



## 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 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**

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

### To avoid interference

Do not position the unit:

- Near strong magnetic radiation.
- 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 unit:

- In direct sunlight.
- Near heat sources, such as a radiator.
- Directly on top of heat producing equipment, such as a power amplifier.

### 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.

**EU:** 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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### Designed, manufactured in the UK

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## About your Meridian DSP loudspeakers

These instructions provide information about unpacking, connecting up, configuring, and using your Meridian 3100 DSP loudspeakers. They apply to the DSP3100 left and right loudspeakers, and the DSP3100HC horizontal centre loudspeaker.

### Introduction

Meridian DSP loudspeakers represent the fruits of more than 25 years of continuous development of loudspeakers as musical instruments. The finest materials and state-of-the-art design are combined to create what we believe is the ultimate range of home loudspeakers.

### Digital Signal Processing

Digital Signal Processing, or DSP, is a technique pioneered by Meridian in hi-fi products for achieving extremely accurate reproduction of audio signals using high-precision mathematical processing.

DSP allows sophisticated processing to be performed without any of the cumulative noise or degradation that inevitably occurs, even with high-quality analogue circuitry. In addition, the signal improvement techniques incorporated in the Meridian DSP loudspeakers would be virtually impossible to implement in the analogue domain.

If you are using the Meridian DSP loudspeakers with a digital source, such as CD or DVD, the signals remain in digital form until the last possible stage.

### Power amplifiers

The speakers are driven by multiple independent high-power, low-feedback power amplifiers. The combination of idealised magnetic design, careful star earthing, and very fast output devices gives the amplifiers extremely low noise, high detail, and fast bass.

The whole electronic assembly is supplied from substantial toroidal transformers feeding high-quality, audiophile-grade capacitors.

### Meridian Comms

Meridian DSP loudspeakers are part of the Meridian family of advanced digital, analogue, and video components, and these incorporate a sophisticated communications link, to allow you to control any combination of units using a single remote, and ensure that they will work together as a fully integrated system.

## Unpacking your speakers

Before you begin installation you should ensure that your DSP loudspeakers are the correct voltage for your local AC supply. If they are not, do not try to install them, and contact your dealer.

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

### Components

Each DSP loudspeaker system is supplied with the following components:

- One power cord per speaker.
- Meridian M5 lead (8m).
- Meridian S5 lead (8m).

If any of these items is missing please contact your dealer. We suggest that you retain the packaging carefully for maximum protection in transit.

### Removing the grilles

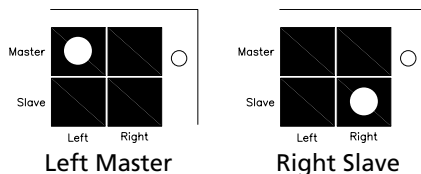
DSP3100: The grille is held tightly in place by the side metal plates. Gently pull it from the top edge, taking care not to scratch the high-gloss lacquer, then pull it gently from the sides and then bottom to remove it.

DSP3100HC: The grille is held on by pegs. Gently pull from the sides and then top and bottom to remove it.

**Note:** The speakers are designed to be used with their grilles fitted.

### Master and slave

When two 3100 loudspeakers are supplied as a pair, one speaker is preconfigured as Left Master and the other as Right Slave. This allows you to set up a 2-channel system without any further configuration:



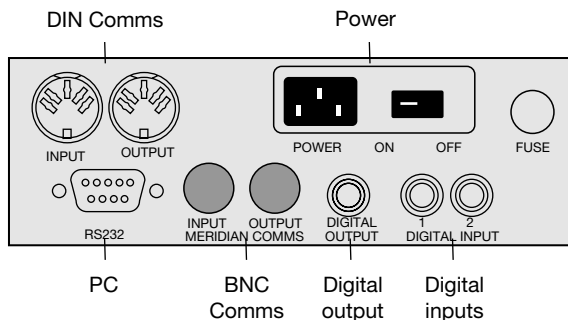
### Cleaning the speakers

Greasy marks should be removed from the metal surfaces 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.

On black speakers, small marks on the lacquer surface can usually be removed by treating with Black Turtle Wax Color Magic. Do not use any coarse polish such as Auto Colour restorer, and always test any polish on a non-visible area first. Do not use any polish containing a solvent; these can cause crazing of the surface.

## Connections

The following diagram gives details of the back panel connections:



See overleaf for pictures of sample configurations.

## Digital connections

The following table gives details of the digital audio connections:

Use this connection	To connect to this
DIGITAL INPUT 1, DIGITAL INPUT 2	A digital source, such as a digital sound processor, digital preamplifier, CD player, or DVD player
DIGITAL OUTPUT	A second (slave) DSP loudspeaker, using an S5 lead.

The digital connections should be made with high-quality 75Ω screened cable. Suitable cables are available from Meridian. We do not recommend using analogue audio cables, which do not have adequate shielding or the correct impedance, or cables intended for UHF applications, as these do not provide adequate shielding in the 1–30MHz region.

## Communications connections

The following table gives details of the communications connections:

Use this connection	To connect to this
COMMS INPUT	The COMMS connection on a Meridian control unit or preamplifier.
COMMS OUTPUT	The COMMS INPUT on a second DSP loudspeaker.
RS232	The serial port of a PC, to control the DSP loudspeaker using a computer. For more information see the Meridian Web site, <a href="http://www.meridian-audio.com">http://www.meridian-audio.com</a> .

The DIN Comms and BNC Comms connections are equivalent; use whichever is appropriate for the leads supplied with your other Meridian equipment.





















