

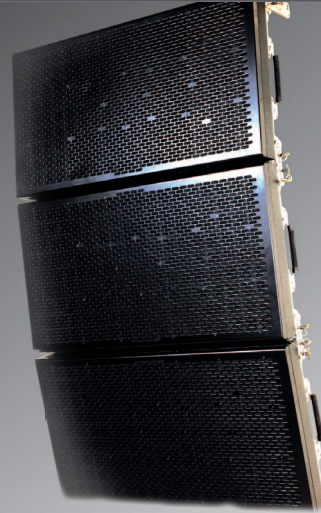
KH4

High technology self-powered PA System and line array element

Features:

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

array **K**



Applications:

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

Accessories:

- K-CASE3: Flight-Case for K modules (3pcs of KH4/KS4 or 2pcs of KS4/KH4 + 4pcs KH15)
- K-CASE2: Flight-Case for K modules (2pcs of KH4/KS4 or 1pcs of KS4/KH4 + 4pcs KH15)
- K-CASE1: Flight-Case for K modules (1pcs of KH4/KS4 or 4pcs KH15)
- K-FEET: Feet Kit for ground stacking applications
- K-FLY4: Flying bar for flown applications
- K-FLY4/15: Flying bar for fitting KH15 units under KH4/KS4 cluster



The K-array KH4 is a self-powered, 2-way line array design speaker system. At just over 100 Lbs (47 Kg) and 6" depth (16 cm) its ultra-compact aluminum enclosure contains an incredible reserve of power that ensures very high sound pressure with wide, consistent (120°) horizontal coverage and the unique capability for varying the vertical coverage from 7° for line array applications to as wide as 37° for single speaker systems. This provides for an incredibly versatile and flexible cost-effective inventory.

The KH4 is best suited for medium to long throw applications in theatres, concert halls and churches, and for corporate AV events. The KH4 easily integrates with other K-array products such as the KS4 large format bass line array element, or KH15 satellites. Bass response and output capability can be

extended with the incorporation of the KO70 or KO40 powered sub bass cabinets.

The KH4 uses twelve 8-inch cone drivers with 2.5" voice coils for low-mid frequencies, powered by six power amplifier channels. The mid-high frequency section uses five 1.75" voice coil compression drivers mounted on 1"x 4" constant directivity waveguides. The drivers form an array exactly in the centre of the speaker. A mechanical system can provide different vertical coverage from 7° to 37° on each KH4.

An internal DSP module provides configuration presets. Dedicated remote control software allows for control of the speaker from a PC. All KH4 components are designed by the K-array R&D department and custom made under the K-array quality control system.

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	KH4
	Acoustics
Speakers power handling	3600 w + 400 w ^(AES)
Max Power	5000 w + 700 w ¹
Impedance	6 x 4Ω + 1 x 8Ω + 1 x 6Ω
Full frequency range	80 HZ - 20 KHZ.
SPL 1W/1mt	105 dB (low-mid) + 113 dB (high 1) + 114 dB (high 2) ²
Maximum SPL	133 dB continuous - 139 dB peak
	Coverage
Horizontal	120°
Vertical	mechanically variable from 7° to 37°
	Cross over
Type	DSP controlled
Frequency	1.2 KHz
	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-pin balanced XLR
Wiring	Pin1 = ground / Pin2 = hot (+) / Pin3 = cold (-)
	Remote control Input
Connectors	2 x female 8-pin RJ45
	Power Input
Connectors	2 x PowerCon IN/OUT
	Amplifiers
Type	4 modules class D - DSP controlled
Power	500 watts x 8 channels at 4 ohms (4000 watt total) ³
Protection	Dynamic limiter, over current, over temp, short circuits
	AC power
Operating range	210 - 240 Vac 50Hz (default) 100 - 120 Vac 60Hz (selectable)
I.nom	7.2 A / 115 Vac - 4.4 A / 230 Vac
Minimum operation voltage	95 - 195 Vac
Maximum operation voltage	125 - 250 Vac
Max continuous and burst curren	(Default) 12A(>10 sec) - 24A (<1 sec) (Selectable) 20A(>10 sec) - 40A (<1sec)
	Physical
Dimensions	max 117 x 60 x 16,5 cm (46,34" x 23,62" x 6,5")
Weight	51 Kg (113.32 lbs)
	<i>Notes for data</i> 1. Maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard. 2. Measured @4 mt then scaled @1 mt 3. 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.

