

C52 Active Subwoofer Controller

Dual controller designed to drive Meridian SW320 subwoofers



Meridian's C Series offers a range of robust, precision-made audio/video components designed with the custom installation market in mind, extending Meridian's strong reputation for the highest possible audio and video quality into new areas.

The line includes power amplifiers, surround processors and all the building-blocks of a powerful system for custom installation applications. All are fitted with rack-mounting ears and are equipped with remote control capability where appropriate.

The elegant matte-black rack-mount enclosures include a removable, transparent front panel inset which can be removed for access.

The Meridian C52 combines the finest materials with state of the art design to create what we believe is a superior subwoofer controller, emphasising extreme bass, depth, clarity, control, and articulation.

Each unit provides two controller and power amplifier channels allowing the use of two independent subwoofers. Both digital and active analogue inputs are provided, allowing the C52 to be connected either to a digital surround controller or digital source with a digital coax output, or to an analogue preamplifier or surround controller with either phono or balanced outputs.

Digital connectivity

The unit employs 96kHz/24bit digital-to-analogue conversion and accept digital inputs up to 96kHz including those carrying MHR signals.

Separate analogue and digital power supplies are used to feed the C52's precision electronic circuits, ensuring that both high and low power sections receive continual smooth supply.

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

Subwoofer drivers

The C52 is designed to be used with Meridian Installation Series subwoofer driver assemblies such as the SW320. However, passive subwoofers with similar specifications and capabilities may alternatively be employed.

Power amplifiers

The C52 includes Class D high efficiency ultra low output impedance amplifiers, optimised for both music and movie soundtracks.

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

Dual active subwoofer controller

Analogue and digital inputs

300W Class D amplifiers

Adjustable lowpass filter

Polarity switch

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Outline Specifications

| | |
|-----------------|---|
| Digital inputs | 2 x cable inputs, 32–96kHz PCM using S/PDIF, or MHR connection support with auto-detection. |
| Analogue inputs | 3 x phono inputs: mono, left, right, per channel. 2 x XLR balanced inputs: Channel 1 and Channel 2. |
| Output stage | Power amplifier: 300W Class D high efficiency ultra low output impedance (per channel). |
| Characteristics | Distortion <0.01%, typically <0.02% up to full power at all frequencies. Noise and hum < -72dBm. Frequency response 20Hz–400Hz. |
| Control | 2 x sets Meridian Comms (BNC in and out; DIN in and out). Variable gain control (per channel). Variable low pass filter 40Hz-150Hz. Filter defeat switch (per channel). Absolute phase (polarity) switch (per channel). |
| Power | 100/115/120V; 220/230/240V AC 50-60Hz. 20-500VA |

Meridian Audio reserves the right to amend product specifications at any time.

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