



KH4

High technology self-powered line-array element

Features:

- K** Unique performance-to-size ratio
- K** Self powered
- K** Integrated DSP and remote control
- K** Variable vertical coverage
- K** Wide horizontal coverage
- K** Very flat profile
- K** Integrated flying and stacking hardware
- K** Top quality components for outstanding performances
- K** Ultra fast set-up and dismantling system
- K** For use in stand alone arrays or in combination with other **K-array** systems

Applications:

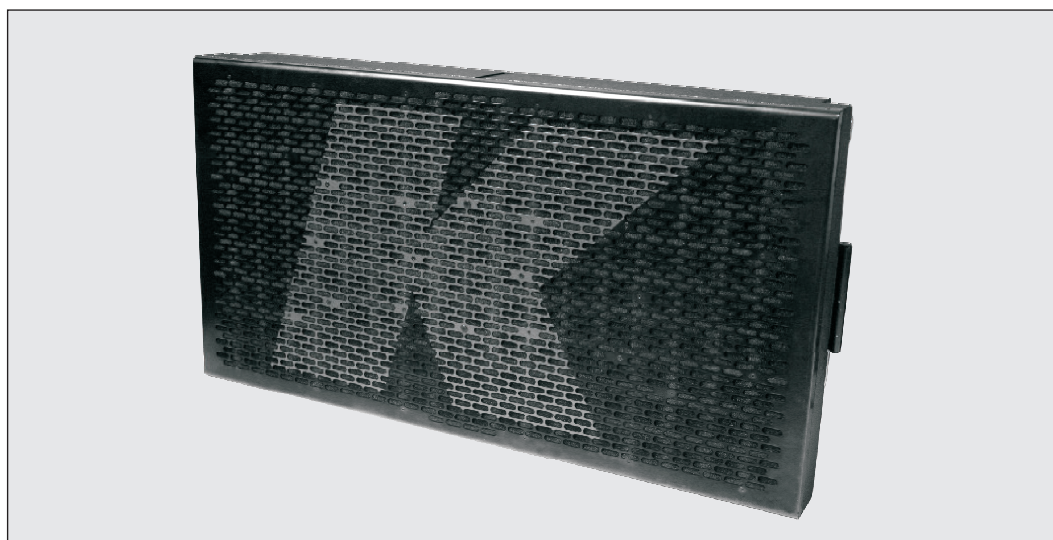
- K** Large scale events
- K** Touring sound reinforcement
- K** Stadiums, arenas, concert halls, theatres
- K** Installations in low-load capacity situations

The **KH4** is a self-powered 2 way line array design speaker. It has an incredible reserve of power that ensures very high pressure maintaining the sound quality constant. The **KH4** is ideal for longer throw applications in large venues, yet it is only 16cm flat and 47Kg of weight, these allow for its use in more compact spaces. The **KH4** is designed to easily integrate with others **K-array** products, for example with **KS4** subwoofers.

The **KH4** use twelve 8" inches cone drivers for low-mid frequencies with 2.5" voice coil, powered by six power amplifier channels. The mid-high frequencies section use five 1.75" voice coil compression drivers, that drive 1"x4" constant directivity waveguides. The drivers form an array exactly in the centre of the speaker, a mechanical system can perform different vertical coverage, from 7° to 37° on each **KH4**.

The transducers of **KH4** are driven by an internal DSP module, a dedicated remote control software allows to control the speaker from PC.

All the **KH4** components are designed by **K-array** R&D department and custom made under **K-array control quality system**.



Technical Details

Acoustics	
Power handling	3600 w + 400 w ¹
Max power	5000 w + 700 w ²
Impedance	6 x 4 Ω + 1 x 8 Ω + 1 x 6 Ω
Operating frequency range	60 Hz - 19 KHz +/- 3dB (preset relating) ³
Frequency range	40 Hz - 20 KHz +/- 3dB (preset relating) ⁴
SPL 1W/1mt	105 dB (low-mid) + 113 dB (high 1) + 114 dB (high 2) ⁵
Maximum SPL	139 dB continuous - 145 dB peak ⁶
Coverage	
Horizontal	120°
Vertical	mechanically variable from 7° to 37°
Cross over	
Type	DSP controlled preset relating
Frequency	1.2 KHz minimum (preset relating) ⁷
Transducers	
Low - Mid frequency	12 x 8" Neodymium speakers with 2.5" voice coil
High frequency	5 x 1" Neodymium planar wave drivers with 1.75" voice coil
Audio Input	
Connectors	male + female parallel 3 poles balanced XLR
Wiring	Pin1 = ground / Pin2 = hot / Pin3 = cold
Remote control Input	
Connectors	2 x female 8 poles RJ45
Power Input	
Connectors	2 x PowerCon IN/OUT
Amplifiers	
Type	4 modules class D - DSP controlled
Power	500 watts x 8 channels on 4 ohm (4000 watt total) ⁸
Protections	Dynamic limiter, over current, over temp, short circuits
AC power	
Operating range	Standard 210 - 240 Vac 50Hz (standard) Optional 100 - 120 Vac 60Hz (optional)
Max continuous and burst current	Standard 12A(>10 sec) - 24A (<1 sec) Optional 20A(>10 sec) - 40A (<1sec)
Physical	
Measures	112 x 60 x 16 cm
Weight	47 Kg

Notes for data

1. Power handling is measured following AES standard conditions: transducers driven continuously for two hours with a band-limited noise signal having 6 dB of crest factor.
2. Max power is the maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard.
3. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
4. Free field measured with 1/3 octave frequency resolution at 2 mt.
5. Measured@4 mt then scaled@1 mt.
6. Measured with audio source @1 mt.
7. This is the frequency in which the transducers produce the same sound pressure level (measured@2 mt).
8. Amplifier wattage rating is based on the maximum unclipped burst sine wave RMS voltage that the amplifier will produce into the nominal load impedance.

New materials and design are introduced into existing products without previous notice.
Present systems may differ in some respects from those presented in this brochure.

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