

PRESS RELEASE
MEYER SOUND LABORATORIES, INC.



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Meyer Sound MVC-5 Graduated Vertical Coverage Loudspeaker

Meyer Sound has announced the release of the MVC-5 graduated vertical coverage loudspeaker, a self-powered, multiple-element, curvilinear array with fixed splay angles, housed in a single compact enclosure. The system is ideally suited for voice reproduction in large spaces with single-level listening areas at minimal or gradual elevations.

Though primarily intended for voice, the MVC-5 is also capable of reproducing recorded music and sound for audio-visual presentations in the context of meetings, corporate and other events, or in houses of worship.

Its high SPL capabilities, excellent intelligibility, controlled coverage, and self-powering make the use of multiple MVC-5 cabinets extremely useful in distributed systems for airports and other transportation hubs, above industrial/manufacturing floors (especially those with higher ambient noise levels), convention and trade-show venues, theme parks, hangars, city-walks and promenades, and other large, open areas where the loudspeakers can be distributed and suspended. Smaller spaces may be effectively filled by only one or two cabinets.

The MVC-5 loudspeaker is functionally similar to a line array consisting of five M1D ultra-compact curvilinear array loudspeakers with splay angles optimized for moderately high SPL and controlled graduated vertical coverage. For applications where coverage needs are compatible with the MVC-5, this design results in a very flat response and even coverage, from a single unit in a smaller space or multiple units in a distributed system.

When suspended in a venue, the MVC-5 loudspeaker can achieve levels useful for speech reinforcement (approximately 90db peak on axis) at distances up to 300 feet. By distributing and properly delaying enclosures approximately 100 to 200 feet from each other in the on-axis orientation, the system will provide smooth, even coverage throughout a very large single-level listening area. The MVC-5 is designed for suspension only.

The MVC-5's horizontal coverage angle is 100°, allowing each enclosure to cover a relatively wide listening area. The unique graduated stepped vertical coverage can produce similar sound pressure levels and frequency response at both longer distances on axis to the upper portion of the enclosure and shorter distances below and closer to the loudspeaker. Overall vertical coverage extends downward approximately 50° below direct on-axis positioning.

Careful spacing and electronic control of all components enables the MVC-5 to provide even and consistent full-range coverage, and controlled directionality above 300 Hz. Precise electronic control of the drivers operating in their linear range yields flat phase and frequency responses throughout the unit's operating frequency range of 60 Hz to 18 kHz, for a system with extraordinary speech intelligibility.

The low- and mid-frequency section of the MVC-5 consists of 10 precisely spaced five-inch cone drivers arranged in a two by five configuration. At lower frequencies, all drivers combine to reproduce powerful, coherent bass response. In the mid frequencies, the crossover feeds the signal to only the five drivers adjacent to the high-frequency horns, thus eliminating interference between the cone drivers and maintaining optimal polar and frequency response characteristics at the crossover with the high frequency drivers.

The high-frequency section consists of 15 vertically aligned 0.75-inch dome drivers installed in five constant-directivity horns with a broad 100° horizontal coverage. The aligned set of high-frequency drivers functions as a line array, focusing the sound into an graduated controlled vertical coverage pattern ideal to cover single-level listening areas.

The MVC-5 is designed for single-enclosure suspension and features four ring and stud fittings on top, plus a single fitting on the bottom to adjust the pull-up angle. The tightly sealed enclosure, special adhesives and paint, multi-layer grille, and other dust- and weather-resistant appointments form a distributed, self-powered loudspeaker system that will maintain its reliability and performance for many years under continual use.

ABOUT MEYER SOUND

Meyer Sound Laboratories, Inc. designs and manufactures high quality sound reinforcement loudspeakers, studio monitors, equalizers and sound measurement tools for the professional audio industry. Founded in 1979 by John and Helen Meyer, the company has grown to become a leading worldwide supplier of systems for theaters, arenas, stadiums, theme parks, convention centers and touring concert sound rental operations. Meyer Sound's main office and manufacturing facility are located in Berkeley, California, with field offices and authorized distributors located throughout the USA and around the world.

More information is available at Tel: +1 (510) 486-1166, Fax: +1 (510) 486-8356, e-mail: info@meyersound.com, or by visiting www.meyersound.com.

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