



DSP320
DSP Loudspeaker
User Guide

MERIDIAN

Important safety instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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

The DSP320 is designed to be installed using the Meridian RF300 rough-in box only.

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

The DSP320 must be connected to an earthed AC supply socket outlet.

An all pole AC supply switch with a contact separation of at least 3mm in each pole shall be incorporated into the electrical installation on the building.

Safety warnings

- Do not expose the unit to dripping or splashing.
- Do not place any object filled with liquid, such as a vase, on the unit.
- Do not place naked flame sources, such as lighted candles, on the unit.
- 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, or directly on top of heat producing equipment, such as a power amplifier.
- To avoid interference do not position the unit near strong electrical or magnetic radiation, such as near 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.

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



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Installation

These instructions assume that a Meridian rough-in box type RF300 has already been mounted in the ceiling or wall ready to accept the loudspeaker. If necessary, refer to the *RF300 Rough-in Box Installation Instructions* as appropriate.

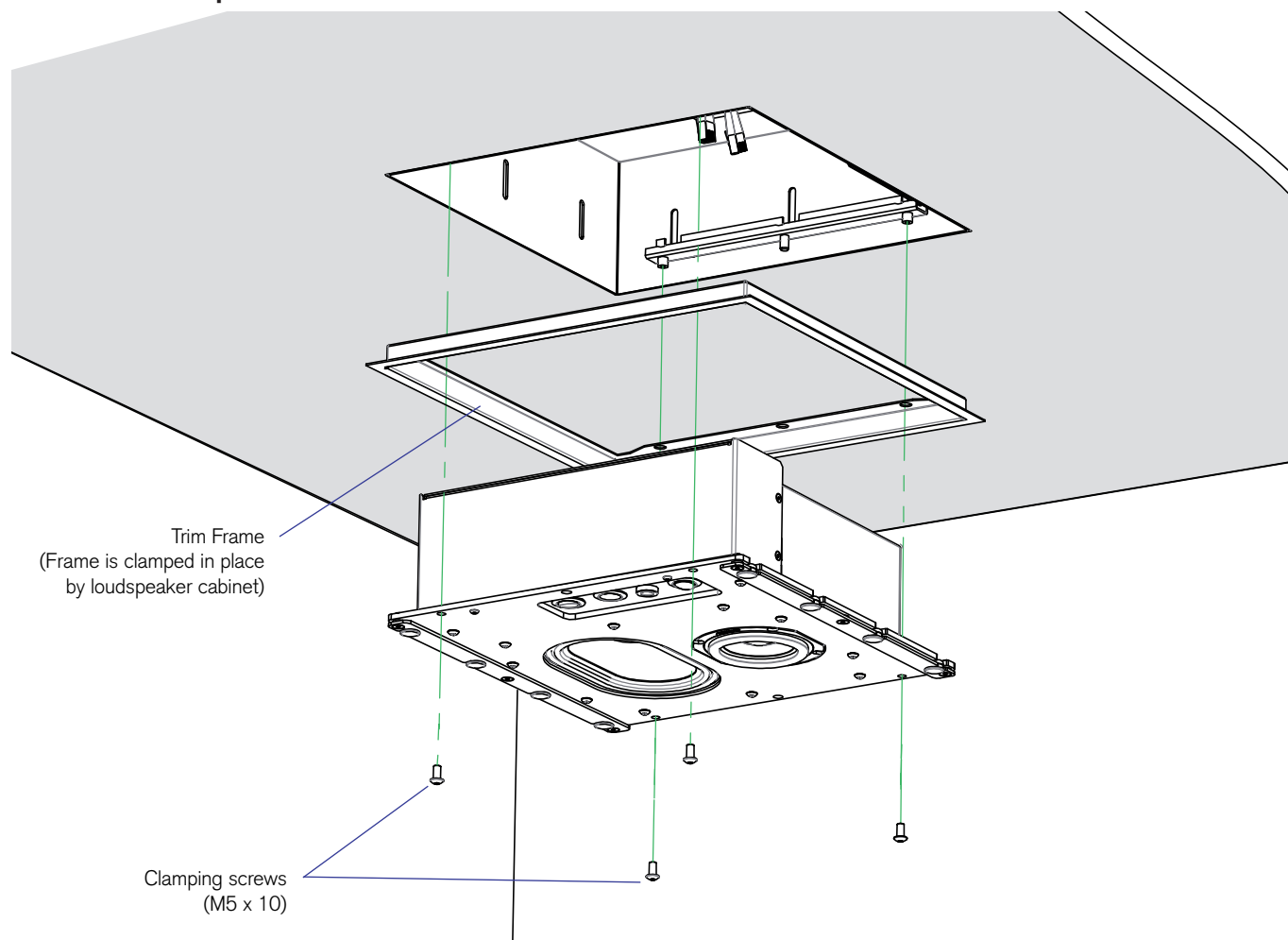
Contents

Each DSP320 loudspeaker is supplied with the following components:

- DSP320 trim frame.
- DSP320 grille with scrim.
- 3mm Allen key.
- 3mm hex driver.
- 4 x M5 button-head screws for speaker.
- 2 x grille extractor keys.

The loudspeaker can be installed either with or without the trim frame, according to user preference, as explained on the following pages.

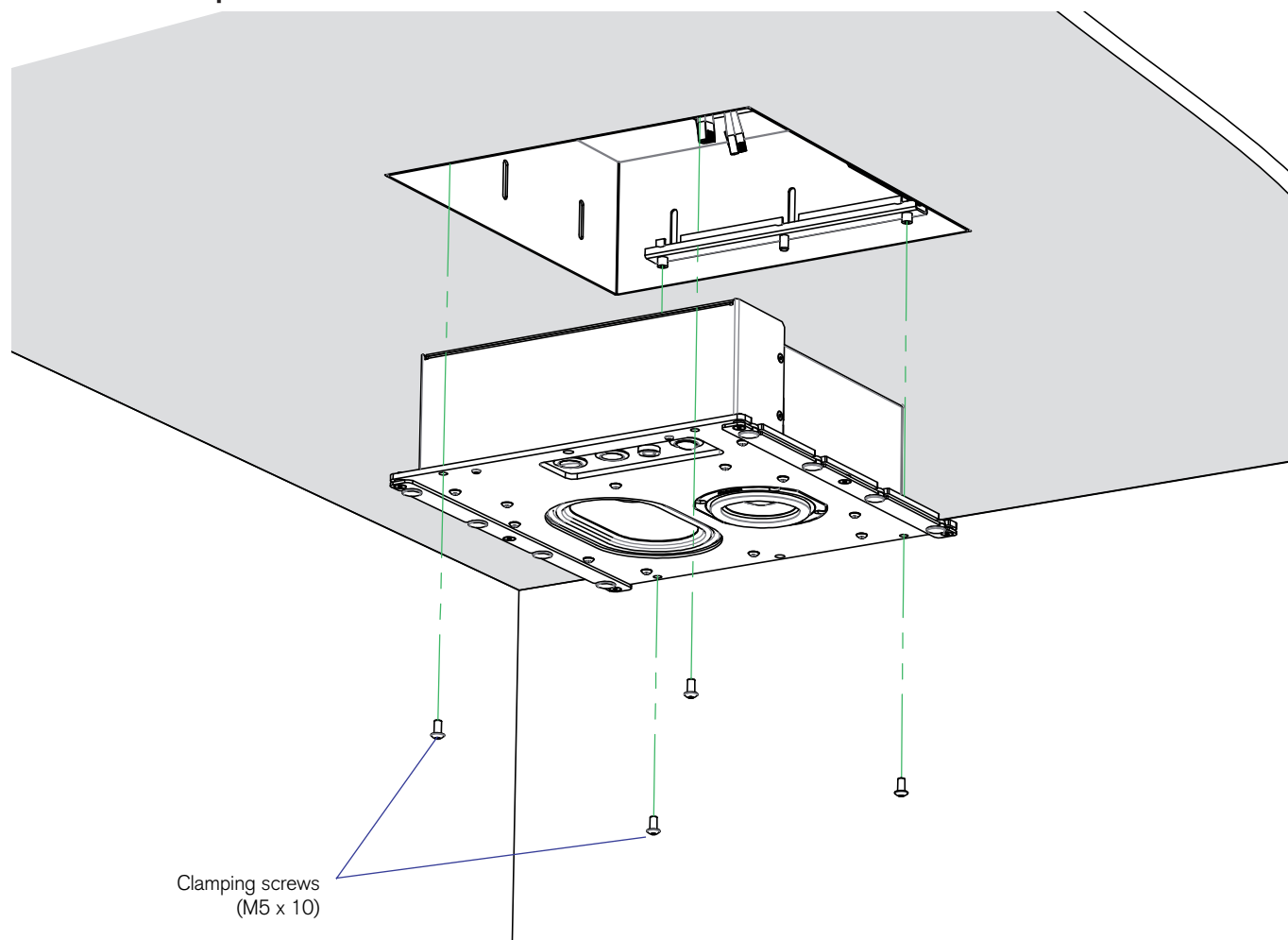
To fit the loudspeaker with the trim frame



Holding the loudspeaker carefully:

- Drop the trim frame onto the back of the loudspeaker.
- Plug in the RJ45 cable(s) and AC supply.
- Slide the loudspeaker into position.
- Fix with M5 x 10 button-head screws (4 pieces).

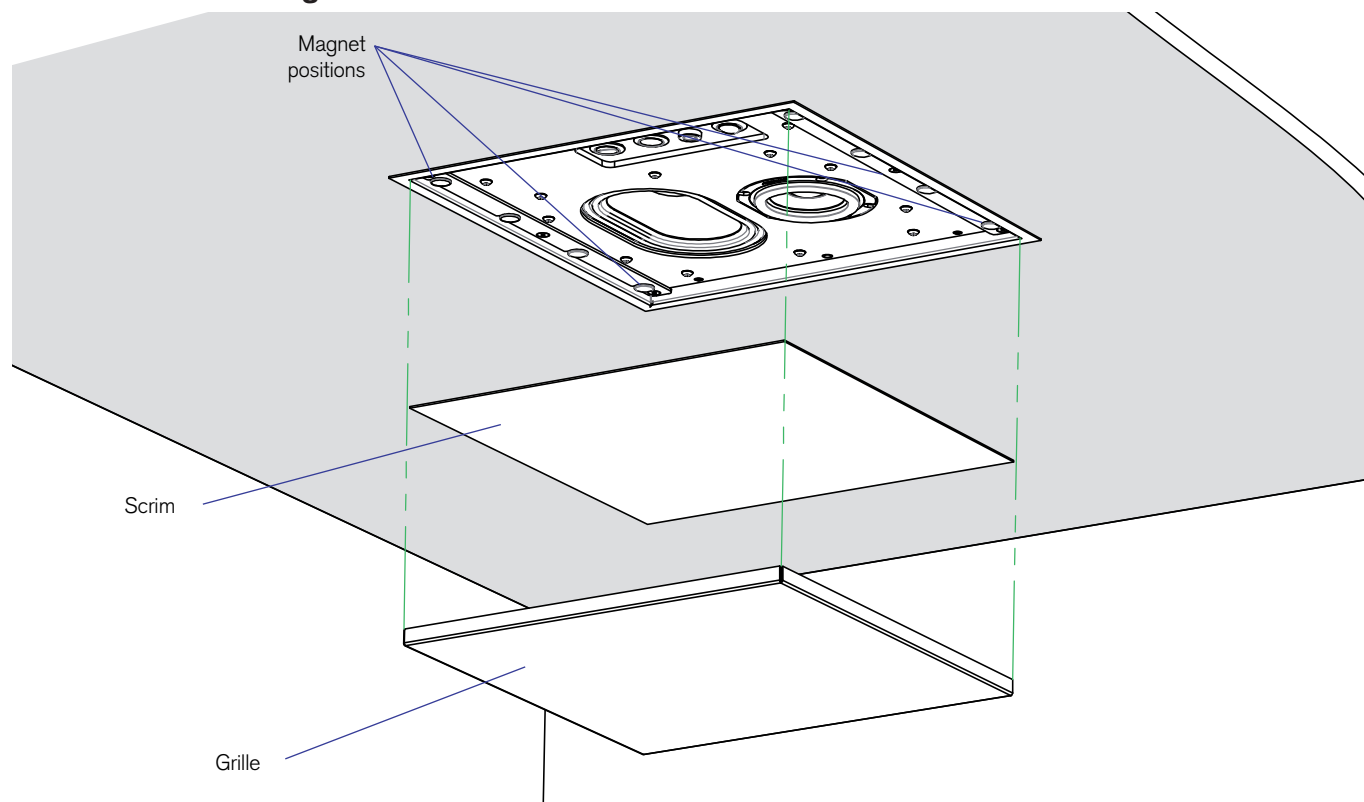
To fit the loudspeaker without the trim frame



Holding the loudspeaker carefully:

- Plug in the RJ45 cable(s) and AC supply.
- Slide the loudspeaker into position.
- Fix with M5 x 10 button-head screws (4 pieces).

To fit the scrim and grille



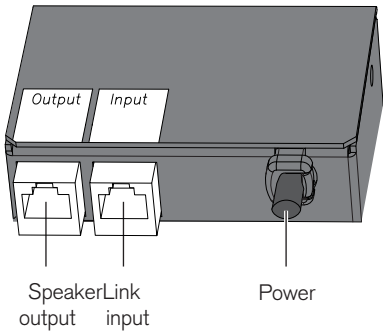
- Lay the scrim into the back of the grille.
- Carefully locate one edge of the grille.
- Lift the grille into position.

Magnets will grab the grille and hold it in position.

Front and back panel

Connections

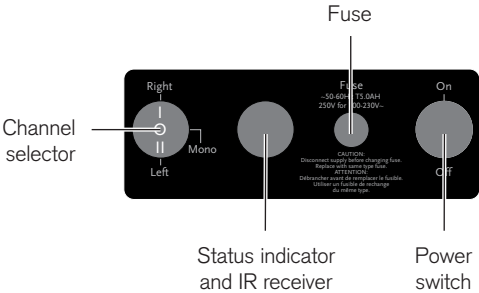
The following diagram gives details of the connections on the back of the loudspeaker:



Use this connection	To connect to this
SpeakerLink input	The SpeakerLink output of a Meridian Audio Core or Digital Surround Controller.
SpeakerLink output	The SpeakerLink input of a second DSP320 digital loudspeaker, when connecting in a daisy-chain.
Power	A captive power cord to connect to the RF300 rough-in box power outlet.

Front panel

The following diagram gives details of the front of the loudspeaker:



Switch	Description
Channel selector	Set to Left or Right to specify the position of each loudspeaker, or Mono for a mono mix.

Standby indicator	Description
Status	Loudspeaker in standby.
Blue	Loudspeaker operating.
White	At power-up flashes once if IR is off and twice if IR is on.

The loudspeakers are switched on or into standby as appropriate via the SpeakerLink connections by the Meridian system they are connected to.

To configure the IR receiver

Hold down one of the following keys on an MSR remote (not supplied) while powering up the speaker:

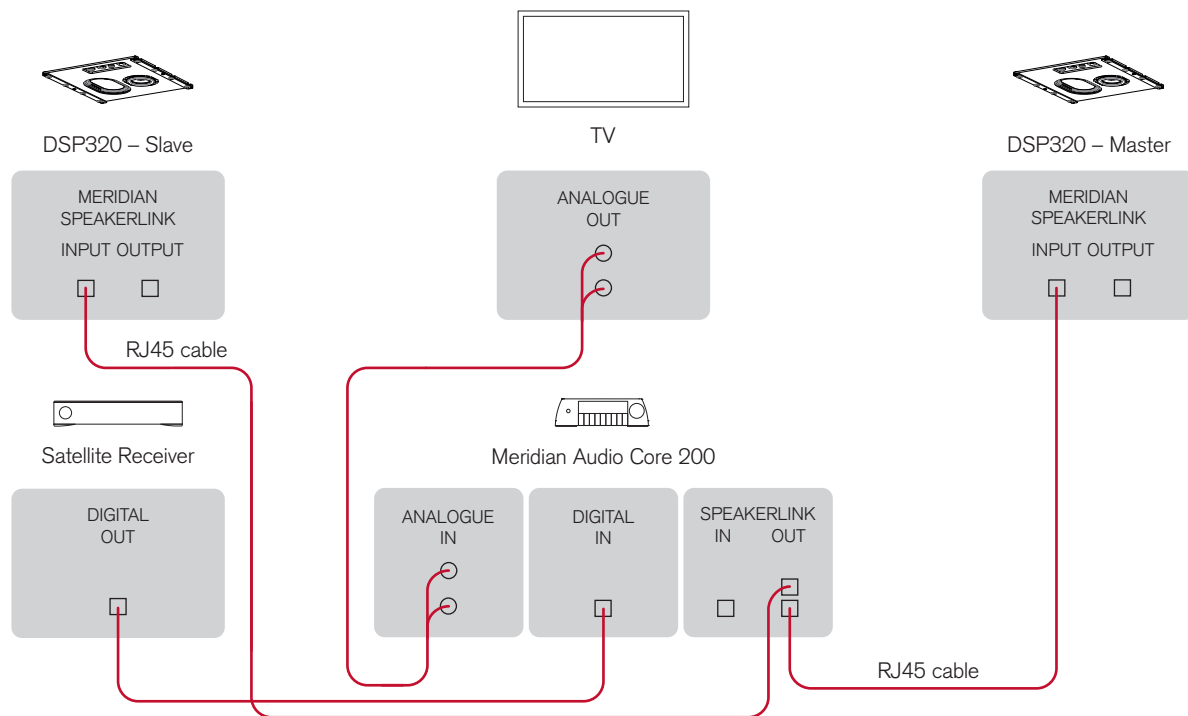
- Next:** Turns on IR; white LED flashes twice.
- Previous:** Turns off IR; white LED flashes once.
- Stop:** Resets all to factory settings; white LED flashes 3 times.

Applications

To connect a pair of DSP320 loudspeakers to a Meridian Audio Core 200

The DSP320 loudspeakers are ideal for a compact Audio Core 200 based home entertainment system.

- Connect analogue and digital sources, such as a TV and satellite receiver, to the appropriate inputs on the AC200.
- Connect the lower SpeakerLink output on the AC200 to the Master DSP320, using an RJ45 cable.
- Connect the upper SpeakerLink output on the AC200 to the Slave DSP320, using an RJ45 cable.
- Make sure the Channel selector is set to the Left position on the front of the left loudspeaker and to the Right position on the front of the right loudspeaker.



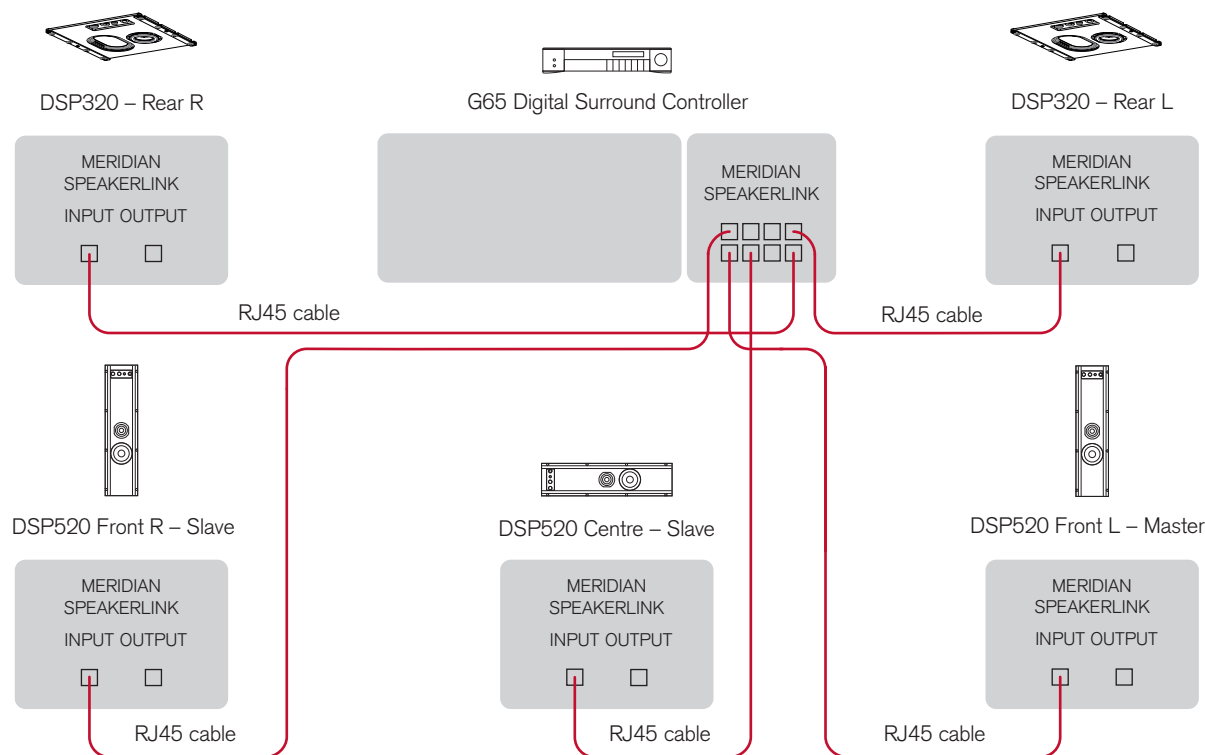
To use DSP320 loudspeakers in a Meridian Digital Theatre

DSP320 loudspeakers are ideal as the rear loudspeakers in a Meridian Digital Theatre, in conjunction with DSP520 (or DSP640) loudspeakers as the front main and centre speakers. An ideal source is the Meridian G65 Digital Surround Controller. The following diagram shows how to connect the loudspeakers using “home run” wiring.

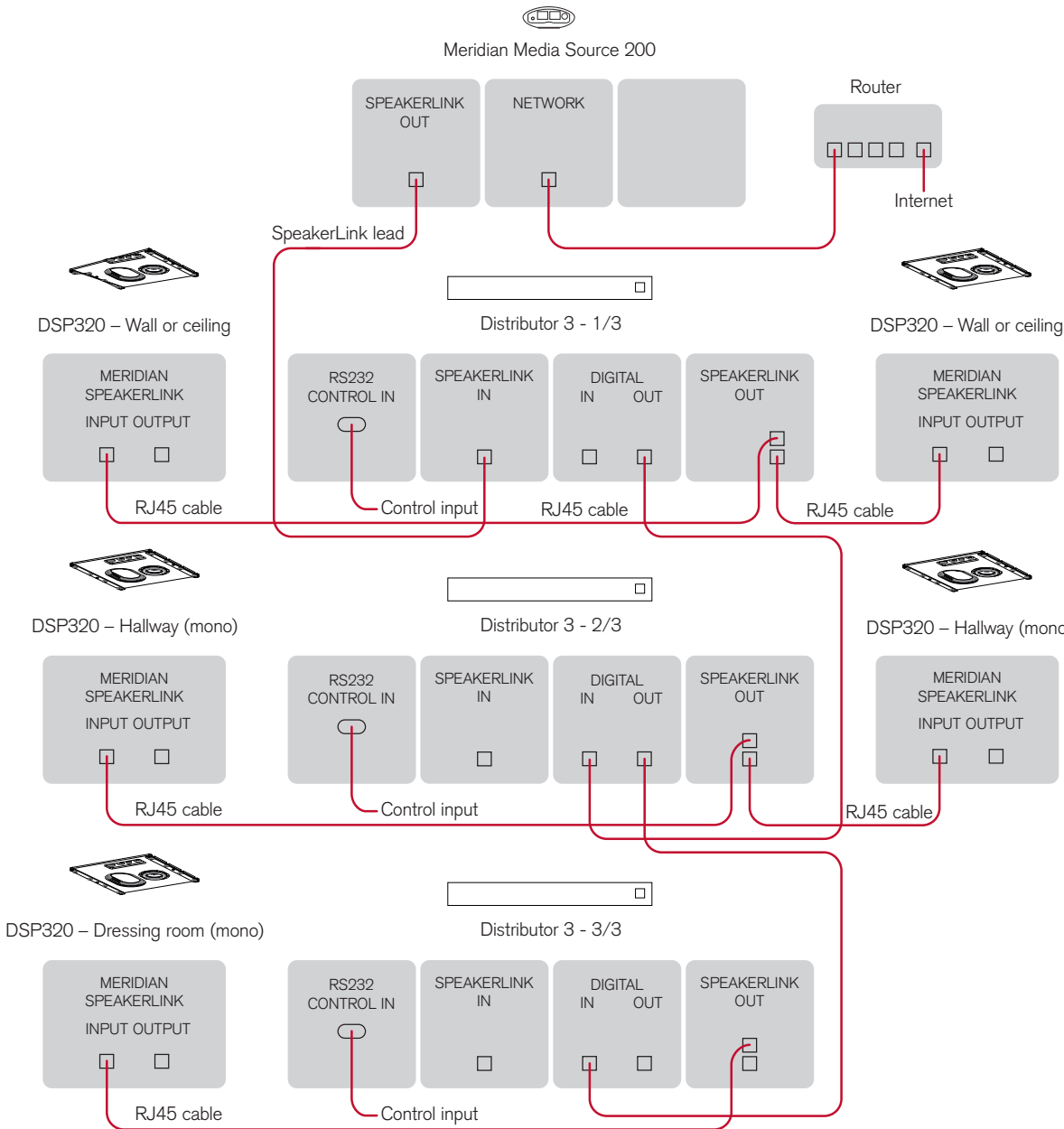
- Connect the L+R SpeakerLink output on the lower row of the G65 to the Master digital loudspeaker (here the front left loudspeaker), using an RJ45 cable.

- Connect the appropriate SpeakerLink outputs on the G65 to each of the remaining loudspeakers, using RJ45 cables.
- Make sure the Channel selector on each loudspeaker is set to the Left, Right, or Centre position as appropriate.

Alternatively you can connect the loudspeakers using “daisy chain” wiring: connect the front and rear L loudspeakers to the G65, and then link each pair of loudspeakers together by connecting the output from the L loudspeaker to the input of the R loudspeaker.



To create a multi-room installation



The DSP320 is an ideal loudspeaker for use in a multi-room system. The signal to each room can be provided by a Distributor 3, with independent control over the volume of each pair of speakers via the control system.

Where only monophonic sound is required, such as in a hallway or dressing room, one Distributor 3 can be used to control two DSP320 loudspeakers switched to Mono mode.

An ideal source for the system is a Meridian Media Source 200.

- Connect the SpeakerLink output from the Media Source 200 to the SpeakerLink input of the first Distributor 3 module.
- Connect the digital output from the first Distributor 3 module to the digital coax input of the second Distributor 3 module.
- Connect the Meridian DSP loudspeakers to the SpeakerLink outputs of each module.
- Connect the RS232 control connector from each module to the control system.

Information and set-up software for installing Meridian systems can be found on the Meridian website:

www.meridian-audio.com

