

Active Installation Speakers

Meridian loudspeaker systems for in-wall and flush-mount applications



A330 in-wall with G41 Powered Crossover/Amplifier.

For years, Meridian loudspeakers have been regarded as offering the highest performance available – the result of careful design, the highest-quality drivers and components, transparent crossovers and rigid, low-coloration enclosures in both Active and Digital Active designs.

Now we have paid the same level of attention to the design of loudspeakers for installation purposes, including in-wall, flush-mount and on-wall configurations. These offer full Meridian performance for systems where the use of floor-standing models is impossible or inappropriate.

The 200 Series in-ceiling/wall design and the 300 Series of wall-mounting systems allow exceptional flexibility of configuration. This document describes their application as remotely-driven active in-wall/flush-mount speakers and the G41 Powered Crossover/Amplifier designed to power them; passive and on-wall configurations are also available and are detailed separately.

The 200 Series speakers are 2-way designs with an 8in (200mm) bass driver and pivoting tweeter, for surface mounting in-ceiling or in-wall applications.

The 300 Series consists of three ultra-slimline systems for in-wall (surface grille) and flush-mount (completely hidden, eg behind wall coverings) applications, featuring 6.5in (165mm) metal-cone bass drivers, and a wide-dispersion horn-loaded ribbon tweeter for superb performance anywhere. Remote Active units are supplied with the appropriate crossover card for the G41 Active Crossover unit.

The 320 includes a single bass driver and tweeter; the 330 adds an 8in (200mm) Auxiliary Bass Radiator (ABR); and the 350 features two bass drivers and two ABRs.

Heavy, rigid enclosures minimise wall and cavity excitation so you hear the speakers, and not wall resonances.

A white paintable low-resonance grille and frame is included, and rough-in boxes are available.

In every case, Meridian installation loudspeakers deliver the performance of a stand-alone design in a discreet enclosure with minimal visual impact – and awesome power.

On-wall, passive and DSP configurations are also available: contact Meridian for details.

Installation loudspeakers with true Meridian performance

Remote Active drive from G41 or C51 Powered Crossover/Amplifier (crossover module included with speaker)

Excellent, well-defined bass and clear, open mid-range

Accurate rendering of instruments and voice

High SPL with fast transient response

Heavy, rigid enclosures minimise wall and cavity resonances

Stable imaging with excellent depth

Wide dispersion for an excellent sound throughout the room

Excellent clarity for movie dialogue

Cable length compensation maximises performance

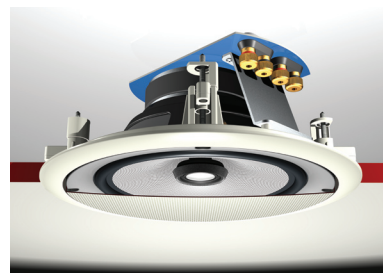
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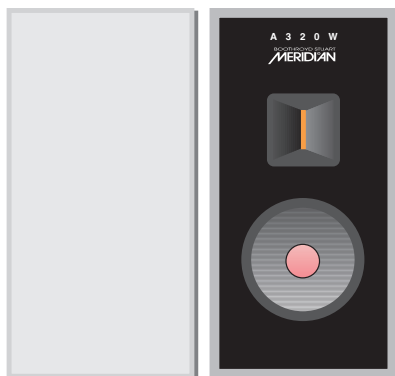
Remote Active Systems

A200Z

The **A200Z** in-ceiling speaker is a 2-way designs with an 8in (200mm) bass driver, pivoting tweeter and is supplied without crossover. The unit may also be mounted into standard 4-inch deep stud walls and is designed to occupy this depth. *See back page for dimensions.*



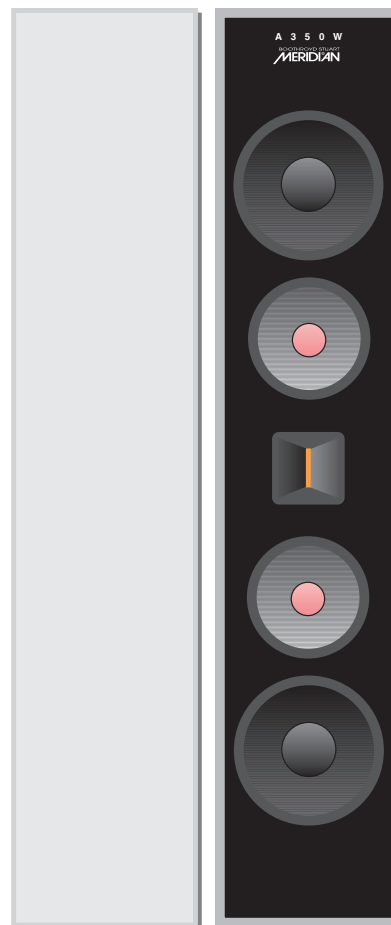
A320i/A320f



A330i/A330f



A350i/A350f



Wall Speakers

The **300 Series** consists of three sizes of ultra-slimline wall speakers, each offered in three mounting formats:

In-wall (surface grille) ("i" suffix);

Flush-mount (completely hidden, eg behind wall coverings) ("f" suffix); and

On-wall applications ("w" suffix) (*these are covered in a separate document*)

The 320 model only may also be ceiling-mounted.

Each unit features 6.5in (165mm) bass drivers, and a wide-dispersion ribbon tweeter for superb performance anywhere. Units are supplied with a crossover card for the **G41 Powered Crossover** system.

A white custom paintable grille and a white cloth-covered grille are included with the in-wall products. Rough-in boxes are available for in-wall or flush-mount applications. The flush-mount version is supplied without a grille, facilitating custom wall surface treatments.

The **320** includes a single bass driver and tweeter; the **330** adds an 8in (200mm) Auxiliary Bass Radiator (ABR); and the **350** features two bass drivers and two ABRs. All three models are available for passive ('P' prefix) and active operation ('A' prefix) and for in-wall, flush-mount or on-wall installation. *See opposite for dimensions.*

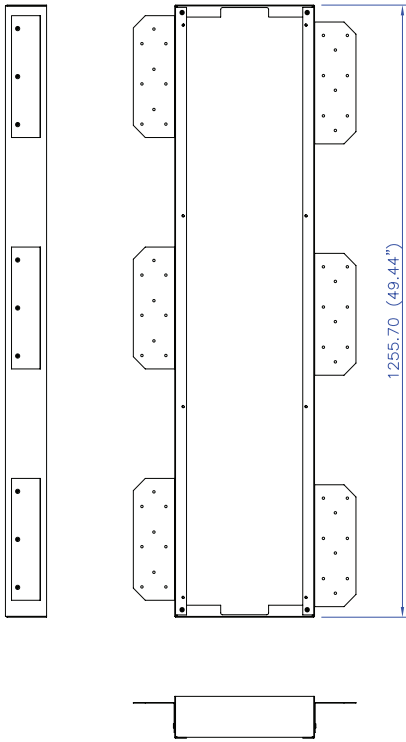
G41 & C51 Powered Crossovers

Two drive options are available for Meridian Remote Active loudspeakers, both utilising the same plug-in crossover modules supplied with the loudspeaker. The G41 provides eight channels of amplification which can be configured as four pairs of treble/bass amplification or three pairs of treble/bass plus two channels full-range. The G41 has a standard Meridian G-Series enclosure.

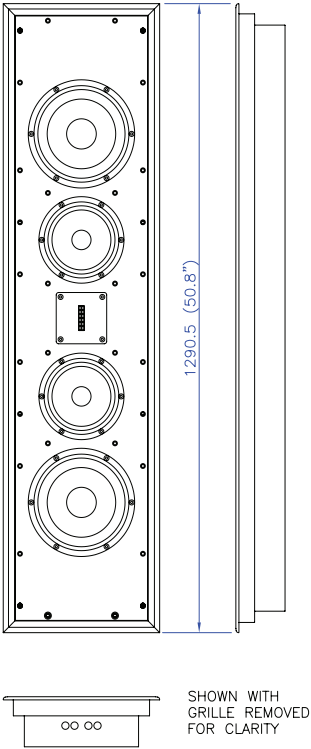
Additional details overleaf.

The C51 offers five pairs of treble/bass amplification and is a member of our C Series range of custom install products. *Separate data sheet available.*

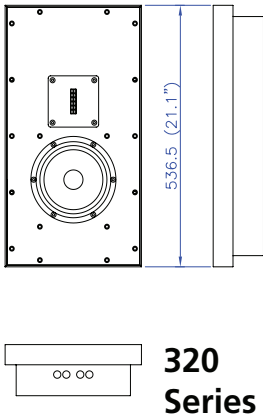
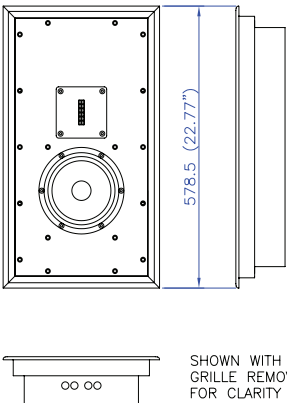
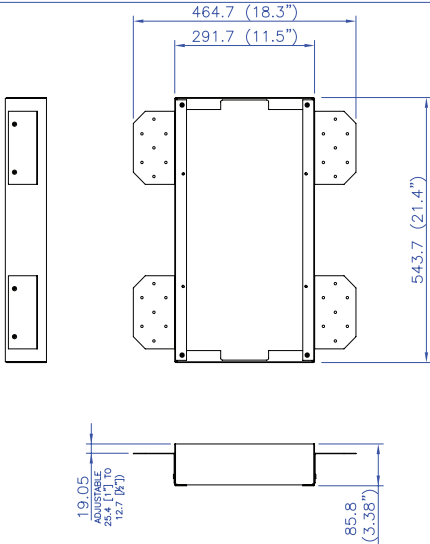
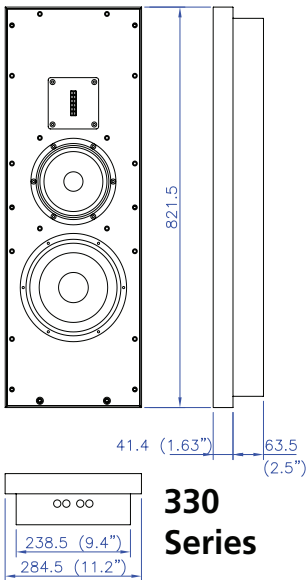
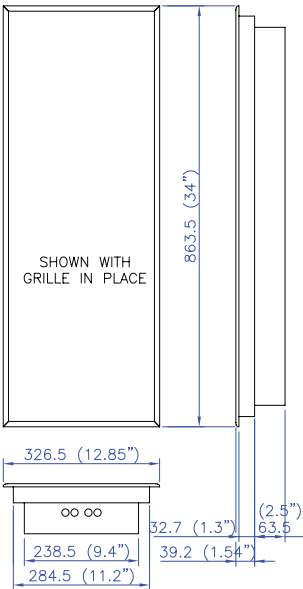
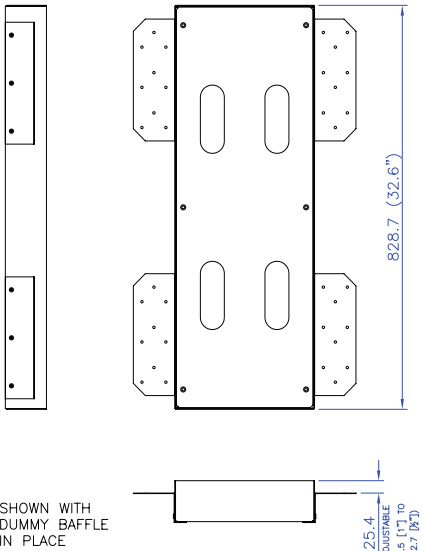
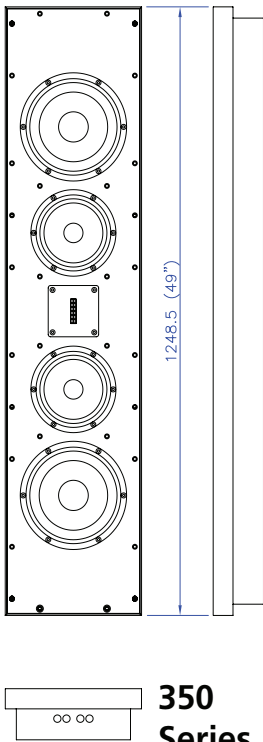
Mounting Frames



In-wall Series



Flush-mount Series



Remote Active Systems

Outline Specifications

A200Z

System	2-way in-ceiling/wall unit supplied with G41 crossover card
Bass driver	8in diameter, silver paper cone, rubber surround
Tweeter	1in diameter, aluminium diaphragm
Frequency response	52Hz-20KHz
Impedance	Nominal 8Ω
Sensitivity (1W/1M)	89dB/1Watt@1m
Power handling	10-80W
Hole cut-out diameter	9.37in/238mm
Outer frame diameter	10.75in/273mm
Depth for installation	4in/101.6mm
Weight	4.5lbs/2kg approx.

A320

System	2-way in-wall/ceiling* unit with G41 crossover card. Van den Hul internal wiring throughout
Bass driver	6.5in/165mm metal-coned driver
Tweeter	Wide-dispersion ribbon device
Impedance	Nominal 8Ω
Amplification	G41 Powered Crossover/Amplifier recommended

A330

System	2-way in-wall unit with Auxiliary Bass Radiator (ABR). Supplied with G41 crossover card.
Bass driver	Van den Hul internal wiring throughout
Tweeter	6.5in/165mm metal-coned driver
ABR	Wide-dispersion ribbon device
Impedance	8in/200mm Auxiliary Bass Radiator
Amplification	Nominal 8Ω
	G41 Powered Crossover/Amplifier recommended

A350

System	2-way in-wall unit with dual bass drivers and ABRs. Supplied with G41 crossover card.
Bass drivers	Van den Hul internal wiring throughout
Tweeter	2 x 6.5in/165mm metal-coned drivers
ABRs	Wide-dispersion ribbon device
Impedance	2 x 8in/200mm Auxiliary Bass Radiators
Amplification	Nominal 4Ω
	G41 Powered Crossover/Amplifier recommended

Crossover cards

designed for the G41 Powered Crossover/Amplifier (see below) are supplied with each loudspeaker. These feature premium quality Burr-Brown operational amplifiers and four-layer printed circuit boards.

Specify in-wall or flush-mount configuration (see dimensioned drawings inside). Rough-in boxes available separately.
 *The 320 units may optionally be ceiling-mounted; the 330 and 350 are not suitable for in-ceiling use.
 On-wall versions available later in 2006; contact Meridian for details.
 Passive versions are detailed in a separate datasheet.

G41 Powered Crossover/Amplifier

The G41 powers 200 and 300 Series installation loudspeakers in Remote Active mode. It features active crossovers, switched balanced and unbalanced inputs, and employs the same low-feedback topology as Meridian's G55/56/57 amplifiers, which was developed from that used in the flagship DSP8000.

Eight channels of approximately 100W/8Ω (180W/4Ω) RMS amplification are provided, grouped into four pairs, each providing bass and tweeter outputs from a full-range input.

The fourth channel pair can also be configured as two full-range amplifiers for driving a pair of passive loudspeakers, eg for surrounds. To do this, the right-hand modular crossover card is removed and replaced by one providing additional full-range unbalanced inputs.

Replacement labels identify the reconfigured output terminals (see rear panel illustration below).

The crossover modules take the form of cards which can be inserted at the time of installation to configure the unit for the speakers in use, and an appropriate card is supplied with each loudspeaker. Modules are available for the 320, 330

and 350, and each module includes a pair of LEDs that confirm the positive and negative power-rails are operative and identifies the crossover installed by means of the colour combination. 200 Series units can use the crossover or can be driven in passive configuration with the fourth amplifier pair configured for two channels of full-range operation.

Thermal, short-circuit and DC fault protection circuitry is included. The G41 has soft start, fan output and trigger input.

A unique feature of the G41 is a cable-length compensation switch. The amplifiers have a negative impedance to cancel out cable effects. This dramatically improves performance, tightening the bass response and giving significantly improved control and punch. Two switch-selectable settings are provided, one for cables under 10m and the other for cables over 10m in length. A separate rear-panel switch is provided for each pair of amplifiers.

Meridian Remote Active loudspeakers may also be driven by the C51 rack-mount unit, part of our C Series custom installation range. A separate data sheet is available on request.

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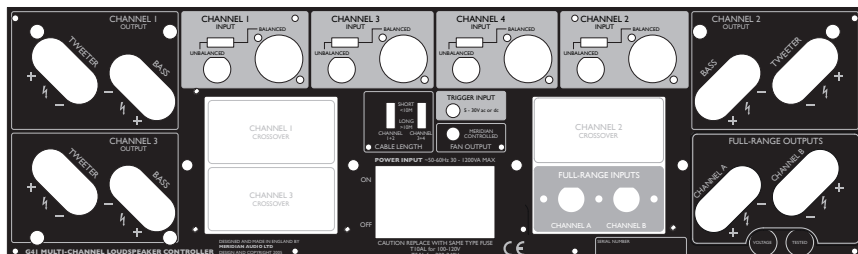
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