

Digital steerable, top-of-the-line performance powered slim line array element



FEATURES

- Unique performance-to-size ratio
- Self powered
- Mechanically variable vertical coverage
- · Mechanically variable horizontal coverage
- Integrated DSP with multiple analog and digital inputs
- · Digital acoustic steering system
- · Straight hanging
- · RS485 connectivity for remote control

APPLICATIONS

- Large scale events
- · Touring sound reinforcement
- Theatres, Stadiums, Concert halls, Arenas
- Houses of worship
- Portable and installed AV systems

COLORS AVAILABLE

Black



ACCESSORIES

KH7-BASE, KH7-FLYH, KH7-FLYV, KH7-SIGIN, K-H7LINKH8



DESCRIPTION

The K-array KH7 speaker is a compact, self-powered, weather resistant, mid-high line array element, complying with the highest standards, both in sound quality and SPL.

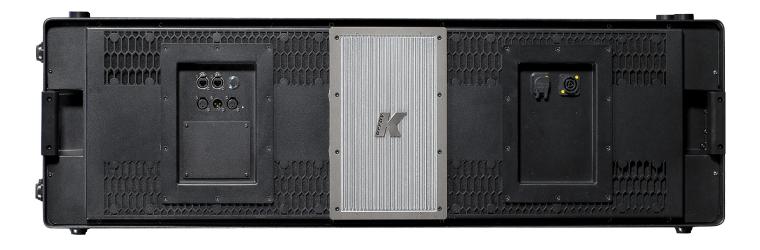
The KH7 features four 12" coaxial neodymium magnet woofers, providing multiple setups, included both vertical and horizontal use, with an exceptional peak output of 141 dB SPL.

An integrated class D amplifier deliver 4 x 2000 W at 4 Ω with a max THD of 1 % (EIAJ test at 1 kHz, single channel driven). The

4 discrete amplifier channels are controlled via integrated DSP providing an hyper detailed beam steering ability to meet any demanding setup requirement and control sound spillover.

All DSP functions are fully remote controlled via software over Ethernet.

All KH7's components are designed by the K-array R&D department and custom-made under the K-array quality control system.





| | ACQUISTICS | | AMPLIFIED |
|--------------------------|---------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ACOUSTICS | | AMPLIFIER |
| Power handling | 1800 + 800 W | Туре | 1 module class D with PFC - DSP controlled |
| Max power | 4000 W ⁽¹⁾ | Nominal Power Output | 4 X 2000 W @ 4 Ω 1% THD + NOISE $^{(5)}$ |
| Frequency range (-10 dB) | 60 Hz - 18 kHz (2) | Protections | Over Temp.(Power Limiting – Thermal Shutdown), Short Circuit/Overload Output Protection, Power Limiting, Clip Limiter/Permanent Signal Limiter, High Frequency Protection |
| SPL 1W/1mt | 101 dB (low) - 118 dB (high) ⁽³⁾ | | |
| Maximum SPL | 141 dB ⁽⁴⁾ | Frequency response | 20 Hz – 20 kHz (+0 –1 dB) for 1 W @ 8 Ω |
| | COVERAGE | Damping factor @ 100 Hz | >10000 |
| Horizontal | 100° / 30° + digital adjustment | THD+N 1kHz,1 W | 0.2% |
| Vertical | 30° / 100° + digital adjustment | I DD+N I KDZ, I VV | 0.2% |
| | CROSSOVER | Thermal dissipation | 1/4 of max output power @ 4 Ω • @230V = 1123 BTU/h (283 KCal/h) • @115V = 1150 BTU/h (290 KCal/h) |
| Туре | DSP controlled + passive filter | | • (a) 12 |
| Frequency | 1200 HZ | | AC POWER |
| | | Nominal power requirements | 100 - 240 Vac ± 10% 50/60 Hz |
| | TRANSDUCERS | Operating Range | 90 – 264 Vac |
| Туре | 4 X 12" coaxial neodymium magnet woofer | | CONSUMPTION |
| | 3 | Power factor (cos φ) | >0.90 @ 4 Ω full power |
| | AUDIO IN/OUT | 1/8 rated power | 600 W |
| Analog connectors | 1 Male + 1 Female XLR IN/OUT | (pink noise) $@4\Omega$ | 600 W |
| Digital connectors | 1 Female XLR AES/EBU IN | | CERTIFICATION |
| | REMOTE CONTROL INPUT | IP | 53 |
| Connectors | 2 x RJ45 ethernet | | PHYSICAL |
| | | Dimensions | 117 cm x 35 cm x20 cm (46.06" x 13.78" x 7.87 ") |

Notes for data

- Maximum RMS applicable power for a musical signal. The reference signal is the one proposed by EIAJ standard
 With dedicated preset;
 Measured @ 4 mt then scaled @ 1 mt;
 Measured with musical signal
 EIAJ Test Standard, 1kHz, 1%THD

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

Weight

52 Kg (114.64 lb)

