

# K-array Thunder-KSCARDIO412P



K-array, a manufacturer of innovative audio technologies, has announced that its Thunder-KSCARDIO412P passive cardioid subwoofer is now shipping. First previewed at Integrated Systems Europe (ISE) in Barcelona earlier this year, the KSCARDIO412P is a compact, single-cabinet solution designed to give professional audio engineers precise low-frequency control without the complexity traditionally associated with cardioid subwoofer systems.

Cardioid subwoofer configurations have long been valued for their ability to reduce unwanted rear sound radiation. This offers a significant advantage in live event and fixed installation environments where stage spill and monitor feedback can compromise audio quality. Achieving this effect has traditionally required carefully configured multi-cabinet arraying, external DSP processing, and the application of delays. The Thunder-KSCARDIO412P is designed to take away that complexity, delivering true plug-and-play cardioid performance from a single enclosure with no additional signal processing or time alignment required in standard configurations.

At the heart of the cabinet are four 12-inch neodymium magnet woofers, providing low-frequency response down to 35 Hz and a maximum output of 138 dB SPL. The KSCARDIO412P weighs only 61.7 kg, a compact footprint for the power on offer, making it practical for both touring rigs and permanent installs. The enclosure is constructed from birch plywood with a polyurea coating, built to withstand intensive use and regular transport, and is available in black or custom RAL finishes.

The system supports both mono-amp and bi-amp operating modes, offering

## K-array expands its Thunder Range with New Cardioid Subwoofer

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flexibility for engineers working with different amplifier configurations. In bi-amp mode, rear attenuation of up to 20 dB is achievable, allowing for highly controlled low-frequency directivity. Critically, the cardioid pattern remains stable whether the cabinet is deployed horizontally or vertically, and in single or side-by-side configurations. This addresses an important practical consideration for system designers working across varied venue layouts.

The KSCARDIO412P is well-suited to a broad range of professional applications, including live touring, theatres, clubs, DJ venues, beach bars, rooftops, and broadcast environments. It is compatible with K-array's K-Framework3 software for system design and configuration.

"Achieving true cardioid performance has historically meant complex setups, multiple cabinets, and a significant investment of time on site. With the KSCARDIO412P, we wanted to change that, giving engineers a single cabinet that delivers powerful, predictable low-end with genuine rear rejection, straight out of the box. The response we received at ISE confirmed that this is exactly the kind of solution the market has been asking for, and we're delighted to now be putting it into the hands of AV professionals worldwide," said Lorenzo De Poi, brand manager at K-array.

The Thunder-KSCARDIO412P joins K-array's established Thunder subwoofer range and is available now through K-array's global distribution network.

[www.k-array.com](http://www.k-array.com)