable S-video cable.

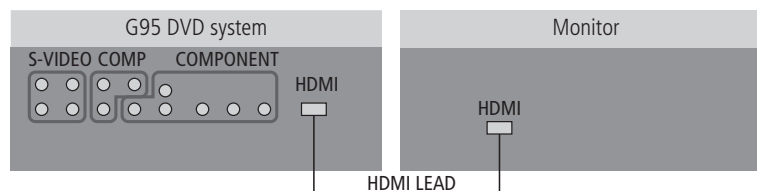
The S-video output is always active, irrespective of the **Video output** setting.

The S-video output is recommended if your other equipment provides a choice of both S-video and composite inputs.

To connect to a display using composite video

- Connect the composite video output to a corresponding input on a television, monitor, or video control unit using a screened 75 Ω video cable.

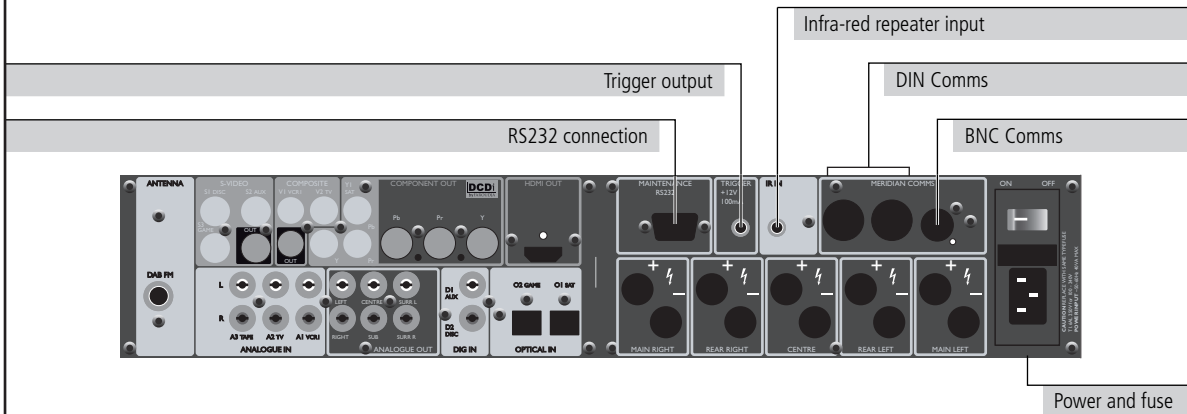
The composite video output is always active, irrespective of the **Video output** setting.

To connect to a display using HDMI

- Connect the HDMI output to the HDMI input on the monitor using an HDMI cable.

HDMI can be connected to a DVI input if the monitor supports HDCP copy protection, using a suitable adaptor cable.

Communications connections



Use this connection

DIN COMMS

BNC COMMS

RS232 connection

IR IN

TRIGGER OUTPUT

To connect to this

Other Meridian G Series, 500 Series, or 800 Series equipment, or Meridian DSP loudspeakers.

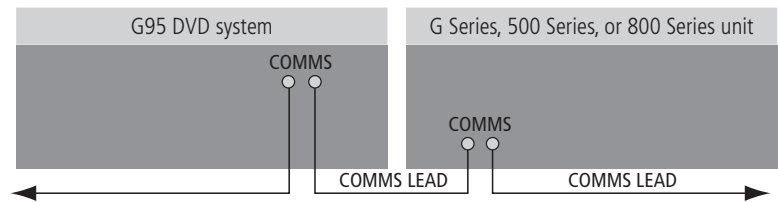
Meridian components with BNC Comms.

A computer, for configuring the DVD player.

A G12 IR Receiver, or approved alternative infra-red repeater. Contact your dealer for details.

Other equipment, via a mono 3.5mm jack output (centre pin hot) that provides 12VDC. It is always low in standby. By default it is high for all sources, so can be used to bring a G56 or G57 Two-channel Power Amplifier out of standby. Alternatively you can program it to be high for specific sources; eg to control a projection screen.

To connect to other Meridian G Series, 500 Series, or 800 Series equipment



In a system of Meridian products the products should be linked together in a chain, via the COMMS sockets, using the Comms leads supplied with each product. The sequence in which you connect the units is not important.

One of the products acts as the controller for the system, receiving infra-red commands from the MSR+, and then, if appropriate, relaying them to the other products via the Comms link. The following procedure should be used to set up the Comms correctly between several products:

- Switch all the units to standby.
- Press **Clear** (MSR+).

Each unit will display:

Auto

One unit will then be designated as the controller, and display:

Con.

All the other units will be configured as non-controllers, and display:

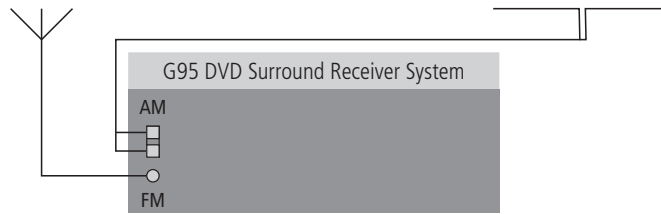
Not Con.

The system is now ready for use.

If the automatic setup does not work, first make sure you are operating the MSR+ from a position where all the units can receive the infra-red, and try again. Then:

- Check that none of the units have been configured to be IR Controller; see *Resetting the DVD player*, page 43, and *Configuring settings*, page 58. Either all products should be set to Auto, or one should be configured as Controller and the others as Not Controller.

Note: Do not, under any circumstances, connect any equipment other than Meridian G Series, 500 Series, or 800 Series to the socket marked COMMS on the back of the product.

To connect FM and AM antennae (products fitted with AM/FM tuner)

- Connect an FM antenna or split-flex dipole to the FM Coax connector, if necessary using the adaptor provided.

In the UK use a female Belling-Lee (VCR) connector.

Although the FM tuner is very sensitive, for best performance and lowest noise use a good antenna placed as high as possible and oriented towards the transmitter.

Note: For all outdoor antennae we strongly recommend you use a qualified installer who will comply with local safety regulations.

- Connect an AM antenna to the AM connector by pressing the tabs and inserting a bare wire into each hole. The ground connection should be connected to the socket marked GND.

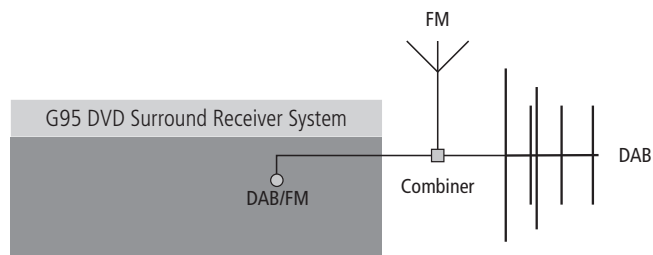
The product is supplied with an indoor loop antenna. This is directional, and for best results you will need to orient it, and this may be station dependent.

- Place the antenna as far away from other electrical equipment and as high as possible.

For best AM results use an external AM antenna.

Note: For AM you must fit a good ground as well as an antenna.

The tuner can be used with most proprietary indoor AM, FM, or combi (AM/FM) antennae. It is possible in some cases to use a trigger output (+12V) from the G95 to power such devices. For more details, see the **Library: Application Notes** section of the Meridian Web site at http://www.meridian-audio.com/lib_apps.htm.

To connect DAB and FM antennae

The DAB/FM tuner uses a single antenna input for both DAB and FM reception. For optimum reception we recommend using both DAB and FM antennae with an appropriate combiner.

For DAB-only listening the supplied DAB antenna may be sufficient. However, in many areas an external or loft mounted DAB antenna will be needed to receive all the available stations. This should either be a dipole aerial or a four-element aerial.

Consult a professional aerial installer for information about the recommended type to use in your area.

In the UK aerials should be mounted with all elements vertical as the DAB transmissions are vertically polarised.

The DAB antenna should be connected to the antenna input using high-quality 50Ω cable.

Resetting the DVD system

This chapter explains how to reset the DVD system using the front-panel controls.

Resetting the product

The DVD system provides several alternative standard settings, called Types, which configure all aspects of the product into the most commonly needed configurations.

Choosing one of the Types overrides any other configuration you may have performed, and so can be used to reset the configuration of the unit.

To reset the configuration

- If necessary press **On/Off** to put the DVD system into standby.
- Press **More**.

The display shows:



- Press **Reset**.

The display shows:



- Press **Yes** to reset the DVD system settings.

The display shows the current Type:



- Press ▲ or ▼ to step through the available Types.

As you select each Type the DVD system is reset to that Type.

When you have selected the Type you want:

- Press **Exit** or **On/Off** to return to standby.

To toggle the IR mode

- If necessary press **On/Off** to put the DVD system into standby.
- Press **More**.

The display shows:



- Press **IR** to toggle between **IR Auto** (auto setup), **IR Con** (controller), and **IR N.Con** (not controller).

- Press **Exit** or **On/Off** to return to standby.

Types

The Types configure the DVD system in the appropriate way according to the other equipment you are connecting it to, and whether it is performing video switching, as shown in the following table:

Type	To connect to this	Volume control in G95	Video switching in G95
Type 0	2-channel analogue amplifier via line outputs.	Yes.	Yes.
Type 1	Multichannel analogue surround processor via line outputs.	No.	Yes.
Type 2	Multichannel analogue surround processor via line outputs.	No.	In surround processor.
Type 3	2-channel audio via HDMI output.	No.	Yes.
Type 4	Multichannel surround processor via HDMI output.	No.	Yes.
Type 5	Directly to a surround system consisting of large main loudspeakers, small centre and rear speakers, and a subwoofer.	Yes.	No.
Type 6	Directly to a surround system consisting of large main loudspeakers, small centre and rear speakers, and a subwoofer.	Yes.	Yes.
Type 7	Directly to a surround system consisting of large main, centre, and rear speakers, and a subwoofer.	Yes.	Yes.

Configuring the DVD system

This chapter explains how to configure the DVD system using the on-screen **Setup** menus. Alternatively, for complete control over all aspects of the product’s configuration you can set up the unit from a computer using the Meridian Configuration Program. For full information refer to the *Meridian Configuration Program Guide* available separately.

Configuration

The **Setup** menus allow you to configure the video, audio, sources, settings, or playback options of the DVD system.

To use the on-screen **Setup** menus you need to have a suitable display connected to an appropriate output on the DVD system; see *Video connections*, page 36.

To display the Setup menus

- If a disc is playing press **■**.
- Press **More** until the display shows:



- Press **Setup**.

The display then shows:

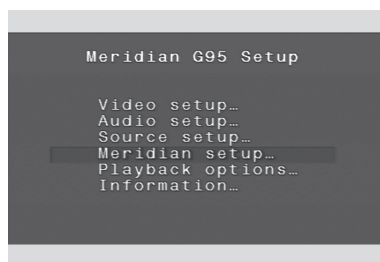


The main **Setup** menu will be displayed on the On-Screen Display:



To select an option from a menu

- Press ▼ or ▲ to highlight the option you want:



- Press **Enter** to select the option.

To return to the previous menu

- Press **Return**.

To exit from the Setup menus

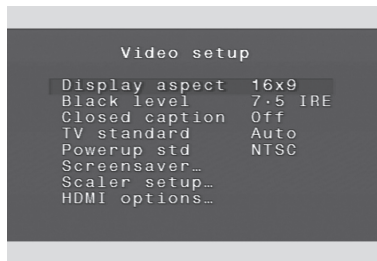
- Press **Setup**.

Configuring the video

The **Video setup** menu lets you change the video settings of the DVD system.

- Highlight **Video setup...** in the **Setup** menu, and press **Enter**.

The **Video setup** menu will be displayed:



To specify your display format

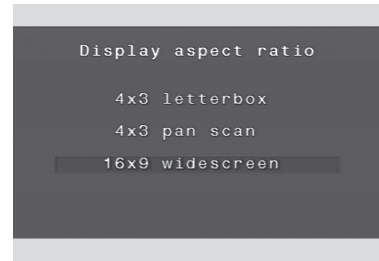
You should set the **Display aspect** option to the format that your display can accommodate.

Select 16x9 if you have a widescreen display, an external processor for picture formats, or you are using the HDMI or progressive outputs.

If you have a standard 4x3 television you also have the choice of displaying widescreen pictures cropped to fill your television screen (pan-scan), or with black bars above and below the picture (letterbox).

- Highlight **Display aspect** in the **Video setup** menu, and press **Enter**.

The **Display aspect ratio** menu is displayed:



- Press **▼** or **▲** to specify the format of your TV, and press **Enter**.

Note: The pan-scan feature is not available on some discs, in which case letterbox format will be used.

To select the black level for NTSC

- Highlight **Black level** in the **Video setup** menu, and press **Enter**.

The **Black level** menu is displayed:



- Press **▼** or **▲** to highlight the appropriate option, and press **Enter**.

If you are using the composite or S-video outputs of the DVD system select the **7.5 IRE** option.

If you are using the component outputs select the option that matches your display.

If you are using the DVD system to play both NTSC and PAL material the recommended setting is **0 IRE**.

This setting has no effect on the HDMI output.

To select closed caption subtitles

Some DVD-Videos include closed caption subtitles, which provide a description of sound effects for the hard of hearing; for example "door creaks".

- Highlight **Closed caption** in the **Video setup** menu, and press **Enter**.

The **Closed captions** menu is displayed:



- Press ▼ or ▲ to highlight **On** or **Off**, and press **Enter**.

To select the TV standard

DVD-Video discs are produced in both PAL and NTSC television formats. The DVD system is capable of converting between formats, to allow you to view DVD movies in either format even if your television is not capable of displaying that format. However the conversion process introduces some picture degradation, and may disable disc menu operation on some discs.

- Highlight **TV standard** in the **Video setup** menu, and press **Enter**.

The **TV standard** menu is displayed:



- Press ▼ or ▲ to highlight the option you want, and press **Enter**.

Choose **Auto** if your television can display both PAL and NTSC video, or choose **NTSC** or **PAL** to match the format supported by your television.

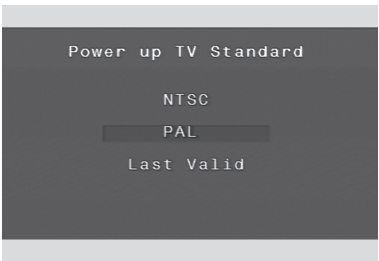
If your television is capable of displaying both formats the recommended setting is **Auto**, which supplies the unconverted video signal to the television.

To select the power up TV standard

A separate **Powerup std** option lets you specify the standard to be selected when you bring the DVD system out of standby:

- Highlight **Powerup std** in the **Video setup** menu, and press **Enter**.

The **Power up TV Standard** menu is displayed:

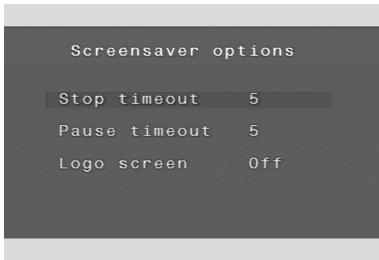


- Press ▼ or ▲ to highlight the option you want, and press **Enter**.

To select the screensaver options

- Highlight **Screensaver...** in the **Video setup** menu, and press **Enter**.

The **Screensaver options** menu is displayed:



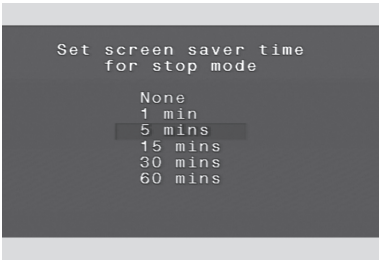
These options allow you to ensure that a static image does not remain on the display, thus avoiding damage to certain types of display.

The **Stop timeout** automatically fades the screen to black if the DVD system is left in stop mode and no key is pressed for the specified time.

The **Pause timeout** automatically switches the DVD system from pause into stop mode if no key is pressed for the specified time.

- Highlight **Stop timeout** or **Pause timeout** in the **Screensaver options** menu, and press **Enter**.

The appropriate menu is displayed:

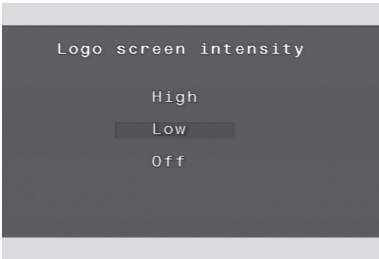


- Press ▼ or ▲ to select the timeout delay, and press **Enter**.

You can also adjust the intensity of the logo screen, which is displayed as a background image when no video disc is playing and the DVD system is not in screensaver mode.

- Highlight **Logo screen** in the **Screensaver options** menu, and press **Enter**.

The **Logo screen intensity** menu allows you to select between **High**, **Low** or **Off**:

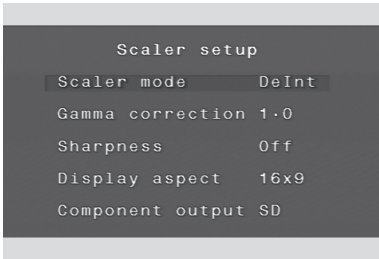


To set the scaler options

These specify how the interlaced video signal from the DVD should be upconverted to the HDMI and component outputs.

- Highlight **Scaler setup...** in the **Video setup** menu, and press **Enter**.

The **Scaler setup** menu is displayed:



- Press ▲ or ▼ to highlight the setting you want to change, and press **Enter**.

The **Scaler mode** options are explained in the following table:

Scaler mode	Description
Deinterlace	Converts 480i (NTSC) to 480p and 576i (PAL) to 576p.
720p	Upconverts to High Definition standard 720p progressive video.
1080i	Upconverts to High Definition standard 1080i interlaced video.
1080p	Upconverts to 1080p progressive video.
Auto	Automatically selects the best resolution for the display device connected to the HDMI connector.

The **Gamma correction** affects the grey scale, and can be set to **1.0**, **0.8**, **0.9**, or **1.1**. If the picture has poor detail in the dark areas choose a **Gamma correction** below 1.0. If the picture has poor detail in the light areas choose a **Gamma correction** greater than 1.0.

The **Sharpness** can be set to **Off**, **Low**, **Medium**, or **High**. It adds edge detail, but can cause picture artefacts.

Gamma correction and **Sharpness** only affect the analogue outputs.

Display aspect allows you to perform aspect ratio conversion on the scaled outputs; ie progressive analogue or HDMI. Set **Display aspect** to the shape of your screen, or **Native** to disable aspect ratio conversion.

Component output allows you to choose what is available on the component output socket. **Standard Definition** gives an SD interlaced component signal. **Scaled** gives a deinterlaced signal; for this option the **Scaler mode** should be set to **Deinterlace**.

To set the HDMI options

- Highlight **HDMI options...** in the **Video setup** menu, and press **Enter**.

The **HDMI setup** menu is displayed:



- Press **▲** or **▼** to highlight the setting you want to change, and press **Enter**.
- Set **HDMI switch** to **On** if using an HDMAX 421 switcher on the HDMI output, or **Off** otherwise.

The **Colour space** can be set to **RGB** or **YCrCb** (recommended).

Information... provides information about the capabilities (the EDID) of the connected HDMI display device.

Configuring the audio

The **Audio setup** menu lets you select the audio settings of the DVD system.

- Highlight **Audio setup...** in the **Setup** menu, and press **Enter**.

The **Audio setup** menu will be displayed:



DVD system application

The options on the **Application** menu allow you to configure the audio outputs for optimum performance, depending on the capabilities of the equipment you are connecting to. For more information about the applications see *Applications*, page 35.

- Highlight **Application** in the **Audio setup** menu, and press **Enter**.

The **Application** menu is displayed::



These options are explained in the following table:

Select this option	For this application
Analogue 2Ch (Type 0)	To use the DVD system as a 2-channel preamplifier, connected via the main LEFT and RIGHT ANALOGUE OUT sockets to analogue active loudspeakers, or passive loudspeakers with power amplifiers.
Analogue MCh	To provide a fixed level multichannel analogue output for connection to a surround controller with a multichannel analogue input. The power amplifiers are muted.
HDMI 2Ch	To use the DVD system as a preamplifier, connected to a 2-channel HDMI receiver.
HDMI MCh	To connect the DVD system to a multichannel HDMI receiver.
Surround (Type 7)	To use the DVD system as a surround controller, connected directly to a surround system consisting of analogue active loudspeakers on the ANALOGUE OUT sockets, passive loudspeakers on the power amplifier outputs, or a combination of the two.

Dolby Digital compression

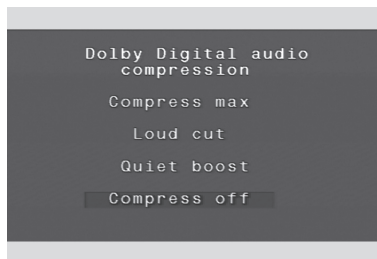
To specify Dolby Digital compression

This option is useful for reducing the dynamic range of Dolby Digital soundtracks, such as when watching a film late at night.

It is only available on the decoded output.

- Highlight **DD compression** in the **Audio setup** menu, and press **Enter**.

The following menu is displayed:



- Press ▼ or ▲ to select the option you want, and press **Enter**.

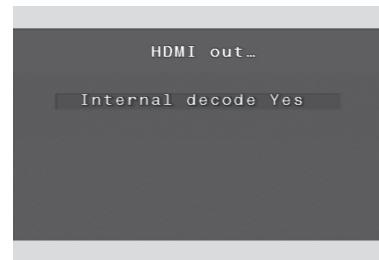
Choose **Compress off** for no Dolby Digital audio compression, **Loud cut** to reduce the level of loud passages, **Quiet boost** to increase the level of quiet passages, or **Compress max** for both low boost and high cut.

HDMI output settings

To specify the HDMI output settings

- Highlight **HDMI out...** in the **Audio setup** menu, and press **Enter**.

The **HDMI out...** menu will be displayed:



- Set **Internal decode** to **No** if you are connecting the HDMI output to a bitstream-capable HDMI receiver.

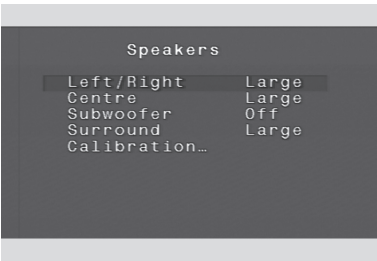
Speakers

To configure speakers

If you are using the G95 in a surround application, directly connected to up to six loudspeakers, the **Speakers** menu allows you to configure the speaker layout and enter calibration settings.

- Highlight **Speakers...** in the **Audio setup** menu, and press **Enter**.

The **Speakers** menu will be displayed:



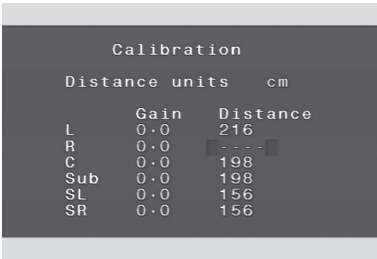
The options are summarised in the following table:

Option	Values	Description
Left/Right	Large, Small	Whether the main left and right loudspeakers should handle the bass (Large), or the bass should be directed to a subwoofer (Small).
Centre	Large, Small, Off	Whether there is a centre loudspeaker, and its bass handling.
Subwoofer	On, Off	Whether there is a subwoofer.
Surround	Large, Small, Off	Whether there are rear surround speakers, and their bass handling.
Calibration...		See opposite.

To calibrate the speaker layout

- Highlight **Calibration...** in the **Speakers** menu, and press **Enter**.

The **Calibration** menu will be displayed:



- Highlight **Distance units** and press **Enter** to change the distance units between cm and inches.

Then for each speaker adjust the **Gain** and **Distance** as follows:

- Press ▼ to highlight the **Gain** figure and press **Enter** to edit it.

You will hear a noise test signal from the corresponding channel.

- Press ▼ or ▲ to decrease or increase the gain in 0.5dB steps, and press **Enter** to confirm it.

Adjust the **Gain** values so all the speakers sound equally loud at the listening position.

- Press ▼ to highlight the **Distance** figure and press **Enter** to edit it.

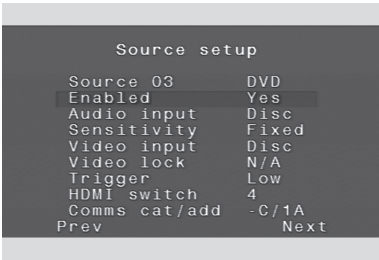
- Measure the distance from the listening position to the speaker and enter the value using the ▼ or ▲ keys, or the MSR+ number keys, and press **Enter** to confirm it.
- Press **Return** when you have entered the values for all the speakers.

Configuring the sources

If you are using the DVD system as the controller or video switcher in your Meridian system, you can use the **Source setup** option on the **Setup** menu to configure each of the sources.

- Highlight **Source setup...** in the **Setup** menu, and press **Enter**.

The **Source setup** menu will be displayed:



To configure a source

- Press the source key on the remote corresponding to the source you want to configure.

The **Source configuration** menu shows the values of each option defined for that source.

To change an option

- Highlight the corresponding option in the **Source configuration** menu and press **Enter**, select the value you want to use, and press **Enter** to select it.

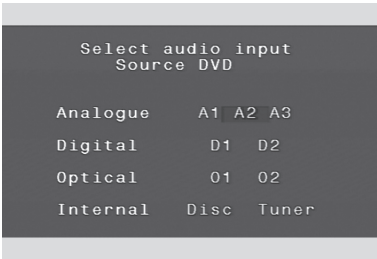
The following table explains the function of each of the options:

Option	Values	Description
Enabled	Yes, No	Whether the source appears on the list of sources.
Audio input	A1-A3, D1-D2, O1-O2, Disc, Tuner	The audio input used for the source; analogue, digital, optical, and internal; see below.
Sensitivity	2.5V, 2.0V, 1.0V, 0.7V	Allows you to set the sensitivity of the analogue inputs.
Video input	V1-V2, S1-S3, Y1, Bypass, Disc	The video input used for the source; see below.
Video lock	Normal, Poor	Improves locking for poor video sources
Trigger	High, Low	Trigger output for the source.
HDMI switch	1 to 4	Available if HDMI switch is set to On in the HDMI setup menu. Allows the G95 to control the input on the HDMAX 421.
Comms cat/add	-C, 1C-9C, NC/1A-8A	Allows you to set the Comms category and address.

To assign an audio input to the source

- Highlight **Audio input** in the **Source configuration** menu, and press **Enter**.

The **Select audio input** menu will be displayed:



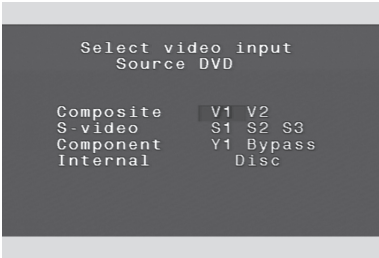
- Highlight the **Analogue**, **Digital**, **Optical**, or **Internal** input you want to use for the source, and press **Enter** to select it.

Disc corresponds to the internal DVD system and **Tuner** corresponds to the internal DAB/FM or AM/FM tuner module.

To assign a video input to the source

- Highlight **Video input** in the **Source configuration** menu, and press **Enter**.

The **Select video input** menu will be displayed:



- Highlight the video input you want to use for the source, and press **Enter** to select it.

Select **Bypass** to route the component input directly to the component output, for sources such as satellite receivers and cable boxes that generate HD signals.

Disc corresponds to the internal DVD system.

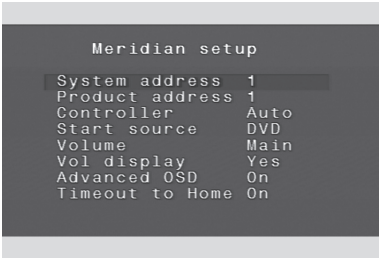
Configuring settings

The **Meridian setup** menu allows you to configure settings that affect the operation of the DVD system.

To configure settings

- Highlight **Meridian setup...** in the **Setup** menu, and press **Enter**.

The **Meridian setup** menu will be displayed:



The product settings are generally set to an appropriate value when you reset the DVD system to the standard settings, and you should not normally need to alter them.

The options are summarised in the following table for advanced use:

Option	Values	Description
System address	1-8	Advanced setting.
Product address	1-8	Advanced setting.
Controller	Yes, No, Auto	Whether the product is the infra-red controller for the system.
Start source	Source	Specifies which source is selected when switching on from standby.
Volume	Main, Secondary, None	Specifies whether the DVD system controls the main volume, volume in a two-room system, or has independent volume control.
Vol display	No, Yes	Specifies whether the DVD system displays the volume for the system.
Advanced OSD	Off, On	Shows playback statistics in the OSD bar.
Tuner Region (AM/FM only)	Europe, America, Japan	Band selection (MW/LW or AM) and the tuner deemphasis standard. Set to Europe for other countries.
Timeout To Home	Off, On	Sets a 30s timeout for the front-panel display to return to Home.

Configuring playback options

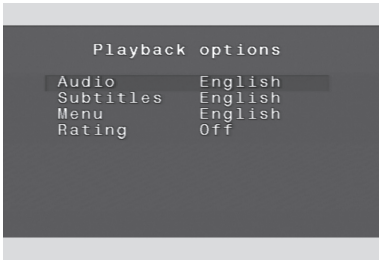
DVD-Video discs are capable of providing a wide range of options and special features. This chapter explains how to use the options on the **Setup** menu to configure the playback options of the DVD system.

Setting playback options

To display the playback options

- Highlight **Playback options...** in the **Setup** menu, and press **Enter**.

The **Playback options** menu lets you change the default language for the audio soundtrack, subtitles, and on-screen menus, and the parental rating:



To select the default soundtrack language

Most DVD-Video discs include a selection of soundtrack languages. English is usually the default soundtrack language, but you can use the **Audio language** menu to set a different default language if you prefer.

- Highlight **Audio** in the **Playback options** menu, and press **Enter**.

The **Audio language** menu is displayed:



- Press ◀, ▶, ▲, or ▼ to highlight the default soundtrack language you want to use, or select **Original** to choose the original soundtrack language, and press **Enter**.

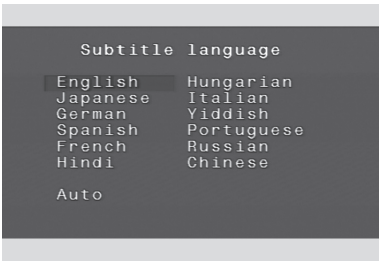
To set the default subtitle language

DVD-Video discs can include subtitles in up to 32 different languages.

The DVD system allows you to select whether subtitles are displayed by default, and specify the preferred language if it is available on the disc.

- Highlight **Subtitles** in the **Playback options** menu, and press **Enter**.

The **Subtitle language** menu is displayed:



- Press ◀, ▶, ▲, or ▼ to highlight the language you want to use, and press **Enter**.

Alternatively, select **Auto** to automatically display subtitles in the specified audio language if no soundtrack is available for that language.

To select the disc menu language

The DVD system allows you to choose the language for the disc menus.

- Highlight **Menu** in the **Playback options** menu and press **Enter**.

The **Menu language** menu is displayed:



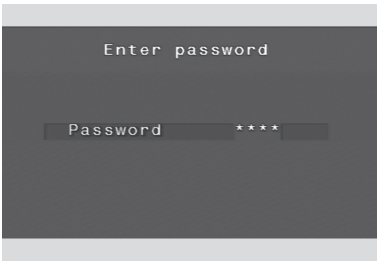
- Use ◀, ▶, ▲, or ▼ to highlight the language you want to use, and press **Enter**.

To set the parental lock

Some DVD-Video discs are provided with a parental lock function to allow you to lock out playback of scenes whose content exceeds a specified rating until a password is entered.

- Highlight **Rating** in the **Playback options** menu and press **Enter**.

The **Enter password** screen is displayed:



- Enter your four-digit password and press **Enter**.

Initially the password is set to 7890, but you can change it to any password you choose as described in *To change the password* on this page.

The following screen then allows you to set the rating level:



- Press **▲** or **▼** to highlight the rating level you want to set, or highlight **Off** to turn the parental lock off, and press **Enter** to select it.

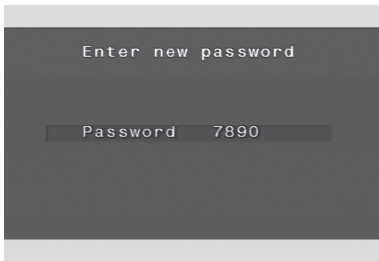
Level 1 corresponds to general viewing, level 3 is equivalent to the USA movie rating PG, and level 8 corresponds to adult viewing.

The rating level you have set will be displayed in the **Playback options** menu.

To change the password

- Highlight **Change password** on the **Set rating level** screen and press **Enter** to select it.

The following screen allows you to specify the new password:



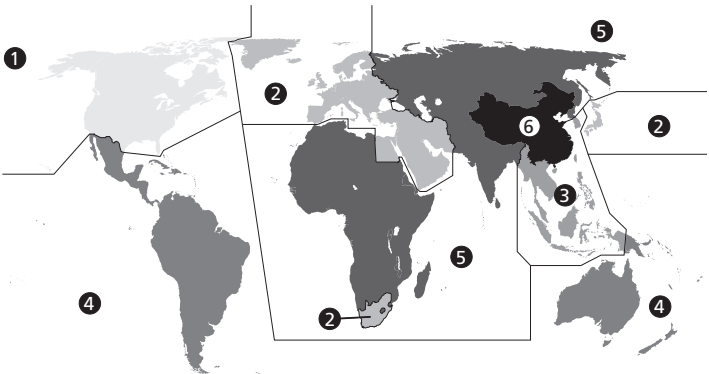
- Enter the four-digit password you want to use and press **Enter** to select it. The password cannot start with a zero.

Take care not to forget your password, or you will need to contact your Meridian dealer to reset it for you.

Region codes

For commercial reasons many DVDs are encoded with one or more region codes to identify the countries in which they can be used. Every DVD player is assigned a region code to determine which discs it can play.

The different parts of the world are divided into regions 1 to 6 as shown in the following diagram:



- 1 – USA, Canada
- 2 – Europe, Near East, South Africa, Japan
- 3 – South East Asia
- 4 – Australia, Central & South America
- 5 – Africa, Asia, Eastern Europe
- 6 – People’s Republic of China

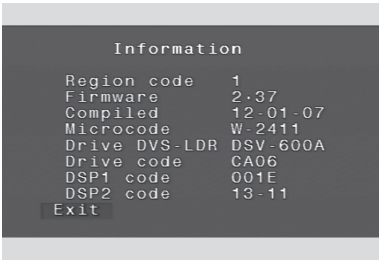
If you try to play a disc which is assigned to the incorrect region code then either a special screen or the warning **WRONG REGION CODE** will be displayed.

The **Information** screen shows the region code, and other information which depends on the product version:

To change your DVD system’s region code please contact your dealer.

To check your DVD system region code

- Highlight **Information...** in the **Setup** menu, and press **Enter** to select it.



Troubleshooting

We expect you to achieve superb results with the DVD system. If, however, you encounter any problems, either when installing and configuring it, or during operation, please check the following pages for suggested solutions.

If these suggestions fail to cure the problem, please contact your Meridian dealer for further assistance.

General operating problems

The DVD system will not play a particular disc

Although we have made every effort to ensure complete compatibility with all supported disc types, it is impossible to check the correct operation of every function of the G95 with every available disc; furthermore, some discs currently on sale do not conform to the agreed format specifications. We cannot therefore accept any responsibility for discs that will not play correctly, even if they play correctly on other brands of player.

- The disc may be scratched or faulty. Examine it for damage, and try playing it on another product.
- There are several Web sites that give details of discs with known playback problems. Please check these to see if your disc is listed.

No lights are displayed when switching on

- Check that the AC power supply is connected correctly.

- Check that the **ON OFF** switch on the back panel is in the **ON** position.
- Press **Display** to check that the display is not blank.

A question-mark symbol is displayed on the on-screen display

This indicates that the function you have selected is not currently available on the disc you are playing.

The on-screen display shows PLEASE CHECK DISC when attempting to play a disc

- Check that the disc is positioned correctly in the tray.
- If it is a single-sided disc check that the label is uppermost.
- Check that the disc is clean and free of debris.
- Try playing another disc. If this disc works, check the problem disc for signs of dirt or damage.

The on-screen display shows WRONG REGION CODE

This indicates that you are attempting to play a DVD-Video disc encoded for a region that is not supported by your DVD system.

The DVD system unexpectedly switches from pause to stop, or fades the screen to black

This is caused by the pause or stop timeouts.

The pause timeout automatically switches the DVD system from pause into stop mode if no key has been pressed for the specified time.

The stop timeout automatically fades the screen to black if the DVD system is left in stop mode and no key has been pressed for the specified time.

There is interference on the radio and/or television when the DVD system is switched on

Before following the steps below, ensure all units are switched off.

If this equipment does cause or suffer from interference to/from radio or television reception then the following measures should be tried:

- Reorient the receiving aerial (or antenna) or route the antenna cable of the receiver as far as possible from the DVD system and its cabling.
- Ensure that the receiver uses well-screened antenna cable.
- Relocate the receiver with respect to the DVD system.
- Connect the receiver and this product to different AC outlets.

Audio problems

There is no sound when playing a disc

- Check that your preamplifier is switched on, and the volume is at an appropriate level.
- Check that the DVD system is connected correctly to the other components of your system; see *Installing the DVD system*, page 31.
- Check that the correct source has been selected on your preamplifier.
- Try playing another disc. If this disc works, check the problem disc for signs of dirt or damage.
- Check that the correct option has been selected in the **Application** menu; see *DVD system application*, page 52.

There is no sound from the loudspeakers and the display shows HOT

The G95 includes a thermal shutdown, which mutes the output if the amplifier becomes too hot.

- Leave the G95 for a few minutes to cool down; the Standby LED will turn blue.

Video problems

There is no picture

The G95 includes video switching, so each source can be associated with a video input or the internal DVD.

- Select the DVD source.

To associate the internal DVD with another source see *Configuring the sources*, page 56.

Problems with high definition television sets

Not all high definition television sets are fully compatible with this product and may cause artefacts to be displayed in the picture. In case of problems switch to the standard definition output.

The video picture is monochrome

Check your video cabling.

Problems with fixed-matrix displays or DLP projectors

If you have a fixed-matrix display like a DLP projector, an LCD display or a plasma, use 720p for best results.

Picture whites appear green or picture is bright pink

Ensure that the HDMI colour space setting agrees with the display's HDMI colour space setting.

I get the logo screen but I cannot watch discs on my DVI display

Your display device must support the HDCP encryption standard in order to display copy-protected DVD content.

The screen is blank and the display shows HDCP ERROR

This means that HDCP encryption has failed. This can happen if:

- The G95 is connected to a display using HDMI (or HDMI to DVI) and the display does not support HDCP encryption
- The cable is too long and is causing dropouts.

There are sparkles on the display

This can be caused by using HDMI with a cable which is too long. An HD121 or HD421 can improve or fix this.

FM tuner problems

FM tuner reception is poor

To obtain high-quality stereo reception on FM a good aerial is essential. Try positioning the aerial at different points in a room; generally performance is best high up and near a window.

In some areas an external fixed aerial will be necessary. This can be placed in a loft or mounted externally.

RDS station names are not being received

Not all stations transmit the station name in all areas, and RDS will only be received if the signal strength is good.

If the station name is not available you can define a preset station with a name; see *To define an AM/FM preset station*, page 20.

AM tuner problems

AM tuner reception is poor

Position the antenna to maximise the strength of the station you want to receive and to reduce interference from other stations on nearby frequencies.

Position the antenna away from items that generate electrical interference, such as fluorescent tubes or televisions.

DAB tuner problems

The display shows “No signal”

This indicates that the tuner cannot locate a signal for the selected service.

- Check that the antenna is connected correctly and reselect a service.

You may need to use a better aerial.

This may also indicate that a stored ensemble is no longer available, either because the tuner has been moved to a different area of the country, or because the transmission has ended.

- Perform a scan to rebuild the list of services.

The display shows “Weak signal”

This indicates that the reception is poor.

- Try moving the aerial to improve reception, or fit a better aerial.

The display shows “No Services”

This indicates that a list of available services has not been built.

- Perform a scan to build a list of available services.

Creating MP3 discs

MP3 discs can be created from a computer using appropriate MP3 encoding software and a CD-ROM writer.

Generate the MP3 files with a data rate of at least 128kbits per second. Group the tracks into folders to create separate albums on the disc. Do not create folders within the folders.

Tracks and albums are played in the order in which they are recorded onto the CD-ROM. Usually this will be in alphabetical order of filename. To determine the playing order prefix the track and album names with 01, 02, 03 etc, and sort the list into alphabetical order before making the CD-ROM.

If artist and album names are stored in each file’s ID3 tags, these can be displayed on the DVD system’s front-panel display.

Maintenance

Troubleshooting

Cleaning

To clean the case, display panel, and keypad

- Disconnect the power cord before cleaning the unit.

The exterior surfaces of Meridian G Series products are made from solid anodised aluminium, powder coated steel, thermoplastic rubber, and glass.

They are designed to be easily wiped clean with a dry, lint free cloth. Greasy marks should be removed by light rubbing with a slightly damp cloth and a trace of proprietary glass cleaner. Do not use any other solvent or abrasive based cleaners. Dust can be removed from the disc drive tray with a small dry brush when the drawer is open.

Ensure that no liquid enters the casework and that the product is completely dry before re-connection.

To clean the audio and video connections

The audio and video sockets on the back of the product are gold plated and do not need to be cleaned if gold-plated phono plugs are used. Otherwise, it is recommended that you unplug and reconnect the plugs at least once a year. A proprietary contact cleaner can be used to some advantage.

The electrical digital output should be treated in a similar way.

To change the mains fuse

- Remove the mains connector, and pull out the drawer above the power input to access the fuse.

Before replacing a blown fuse, it is best to ascertain the cause of the failure.

The fuse drawer includes a spare fuse. This should be replaced by a fuse of the same rating.

Service and guarantee

Service

The Meridian G Series of hi-fi components has been carefully designed to give years of untroubled service. There are no user-serviceable parts inside the case, nor do the units require any form of maintenance.

In the unlikely event that your product fails to function correctly, it should be returned, in its original packaging, to your Meridian dealer.

In case of difficulty within the UK or USA please contact the appropriate sales and service address shown on page iv.

In case of difficulty outside the UK or USA, contact the importing agent for the territory. A list of Meridian agents outside the UK is available from Meridian Audio.

No responsibility can be accepted for the product whilst in transit to the factory or an agent, and customers are therefore advised to insure the unit. When seeking service under guarantee, proof of the date of purchase will be required.

Guarantee

The product is guaranteed against defects in material and workmanship for two years from the date of purchase.

The guarantee is void if the product has been subject to misuse, accident, or negligence, or has been tampered with or modified in any way without the written authorisation of Meridian Audio Limited. **Note:** Connecting anything other than the correct network lead to the COMMS sockets may cause damage to the product which will not be covered by this guarantee. Attempted servicing by unauthorised people may also invalidate this guarantee. Labour and carriage charges are not covered unless by local agreement.

Outside the UK, local warranty liability is restricted to equipment purchased within the territory. Our agents outside the UK are only under contractual obligation to service under-guarantee equipment sold through them. They are entitled to make a non-refundable charge for any service carried out on other equipment.

This guarantee does not limit your statutory rights within the country of purchase.

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