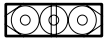


KSCARDIO412P

Compact high-performance passive cardioid subwoofer



subwoofer



Description

The Thunder-KSCARDIO412P joins the Thunder family as a state-of-the-art cardioid subwoofer, delivering extremely powerful low-frequency output while significantly reducing rear sound radiation. Designed for professional live sound and fixed installations, it ensures clean, focused bass with controlled back emissions.

Powered by four 12-inch neodymium woofers, it achieves a maximum SPL of 138 dB with continuous power handling up to 2500 W. Its cardioid design offers up to 12 dB of rear attenuation in Mono-Amp mode and up to 20 dB in Bi-Amp mode, without requiring complex external processing.

Housed in a robust birch plywood cabinet with a slim footprint, the Thunder-KSCARDIO412P combines high SPL performance with efficient space usage. 2x SpeakOn NL4 connectors and selectable mono/bi-amp impedance ensure flexible integration and controlled bass.

Features

- Type: Passive cardioid subwoofer
- Transducers: 4× 12" neodymium magnet woofers
- Frequency Response: 35 Hz – 150 Hz (–6 dB)
- Coverage: Cardioid
- Max SPL: 138 dB
- Configuration:
 - Mono amp: rear attenuation up to –12 dB
 - Bi-amp: rear attenuation up to –20 dB
- Connectors: 2x SpeakOn NL4
- Nominal Impedance:
 - Mono amp: 4 Ω (2500W rated power)
 - Bi-amp: 4 Ω + 16 Ω (2100 W + 700W)

Applications

Clubs, Beach Bars, Rooftops, DJ Clubs, Theaters, Live events, Broadcast, Fixed installations.

Colors Available

- Black



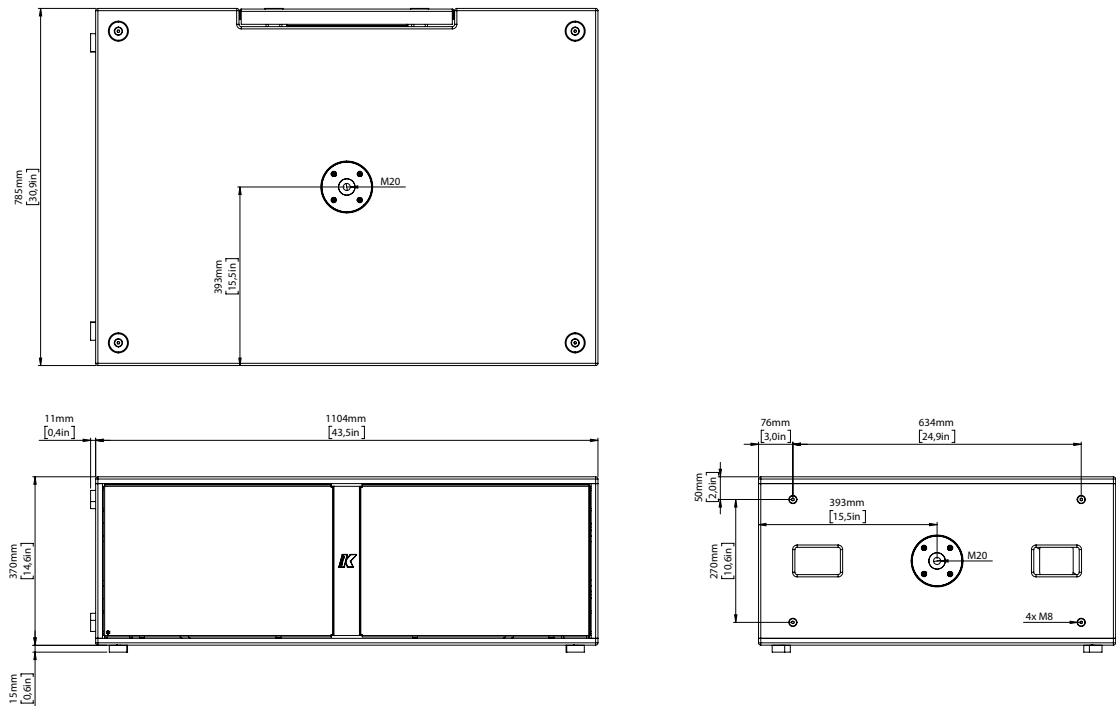
Preliminary
www.k-array.com

KSCARDIO412P

Compact high-performance
passive cardioid subwoofer



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Technical Specifications

Type	Passive cardioid subwoofer
Transducers	4x 12" ferrite magnet woofers (3x front, 1x rear)
Frequency Response ¹	35 Hz - 150 Hz (-6 dB)
Crossover & filtering ²	Internal ²¹ , bypassed ²²
Max SPL ³	138 dB (peak)
Coverage ⁴	Cardioid
Rated Power	2500W Mono-amp 2100W + 700W Bi amp
Nominal Impedance	4 Ω Mono-amp (CH1) 4Ω + 16Ω Bi amp (CH1=front, CH2=rear)
Connectors	2xSpeakOn NL4 1+1- / 2+2- (signal); 1+1- / 2+2- (link)

Handling & Finishes

Material	Polyurea coated birch plywood
Color	Black
IP Rating	IP54
Dimensions ⁴ (WxHxD)	370 x 1104 x 785 mm (13,38 x 31,49 x 8,46 in)
Weight	62,4 kg (137,58 lbs)

1. With dedicated preset.
2.1. Mono-amp: internal crossover and filters enabled, managed by a dedicated preset.
2.2 Bi-amp, internal crossover bypassed by switch, precessing via external DSP
3. Maximum SPL is calculated using a signal with crest factor 4 (12dB) measured at 8 m then scaled at 1 m.
4. Mono-Amp mode: rear attenuation -12 dB (typ.). Bi-Amp mode: rear attenuation up to -20 dB (max.)
4. Vibration-dumping feet 0,15mm (0,16in)

All product components are designed and custom-made by K-array's R&D department, adhering to the company's stringent quality control standards.



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