

G96 DVD Player Installation 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 G Series DVD Player 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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Copyright and acknowledgements

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Introduction

This guide provides full information about unpacking the DVD player, connecting it to the other equipment in the system, and configuring it using the front panel. Once you have connected and configured the DVD player, refer to the *G Series System Guide* for information about operating it.

The G96 DVD Player

The G96 DVD Player can play audio-CDs, MP3 CDs, Video CDs, and DVD-Video discs. It can decode Dolby Digital, DTS, MPEG, and MP3 data streams to PCM for stereo, and in some cases multichannel, playback. It can also optionally output Dolby Digital, DTS, and MPEG bitstreams for connection to a surround controller (Type 2; see page 8).

Audio

The G96 DVD Player provides three principal S/PDIF coax outputs designated L/R, L/R Surround, and C/LFE. These typically connect to Meridian processors, or feed a stereo signal to a pair of DSP loudspeakers. If configured for MHR SmartLink they carry high-sample rate encrypted data from DVD discs for the highest fidelity of decoding and reproduction. The SmartLink also informs a downstream Meridian processor of the signal source, so that it can switch processing modes automatically.

It also provides an additional Aux S/PDIF digital output which delivers a stereo downmix or bitstream signal.

The G96 is designed for use with a surround controller with multichannel digital inputs (G96 Type 3/4/5; see page 8). Alternatively, it can be connected to a pair of DSP loudspeakers to create a complete high-quality two-channel DVD system (Type 1; see page 7).

Video

The G96 includes a powerful video processor and scaler which can simultaneously provide composite and S-video outputs, plus progressive component video and up to 1080p on an HDMI output. It provides two composite, three S-video, and one interlaced component video input, all of which can be routed to any of the video outputs with appropriate scaling.

Features

DVD-ROM drive

At the heart of the G96 DVD Player 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.

Unlike other players that use a mechanical approach to try to lower jitter by minimising drive vibration, the G96 employs a triple buffering system to minimise jitter, maximizing HF transparency and sound stage precision and stability. The result of this sophisticated effort is that the players deliver ultra-low jitter, with sound and picture quality second only to 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 is accurately re-clocked. Multiple power supplies ensure that digital and analogue circuitry are kept separate.

User interface

The G96 DVD Player includes a comprehensive front-panel user interface which allows access to all the features of the unit. The players can be reset to a standard Type which configures all the required settings as appropriate for a particular application. 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 back panel. The serial port also allows full remote control and configuration of the unit.

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 optimised, ensuring that the G96 DVD Player delivers breathtakingly clear pictures.

Video processor/scaler

The G96 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 G96 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 G96 directly supports the Meridian HDMax 421 four-

into-one HDMI switch box, which permits source selection on the G96 to switch HDMI inputs seamlessly via the 421.

Specifications

Digital outputs	MHR SmartLink digital output on 3 digital coax outputs or 15-pin D-type connector. Aux digital coax output.
Video outputs	Composite, S-video, component (75 Ω), and HDMI outputs (HDCP-compatible, also carries 2/6-ch/bitstream audio), all simultaneously active. Selected video input is converted to all formats at valid resolutions. HDMI port supports 480p, 576p, 720p, 1080i, and 1080p. Analogue component out is available at 480p and 576p (plus 1080i component pass-through).
Video inputs	One component interlaced, two composite, and three S-video. Progressive/high definition component in will be switched to component out but is not scaled or converted to S-video, composite, or HDMI.
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.
Trigger output	12V, 100mA, configurable by source.
Comms	Two 5-pin 240° DIN sockets, BNC socket, RS232 interface.
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	Universal supply, 100-240VAC, 50/60Hz, 25VA.
Dimensions	440mm x 90mm x 350mm (17.32" x 3.54" x 13.78") WHD.
Weight	9kg (20lb) approx.
Controls	Front-panel soft keys include control of Play, Stop, Pause, Previous, Next, etc. Power button, Open/Close tray button, volume control. Full remote control of all features via MSR+.
Display	Multi-character dot-matrix Vacuum Fluorescent Display (VFD). Switchable custom OSD allows instant review of disc status. Screen saver with user timeout options. Logo screen with pluge bars enables brightness setting of display device.

Installing the DVD player

This chapter explains how to install the DVD player. 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 G96 DVD Player is supplied with the following accessories:

- MSR+ remote control with batteries, manual, and spare key caps.
- Meridian Comms lead.
- Three BNC-Phono adaptors.
- Power cord.
- This manual.
- *Meridian G Series System Guide*.

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

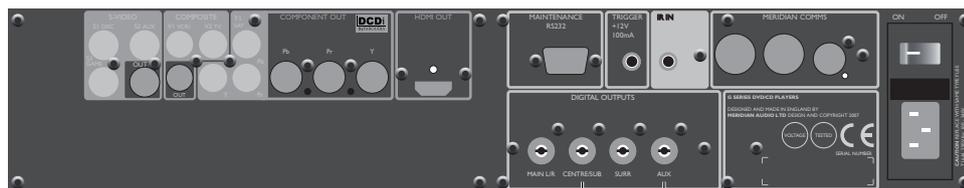
Note: You should retain the packaging in case you need to transport the unit.

Audio connections

The G96 provides a multichannel digital output for connection to a surround controller with multichannel inputs, such as the G68.

In addition, it provides a digital auxiliary output, suitable for connecting to a pair of Meridian DSP loudspeakers or a surround controller.

Multichannel digital output



Multichannel digital outputs

AUX Digital output

Use this output

MAIN DIGITAL OUT (L/R)

MAIN DIGITAL OUT, C/LFE,
SURROUND

AUX DIGITAL OUT

To connect to this

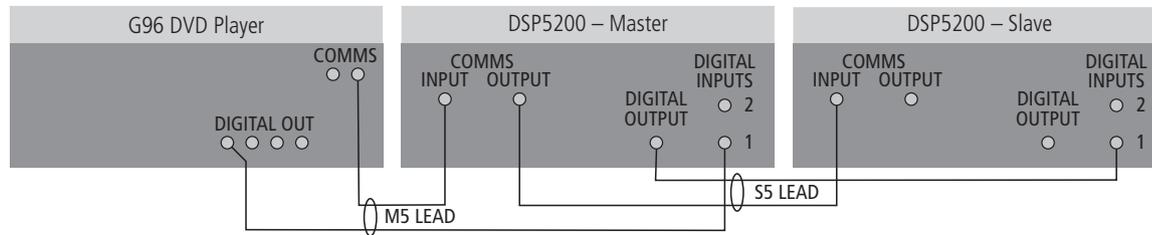
The digital input of a surround processor without multichannel digital inputs, or a pair of DSP loudspeakers.

The multichannel digital input of a digital surround processor such as a G68 or 861.

The digital input of an additional surround processor or a pair of DSP loudspeakers, when the main output is being used for multichannel audio.

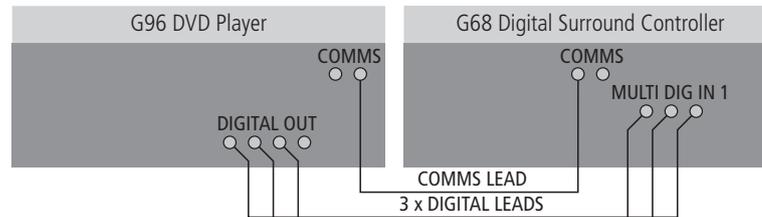
Applications

To connect to two-channel DSP loudspeakers (Type 1)



The G96 DVD player can be connected directly to Meridian DSP loudspeakers to create a complete compact stereo system, with volume and other preamplifier controls provided by the loudspeakers via the MSR+ or the front panel.

- Connect the MAIN DIGITAL OUT L/R and a COMMS socket from the DVD player to DIGITAL INPUT 1 and the COMMS input on the DSP loudspeaker chosen as the master, using an M5 lead.
- Connect the DIGITAL and COMMS outputs from the master DSP loudspeaker to DIGITAL INPUT 1 and the COMMS input on the other (slave) DSP loudspeaker, using an S5 lead.
- Configure the loudspeakers as described in the *Meridian DSP Loudspeaker User Guide*.
- Configure the DVD player to Type 1; see *Resetting the DVD player*, page 17.

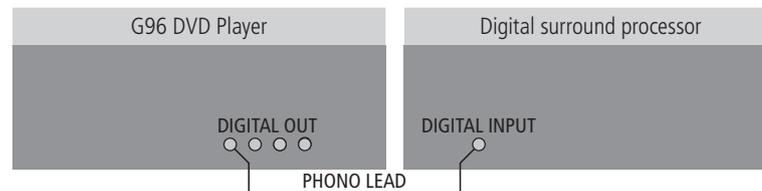
To connect the G96 to a surround processor with multichannel digital inputs eg G68 (Type 3/4/5)

The multichannel digital output is the preferred way of connecting to a 96kHz and MHR capable Meridian digital surround processor, such as a, G68, or 861, as it provides additional MHR SMART LINK information about the source format.

- Connect the MAIN DIGITAL OUT L/R, C/LFE, and SURROUND outputs from the G Series DVD player to the digital multichannel inputs on the G68, using three phono leads.

If the surround processor is a Meridian product connect together the COMMS socket using the Comms lead provided.

- Configure the DVD player to Type 3, 4 or 5, depending on the video configuration; see *Resetting the DVD player*, page 17.

To connect to a surround processor with no multichannel input (Type 2)

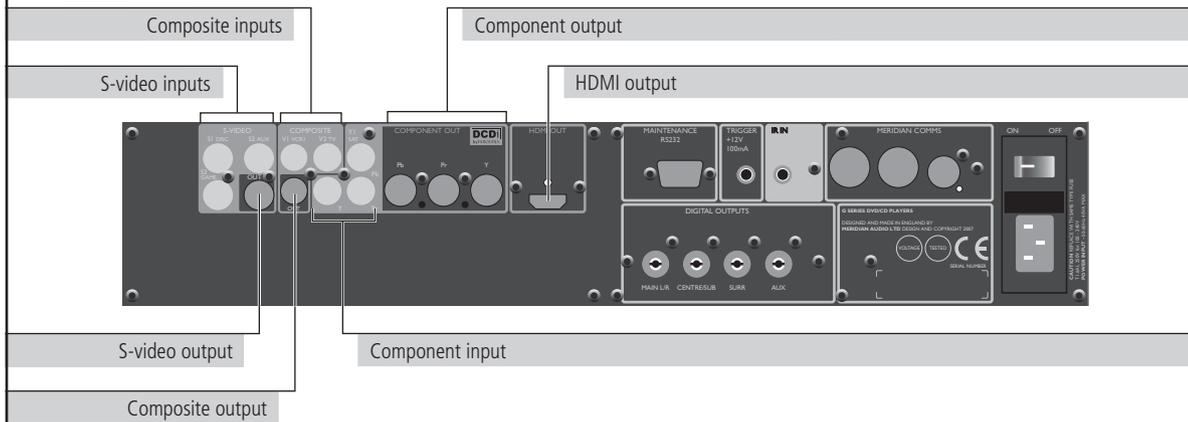
If your digital surround processor does not provide a multichannel input, and is 48kHz max with no MHR:

- Connect the MAIN DIGITAL OUT L/R to the DIGITAL IN on the digital sound processor.

If the surround processor is a Meridian product connect together the COMMS sockets using the Comms lead provided.

- Configure the DVD player to Type 2; see *Resetting the DVD player*, page 17.

Video connections

**Video outputs****Use this output**

HDMI OUT
COMPONENT OUT
S-VIDEO OUT
COMPOSITE OUT

To connect to this

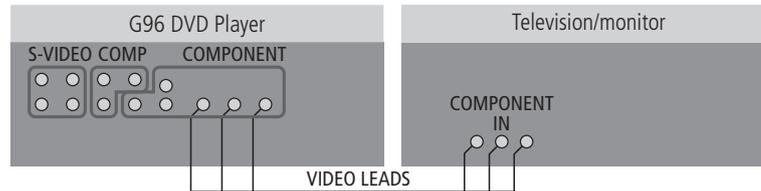
The HDMI input on a monitor or high-definition television.
The component or progressive component video inputs on a monitor or projection television.
The S-video input on a monitor or television.
The composite video input on a monitor or television.

Video inputs**Use this input**

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

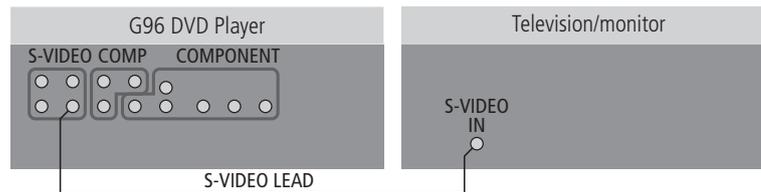
To connect to this

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 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.

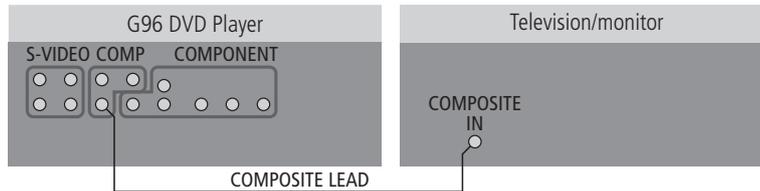
- Connect the appropriate component outputs from the DVD player to the component video inputs, using suitable video cables.

To connect 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.

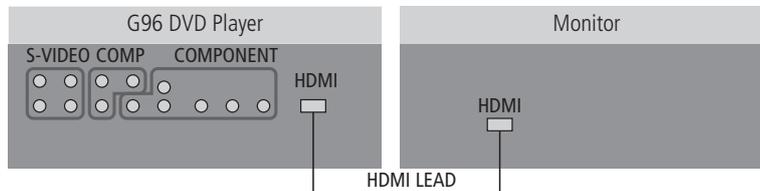
The S-video output is always active, irrespective of the **Video output** setting.

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

To connect using composite video

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

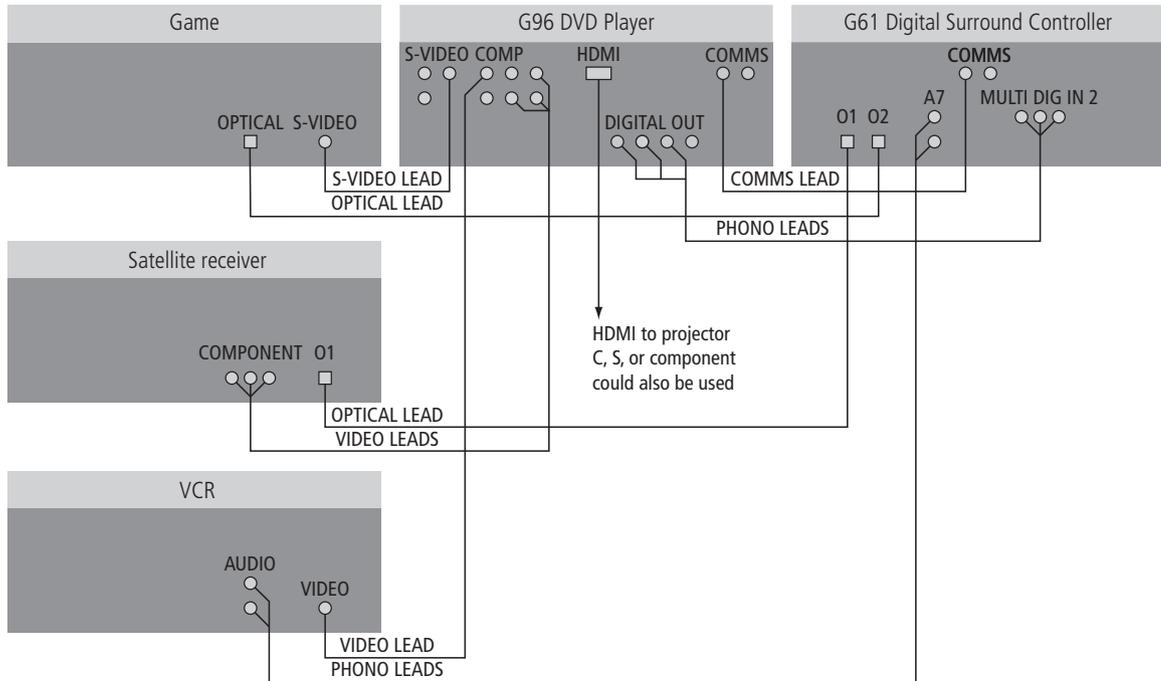
The composite video output is always active, irrespective of the **Video output** setting.

To connect 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.

To connect to a G61 with video switching in the DVD player (Type 3)

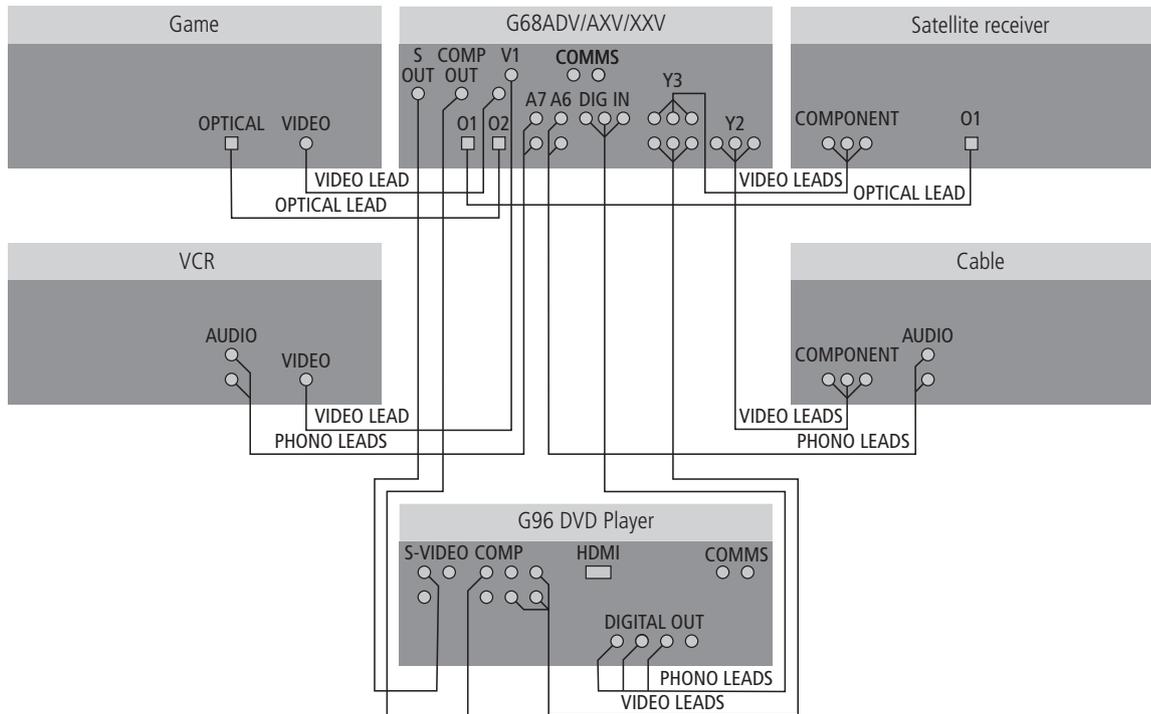


The G96 DVD player can be used in combination with a Meridian digital surround controller, such as the G61, to create a superb audio/video system, using the video switching and format conversion provided by the DVD player to handle the video, and the audio switching provided by the G61 to handle the analogue and digital audio.

- Connect the video sources to the COMPOSITE IN, S-VIDEO IN, and COMPONENT IN sockets on the DVD player.

- Connect the audio sources to the DIGITAL IN and ANALOGUE IN sockets on the G61.
- Connect the appropriate output from the DVD player to your display device.
- Connect together the COMMS sockets of the DVD player and G61 using the Comms lead provided.
- Configure the DVD player to Type 3; see *Resetting the DVD player*, page 17.

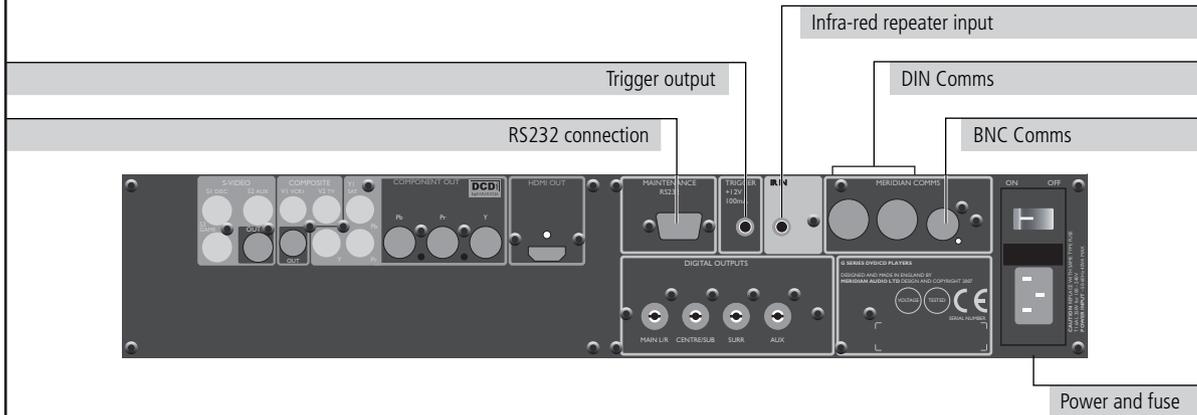
To connect the G96 to a G68ADV/AXV/XXV with video switching in the G68 and scaling in the G96 (Type 4)



If you are using the G96 in conjunction with a G68ADV, AXV, or XXV Digital Surround Controller, you can perform video switching in the G68 but take advantage of the video format conversion and scaling in the G96 to drive the display device.

- Connect the composite, S-video, and component outputs from the G68 to the corresponding inputs on the G96.
- Connect the video sources to the COMPOSITE IN, S-VIDEO IN, and COMPONENT IN sockets on the G68.
- Connect the appropriate output from the G96 to your display device.
- Connect together the COMMS sockets of the G96 and G68 using the Comms lead provided.
- Configure the G96 to Type 4; see *Resetting the DVD player*, page 17.

Communications connections

**Use this connection**

DIN COMMS

BNC COMMS

RS232 connection

IR IN

TRIGGER OUTPUT

To connect to this

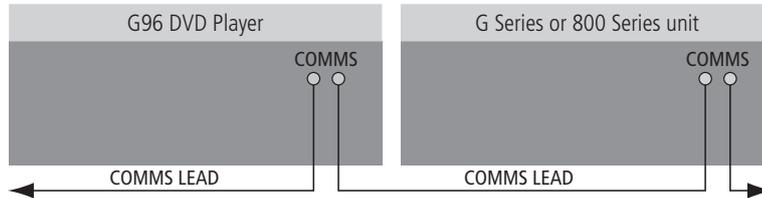
Other Meridian G Series or 800 Series equipment, or Meridian DSP loudspeakers.

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 (8VDC on G02). 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 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 17, and *Configuring settings*, page 32. 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 or 800 Series to the socket marked COMMS on the back of the product.

Resetting the DVD player

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

Resetting the product

The DVD player 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 player into standby.
- Press **More**.

The display shows:



- Press **Reset**.

The display shows:



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

The display shows the current Type:



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

Resetting the DVD player

A description of each Type is shown on the top line of the display. As you select each Type the DVD player 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 player 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 player 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	Video switching	See page
Type 1	2-channel DSP loudspeakers.	Yes.	7
Type 2	Surround processor not multichannel or 96kHz-capable.	Yes.	8
Type 3	Multichannel processor.	Yes.	12
Type 4	Multichannel processor.	In surround controller.	13
Type 5	Multichannel processor.	No.	8

Configuring the DVD player

This chapter explains how to configure the DVD player 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 player.

To use the on-screen **Setup** menus you need to have a suitable display connected to an appropriate output on the DVD player; see *Video connections*, page 9.

To display the Setup menus

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

```

      -  -:-:-:-:-
Return  Top Menu Setup
  
```

- Press **Setup**.

The display then shows:

```

OSD Setup
Exit Return ▾ ▲ Enter
  
```

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

```

Meridian G96 Setup

Video setup_
Audio setup_
Source setup_
Meridian setup_
Playback options_
Information_
  
```

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 player.

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

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



To specify your display format

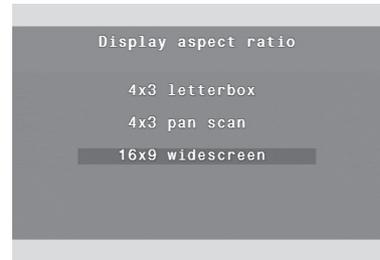
You should set the **Display aspect** option to the format that your display can accommodate.

Select 16:9 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 4:3 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 player 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 player 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 player 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.

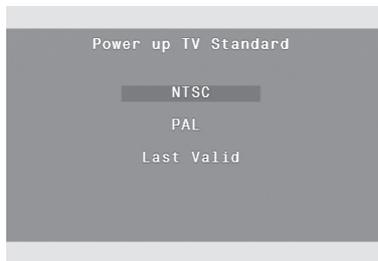
If your television is capable of displaying both formats the recommended setting is **Auto**, which supplies the unconverted video signal to the television.

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 player out of standby:

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

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

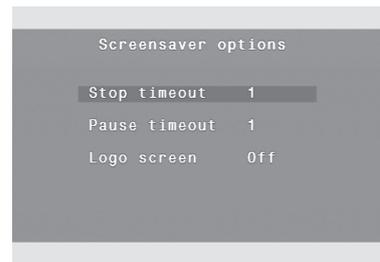


- Press **▼** or **▲** to highlight the option you want, and press **Enter**.

To select the screensaver options

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

The **Screensaver options** menu is displayed:



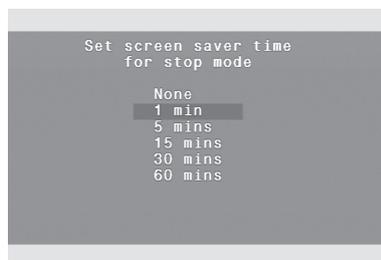
These options allow you to ensure that a static image does not remain on the display, thus avoiding damage to certain types of display.

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

The **Pause timeout** automatically switches the DVD player 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:

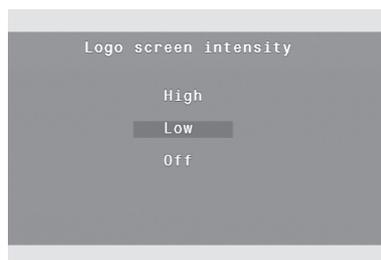


- Press ▼ or ▲ to select the timeout delay, and press **Enter**.

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 player 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**:

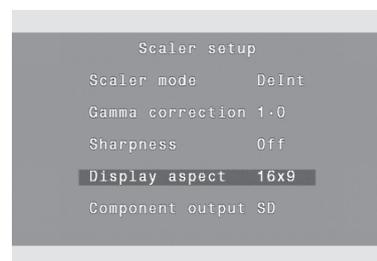


To set the scaler options

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 High Definition standard 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.

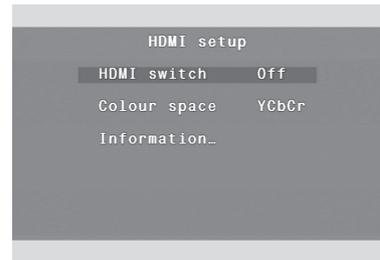
Display aspect allows you to perform aspect ratio conversion on the scaled outputs; ie progressive analogue or HDMI. Set **Display aspect** to the shape of your screen, or **Native** to disable aspect ratio conversion.

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 **YCbCr**.

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 player.

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

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



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

The **Application** menu is displayed:



These are explained in the following table:

DVD player 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 7.

Select this option	For this application
Aux	To connect the DVD player to a pair of DSP loudspeakers or a digital surround controller via the AUX DIGITAL output.
Main 2Ch	To connect the DVD player to a pair of DSP loudspeakers or a digital surround controller via the L/R MAIN DIGITAL output.
Main MCh	To connect the DVD player to the multichannel inputs of a Meridian digital surround controller via the L/R, C/LFE, and SURR MAIN DIGITAL outputs.
HDMI 2Ch	To connect the DVD player to a 2-channel HDMI receiver.
HDMI MCh	To connect the DVD player to a multichannel HDMI receiver.

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**.

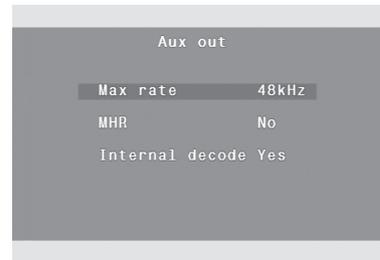
Choose **Compress off** for no Dolby Digital audio compression, **Loud cut** to reduce the level of loud passages, **Quiet boost** to increase the level of quiet passages, or **Compress max** for both low boost and high cut.

Auxiliary output settings

To specify the auxiliary output settings

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

The **Aux out** menu will be displayed:

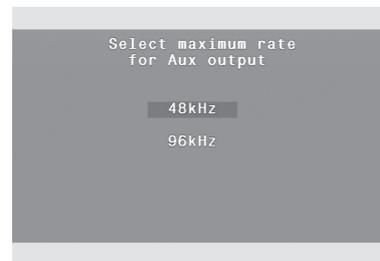


To specify the maximum sampling rate for the auxiliary output

This option allows you to specify the maximum sampling rate that the equipment connected to the auxiliary digital output can accept.

- Highlight **Max rate** in the **Aux out** menu, and press **Enter**.

The following menu is displayed:



- Press ▼ or ▲ to choose between **48kHz** and **96kHz**, and press **Enter**.

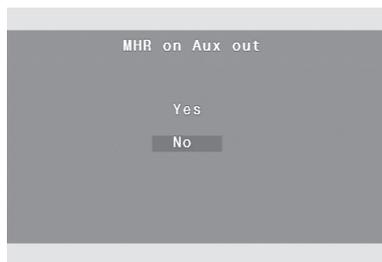
When playing audio at higher rates it will be downsampled to the rate you have specified.

To select Meridian High Resolution on the auxiliary output

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

- Highlight **MHR** in the **Aux out** menu, and press **Enter**.

The following menu is displayed:



- Press ▼ or ▲ to select **Yes** or **No**, and press **Enter**.

If you are connecting the Aux output to a Meridian product that is MHR compliant, such as DSP loudspeakers, select **Yes**; otherwise select **No**.

To select internal decoding on the auxiliary output

- Highlight **Internal decode** on the **Aux out** menu, and press **Enter**.

The following menu is displayed:



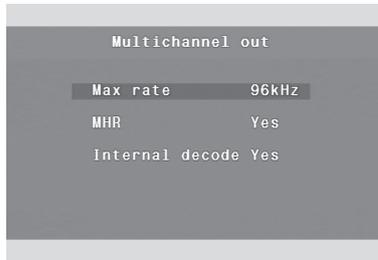
- Choose **No** if you are connecting the AUX output to a Meridian digital surround controller.

Multichannel output settings

To specify the multichannel output settings

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

The **Multichannel out** menu will be displayed:



To specify the maximum sampling rate

This option allows you to specify the maximum sampling rate that the equipment connected to the main outputs can accept.

- Highlight **Max rate** in the **Multichannel out** menu, and press **Enter**.

The following menu is displayed:



- Press **▼** or **▲** to choose between **48kHz** and **96kHz**, and press **Enter**.

Choose the appropriate rate for the product your DVD player is connected to.

When playing audio at higher rates it will be downsampled to the rate you specified.

To select Meridian High Resolution on the multichannel output

- Highlight **MHR** in the **Multichannel out** menu, and press **Enter**.

The following menu is displayed:



- Press **▼** or **▲** to select **Yes** or **No**, and press **Enter**.

If you are connecting the multichannel output to a Meridian product that is MHR compliant, such as the G68, select **Yes** to take advantage of MHR; otherwise select **No**.

To select internal decoding for the multichannel output

- Highlight **Internal decode** in the **Multichannel out** menu, and press **Enter**.

The following menu is displayed:



- Choose **Yes** if you are connecting the multichannel outputs to a Meridian digital surround controller.

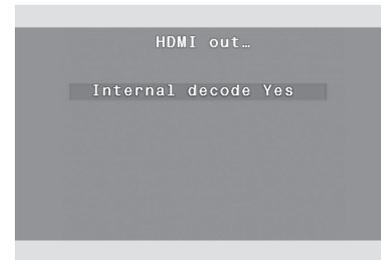
Note that in surround mode the multichannel outputs will always decode the bitstream, regardless of this setting.

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:



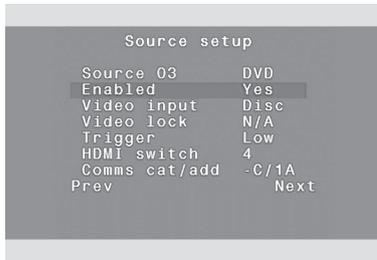
- Set **Internal decode** to **No** if you are connecting the HDMI output to a bitstream-capable HDMI receiver.

Configuring the sources

If you are using the DVD player 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.
Video input	V1-V2, S1-S3, Y1, Bypass, Disc	Video input used for the source.
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.
Comms cat/add	-C, 1C-9C, NC/1A-8A	Allows you to set the Comms category and address.

Configuring settings

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

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 player 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 player controls the main volume, volume in a two-room system, or has independent volume control.
Vol display	No, Yes	Specifies whether the DVD player displays the volume for the system.
Advanced OSD	Off, On	Shows playback statistics in the OSD bar.
Timeout To Home	Off, On	Sets a 30s timeout for the front-panel display to return to Home.

Configuring playback options

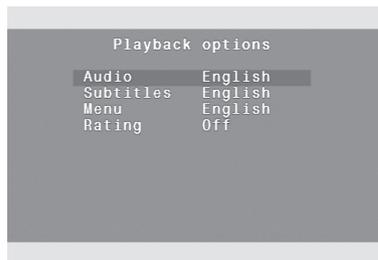
DVD-Video discs are capable of providing a wide range of options and special features. This chapter explains how to use the options on the **Setup** menu to configure the playback options of the G96 DVD Player.

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 player 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 player 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:



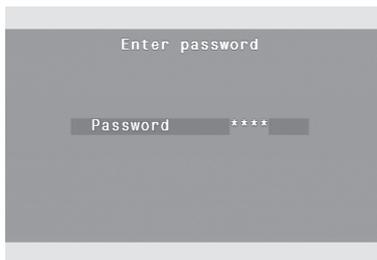
- Use ◀, ▶, ▲, or ▼ to highlight the language you want to use, and press **Enter**.

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*, page 36.

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.

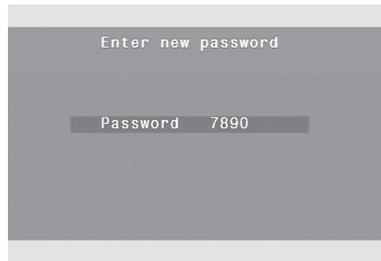
Level 1 corresponds to general viewing, level 3 is equivalent to the USA movie rating PG, and level 8 corresponds to adult viewing.

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:



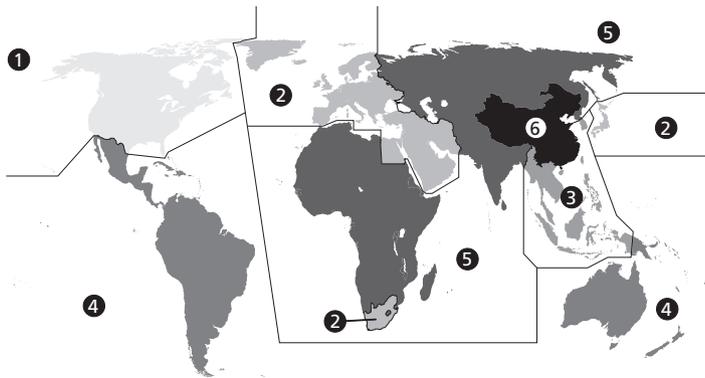
- Enter the four-digit password you want to use and press **Enter** to select it. The password cannot start with a zero.

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 player's region code please contact your dealer.

To check your DVD player region code

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

```

Information
Region code  1
Firmware     1.0
Compiled     06-08-03
Microcode    W-2411
Drive DVS-LDR DSL-720A
Drive code   LV16
DSP1 code    10
Exit
  
```

Video controls

The G96 DVD Player includes several video controls to allow you to adjust the video image. The video controls are available for video sources, and the picture position controls are also available for the internal DVD.

Note: The menus do not appear unless you have a locked video input.

To display the video controls

Either:

- Press **More** until **Video** is displayed.
- Press **Video**.

Or:

- Press the red ● key on the MSR+.

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

The display shows the first video control, Film on/off:



To select the video control

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

To adjust the current control

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

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

The following table shows the full list of video controls:

Display	Description
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).

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

†Only for external video sources.

To change the image aspect ratio

With correctly authored DVDs the DVD player will automatically select the correct scaling. For external inputs or incorrectly authored DVDs you can specify the aspect ratio of the image by pressing the green ● key on the MSR+ to cycle through the following options:

Option	Description
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.

Troubleshooting

We expect you to achieve superb results with the DVD player. 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 player 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 G Series DVD players 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 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 player.

The DVD player 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 player 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 player is left in stop mode and no key has been pressed for the specified time.

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

- 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.

There is interference on the radio and/or television when the DVD player 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 player and its cabling.

- Ensure that the receiver uses well-screened antenna cable.
- Relocate the receiver with respect to the DVD player.
- 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 player is connected correctly to the other components of your system; see *Installing the DVD player*, page 5.
- 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 player application*, page 26.

Video problems

There is no picture

The G Series DVD players include 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 31.

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.

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 player's front-panel display.

Maintenance

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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