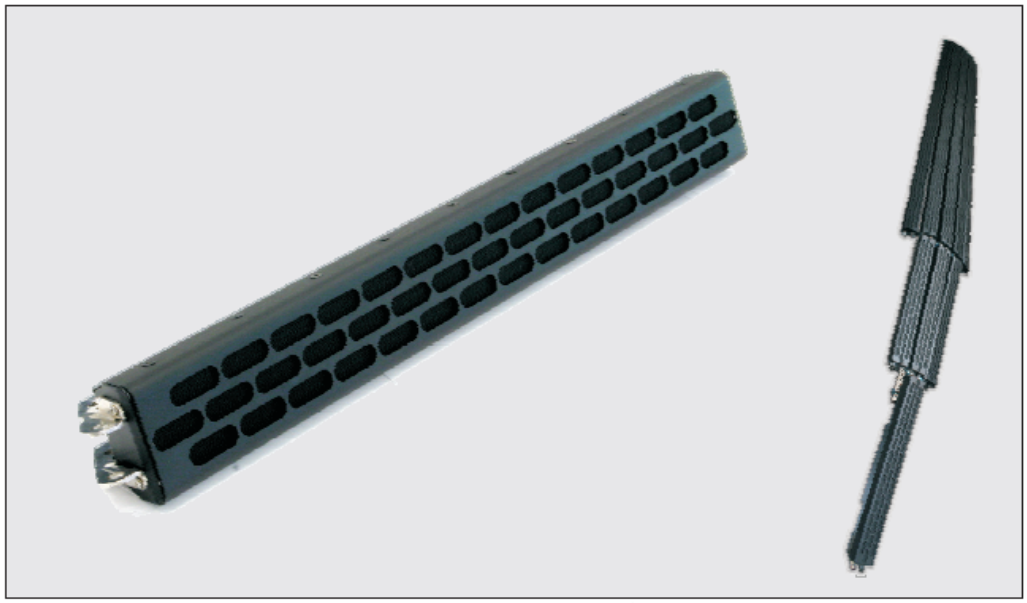
KOBRA KK50

Ultra slim, high power, 3D-Array Element

Features:

- Vertical, horizontal and 3D-array possibility
- Unique performance-to-size ratio
- Multiple 2" long excursion full-range drivers
- Smooth frequency response
- Electronically protected
- High dynamic range capability
- Integrated connection hardware
- Top quality components for outstanding performances
- Over thin frame for invisible arrays
- High impedance for multiple easy parallel wiring with all **KOBRA** models



Applications:

- Theatres main PA arrays
- Front and under-balcony fill
- Portable and installed audio-visual systems
- Stage and AV-Studios monitoring

The **KK50** loudspeaker is a very compact, 3d array loudspeaker element. In contrast to conventional low power 70-volt transformer based systems, the **KK50** connects directly to the amplifier and is capable of producing high sound pressure levels while dramatically reducing distortion and easing installation requirements. It employs sophisticated 2" transducers capable to reproduce with a very low distortion a really wide range of frequencies with a considerable value of sensitivity. Thanks to their small dimensions the distances between emitting sources are very reduced, this produces a very coherent emission with almost no phase problems, in comparison with standard systems. **KK50** together with all other **KOBRA** devices are the best choice to make perfect sound reinforcement of almost any kind of environment. The possibility to perform 3D-arrays with almost no phase problem allows to create a coherent wave front that can perfectly cover the venue with constant pressure and equalization, reducing drastically undesired ambient reflections. A lot of accessories are available to install in the easiest and fastest way any **KOBRA** devices both in temporary and in permanent installations. A full choice of presets is provided for **KA** amplifiers to optimize **KOBRA** performance in any application.

Technical Details

Acoustics	
Power handling	150 W[1]
Max power	300 W[2]
Impedance	64 Ω - 16 Ω selectable
Operating frequency range	150 Hz - 19 KHz +/- 3dB (preset relating)[3]
Frequency range	200 HZ - 20 KHz +/- 3dB (preset relating)[4]
SPL 1W/1mt	92 dB [5]
Maximum SPL	114 dB continuos - 120 dB peak[6]
Coverage	
Horizontal	90°(single unit) - array dependent
Vertical	10°(single unit) - array dependent
Transducers	
Full-range	8 x 2" neodymium magnet 0.75" VC long-excursion speakers
Power Audio Input	
Connectors	Two x 4 poles K-power
Wiring	CHA (1+ / 1-) - CHB (2+ / 2-)
Selection Switches	
Circuit	CHA/CHB wiring mode possibility
Impedance	64 Ω - 16 Ω
Recommended Amplifiers (64Ω setting)	
Single ended mode	KA10, KA15 and KA40 to drive till 16 units of KK50 each channel
Bridge mode	KA10 and KA15 to drive till 8 units of KK50 each amplifier
Recommended Amplifiers (16Ω setting)	
Single ended mode	KA10, KA15 to drive till 16 units of KK5 each channel
Physical	
Measures	56 x 70 x 483 mm
Weight	2 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 referement 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.

ATD-audio sound reign engineering unlt. D 81539 München + 49 (0)89-6494758-80 +49 (0)89-6494758-99 vertrieb@ATD-audio.de www.ATD-audio.de