FIRENZE KH8

Digital steerable, slim array technology touring system

DATASHEET

Firenze series KH8

INNOVATION HAS NO LIMIT

The KH8 is a top-of-the-line touring system featuring Slim Array Technology (SAT) and digital steering capabilities. Slim and compact, these self-powered and weather resistant speakers provide an exceptional peak output of 145 dB SPL offering a unique solution to the touring audio market. It is fully controlled by the onboard DSPs for hyper detailed beam steering and maximum operational flexibility.

- **TOP-OF-THE-LINE PERFORMANCE**
  KH8 complies with the highest standards of the professional live sound market, both in sound quality and SPL

- **QUICK SETUP**
  The state of the art rigging system allows you to pre-cable stacks of 3 units to fly a straight 24-unit cluster in less than 10 minutes.

- **AUTO CONFIGURATION**
  Design your configuration off site and just sync the system when it's up and on.

- **STRAIGHT ARRAY**
  Unique digital steering capabilities allow the user to direct the sound in a targeted area or provide continuous, even coverage, flying the system even completely straight - NO BANANA CURVATURE needed! Each unit is designed to be tilted on its own horizontal axis for exceptional SPL and throw capability.

- **DIGITAL ACOUSTIC STEERING**
  Each unit has 8 discrete amplifier channels and hyper detailed beam steering technology to meet any demanding setup requirement and control sound spillover. Each unit is independently steered for maximum operational flexibility without dismounting the cluster. The integrated DSP controls the system's tuning and monitoring, eliminating the need for external processors.

- **WEATHER RESISTANT**
  KH8 is a powered IP45 system with an integrated IP65 electronic enclosure, to resist even heavy rain.

- **COST-SENSITIVE**
  Rationalized for easy transportation, quick setup and configuration to optimize logistics, space, labor costs and time.

The KH8 maintains the features that have always distinguished K-array:

- **Ultra compact and flat system**
- **Unique performance-to-size ratio**
- **Sturdy aluminum and steel chassis**
- **Fully remote controllable.**

SlimArrayTechnology

TECHNICAL SPECIFICATIONS

ACOUSTICS

Power handling	2000 W(AES) + 800 W(AES) + 280W(AES)
Max Power	6160 W(AES)
Frequency range	60 Hz – 18 KHz (- 3dB) (1)
SPL 1W/1mt	102.4 dB (Low) - 99.5dB (Mid) - 119 dB (High) (2)
Maximum SPL	145 dB (3)

COVERAGE

Horizontal	120°
Vertical	Digitally adjustable

CROSSOVER

DSP Controlled

Frequency	300 Hz (Low-Mid); 1300 Hz (Mid-High)

TRANSDUCERS

Full range	8 X 8" Neodymium magnet woofer with 2.5" voice coil 8 X 4" Neodymium magnet woofer with 1.5" voice coil 4 X 1.4" Neodymium magnet compression driver with 1.5" voice coil

REMOTE CONTROL & AUDIO IN/OUT

Connectors	1 Male + 1 Female LK25 connector (IP67)
Connection	1 Analog audio - 2 AES/EBU - Remote control over IP

POWER INPUT

Connector	1 x PowerCon TRUE1 (IP65)

AMPLIFIER

Type	2 Module class D with PFC - DSP controlled
Nominal Output Power	8 X 2000 W @ 4 Ω 1% THD + NOISE (4)
Protection	Over Temp.(Power Limiting – Thermal Shutdown), Short Circuit/Overload Output Protection, Power Limiting, Clip Limiter/Permanent Signal Limiter, High Frequency Protection
Frequency Response	20 Hz - 20 kHz (+0-1 dB) for 1 W @ 8 Ω
Damping factor 100 Hz	> 10000
THD+N 1W to Full Power @ 4 Ω	0.2%
Thermal dissupation	1/4 of max output power @ 4 Ω = 2000 BTU/h (505Kcal/h)
Efficiency	> 75% (typical)
1/8 rated power (pink noise) @ 4 Ω per channel	1250 W

CERTIFICATIONS

Electronics	65
Speaker Box	45

PHYSICAL

Dimensions (Per Unit)	117 cm x 50 cm x 20 cm (46.1" x 19.7" x 7.88")

Notes for data

1. With dedicated preset;
2. Measured @4 mt then scaled @1 mt;
3. Measured with musical signal
4. EIAJ Test Standard, 1kHz, 1% THD (single ch driven)

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.