

# FIRENZE KH7

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  $\Omega$  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.



# TECHNICAL SPECIFICATIONS

	<b>ACOUSTICS</b>		<b>AMPLIFIER</b>
Power handling	1800 + 800 W	Type	1 module class D with PFC - DSP controlled
Max power	4000 W <sup>(1)</sup>	Nominal Power Output	4 X 2000 W @ 4 Ω 1% THD + NOISE <sup>(5)</sup>
Frequency range (-10 dB)	60 Hz – 18 kHz <sup>(2)</sup>	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) <sup>(3)</sup>	Frequency response	20 Hz – 20 kHz (+0 -1 dB) for 1 W @ 8 Ω
Maximum SPL	141 dB <sup>(4)</sup>	Damping factor @ 100 Hz	>10000
	<b>COVERAGE</b>	THD+N 1kHz,1 W	0.2%
Horizontal	100° / 30° + digital adjustment	Thermal dissipation	1/4 of max output power @ 4 Ω • @230V = 1123 BTU/h (283 KCal/h) • @115V = 1150 BTU/h (290 KCal/h)
Vertical	30° / 100° + digital adjustment	Nominal power requirements	100 - 240 Vac ± 10% 50/60 Hz
	<b>CROSSOVER</b>	Operating Range	90 – 264 Vac
Type	DSP controlled + passive filter	Power factor (cos φ)	>0.90 @ 4Ω full power
Frequency	1200 HZ	1/8 rated power (pink noise)@ 4Ω	600 W
	<b>TRANSDUCERS</b>	CERTIFICATION	PHYSICAL
Type	4 X 12" coaxial neodymium magnet woofer	IP	53
	<b>AUDIO IN/OUT</b>	Dimensions	117 cm x 35 cm x20 cm (46.06" x 13.78" x 7.87 ")
Analog connectors	1 Male + 1 Female XLR IN/OUT	Weight	52 Kg (114.64 lb)
Digital connectors	1 Female XLR AES/EBU IN		
	<b>REMOTE CONTROL INPUT</b>		
Connectors	2 x RJ45 ethernet		

Notes for data

1. Maximum RMS applicable power for a musical signal. The reference signal is the one proposed by EIAJ standard
2. With dedicated preset;
3. Measured @ 4 mt then scaled @ 1 mt;
4. Measured with musical signal
5. 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.

