

# KK50vb - Through Thick & Thin

## Features:

- K** Selectable vertical coverage
- K** Unique performance-to-size ratio
- K** Multiple 2" long excursion full-range drivers
- K** Wide horizontal coverage
- K** Smooth frequency response
- K** High dynamic range capability
- K** Top quality components for outstanding performances
- K** Essential frame for invisible arrays
- K** Available in Black or White

## Applications:

- K** Theatres main PA arrays
- K** House of worship
- K** Front and under-balcony fill
- K** Portable and installed AV systems
- K** Stage and AV-Studios monitoring

K-Array technology delivers what others cannot; the latest innovation from K-Array is the Kobra KV50vb. A revolutionary variable beam line array that marks a milestone in PA technology.

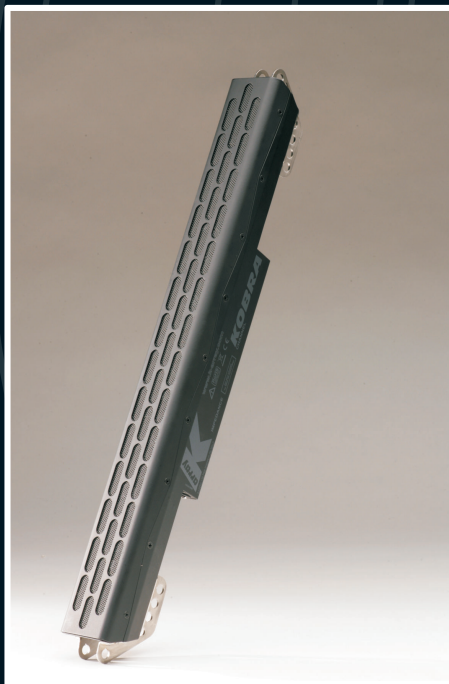
The KV50vb is a high technology 3D line array speaker system that can produce extremely high sound pressure levels with unprecedented quality.

K-Array are masters in the art of producing stylish compact systems that deliver far more than seems plausible from such tiny enclosures. Now the KV50vb moves the goal post even further from the competition with its patented (pending) variable beam engineering.

All Kobra systems have the ability to be mounted in the traditional vertical manner or horizontally making them all but invisible in situations such as TV studios, places of worship, etc. The KV50vb has another advantage: it can change the coverage from the usual 7° to an amazing 120° at the mere flick of a switch. This ability coupled with its diminutive size and weight make this an unparalleled line array system that is perfect for almost any venue from small clubs to large outdoor events.

The KV50vb's rugged military spec enclosure is built to stand the rigours of heavy touring, but not at the expense of weight and size. It contains a line array of 8 2" high efficiency drive units with neodymium magnet structures and suspensions engineered for maximum linear excursion and minimum residual transducer noise.

This tiny slim column is a mere 3.6cm deep and weighs in at an extremely modest 9Kg, yet it delivers true crystal clear audio with an output of 114dB continuous.



## Technical Details

Acoustics	
Power handling	150 W <sup>1</sup>
Max power	300 W <sup>2</sup>
Impedance	16 Ω
Operating frequency range	200 Hz - 19 KHz +/- 3dB (preset relating) <sup>3</sup>
Frequency range	150 Hz - 20 KHz +/- 3dB (preset relating) <sup>4</sup>
SPL 1W/1mt	92 dB (low-mid) <sup>5</sup>
Maximum SPL	114 dB continuous - 120 dB peak <sup>6</sup>
Coverage	
Horizontal	100° (single unit) - array dependent
Vertical	7° or 120° selectable
Transducers	
Low - Mid frequency	8 x 2" Neodymium cone driver with 1.75" voice coil
High frequency	1 x Neodymium dome tweeter with 1" voice coil
Power Audio Input	
Connectors	Two x 4 pins SPEAKON
Wiring	CH 1 (1+ / 1-) - CH 2 (2+ / 2-)
Selection Switches	
Connectors	CH 1 / CH 2 wiring mode possibility
Power Input	
Connectors	2 x Speakon IN/OUT
Recommended Amplifiers	
Single ended mode	KA7 and KA10 to drive till 4 units each channel KA40 to drive till 4 units each channel
Bridge mode	KA7 and KA10 to drive 2 unit each amplifier
Physical	
Measures	56 x 70 x 500 mm
Weight	2.5 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 referment 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 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.