

KN6

High technology self-powered point/line source speaker

Features:

- Unique performance-to-size ratio
- Self powered
- Integrated DSP
- Flat amplitude and phase response
- Selectable point/line source emission
- Integrated 35mm pole adapter
- Ultra strong stainless steel enclosure
- For stand-alone use or as line array element

Applications:

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Installed audio-visual systems
- Cinema surround sound and effects
- Compact voice reinforcement



array **K**

DATASHEET



The KN6 is a stainless steel, self-powered, 2-way full range speaker system. It is compact and powerful with five individual D class amplifier channels dedicated to each of its five transducer elements. It has a wide 130° vertical coverage pattern and the ability to select the horizontal coverage from 10° to 130°, making it useable as both a point source and as a line array element.

It is ideal for medium throw applications in theatres, concert halls, houses of worship and AV installations. The KN6 uses two 6" Neodymium cone speakers with 2.5" voice coils

for low-mid frequencies. The mid-high frequency section employs three 1" voice coil Neodymium compression drivers. The transducers are optimized with on-board DSP pre-sets. The KN6 is designed to easily integrate with KN10s self-powered subwoofer.

Dedicated remote control software allows for control of the speaker system from a PC. All KN6 components are designed by the K-array R&D department and custom made under the K-array quality control system.

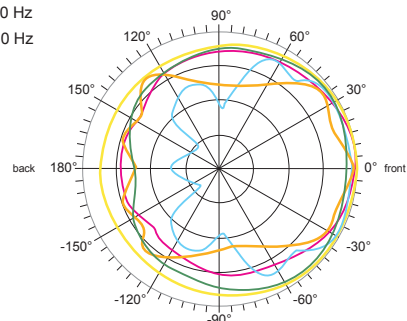
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	KN6
	Acoustics
Speakers Power handling	2x250 + 3x20 w ^(AES)
Max power	2x500 + 3x40 w ¹
Impedance	2x4Ω + 3x16Ω
Frequency range	45Hz - 19 KHz +/- 3dB (preset dependent)
SPL 1W/1mt	96 dB (low) 104 dB (high) ²
Maximum SPL	125 dB continuous - 131 dB peak
	Coverage (in horizontal position)
Horizontal	130°
Vertical	selectable from 10° to 130°
	Crossover
Type	DSP controlled
Frequency	1.8 KHz minimum (preset dependent)
	Transducers
Low - Mid frequency	2 x 6" Neodymium speakers with 2.5" voice coil
High frequency	3 x 0.5" Neodymium compression driver with 1" voice coil
	Audio Input
Connectors	male + female parallel 3-pin balanced XLR
Wiring	PIN1= ground PIN2 = hot (+) PIN3 = cold (-)
	Power Audio Output
Connectors	-
	Remote control Input
	-
	Power Input
Connectors	2 x 3-pin PowerCon IN/OUT
	Amplifiers
Type	2 x 350W @4Ω class D amplifier channel - DSP controlled + 2 x 20W class A/B amplifier channel
Power (woofer)	350 + 350 Watt ³ @ 4Ω
Power (driver)	3 x 70 Watt ³ @ 4Ω
Protection	Dynamic limiter, over current, over temp, short circuits
	AC power
Operating range	85 - 270 V _{AC} 50/60Hz autorange
P. nom	140 VA
Power Factory (1/2 max out/8Ω)	0.97
Minimum operation voltage	70 V _{AC}
Maximum operation voltage	265 V _{AC}
Max continuous and burst current	140VA(>10 sec) - 700VA (<1 sec) autorange
	Physical
Dimensions	17.5 x 51 x 19 cm (6.89"x 20.08"x 7.48")
Weight	11.4 Kg (25.13 lbs)

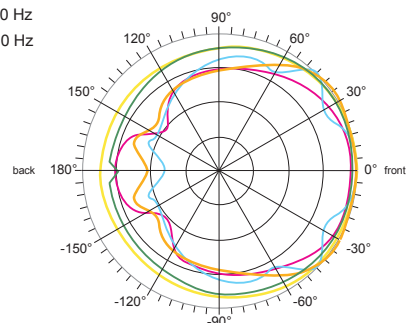
DISPERSION GRAPHS

— 8 KHz
— 4 KHz
— 1 KHz
— 500 Hz
— 250 Hz



horizontal

— 8 KHz
— 4 KHz
— 1 KHz
— 500 Hz
— 250 Hz



vertical

Notes for data

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.