



KH7

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



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KH8

Ultra-thin PA System and line-array element



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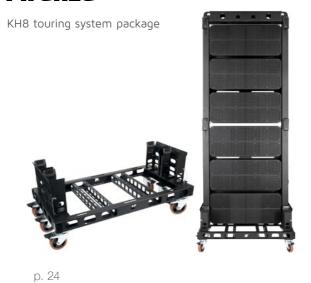
K58

Straight line-array subwoofer element



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Firenze





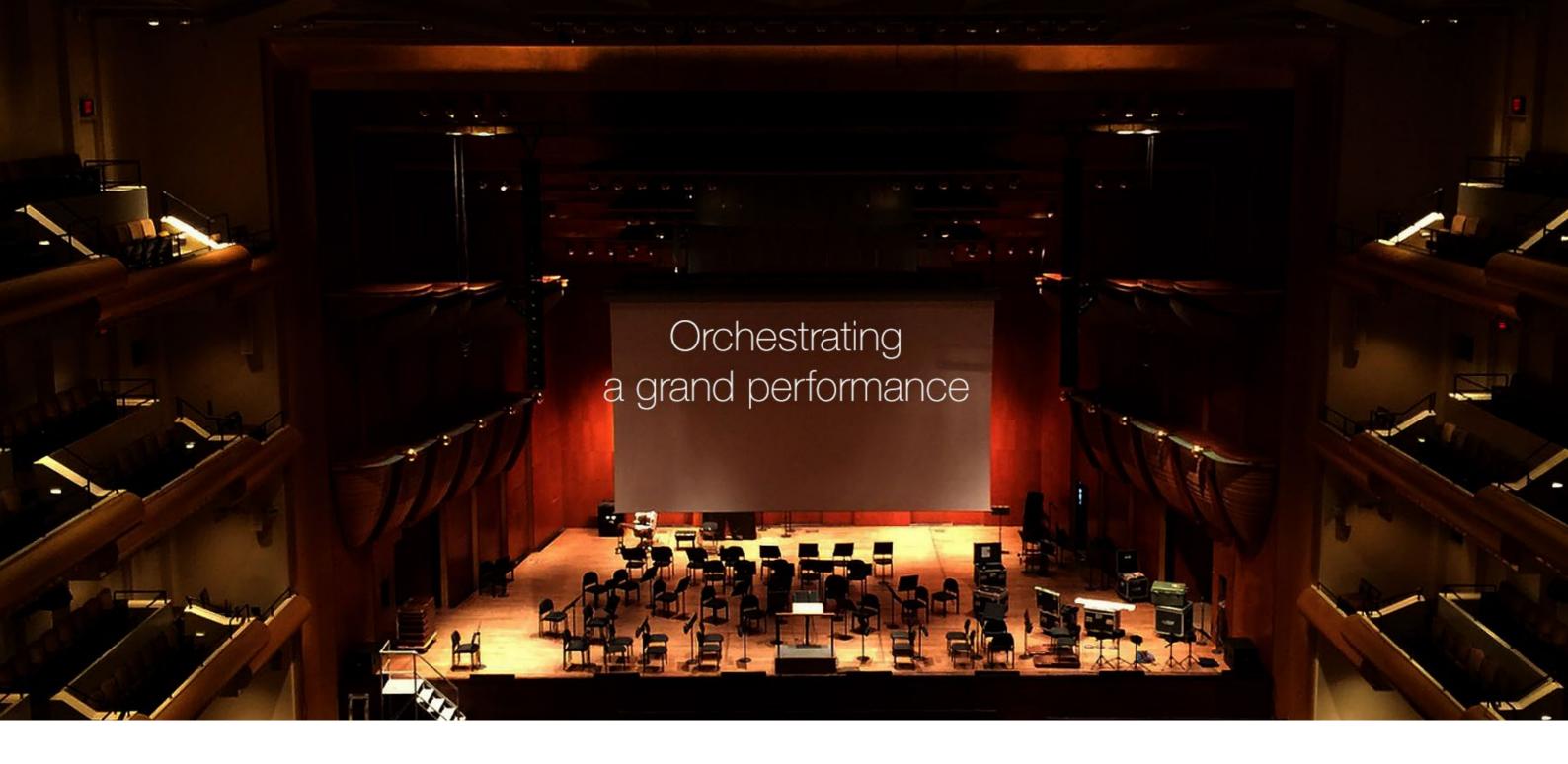
Digital steerable, top-of-the-line performance powered slim line array element

The KH7 is a unique, compact self-powered line array element complying with the highest standards, both in quality and SPL









Features four 12" coaxial Neodymium magnet woofers, providing multiple setups, including both vertical and horizontal use

K#7

Digital steerable touring system with slim array technology

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.

S.A.T. BENEFITS

- Keeping the stage free of sound pollution thanks to a dispersion in a HYPER-CARDIOID figure which maintains the desired directivity with low back emission and minimal side dispersion.
- Better IMPULSE RESPONSE and maximum CLARITY and DEFINITION thanks to the compact design that allows sound to exit instantaneously without resonance, generating a significant amount of sound pressure in the low and low-mid range. Audio technicians who experience it are impressed with how precise any small changes made are immediately heard while mixing and equalizing a band, even when the console is 100 m away from the stage.
- Combined with the KH7's Digital Steering technology, S.A.T.© allows
 the system to be flown completely STRAIGHT without the need of
 a banana curvature to provide continuous, even coverage. Results
 are maximized with the ability to precisely and independently
 control each element of the array eliminating noise pollution.
- Undeniable COMPACTNESS allows easy transportation, quick setup, minimum clusters' volume and maximum freedom on where they are hoisted, optimizing logistics, space, labor cost and time.

ACCESSORIES

KH7-SIGIN, KH7FLYV, KH7FLYH, KH7-BASE, KH7-LINK8



SPECS

ACOUSTICS

Power handling 1800 + 800 W

Max Power 4000 W ⁽¹⁾

requency range (-10 db) 60 Hz - 18 KH:

range (-10 db) 60 Hz - 18 KHz ⁽²⁾

SPL 1W/1mt 101 dB (low) - 118 dB (high)⁽⁴⁾

Maximum SPL 141 dB ⁽⁴⁾

COVERAGE

100° / 30° + digital adjustment

30° / 100° + digital adjustment

CROSSOVER

Type DSP controlled + passive filte

TRANSDUCERS

4 X 12" coaxial neodymium magnet woofe

AUDIO IN/OUT

Analog connectors

Digital connectors

1 Female XLR AES/EBU IN
REMOTE CONTROL INPUT

ectors 2 x RJ45 et

AMPLIFIER

0.2%

1 module class D with PFC - DSP controlled 4 X 2000 W @ 4 Ω 1% THD + NOISE (5)

Nominal Power Output

Over Temp. (Power Limiting - Thermal Shutdown Short Circuit/Overload Output Protection, Power Limiting, Clip Limiter/Permanent Signal Limiter, High Frequency Protection $20~\text{Hz} - 20~\text{kHz}~(\text{+0} - \text{1}~\text{dB})~\text{for}~1~\text{W} \circledast 8~\Omega$

Damping factor @ 100 Hz

Thermal dissipation

1/4 of max output power @ 4 Ω

• @230V = 1123 BTU/h (283 KCal/h)

AC POWER

Operating Range

100 - 240 Vac ± 10% 50/60 Hz 90 - 264 Vac

. Power factor (cos $\,$) $^{\mbox{\tiny 1}}/\mbox{\tiny 8}$ rated power (pink noise)@ 4Ω

>0.90 @ 4Ω full powe

CERTIFICATION T.B.A.

PHYSICAL

117 cm x 35 cm x20 cm

Mojobt

52 Kg (114.64 lb)

Notes for data

by EIAJ standard

2. With dedicated preset;

3. Measured @4 mt then scaled @1 mt

Measured with musical signal

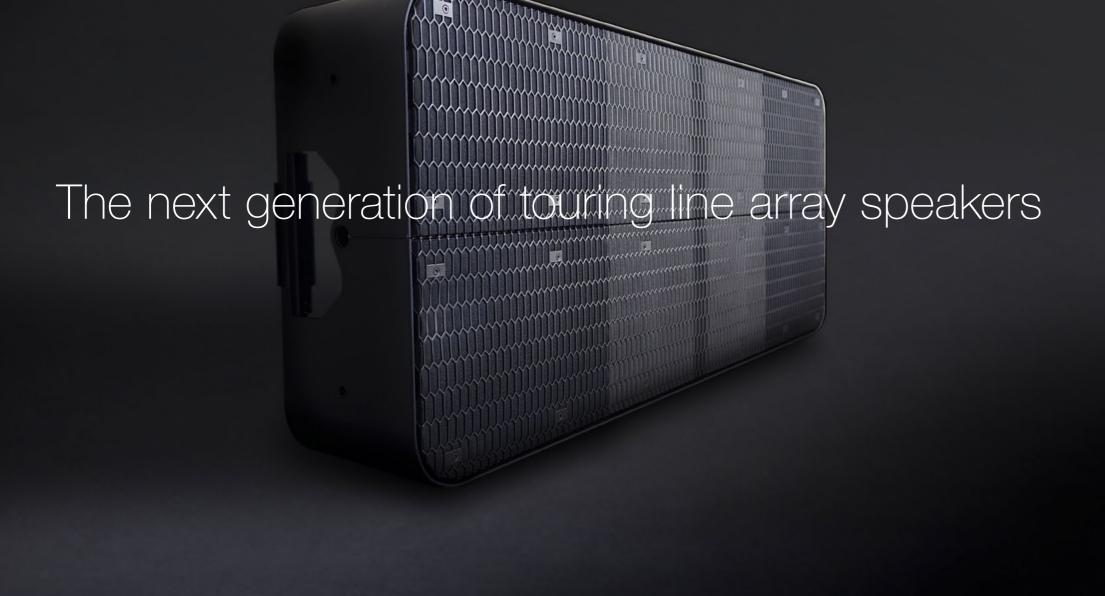
New materials and design are introduced into existing products without previous no Present systems may differ in some respects from those presented in this catalogue







Digital steerable touring system with slim array tecnology







Thin and lightweight, Slim Array Technology is our trademark.

Exceptionally quick to set up.

Digitally optimized coverage for a smoother, powerful sound

KH8

Ultra-thin PA System and line-array element

DIGITAL STEERING

The KH8 is one of the most compact touring line array speakers with SlimArrayTechnology (S.A.T ©), fully controlled by 8 onboard DSPs for maximum operational flexibility. The KH8 features some of the most sophisticated and hyper detailed DIGITAL STEERING capabilities that allow the user to direct the sound in a targeted area or to get the maximum uniformity with better coverage and higher SPL.

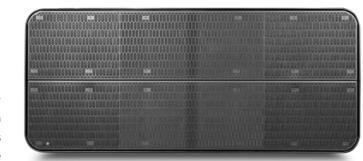
S.A.T. BENEFITS

- Keeping the stage free of sound pollution thanks to a dispersion in a HYPER-CARDIOID figure which maintains the desired directivity with low back emission and minimal side dispersion.
- Better IMPULSE RESPONSE and maximum CLARITY and DEFINITION thanks to the compact design that allows sound to exit instantaneously without resonance, generating a significant amount of sound pressure in the low and low-mid range. Audio technicians who experience it are impressed with how precise any small changes made are immediately heard while mixing and equalizing a band, even when the console is 100 m away from the stage.
- Combined with the KH8's Digital Steering technology, S.A.T.© allows
 the system to be flown completely STRAIGHT without the need of
 a banana curvature to provide continuous, even coverage. Results
 are maximized with the ability to precisely and independently
 control each element of the array eliminating noise pollution.
- Undeniable COMPACTNESS allows easy transportation, quick setup, minimum clusters' volume and maximum freedom on where they are hoisted, optimizing logistics, space, labor cost and time.



ACCESSORIES

K8-BOX K8-CASE1, K8-COVER, K8-PWCABLE5, P8-PWCABLE0-6, K8-PWCABLE1-5, K8-PW10, K8PW25, K8-SIG2, K-8SIG10, K8SIG25, K8-SIGIN, K8-SIGOUT, K8-FLY24, KH8-FRAME3, KH8DOLLY3, KH8-DOLLY





EASY AND QUICK SETUP

The KH8 self-powered speakers are provided in PRE-CABLE STACKS of 3 units and you can fly a 24-unit cluster in less than 10 minutes. You need just 2 multi-cables to drive a 6 units cluster: one multi-cable for sending analog, digital and data signals and another one to power the speakers. The state of the art power distro allows you to switch on and off each unit independently.

Clusters are always FLOWN STRAIGHT, while every single KH8 unit can independently be tilted on its axis in any given moment.

Then a dedicated software allows you to design your configuration off site and just sync the system when it's up and on.

Water proof and WEATHER RESISTENT frames require no addition maintenance. Just set up and go.



SPECS

	SPECS
	ACOUSTICS
Speaker power handling	2000 + 800 + 280 W ^(AES)
Max Power	6160 W (AES)
Frequency range	60 Hz - 18 kHz - 3dB (1)
SPL 1W/1mt	102.4 dB (Low) - 99.5 dB (Mid) - 119 dB (High) (2)
Maximum SPL	145 dB (3)
	COVERAGE
Horizontal	120°
Vertical	Digitally adjustable
	CROSSOVER
Туре	DSP controlled
Frequency	300 Hz (Low-Mid) ; 1300 Hz (Mid-High)
	TRANSDUCERS
	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
Туре	2 module class D with PFC - DSP controlled
Nominal output power	8 X 2000 W $\mbox{(a)}$ 4 Ω 1% THD + NOISE $\mbox{(4)}$
Protection	Over Temp.(Power Limiting – Thermal Shutdown), Short
Protection	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
+N 1W to Full Power @ 4 Ohm	0.2%
Thermal dissipation	1/4 of max output power \circledast 4 Ω = 2000 BTU/h (505KCal/h)
	AC POWER
Nominal voltage	100 / 240 ± 10%, 50/60Hz with PFC
Operating range	85 – 265 Vac
	CONSUMPTION
Efficiency	> 75% (typical)
¹/s rated power (pink noise) @ 4 Ω per channel	1250 W
-	IP CERTIFICATION
Electronics	65
Speaker box	45
	PHYSICAL
Dimensions	117 cm x 50 cm x 20 cm (46.10" x 19.70" x 7.88")
Weight	72.5 Kg (159.84 lb)
	Notes for data 1. With dedicated preset 2. Measured (4 m than scaled (8 lm 3. Measured with musical signal 3. Measured with musical signal 4. EAU Test Standerd, 1484; 1% ThO (single ch driven) New materiels and design are introduced into existing products without previous notice. Present systems may differ in some respects from those presented in this catalogue.



K58

Straight line-array subwoofer element

Each unit is equipped with a powerful DSP to meet any demanding setup requirement.

The dedicated software eliminates the need for additional external processors to control the system's tuning and monitoring.

Exceptionally quick to set up. Digitally optimized coverage for a smoother, powerful sound

The IPAL® technology allows to correct the intrinsic uncertainties of the acoustical system in real time for state of the art performances.

System linearity is guaranteed by a feedback correction based on a differential pressure control method.





KS8

Straight line-array subwoofer element

KS8, is a compact, self-powered, weather resistant subwoofer element providing an exceptional peak

output of 148 dB SPL, with dynamic set up options for optimum delay calibration.

KS8 features IPAL® driver and amplifier technology, including a powerful amplifier module, a differential

pressure sensing device, a "zero latency" DSP and two 21" specifically designed high efficiency transducers.

The IPAL® technology allows to correct the intrinsic uncertainties of the acoustical system in real time for state of the art performances. System linearity is

guaranteed by a feedback correction based on a differential pressure control method.

The integrated DSP ensures an astonishing 10 μs (microseconds) latency on the critical feedback paths allowing "analog type" feedback approach with the flexibility of a DSP core.

The KS8 subwoofers are also integrated in the aiming and design software to give endless possibilities of configuration for example; carded or virtual arcs and whatever the venue will require.



SPECS

ACOUSTICS

Speaker power handling Max Power Frequency range

Frequency range SPL 1W/1mt

4500 W^(AES) 9000 W ^(AES) 25 Hz - 150 Hz 101 dB ⁽²⁾

ım SPL 148 di

COVERAGE

Digitally adjustable in array configurations

TRANSDUCERS

2 X 21" Neodymium magnet woofer with 5.31" 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 IN/OUT

connectors 1 PowerCon TRUE1 (IP67)

AMPLIFIER

Switch mode fixed frequency PFC power supply IPAL mode

Peak Output Power 8500 \

Excursion limiter, current & power limiter, current clamp, clip limiter, ion

Brownout limiter, thermal

AC POWER Minal voltage $100 - 240 \text{ Vac} \pm 10\%$, 50/60 Hz with PFC

ng range 85 – 265 V

CONSUMPTION 95% (typical)

Efficiency 95% (typ 1/s rated power (pink noise) 400 VA

IP CERTIFICATION

Electronics 65 Speaker box 45

PHYSICAL

nsions 142 cm x 60 (+5) (5) cm x 77 (+13.5) (6) cm (55.90" x 23.62" (+1.97") (5) x 30.31" (+5.31") (6)

eight 148 kg (326.28 lb)

With dedicated preset

2. Measured @ 4m then scaled @1m

Measured with musical s
 A. Max RMS power

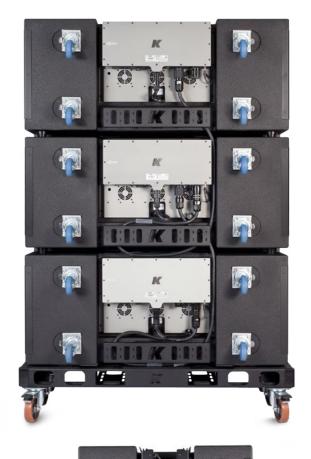
5. Removable rubber feet

6. Removable castor wheels

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ACCESSORIES

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KH8-5Y512

Digitally steerable touring system with slim array technology





KH8-5Y512

Digitally steerable touring system with slim array technology

K-array offer a full-service sound reinforcement Firenze package for every demanding tour and live event.

The Firenze package comprises of 12 KH8 and 6 KS8 plus accompanying KH8-FLY24, KH8-FRAME3, KH8/KS8-DOLLY, Flycases, Signal boxes and cables. Everything you need for a World class sound experience. The package is complete with 2 day training courses and 1 day project assistance on site from a K-array specialist.

For more information about the Firenze Package contact our Sales team in your area.





KH8 straight cluster

"The Firenze system is a new approach that's built with the best components our industry offers.

Combine that with Italian innovation, and the KH8 system declares itself a front runner. It's controllable, incredibly musical sounding and responsive."



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KH8-DOLLY3

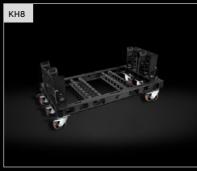


The Firenze KH8-SYS12 package comprises of 12 KH8 and 6 KS8 plus accompanying KH8-FLY24, KH8-FRAME3, KH8/KS8-DOLLY, Flycases, Signal boxes and cables.



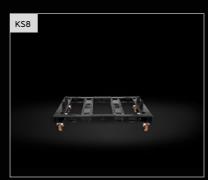
K8-FLY24

Bumper for up to 24 KH8



KH8-DOLLY / KH8-DOLLY3

Dolly for 6 or 3 KH8



KS8-DOLLY

Dolly for 3 KS8



KS8-PWBOX3

Multi cable power splitter for up to 3 KS8



KH7- FLYH

Bumper for up to 12 KH7 in horizontal cluster



KH7- FLYV

Bumper for up to 7 KH7 in vertical cluster



KH7-BASE

Base for up to 2 KH7 in vertical or Hardware link to connect 3 KH7 in horizontal



KH7-LINKH8

KH7 under KH8



K8-BOX

up to 12 KH8/KS8



K8-CASE1

Power, signals and control box for Flycase for KH8 and KS8 cables



K8-COVER

Semi-rigid cover for KH8-DOLLY and KS8-DOLLY



K8-PWCABLE5 K8-PWCABLE01-5 K8-PWCABLE50-6

PowerconTrue male-female (5m, 1.5m, 0.6m)



K8-PW25 K8-PW10

Multi-cable power (25m, 10m)



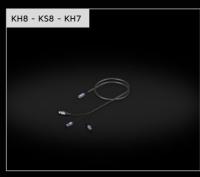
K8-PWCABLE5 K8-PWCABLE01-5 K8-PWCABLE50-6

PowerconTrue male-female 1-5m cable



K8-SIGIN

2m with IN LK25 and OUT XLR+RJ45



KH7-SIGIN

2m with IN LK25 and OUT 1 RJ45

www.k-array.com



K-array surl

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