



Monoray
Ultimate flexibility with
uncompromising
performance

A masterful combination of design and engineering, the Monoray line is a revolutionary speaker system delivering state-of-the-art performance in any space.

Enjoy the magic of Electrostats in any room with flexible, zero-footprint mounting options and innovative system architecture that simplifies setup while integrating all elements, including the room, for the highest level of performance.



Symmetrical Line Source Speaker - SLSS

Combining our Curvilinear Line Source electrostatic panel with a line-array of dynamic drivers whose pattern-matched output delivers symmetrical far-field sound pressure levels, these Symmetrical Line Source Speakers achieve a cohesive and balanced presentation for the listeners.

Designed to be mounted on-wall or even in-wall, Monoray models are monopole line arrays, designed to complement flat panel TV setups in regular living areas.

Part of a fully integrated system, the SLSS is connected to a matched controller via a single cable for a clean look and simple setup. Multiple cable options are offered, including an in-wall choice for greatest stealth.

Monoray Controller

The heart of a fully active system, the Monoray controllers contain advanced signal management technologies and amplification engineered to deliver the highest levels of performance from the SLSS. With unique settings for on-wall, in-wall, or stand-alone deployments, the controller optimizes the base setup, then further integrates to the room with our full-featured Anthem Room Correction (ARC).

Simple to integrate with existing equipment, the controller may be fed any of the following signals:

- Analog RCA from traditional pre-amp
- Balanced RCA from preamp or surround processor
- AES/EBU on XLR from digital source (up to 384/24 LPCM)

Signal processing provides active crossovers between the two line-source speaker elements as well as optionally performing bass management for a self-contained 2.1 or 2.2 stereo plus subwoofer(s) configuration. Making it possible to enhance a classic 2Ch analog system with state-of-the-art active room-corrected speakers and subs for ultimate in-room results.

Dynamic Direct Panel Drive

Electrostatic panels present unique amplification challenges which are addressed with the innovative closed-loop PowerDAC architecture of our Dynamic Direct Panel Drive (DDPD) amplification stage. Eliminating the last passive element, the step-up transformer, between amp and panel, and fully integrating the panels dynamic feedback, the Direct Digital Feedback Amplifier (DDFA)-based topology drives high-voltage power MOSFET devices directly wired to the stators. Combining high-efficiency with extremely high-quality performance, DDPD is able to drive the panel to its full rated output across the specified spectrum.

A second DDFA subsystem drives the low-frequency line-array to achieve a fully balanced power output relative to the panel, enabling the Monoray systems smooth, extended power curve.

Further leveraging this closed-loop, DSP-enabled design, users may select from a list of 'classic' amplification models to achieve sonic signatures based on user preferences. Models from highly regarded tube designs achieve uncanny emulation thanks to the dynamic nature of the feedback and the DSP, thus the typical tube third-order harmonic distortion under load only appears when load would merit it.

Only a highly accurate, tightly coupled amplification and speaker system can offer this type of option, making DDPD unique in the world of audio.

Offered in dual and single channel versions, the DDPD1 is a single-channel controller for use with the Focus C18A or any Monoray speaker, and the DDPD2 is a wo-channel controller for a pair of Monoray speakers and optional subs.

DDPD-Link

Monoray controllers link up to their speakers via custom compound wiring with a simple single connector delivering all necessary signals to the speaker. Providing a clean look as well as security that high-power signals and control information are reliably and safely delivered. These cables are available in a range of lengths and options, including Kevlar sheathed in-wall, flat paintable, or round with choice of braided cover. Only if both ends are fully locked in and no cable issues detected will high-voltage ESL output be engaged. Besides speaker drive signals, the DDPD-Link cable provides DC power and control for optional in-speaker features, like the Hue-compatible lighting systems.

SLSS Details

Offering flexible mounting options, SLSS are compact enough for on-wall mounting using low-profile adjustable mounts, enabling the SLSS unit to be aimed at the main listening positions.

The SLSS shell is made from reinforced carbon-fiber for ultimate strength, light-weight and provide the compound shapes necessary to achieve the levels of performance and quality worthy of the MartinLogan name.

Balanced monopole operation is maintained with a combination of rear-chamber absorption and carefully tuned passive radiation between the woofer and CLS chambers to maintain balanced diaphragm pressures at low-frequencies.

SLSS Aesthetic choices are many, from stealthy in-wall mount with paintable screen, to ten fine finishes and selections for woofer-array cover fabric. An optional full coverage fabric may be ordered in any color or with customer selected print. Highlight the unique design with dramatically backlit ESL element, glowing with your choice of Hue-compatible color and intensity settings.

Stackable SLSS

The ultimate line-array speaker configuration is achieved by vertically stacking two SLSS units per channel using a unique in-wall frame. The DDP controllers have settings for stacking configurations where each unit is designated as top or bottom, and specifying vertical distance from adjoining boundary. With a significant 88" long line-source, a stacked array produces a large soundfield with extended dynamics.

Room-friendly ESL

Monoray speakers deliver high performance, high-quality sound reproduction to more locations than ever before. Simple to deploy and integrate, Monoray systems achieve outstanding results with minimal effort, allowing you to enjoy the magic of symmetrical line source electrostatic speakers in any room.

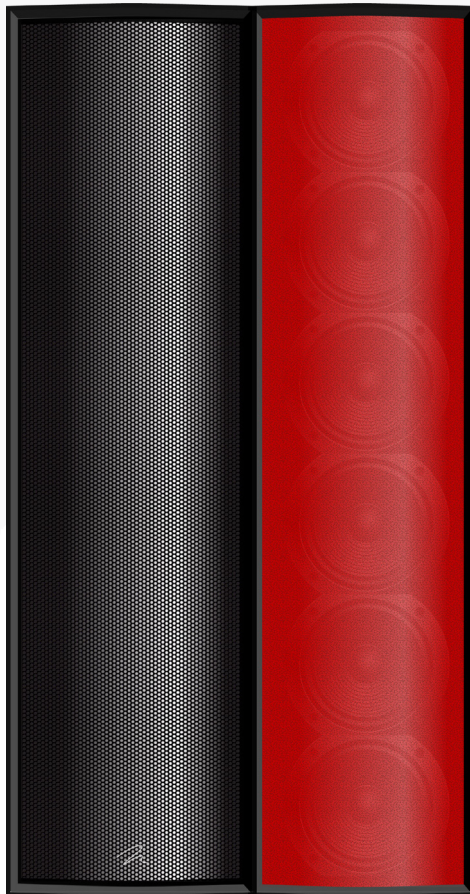
Models and specs

Monoray 408 – A 42" h x 16" w x 6" d unit housing a 40" x 8.6" ESL panel and six 5" line-array woofers.

- 408 - 48Hz to 20,000Hz, consistent power curve to 103dB SPL at less than 0.2% THD

Monoray 4413 – A 46" h x 22" w x 7" d unit housing a 44" x 13" ESL panel and six 6 ½" line-array woofers

- 4413 - 39Hz to 20,000Hz, consistent power curve to 105dB SPL at less than 0.2% THD
See companion brochure for details on Focus C18A center channel.



Monoray 4413 with red woofer fabric

It Sounds True