



DSP730 IN-WALL DIGITAL ACTIVE LOUDSPEAKER USER GUIDE



MERIDIAN

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

	WARNING! RISK OF ELECTRIC SHOCK – DO NOT OPEN	
ATTENTION! NE PAS OUVRIR – RISQUE DE DÉCHARGE ÉLECTRIQUE		

Caution: to reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Climate

The equipment has been designed for use in moderate climates and in domestic situations.



Only use at an altitude not exceeding 2000m.

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

- Do not position the product in direct sunlight.
- Do not position the product near heat sources, such as a radiator.
- Leave at least 10cm around the product to ensure sufficient ventilation.

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 EN55032:2015 and EN55024:2010 + A1:2015.

IP20 EQUIPMENT

Copyright and acknowledgements

Sales and service

All direct support for Meridian products, systems and associated software is provided through our authorised distribution network. If you require any such advice or information, you should contact your Meridian dealer.

Designed and manufactured in the UK

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Product registration

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meridian-audio.com/register



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Introduction

The DSP730 is a high-performance in-wall loudspeaker. Engineered using Meridian’s core principles of sound design, the DSP730 delivers high-resolution audio that is perfect for architectural installations and dedicated home theatres. Optimised for use behind a screen or stretched fabric wall-coverings, the DSP730 boasts a high dynamic range and an exceptional signal-to-noise ratio enabling it to provide distortion-free audio from the quietest detail to the loudest crescendo.

A beryllium tweeter with diffraction expansion technology is one of the three drive units, each of which is powered by a pair of amplifiers capable of delivering over 100W into 8Ω. With a frequency response from 38Hz to 40kHz and an output of up to 115dB at 1m, the DSP730 delivers incredible power, fidelity and accuracy for both music and movies.

The DSP730 can be combined with a Meridian in-wall subwoofer to produce a full-range, two-box solution.

Acoustic enclosure

The DSP730 features a sealed “double-baffle” aluminium enclosure design which minimises unwanted resonances and colouration to ensure a reliable and repeatable performance in every installation. The enclosure also acts as a heatsink with huge thermal capacity for the built-in power amplifiers. A

separate mid-range driver enclosure prevents the bass driver from interacting with the mid-range unit.

Class-M DSP engine

Phase-linear DSP crossovers with textbook performance ensure the drive units remain in phase with each other across their crossover regions. The DSP engine also provides thermal and dynamic bass protection while retaining very accurate transients, ensuring that when the loudspeaker is played at high levels – even over prolonged periods of time – it always delivers a clean, detailed, and accurate sound.

Meridian DYNAMIC amplifier design

The DSP730 uses high-resolution power amplifiers which feature feedback taken after the output inductor. This lowers the output impedance to levels rivalling good Class-AB designs, for perfect cone control and maximum detail.

Centre Elevation

Meridian’s Centre Elevation technology, based on psychoacoustic research, raises the perceived image location from an under-screen loudspeaker so that it appears to come from the centre of the screen.

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Enhanced Bass Alignment (EBA)

Meridian's innovative Enhanced Bass Alignment (EBA) technology time-aligns high, mid, and upper bass frequencies with the low bass, resulting in audibly improved bass transients and added life and clarity.

Diffraction Expansion Technology

The innovative tweeter design delivers controlled directivity, wide dispersion, and consistent off-axis response. This means all listeners get the same experience, turning the listening-room into one large "sweet-spot". As well as providing greater freedom of placement due to controlled reduction of unwanted reflections, this also makes the loudspeaker ideal for larger areas.

Construction

The DSP730 is designed to have an elegant profile, with only 102mm installation depth.

It is made up of a narrow, self-contained, all-metal enclosure with a metal mounting frame. Its purpose-built rough-in wall box is available separately. The rough-in box is first fitted to the wall, the frame is mounted to it, and the loudspeaker enclosure is then bolted to the frame.

The rough-in box and frame can be adjusted for various wall materials and depths. The frame is designed for mounting into

new-build partition and stud style walls, or for retrofitting into stud or brick/stone-built walls.

A male-to-female IEC mains lead is supplied with the loudspeaker in order to connect it to the rough-in box, which is wired to power.

The paintable, perforated steel grille supplied with the loudspeaker can be fitted where required. The grille is held in place by powerful rubber-coated magnets which are attached to the aluminium extrusion that forms the front panel of the loudspeaker enclosure.

Controlling the loudspeaker

The loudspeaker can be controlled in three ways:

- In most installations, the loudspeaker will be controlled by another Meridian product within the system.
- Alternatively, the loudspeaker features an infra-red receiver which allows it to be controlled using a Meridian System Remote.
- Thirdly, the loudspeaker can be controlled using RS232 commands.

Specifications

Audio input

- 1 x Meridian SpeakerLink connector (RJ45).

Audio output

- 1 x Meridian SpeakerLink connector (RJ45).

Drivers

- Tweeter: Beryllium dome with diffraction expansion technology.
- Mid-range: 1 x 100mm.
- Bass: 1 x 100mm.

Amplifiers

- 3 pairs of Class-D amplifiers – each pair bridged, capable of delivering over 100W into 8Ω.

Performance

- Peak SPL: 115dB @ 1m.
- Frequency response 38Hz – 40kHz.
- Horizontal dispersion 120° @ 20Hz - 10kHz, 70° @ 18kHz (-6dB)

Front panel

- Switch selects Right, L+R, or Left or Centre.
- IR window.
- LED indicators show power status and configuration settings.

Physical

- Dimensions: 800mm* x 203mm x 102mm (31.5"* x 8.0" x 4.0") (H x W x D).
- Weight: 11kg (24.2lb).
- Grille dimensions: 819.5mm x 222.5mm x 4mm (36.2" x 8.73" x 0.16") (H x W x D).

* Excluding frame and cable feed channel.

Power

- IEC mains lead supplied to connect loudspeaker enclosure to rough-in box.
- 500W max.
- This product is available factory pre-set in the following voltage options: 100V AC 50-60Hz, 110-120V AC 50-60Hz and 220-240V AC 50-60Hz

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Installing the DSP730

The loudspeaker is designed to be fitted in a Meridian wall box type RF500. If necessary, refer to the *RF500 Wall Box Installation Instructions*:

meridian-audio.com/RF500-installation

Contents

Each DSP730 loudspeaker is supplied with the following components:

- Mounting frame.
- Mains cable.
- M5 x 25mm clamping screws – 8 pieces.
- M5 x 10mm lock screws – 6 pieces.
- M5 x 20mm guide-in screws – 8 pieces.
- Grille.
- Grab handle.
- M3 Allen key.
- Grille extractor tools – 2 pieces.

The mounting frame is fitted to the wall box prior to fitting the loudspeaker.

The grab handle can be used to help with lifting the loudspeaker into position.

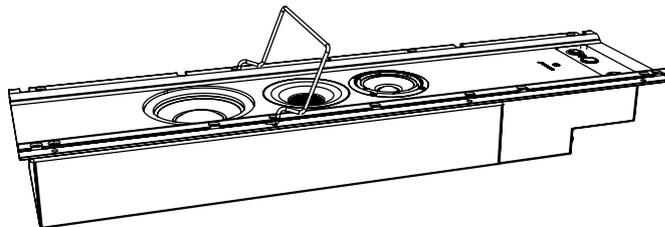
1. Prepare for installation

- Remove the mounting frame; it is packed underneath the loudspeaker within the packing carton.
- Remove the grab handle; it is packed in one of the foam packing pieces within the carton.

2. Fit the grab handle

- Insert the grab handle into the available holes either side of the tweeter (see illustration below).
- Rotate it so it locks into position.

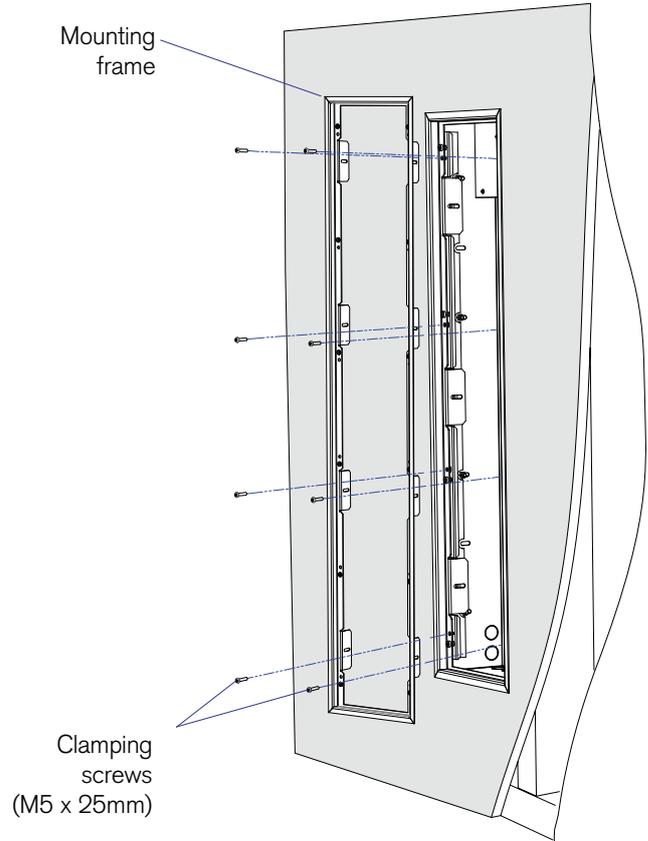
Note: the grab handle is not suitable to use when installing the loudspeaker horizontally.



3. Fit the mounting frame

- Slide the mounting frame into the wall box.
- Clamp the frame to the wall with the M5 x 25mm button-head clamping screws (8 pieces).

Tighten just enough to clamp the frame to the wall. Do not overtighten as this may distort the frame.

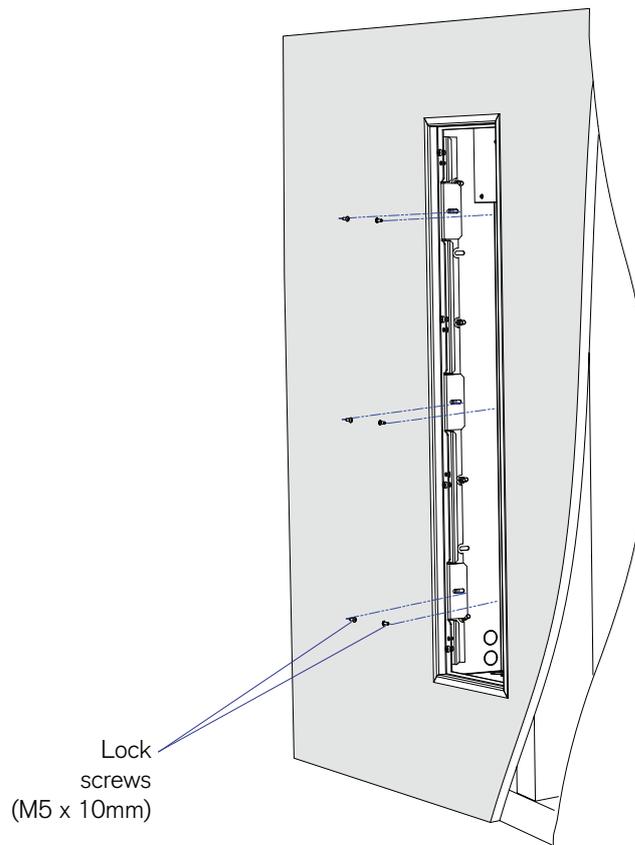


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4. Lock the frame into place

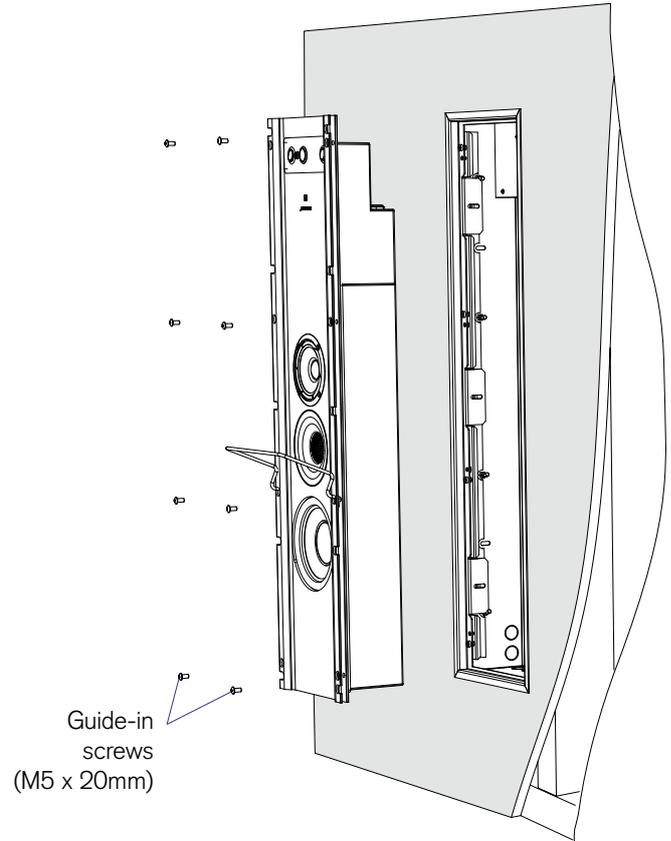
Once the frame is tight against the wall:

- Lock into place with M5 x 10mm button-head lock screws (6 pieces).
- Lock tight.



5. Fit the loudspeaker

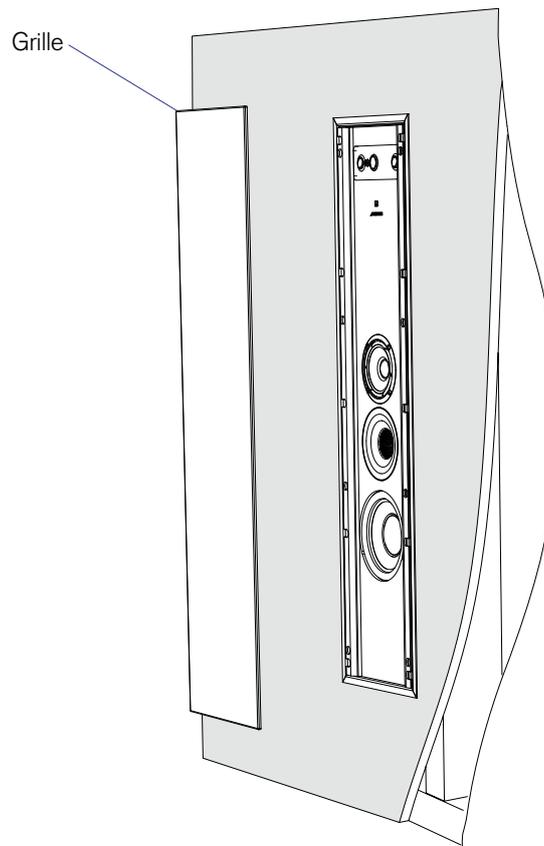
- Using the grab handle, sit the loudspeaker on the lower edge of the wall box.
- Plug in the RJ45 cable(s) and AC supply.
- With the aid of the grab handle, slide the loudspeaker into position, inserting the top of the loudspeaker into the wall box first.
- Fix with M5 x 20mm guide-in screws (8 pieces).
- Remove the grab handle to fit the last pair of screws. This is no longer required.



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6. Fit the grille

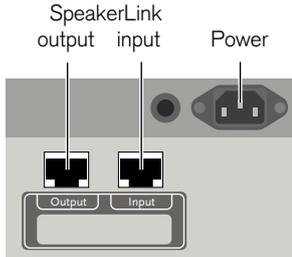
- Carefully hold the grille with your fingers at the top,
- Locate the lower edge of the grille at the bottom edge of the mounting frame for alignment.
- Lay the grille gently down onto the magnets, which will hold it in place.



Front and back panel

Connections

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



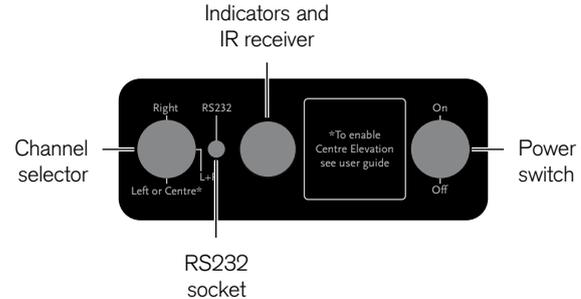
Use this connection

To connect to this

SpeakerLink input	The SpeakerLink output of a Meridian controller or another loudspeaker when connecting in a daisy-chain.
SpeakerLink output	The SpeakerLink input of another loudspeaker when connecting in a daisy-chain.
Power	The RF500 wall box power output using the supplied plug-in mains cable.

Front panel

The following diagram gives details of the front panel:



Item

Description

Channel selector	Specifies the loudspeaker's role in the system. See <i>Setting up the DSP730 In-Wall Digital Active Loudspeaker</i> , page 11.
RS232 socket	Allows you to configure the loudspeaker. See <i>RS232 via the front-panel socket</i> , page 15.
Power switch	Controls the mains supply to the loudspeaker.

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Status indicators

Status	Description
Steady blue	Loudspeaker in standby.
Steady white	Loudspeaker operating.

For an explanation of the configuration status indicators see *Configuring the loudspeaker using the IR eye*, page 13.

Setting up the DSP730

This section explains how to set up the loudspeaker in each of the typical applications.

Using the loudspeaker on the left of the system

- Set the channel selector switch to **Left or Centre**.

In a multichannel system this applies to all loudspeakers on the left-hand side of the room

Using the loudspeaker on the right of the system

- Set the channel selector switch to **Right**.

In a multichannel system this applies to all loudspeakers on the right-hand side of the room

Using a single loudspeaker individually with a TV

- Set the channel selector switch to **L+R**.

If the loudspeaker is located below the display screen Centre Elevation can be used to raise the sound image up to the screen.

- Choose between **Off** (lowest), **Minimum**, **Medium**, or **Maximum** (highest).

The ideal setting will depend on the layout of the loudspeaker and screen.

When the channel selector switch set to **L+R** Centre Elevation can be adjusted via RS232; see *RS232 control and configuration*, page 14. The setting will be retained even if the loudspeaker is powered off.

Centre Elevation is only appropriate for loudspeakers located below the display screen, or the mid-height point of an acoustically transparent screen. It may be of limited benefit if the distance between the loudspeaker and the screen is small relative to the distance between the screen and the listening position.

Using the loudspeaker to play a mix of left and right audio in other situations

- Set the channel selector switch to **L+R**.

This will play a balanced mix of left and right audio, allowing a single loudspeaker to reproduce all the audio present in a stereo recording. It also provides a useful option for systems using multiple speakers where the listening area does not have clearly-defined left and right loudspeaker positions.

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Using the loudspeaker as a centre channel

- Set the channel selector switch to **Left or Centre**.

If the loudspeaker is below the display screen Centre Elevation can be used to raise the sound image up to the screen.

- Choose between **Off** (lowest), **Minimum**, **Medium**, or **Maximum** (highest).

The ideal setting will depend on the layout of the loudspeaker and screen.

As well as improving the sense of dialogue coming from centre stage, Centre Elevation can enhance the integration of sounds that pan from left and right in a multichannel system.

When set to **Left or Centre**, the loudspeaker needs to have **Centre mode** activated in order to make Centre Elevation available. This can be done using a Meridian System Remote as described in *Configuring the loudspeaker using the IR eye*, page 13, or via RS232 as described in *RS232 control and configuration*, page 14.

In **Centre mode**:

If the system features a suitably-equipped Meridian controller product, Centre Elevation can be adjusted via the menu system of the controller product. Check the user guide of the controller product to see whether it supports the Centre Elevation menu and how to adjust it.

Regardless of the other equipment in the system, Centre Elevation can be adjusted via RS232. The setting will be retained even if the loudspeaker is powered off, so the optimal setting can be chosen at the time of installation as a one-off operation.

Centre Elevation is only appropriate for loudspeakers located below the display screen, or the mid-height point of an acoustically transparent screen. It may be of limited benefit if the distance between the loudspeaker and the screen is small relative to the distance between the screen and the listening position.

Configuring the loudspeaker using the IR eye

Some settings can be changed by sending commands from a Meridian System Remote (not supplied) directed at the IR eye while powering-up the loudspeaker. The status of the setting is indicated by flashing indicators behind the lens of the IR eye immediately after the operation.

Centre mode

Centre mode can be toggled off and on by holding down the Left-cursor key (<) while powering-up the loudspeaker.

Status	Description
White indicator flashes four times	Centre-mode activated.
Blue indicator flashes four times	Centre-mode deactivated.

IR eye

The IR eye on the front-panel of the loudspeaker can be enabled or disabled by holding down the **Next** and **Previous** keys respectively while powering-up the loudspeaker.

Key and status	Description
Next key White indicator flashes twice	IR eye on.
Previous key Blue indicator flashes twice	IR eye off (default).

Factory reset

A factory reset can be performed by holding down the **Stop** key while powering-up the loudspeaker.

Status	Description
White indicator flashes three times	The loudspeaker has been reset.

RS232 control and configuration

For the full list of RS232 commands for DSP loudspeakers see RS232 commands, page 16. This covers non-volatile settings relating to installation options as well as standard control commands to be used by third-party control systems.

Centre mode and Centre Elevation

The commands used for Centre mode and Centre Elevation are detailed here as these features most often generate the need to use RS232 with the loudspeaker.

Centre mode

The RS232 commands related to Centre mode are as follows:

Command	What it does
CmON	Activates Centre mode when the channel selector switch is set to Left or Centre.
CmOFF	Deactivates Centre mode when the channel selector switch is set to Left or Centre.
Cm	Returns the current status of Centre mode.

When the channel selector switch is set to **L+R** Centre mode is activated by default; otherwise it is deactivated by default.

Centre Elevation

The RS232 commands to adjust Centre Elevation are as follows

Command	What it does
CESL	Enables control of Centre Elevation by commands over SpeakerLink.*
CEOFF	Switches Centre Elevation off.*
CEMIN	Sets Centre Elevation to Minimum.
CEMED	Sets Centre Elevation to Medium.
CEMAX	Sets Centre Elevation to Maximum.

* By default, the loudspeaker is set to CESL and Centre Elevation will remain set to off until it is changed by a valid command over SpeakerLink.

RS232 connection options

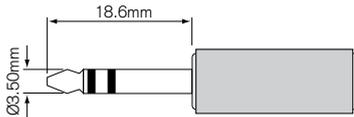
The loudspeaker can receive RS232 commands via the socket on its front-panel or via the SpeakerLink input socket on the back of the loudspeaker. Their respective locations make the two connections suitable for particular use-cases.

RS232 via the front-panel socket

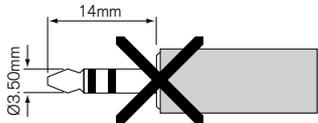
The front-panel RS232 allows you to configure the loudspeaker to suit its role in the system, or perform firmware updates.

A cable suitable for connecting to the front-panel RS232 socket, terminated in a female DB9 plug, is available from authorised Meridian dealers: Meridian part number: PA10824

The socket accepts the longer version of the three-way, 3.5mm (⅜ inch) minijack plug, eg Schurter part no. 4802.1300:



The standard minijack plug commonly used on headphones and ear-buds with a shorter 14mm plug cannot be used:



RS232 via the SpeakerLink input

If the loudspeaker is installed behind a projection screen or under a fabric wall-covering, the front-panel RS232 socket may be inaccessible. In this case the SpeakerLink input cable, which

also carries RS232 connections, can be used to configure the loudspeaker.

- Temporarily disconnect the SpeakerLink cable from the product feeding the loudspeaker.
- Connect the RJ45 plug into an RJ45 Inline Coupler to provide an RJ45 socket.
- Connect the RJ45 socket to an RJ45 to RS232 cable.

An RJ45 to RS232 cable, terminated in a female DB9 plug, is available from authorised Meridian dealers: Meridian part number SK1622.

Where loudspeakers are daisy-chained, access to the SpeakerLink input of the downstream loudspeakers can be provided by routing all SpeakerLink feeds through RJ45 couplers located in the rack.

Connections

The two cables use the following connections for RS232:

Function	Female DB9	Minijack	RJ45
RS232 Tx.	3	Tip	6
RS232 Rx.	2	Ring	3
Ground	5	Shield	5

RS232 commands

RS232 is one of several interfaces carried by the Meridian Speakerlink RJ45/Cat5 connection. The Meridian Distributor and the Meridian AC12 make this interface available on a standard RS232 connector.

Port settings

9600 Baud, 8 data bits, 1 stop bit, no parity, no flow control

Command format

RS232 commands consist of ASCII characters which are case sensitive. Some commands require parameters, so these are followed by additional characters. All commands are terminated with a carriage return. For example:

To change the volume level to 45, the command is: VN45

This will cause the loudspeaker to change its volume and respond with: Volume 45

Non-volatile configuration and reset

Some of the RS232 commands described in this document produce non-volatile (lasting) configuration changes in the DSP loudspeaker. These commands should be used carefully because they may affect the sound and operation of the loudspeaker without giving any obvious external indications.

An RS232 command is provided to reset the loudspeaker to its default configuration. For loudspeakers with IR receivers such as DSP520 and DSP640, the loudspeaker may also be reset by powering-up with the stop key pressed on the MSR+ remote control. This is confirmed by three flashes from the white lights on the loudspeaker.

Loudspeaker control commands

These commands are used for everyday control of a pair loudspeakers such as by a control system connected to the master loudspeaker through a Meridian Distributor.

Command Type	Code	Parameters	Meaning	Function	Example Response
Source Selection	CD	None, sb ¹	Select source	Select source 0	CD 65
	RD	None, sb ¹	Select source	Select source 1	Radio 65
	LP, AX or MS	None, sb ¹	Select source	Select source 2	SLS 65
	TV	None, sb ¹	Select source	Select source 3	TV 65
	TA, T1 or IP	None, sb ¹	Select source	Select source 4	iPod 65
	T2 or SA	None, sb ¹	Select source	Select source 5	SAT 65
	CR or DC	None, sb ¹	Select source	Select source 6	Disc 65
	CB	None, sb ¹	Select source	Select source 7	Cable 65
	TX or DV	None, sb ¹	Select source	Select source 8	DVD 65
	V1 or US	None, sb ¹	Select source	Select source 9	USB 65
	V2 or MX	None, sb ¹	Select source	Select source 10	Mixer 65
	LD or GA	None, sb ¹	Select source	Select source 11	Game 65
	SB	None	Standby	Standby	.
	MU	None	Mute	Mute	Mute 65

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Command Type	Code	Parameters	Meaning	Function	Example Response
Volume	VN	##	Volume number	Go to volume number	Volume 65
	VP	None	Volume Plus	Increase volume	Volume 66
	VM	None	Volume Minus	Decrease volume	Volume 64
Audio Effects	TN	±##.#	Treble Number	Go to Treble number	Treble + 6.0
	BN	±##.#	Bass number	Go to bass number	Bass + 5.0
	LN	±##	Left number	Go to balance setting	Left 3
	RN	±##	Right number	Go to balance setting	Right 6
	P+	None	Phase +	Phase +	Phase +
	P-	None	Phase -	Phase -	Phase -
Display	DI	ON, OFF	Display	Light on or off	Light On

Source control commands

These commands allow control of a Meridian source connected to the master loudspeaker. No response is given on RS232.

Code	Meaning/Function
PL	Play
ST	Stop
PS	Pause
RP	Repeat
NE	Next
PR	Previous
FF	Fast Forward
FB	Fast Back
MP	Menu up
MM	Menu down
ML	Menu left
MR	Menu right
N0 - N9	Number keys
SR	Store
CL	Clear

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Configuration

These commands affect only the connected loudspeaker. They configure features of the loudspeaker that would otherwise be inaccessible without a SpeakerLink capable controller.

The settings made are non-volatile (ie they remain when the loudspeaker is powered down). These settings can override commands from a SpeakerLink controller, so they should be used with caution. To restore SpeakerLink control, choose the SL parameter.

Command Type	Code	Parameters	Meaning	Example Response
IR receiver ²	IR	ON	Turns on IR receiver eye	IR on
		OFF	Turns off IR receiver eye	IR off
Speaker position	B0	SL	Boundary EQ controlled by Speakerlink	NV Boundary Speakerlink
		FR	Free-space equalization ³	NV Boundary Free
		WA	Wall equalization	NV Boundary Wall
		SH	Shelf equalization	NV Boundary Shelf
		CO	Corner equalization	NV Boundary Corner
Subwoofer	SW	SL	Subwoofer Controlled By Speakerlink	NV Subwoofer Speakerlink
		OFF	Subwoofer Off	NV Subwoofer Off
		1	Subwoofer Crossover 1	NV Subwoofer Sub 1
		2	Subwoofer Crossover 1	NV Subwoofer Sub 2
		WI	Subwoofer Wideband	NV Subwoofer Speakerlink
		SG	+ / - ##	Subwoofer Gain ⁴

Command Type	Code	Parameters	Meaning	Example Response
Audio Effects	EA	SL, ON, OFF	Enhanced Bass Alignment (EBA)	NV EBA On
	EC	SL, OFF, MIN, MED, MAX	Enhanced Boundary Control (EBC)	NV EBC Med
	RH	###	Room Height in cm for EBC ⁵	NV EBA Room Height 210cm
	CE	SL, OFF, MIN, MED, MAX	Centre Elevation	NV Centre Elevation Min
	LO	SL, ON, OFF	Loudness	NV Loudness Speakerlink
	Cm ⁶	ON, OFF	Centre mode	NV Left or Centre
	Mm	SL, MU, MO	Music/Movie Mode ⁷	NV Music Mode
	AR	PRI, SEC, OFF ⁸	High Power Array (HPA) mode	NV HPA Mode Primary
Status/Reset	NV	None	Non-volatile	A list of the non-volatile settings
		RS	Non-volatile Reset	Resets all non-volatile settings

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Utility/diagnostic

Code	Meaning	Response
IR2	Infra-red receiver status	IR on/IR off
Cm	Centre mode status	A text description of the status
ID	Identity	A list of product name and versions
!R	Reset	Bye

Notes

1. When in standby, a source selection command may be followed by sb (eg CDsb). This allows eg a connected Distributor to change source, but the speakers will remain in standby.
2. Available only on Meridian DSP320, DSP320.2, DSP520, DSP520.2, DSP640, DSP640.2, DSP730, and DSP750.
3. Free-space equalization is not available on in-wall loudspeakers.
4. The non-volatile subwoofer gain is only used when the non-volatile subwoofer setting is not SL. The range is -15 to +15 in 1dB steps.

5. The non-volatile room height is only used when the non-volatile EBC setting is not SL. The range is 150 to 400cm in 1cm steps.

6. Centre mode applies only to Meridian DSP520.2, DSP640.2, DSP730, and DSP750

7. Music/Movie mode applies only to the Meridian DSW and DSW600.

8. HPA available only on Meridian DSP520.2, DSP640.2, DSP730 and DSP750.

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