K-ARRAY
Unique Audio Solutions

Mugello-KH2P1

Small-format passive line array element





Description

Incredibly flat and lightweight, the Mugello-KH2P1 is the smaller line array element in K-array's Mugello Series, a passive speaker featuring two 8" neodymium magnet woofers with 2.5" voice coils and two compression drivers with 2.5" voice coils. I Designed for bi-amp operation, it pairs seamlessly with the channels of the Kommander-KA208 amplifier, delivering a peak power of 250 W for high frequencies and 1200 W for low frequencies, with an impedance of 16 ohms (HF) and 8 ohms (LF), ensuring exceptional performance in an ultra-compact form factor.

The Slim Array Technology of the Mugello-KH2P1 allows for a better impulse response and guarantees unique cardioid polar pattern over its entire frequency range.
Along with the mechanical steering, K-array's Electronic Beam Steering technology gives the Mugello-KH2P1 the ability to digitally adjust the dispersion of the sound beams to ensure the perfect aiming of the sound field.

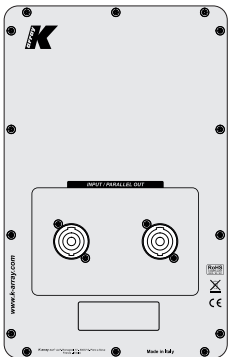
For more demanding applications, a marine version KH2PM is available with a specialized treatment that enhances durability against water exposure and harsh conditions, achieving an IP55 protection rating.

- 2x 8" neodymium magnet wooferswith a 2.5" voice coil
- 2x horn loaded compression drivers with a 2.5" voice coil
- Bi-amplified: High 250 W_{peak} @ 16 Ω | Low 1200 W_{peak} @ 8 Ω
- V. 20° digitally adjustable in array I H. 110°
- Accessories available for ground stacking and suspended array configurations
- Mechanically compatible with Thunder-KS line subwoofers
- Driven by Kommander-KA104 or Kommander-KA208 amplifier
- Available in black and custom RAL color



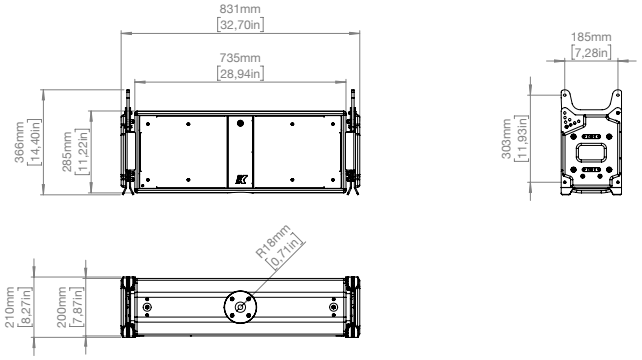
Suspended configurations with optional flybars and sobwoofers.

Mugello-KH2P I

Technical specifications	
Type	Passive line array element
Transducers	2x 8" neodymium magnet woofers with 2.5" voice coil 2x horn loaded compression drivers with 2.5" voice coil
Frequency Response [1]	120 Hz – 19 kHz (-6 dB)
Max SPL [2]	142 dB peak
Coverage	V. 20° digitally adjustable in array I H. 110°
Power handling	Bi-amp: HF: 250 W_{peak} LF: 1200 W_{peak}
Nominal Impedance	HF: 16 Ω LF: 8 Ω
Connectors	Speaker input/parallel output 2x SpeakON NL4 HF: IN and Link 1+/1- LF: IN and Link 2+/2-
Rear Panel	

Handling & Finishes	
Material	Polyurea coated birch plywood
Colors	Black, Custom RAL
IP Rating	IP54 [3]
Marine grade IP rating	IP55 [4]
Dimensions (WxHxD)	net dimensions: 735 x 285 x 200 mm (28,94 x 11.22 x 7.87 in) with rigging hardware : 831 x 285 x 210 mm (32.7 x 11.22 x 8.27 in)
Weight	24 kg / 53 lb with rigging hardware

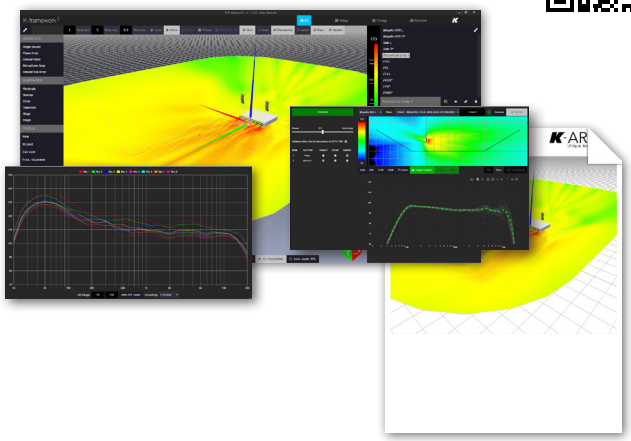
[1] With dedicated preset.
[2] Maximum SPL is calculated using a signal with crest factor 4 (12dB) measured at 8 m then scaled at 1 m.
[3] In case of permament, long lasting outdoor installation, we recommend to further protect the speaker. Contact K-array directly to discuss best protection practices.
[4] Specialized marine treatment for more water protection and corrosion.



Accessories	
K-HCFLY2 I	Flybar for suspended installations
K-STEPM2 I	Flybar for step array suspended installations
K-HCBASE2	Ground stacking hardware for KH2 I / KH2P I
K-HCFLYST2	Straight cluster fly bar for KH2 I / KH2P I
K-HCLINK2/35	Adapter for joining KH2 I at the bottom of a cluster of KH3 I or KH5 I
K-HCDOLLY2 I	Dolly for 6 KH2 I / KH2P I

K-framework3 is the managing and control software dedicated to professionals and operators looking for a powerful tool for designing and managing a large number of units over a wired LAN in demanding applications.

WINDOWS and OSX software
K-framework3
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Notes:
Passive loudspeakers require dedicated presets loaded onboard K-array amplifiers.
New materials and designs are introduced into existing products without previous notice.
Present systems may differ in some respects from those presented in this catalog.