



The Origins

The three founding partners of HP Sound had a background starting in 1990 in studio design and installation, specifically for Radio and Television.

Their first product was developed to solve a problem with the lavalier microphones being used for Italian broadcast, they were unbalanced, so they would pick up hum from dimmers and power feeds.

The HP solution was a miniature microphone with the pre-amp in the cartridge. They continued with their product development, manufacturing various electronics solutions branded by other companies as well as developing their own line of MI based equipment.

By 2005 their sights had turned to live sound reinforcement.

Creative solutions were required once again. The real problem with the usual approach to live sound was the cost of transporting and rigging speaker systems that were made of wood and airspace. The sheer volume and weight of the traditional transducer systems was expensive and hugely inefficient.

The advent of line array technologies in 1992 had provided some improved efficiencies for specific applications, but line array system's capabilities were determined by the number of speaker enclosures used, with a minimum inventory needed.

The narrow vertical pattern required to accomplish the line array's coherent coupling dictated that the cabinets could only be used in line array applications.

Even an entry level speaker system involved a large capital investment.

Systems were not scalable; different inventory was needed for different venues and different types of program.

The K-array KH4 technologies were developed to overcome these problems.

KH4 has over 4000 watts of on-board power, and yet it weighs slightly more than 100 lbs, and measures 6" deep. It has an operating frequency range of 60 Hz to 19KHz with a peak output capability of 145 dB from a single enclosure. KH4 provides unprecedented power-to-size ratios and the unique capability of variable Vertical coverage from 70 to 370 . This means that one speaker system will satisfy many live sound requirements on its own. Output can be extended with the companion KS4 self-powered subs, or the same enclosure can be coupled as a line array system.

KH4 and KS4 systems can be flown or ground-stacked using the captured rigging hardware.

Powerful on-board DSP is managed through remote network control capability.

The fidelity is stellar. The packaging is stylish and compact, quick to assemble and deploy, easy to transport, and delivers extremely high SPL with unprecedented quality for a wide variety of performance types and venue configurations.

K-array has developed ultra-compact sound solutions technologies since 1990. They have concentrated their efforts and resources into the design and manufacture of highly efficient audio systems that produce unparalleled sonic accuracy.

K-array has a complete range of products to suit any application from large-scale arenas to almost invisible systems for theatre, worship, corporate and on-camera presentations that demand speakers that are heard but not seen.



Installed Sound



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PYTHON



Speakers

Lyzard

Ultra miniaturized line-array element



KZ10

Ultra miniaturized line-array element

The KZ10 is a remarkable ultra micro line array designed for discreet use in a variety of situations such as restaurants, bars, museums etc.

The rugged enclosure contains a line array of 4 x 0.5" long excursion, full range drivers housed in a sleek case built around a super strong chassis. The high efficiency drive units have neodymium magnet structures and suspensions engineered for maximum linear excursion and minimum residual transducer noise.

This miniature slim column is a mere 1.2cm deep and delivers true crystal clear audio with an amazing output of 92dB continuous; remarkable from such a miniscule enclosure. The system delivers long throw and coherent coverage making it ideal for use in space constrained situations. Up to four KZ10's can be integrated to the KU36 sub bass, extending the frequency range to 35Hz. The KZ10 weighs a mere 40g and measures 2.1 x 10 x 1.2cm.

All the components are designed in-house at our Florence based R&D department. They are custom manufactured to our exacting standards and quality control system in Italy.



Features

- Multiple 0.5" long excursion full range drivers
- Wide range frequency response
- Full aluminum ultra strong frame
- Available in Black or Silver**
- High dynamic range capability
- Only 40g of weight

Applications

- Background music systems in restaurants and clubs
- High quality distributed systems for paging and music
- Exhibit audio for museum displays
- Space-sensitive fill for broadcast

KZ10-4 PACK



Specs

Acoustics	
Speaker power handling	8 W ^(AES)
Operating frequency range	350 Hz - 18 KHz +/- 3dB
Impedance	16 Ω
Maximum SPL	92 dB continuous - 98 dB peak
Coverage	
Horizontal	140°
Vertical	20°
Crossover	
Type	External crossover required
Frequency	250Hz 24dB/oct suggested minimum
Transducers	
Full-range	4 x 0.5" Neodymium speakers with 0.5" voice coil
Impedance	16Ω
Physical	
Dimensions	2.1 x 10 x 1.2 cm (0.83"x 3.94"x 0.47")
Weight	40 g (0.09 lb)

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.





Speakers

Tornado

2" point source compact speaker

KT20ma - KT20Cma

2" point source self-powered compact speaker

The KT20ma (and the KT20Cma for ceiling mounting) is a pioneering active micro loudspeaker designed for point source applications and high quality distributed systems. Truly groundbreaking, the KT20ma can deliver an incredible maximum peak of 107dB from it's integrated amplifier and all from a unit that fits in the palm of your hand.

The elegant but rugged enclosure is built to aircraft specifications from a single piece of aluminum and measures a mere 6.4cm (dia) x 9.3cm (deep)

The KT20ma has flexible and easy-to-configure mounting options.

With its ability to effortlessly reproduce both speech and music, it makes an excellent choice for fixed applications such as theatre, museum displays, restaurants, portable systems for corporate AV presentations, department stores, and in hidden locations such as chancel steps in houses of worship; the applications are endless.

The KT20ma has a proprietary 2" high efficiency drive unit with a neodymium magnet structure and a suspension engineered for maximum linear excursion and minimum residual transducer interference. This cone transducer delivers an impressive maximum peak SPL of 107dB, and has a wide operating frequency range from 150 Hz to 18 kHz with very low distortion.

KT20ma has a 4-pin Phoenix connector that supplies the power and balanced audio input, making set up or fixed installation a breeze.

All the components are designed in-house at our Florence based R&D department. They are custom manufactured to our exacting standards and quality control.

KT20Wma



KT20ma

Features

- Unique performance-to-size ratio
- Single 2" long excursion full range driver
- Wide-range frequency response
- High speech intelligibility and high dynamic range for music applications
- Integrated Phoenix connector
- Full Aluminum ultra strong frame
- Available in Black or Aluminum**
- Integrated connection points for accessories
- Only 340g of weight

Applications

- Background music systems in restaurants and clubs
- High-quality distributed systems for paging and music
- Exhibit audio for museum displays
- Space-sensitive fill for theatres

Accessories

K-AL15, K-AL66, K-AL75, K-AL120, K-AL240, KA-FRAME, KT-IP,KT-IPW >>> page 68-69



KT20CWma

KT20Cma

Installation KT20ma - KT20cma

KT20ma Specs

	Acoustics
Power handling	10 W ^(AES)
Operating frequency range	200 Hz - 18 KHz +/- 3dB (preset dependent)
Maximum SLP	101 dB continuous - 107 dB peak
	Coverage
Horizontal	90°
Vertical	90°
	Crossover
Type	DSP controlled
Frequency	150Hz 24dB/oct minimum suggested
	Transducers
Full-range	2" Neodymium cone driver with 0.75" voice coil
Impedance	8 Ω
	Amplifiers
Type	1 module class D electronically processed
Power	30 watts @ 8 Ω ¹
Protection	Dynamic limiter, over current, over temp, short circuits
	Physical
Dimensions	6.4 x 8.3 x 14.3 cm (2.52 x 3.27" x 5.63")
Weight	0.34 Kg (0,75 lbs)

KT20cma Specs

	Acoustics
	10 W ^(AES)
	200 Hz - 18 KHz +/- 3dB (preset dependent)
	101 dB continuous - 107 dB peak
	Coverage
	90°
	90°
	Crossover
	DSP controlled
	150Hz 24dB/oct minimum suggested
	Transducers
	2" Neodymium cone driver with 0.75" voice coil
	8 Ω
	Amplifiers
	1 module class D electronically processed
	30 watts @ 8 Ω ¹
	Dynamic limiter, over current, over temp, short circuits
	Physical
	8.5 cm dia x 9.6 cm deep (3.35" dia x 3.78" deep)
	0.42 Kg (0,93 lbs)

Notes for data
1. Amplifier wattage rating is based on the maximum unclipped burst sine wave RMS voltage that the amplifier will produce into the nominal load impedance.
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KT20 - KT22 KT20c - KT22c

2" point source compact speaker

K-array Tornado KT20/KT22 miniature sound source is a passive loudspeaker designed for high-quality distributed systems. Housed in a compact aluminum enclosure, Tornado series is especially suitable for installations involving space limitations and visibility concerns. The KT20c (and KT22c) is a version with integrated hardware for recessed ceiling mounting.

Tornados have flexible and easy-to-configure mounting options.

With its ability to effortlessly reproduce both speech and music, it makes an excellent choice for fixed applications such as theatre, museum displays, restaurants, portable systems for corporate AV presentations, department stores, and in hidden locations such as chancel steps in houses of worship; the applications are endless.

Tornados have a proprietary 2" high efficiency drive unit with a neodymium magnet structure and a suspension engineered for maximum linear excursion and minimum residual transducer interference. The cone transducer delivers an impressive maximum peak SPL of 107dB, and has a wide operating frequency range from 150 Hz to 18 kHz with very low distortion.

All the components are designed in-house at our Florence based R&D department. They are custom manufactured to our exacting standards and quality control.



KT20
KT22



KT20
KT22c

Features

- Unique performance-to-size ratio
- Single 2" long excursion full range driver
- Wide-range frequency response
- High speech intelligibility and high dynamic range for music applications
- Integrated Phoenix connector
- Full Aluminum ultra strong frame
- Available in Black or Aluminum**
- Integrated connection points for accessories
- Only 400g of weight

Applications

- High-quality distributed systems for paging and music
- Exhibit audio for museum displays
- Space-sensitive fill for theatres

Accessories

KT-IP, KT-IPW >>> page 68-69



KT20c
KT22c

KT20 - KT22 Specs

	Acoustics
Power handling	18W ^(AES)
Impedance	8 Ω (KT20) - 32 Ω (KT22)
Operating frequency range	200 Hz - 18 KHz +/- 3dB (preset dependent)
Maximum SPL	101 dB continuous - 107 dB peak
	Coverage
Horizontal	90°
Vertical	90°
	Crossover
Type	External cross over required
Frequency	150Hz 24dB/oct minimum suggested
	Transducers
Full-range	2" Neodymium cone driver with 0.75" voice coil
Impedance	8 Ω (KT20) - 32 Ω (KT22)
	Recommended Amplifiers
for KT20 - KT20C	KA1-1, KA7, KA7-7, KA10, KA10-10 for up to 2 units each channel
for KT22 - KT22C	KA7, KA7-7, KA10, KA10-10 for up to 8 units each channel
	Physical
Dimensions	6.4 x 8.3 x 14.3 cm (2.5" x 3.27" x 5.63")
Weight	0.43 Kg (0.95 lbs)

KT20c - KT22c Specs

	Acoustics
Power handling	18W ^(AES)
Impedance	8 Ω (KT20) - 32 Ω (KT22)
Operating frequency range	200 Hz - 18 KHz +/- 3dB (preset dependent)
Maximum SPL	101 dB continuous - 107 dB peak
	Coverage
Horizontal	90°
Vertical	90°
	Crossover
Type	External cross over required
Frequency	150Hz 24dB/oct minimum suggested
	Transducers
Full-range	2" Neodymium cone driver with 0.75" voice coil
Impedance	8 Ω (KT20c) - 32 Ω (KT22c)
	Recommended Amplifiers
for KT20 - KT20c	KA1-1, KA7, KA7-7, KA10, KA10-10 for up to 2 units each channel
for KT22 - KT22c	KA7, KA7-7, KA10, KA10-10 for up to 8 units each channel
	Physical
Dimensions	8.5 cm dia x 9.6 cm deep (3.35" dia x 3.78" deep)
Weight	0.40 Kg (0.88 lbs)

Notes for data
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KTL22 - KTL22C

2" point source compact speaker with integrated RGB led spotlight

The K-array KTL22 is a unique product based on the simple idea of combining sound and lighting in the same housing. It comes as a single 7.5cm (3") wide unit, which is made up of a central speaker surrounded by light sources. In this way it is possible to have spotlights which double up as speakers, or vice-versa, depending on your point of view.

It is ideally suited for architectural lighting and display light, as well as sound installations, such as background music, paging systems and program sound applications.

The KTL22 has a solid aluminum chassis with an integral yoke bracket. Optionally, the K-KTIP accessory allows the fixture to be hung as a pendant, emanating sound and light from the same location, such as over tables in a bar or restaurant. The KTL22C is a version with integrated hardware for recessed ceiling mounting. The elegant enclosure is small and light weight. With three mounting options it can be installed almost anywhere. It comes finished in black or polished aluminum.

The speaker component is a single 30W 2" hi-efficiency neodymium element with a 32 Ohm impedance. Up to eight KTL22 can be parallel wired to a single channel of any of the KA series amplifiers, which assure optimum sound thanks to the DSP processor with KTL22 specific presets. Deploying a KU36 or other K-array bass speaker extends the frequency response for full fidelity music reproduction.

The lighting component consists of 6 RGB 2.5W LEDs. Colour mix and intensity is programmable via a 4-pin Phoenix connected to the K-CTRL DMX controller. The DMX signal allows you to manage a lighting system from one place, with the facility to change colour or strength, and to select from a variety of different programs.



KTL22



KTL22CW

KTL22C

Features

- Unique performance-to-size ratio
- Single 2" long excursion full range driver
- Wide-range frequency response
- High speech intelligibility and high dynamic range for music applications
- Ceiling mounting version (KTL22C) available
- 6x2.5W high efficiency RGB LED
- Remotely controllable by K-CTRL device
- Full Aluminum ultra strong frame
- Available in Black or White**
- Integrated connection points for accessories
- Only 330g of weight

Accessories

K-CTRL, KA-FRAME >>> page 68-69

Applications

- High-quality distributed systems for paging and music
- Exhibit audio for museum displays
- Architectural light and sound installations
- Space-sensitive fill for theatres



KTL22W

Installation KTL22 - KTL22C

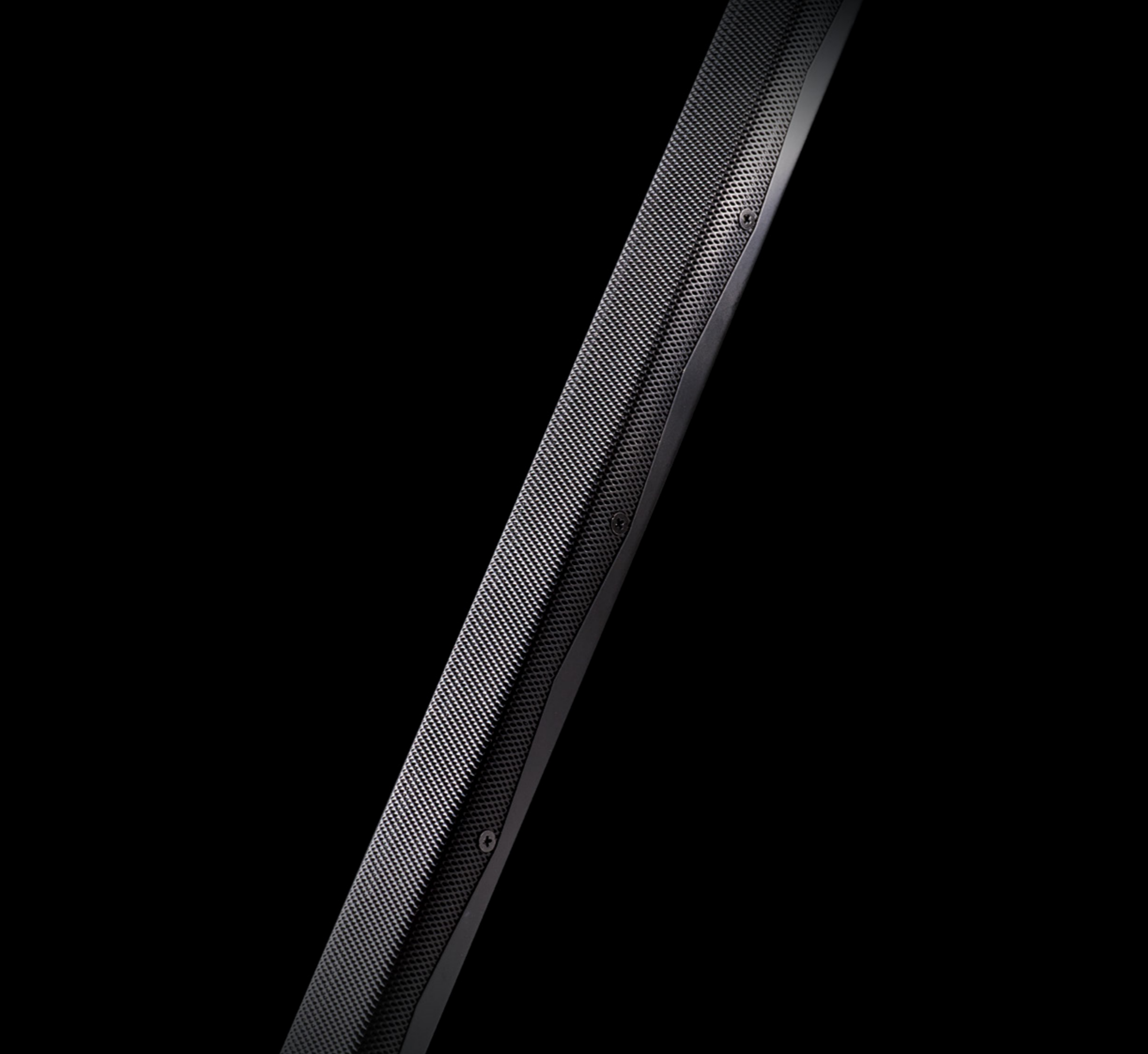
KTL22 Specs

Acoustics	
Power handling	18 W ^(AES)
Impedance	32 Ω
Operating frequency range	200 Hz - 18 KHz +/- 3dB (preset dependent)
Maximum SPL	101 dB continuous -107 dB peak
Coverage	
Horizontal	90°
Vertical	90°
Crossover	
Type	External cross over required
Frequency	150Hz 24dB/oct minimum suggested
Transducers	
Full-range	2" Neodymium cone driver with 0.75" voice coil
Impedance	32Ω
Recommended Amplifiers	
for KTL22 - KTL22c	KA7, KA7-7, KA10, KA10-10 for up to 8 units each channel
Light	
Sources	6 x 2.5w max RGB Led
Operating voltage	22 - 28 Vdc
Max power	12w @ 24 Vdc
Connectors	4-pin Phoenix screw terminal
	K-CTRL for up to 4 units
Physical	
Dimensions	6.4 x 8.3 x 14.5 cm (2.52" x 3.27" x 5.71")
Weight	0.33 Kg (0.73 lbs)

KTL22C Specs

Acoustics	
Power handling	18 W ^(AES)
Impedance	32 Ω
Operating frequency range	200 Hz - 18 KHz +/- 3dB (preset dependent)
Maximum SPL	101 dB continuous -107 dB peak
Coverage	
Horizontal	90°
Vertical	90°
Crossover	
Type	External cross over required
Frequency	150Hz 24dB/oct minimum suggested
Transducers	
Full-range	2" Neodymium cone driver with 0.75" voice coil
Impedance	32Ω
Recommended Amplifiers	
for KTL22 - KTL22c	KA7, KA7-7, KA10, KA10-10 for up to 8 units each channel
Light	
Sources	6 x 2.5w max RGB Led
Operating voltage	22 - 28 Vdc
Max power	12w @ 24 Vdc
Connectors	4-pin Phoenix screw terminal
	K-CTRL for up to 4 units
Physical	
Dimensions	8.5 cm dia x 9.6 cm deep (3.35" dia x 3.78" deep)
Weight	0.41 Kg (0.9 lbs)

Notes for data
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Speakers

Vyper

Ultra flat line array element

KV50

Ultra flat line array element

The KV50 is a very compact, ultra-flat line array element comprised of 8 x 1" neodymium transducers in a strong aluminum chassis. Its wide dispersion pattern can be configured horizontally or vertically. A number of KV50 speakers can also be put together in multiple array configurations.

Each speaker can be set for 16 or 64 Ohms eliminating the need for 70 V transformers in distributed systems. The KV50 reproduces the full vocal frequency range with clear intelligibility. This can be augmented with the KU36 or KMT12P sub to extend the operating frequency range.

A variety of accessories provide numerous mounting options for permanent and portable installations. KA series amplifiers have presets specifically optimized for KV50 applications.

All the KV50 components are designed by the K-array R&D department and custom made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Vertical, Horizontal and 3D line-array applications
- Multiple 1" long-excursion full-range cone drivers
- Wide horizontal coverage
- Very flat profile
- Integrated mounting hardware
- Selectable 16 Ohm or 64 Ohm impedance
- Top quality components for outstanding performance
- Available in black or white**

Applications

- Front and under-balcony fill
- Portable and installed AV systems
- Stage and AV-Studio monitoring

Specs

Acoustics	
Power handling	150 W ^{AES}
Impedance	16Ω or 64Ω (selectable)
Frequency range	200 Hz - 20 KHz
Maximum SPL	108 dB continuous - 114 dB peak
Coverage	
Horizontal	110°
Vertical	10°
Crossover	
Type	External Crossover required
Frequency	150 Hz, 24 dB/oct suggested minimum
Transducers	
Full range	8 x 1" Neodymium magnet with .75" voice coil
Recommended Amplifiers	
Type	KA10, KA7, KA7-7, KA40 (with dedicated preset)
Physical	
Dimensions	3.9 x 50 x 2,1 cm (1.54" x 19.69" x 0.83")
Weight	0.67 Kg (1.48 lbs)

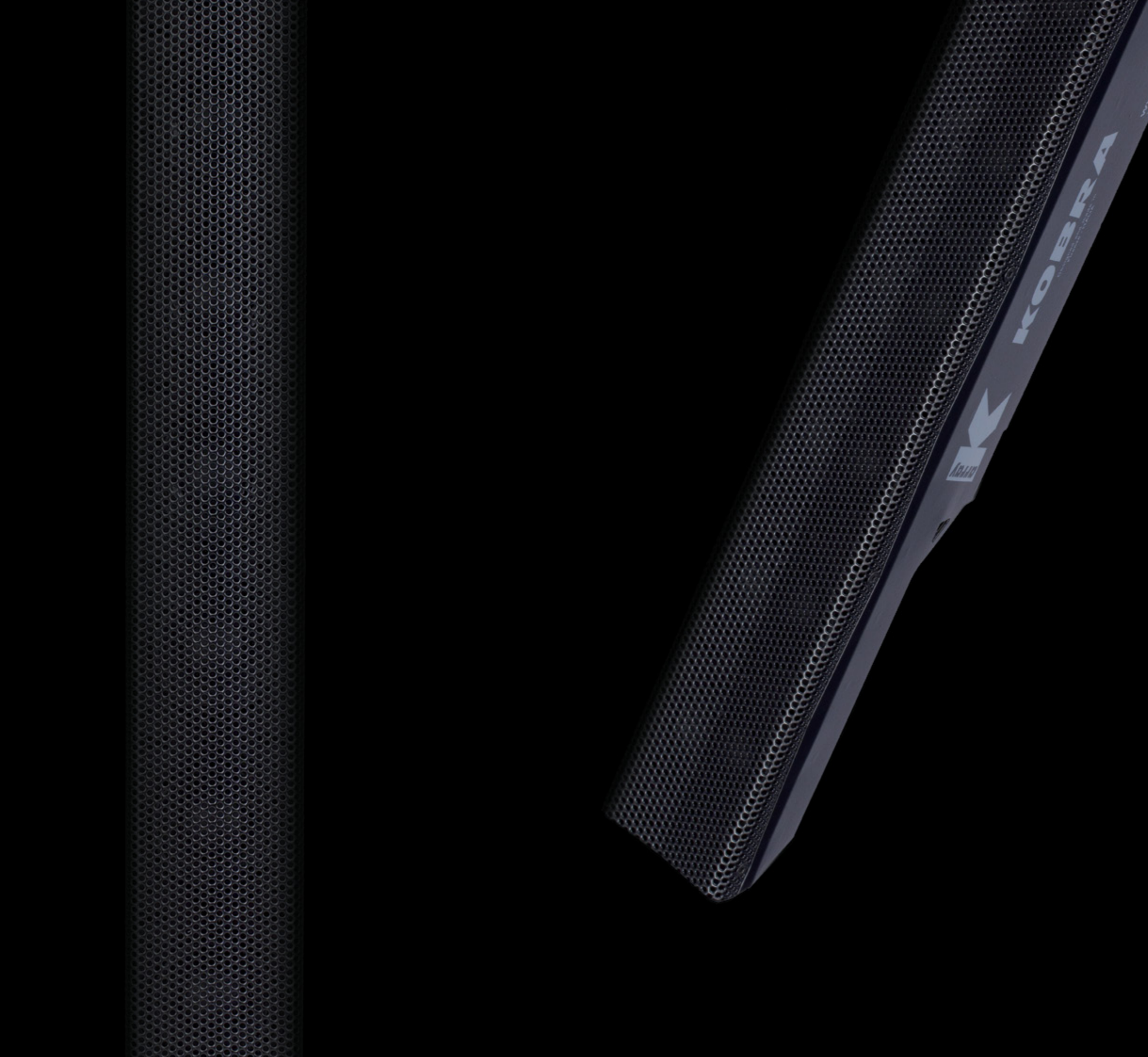
Notes for data
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Speakers

Kobra

*Ultra slim, high power
3D-array elements*



KKS50

Line array bass element
Minimum size maximum punch

The KKS50 is a compact but extremely powerful, line array bass system comprised of 4 x 4" neodymium transducers engineered for maximum linear excursion and minimum residual noise, housed in a military spec. stainless steel chassis. It can be configured horizontally or vertically.

With a frequency range of 60Hz to 300Hz, the KKS50 is a companion to any of the K-array Commercial Series and Installation Series speakers, as well as the KJ50vb variable beam floor monitor. The combination provides full range frequency response with prodigious output and a virtually invisible profile. A variety of accessories provide numerous mounting options for permanent and portable installations.

KA series amplifiers have presets specifically optimized for KKS50 applications.

All KKS50 components are designed by the K-array R&D department and custom made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Vertical, Horizontal line-array applications
- Multiple 4" long-excursion full-range cone drivers
- Smooth frequency response
- Electronically protected
- Integrated mounting hardware and accessories
- Selectable 8 Ohm or 32 Ohm impedance
- Selectable channel A or B
- Top quality components for outstanding performance
- Weather proof, suitable for outdoor installations

Available in black or white

Applications

- Theatre, Club, Houses of worship
- Front fill and under-balcony fill
- Portable and installed AV systems
- Stage and AV studio monitoring

Accessories

K-KSFLY, K-KSLINK, K-KCLAMP/S, K-KCLAMP>>> page 40-41



Installation KKS50

Specs

Acoustics

Power handling	300 W ^(AES)
Impedance	8Ω or 32Ω (selectable)
Frequency range	60 Hz - 300 KHz
Maximum SPL	108 dB continuous - 114 dB peak

Coverage

Horizontal	Omni
Vertical	Omni

Crossover

Type	External 24dB/oct. crossover required
Frequency	low pass @300 Hz

Transducers

Full range	4 x 4" Neodymium magnet with 1.5" voice coil
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Recommended Amplifiers

Type 8Ω	KA7, KA7-7, KA10, KA10-10, KA40 (with dedicated preset)
Type 32Ω	KA10, KA10-10, KA40 (for up to 8 X KKS50/channel) (with dedicated preset)

Physical

Dimensions	50 x 10.9 x 20,2 cm (19.69" x 4.29" x 7.95")
Weight	7.6 Kg (16.76 lbs)

Notes for data
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.

KK52

3D line-array element, variable beam speaker

The new K-array KK52 is a passive speaker system comprised of eight 2" neodymium magnet transducers housed in an elegant and sturdy stainless steel chassis. The vertical dispersion pattern can be switched for wide or narrow coverage, allowing for a great variety of applications. The eight closely spaced cone drivers provide true line array characteristics - phase coherence, low distortion and focused listening in both the near field, and at a distance from the speaker.

A variety of rigging accessories provides many linking and hanging options for the KK52 (0.5 meter) and the larger (1 meter) KK102 to be combined in vertical and horizontal line array configurations to satisfy many different venue requirements during temporary events and for permanent installations.

For easier use and integration with other speakers or amplifiers, the KK52 allows the user to select two different values of impedance (16Ω - 64Ω). At 64Ω as many as eight KK52 speakers can be powered off a single amplifier channel, which eliminates the need of 70 V amplifiers for wider distributed installed systems.

The KK52 is able to reproduce the whole vocal frequency range with high intelligibility, starting from 150 Hz. Integrating one of the Redline series powered subwoofers (KMT12, KMT18, KMT21), configured with specific presets for the KK52 assures excellent coverage of the entire musical frequency range.

The K-array KA amplifier series have pre-sets optimized for KK52 use that can be uploaded from a computer.

All KK52 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Vertical, Horizontal and 3D line-array applications
- Multiple 2" long-excursion full-range cone drivers
- Wide horizontal coverage
- Electronically protected
- Selectable 16 Ohm or 64 Ohm impedance
- Selectable vertical pattern (Spot - Flood)
- Weather proof, suitable for outdoor installations
- Available in black or white

Applications

- Theatre, Club, House of worship
- Front fill and under-balcony fill
- Portable and installed AV systems
- Stage and AV studio monitoring

Accessories

K-BASE2, K-FLY2, KK-CLUSTER2, K-FOOT2, K-JOINT2, KK-STAGE, K-WALL2L, K-WALL2LW, K-WALL2, K-WALL2W, K-KCLAMP/S, K-KCLAMP >>> page 40-41

Specs

Acoustics	
Power handling	200 W (AES)
Impedance	16Ω or 64Ω (selectable)
Frequency range	150 Hz - 20 KHz.
Maximum SPL	118 dB continuous - 124 dB peak
Coverage	
Horizontal	110°
Vertical	10°- 60° (selectable)
Crossover	
Type	External Crossover required
Frequency	High pass @150 Hz, 24 dB/oct suggested minimum
Transducers	
Full-range	8 x 2" Neodymium magnet with 0.75" voice coil
Power Audio Input	
Connectors	2 x 4-pin Speakon
Wiring	1+ 1- (signal IN & LINK); 2+ 2- (through)
Selection Switch	
Vertical pattern	Spot - Flood
Impedance	16Ω - 64Ω
Physical	
Dimensions	8.1 x 50 x 5.9 cm (3.19" x 19.7" x 2.32")
Weight	2.3 Kg (5.07 lbs)

Notes for data
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.



Installation KK52

KK102

3D line-array element, variable beam speaker

The new K-array KK102 is a passive speaker system comprised of sixteen 2" neodymium magnet transducers housed in an elegant and sturdy stainless steel chassis. The vertical dispersion pattern can be switched for wide or narrow coverage, allowing for a great variety of applications. The sixteen closely spaced cone drivers provide true line array characteristics - phase coherence, low distortion and focused listening in both the near field, and at a distance from the speaker.

A variety of rigging accessories provides many linking and hanging options for the KK102 (1 meter) and the smaller (0.5 meter) KK52 to be combined in vertical and horizontal line array configurations to satisfy many different venue requirements during temporary events and for permanent installations.

For easier use and integration with other speakers or amplifiers, the KK102 allows the user to select two different values of impedance (8Ω - 32Ω). At 32Ω as many as four KK102 speakers can be powered off a single amplifier channel, which eliminates the need of 70 V amplifiers for wider distributed installed systems.

The KK102 is able to reproduce the whole vocal frequency range with high intelligibility, starting from 150 Hz. Integrating one of the Redline series powered subwoofers (KMT12, KMT18, KMT21), configured with specific presets for the KK102 assures excellent coverage of the entire musical frequency range.

The K-array KA amplifier series have pre-sets optimized for KK102 use that can be uploaded from a computer. All KK102 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
 - Vertical, Horizontal and 3D line-array applications
 - Multiple 2" long-excursion full-range cone drivers
 - Wide horizontal coverage
 - Electronically protected
 - Selectable 8 Ohm or 32 Ohm impedance
 - Selectable vertical pattern (Spot - Flood)
 - Weather proof, suitable for outdoor installations
- Available in black or white**

Applications

- Theatre, Club, House of worship
- Front fill and under-balcony fill
- Portable and installed AV systems
- Stage and AV studio monitoring

Accessories

K-BASE, K-FLY2, KK-CLUSTER2, K-FOOT2, K-JOINT, KK-STAGE, K-WALL2L, K-WALL2LW, K-WALL2, K-WALL2W, K-KCLAMP/S, K-KCLAMP >>> page 40-41

Specs

	Acoustics
Power handling	400 W (AES)
Impedance	8Ω or 32Ω (selectable)
Frequency range	150 Hz - 20 KHz.
Maximum SPL	124 dB continuous - 130 dB peak
	Coverage
Horizontal	110°
Vertical	7° - 35° (selectable)
	Crossover
Type	External Crossover required
Frequency	High pass @150 Hz, 24 dB/oct suggested minimum
	Transducers
Full-range	16 x 2" Neodymium magnet with 0.75" voice coil
	Power Audio Input
Connectors	2 x 4-pin Speakon
Wiring	1+ 1- (signal IN & LINK); 2+ 2- (through)
	Selection Switch
Vertical pattern	Spot - Flood
Impedance	8Ω - 32Ω
	Physical
Dimensions	8.1 x 100 x 5.9 cm (3.19" x 39.4" x 2.32")
Weight	4.6 Kg (10.14 lbs)

Notes for data
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.



Configuration not available for the US market

Installation KK102

Speakers

Python

3D line-array element, selectable beam speaker



KP52

3D line-array element, selectable beam speaker

The new K-array KP52 is a passive speaker system comprised of six 3.15" neodymium magnet transducers housed in an elegant and sturdy stainless steel chassis. The vertical dispersion pattern can be switched for wide or narrow coverage, allowing for a great variety of applications. The six closely spaced cone drivers provide true line array characteristics - phase coherence, low distortion and focused listening in both the near field, and at a distance from the speaker.

A variety of rigging accessories provides many linking and hanging options for the KP52 (0.5 meter) and the larger (1 meter) KP102 to be combined in vertical and horizontal line array configurations to satisfy many different venue requirements during temporary events and for permanent installations.

For easier use and integration with other speakers or amplifiers, the KP52 allows the user to select two different values of impedance (8Ω - 32Ω). At 32Ω as many as eight KP52 speakers can be powered off a single amplifier channel, which eliminates the need of 70 V amplifiers for wider distributed installed systems.

The KP52 is able to reproduce the whole vocal frequency range with high intelligibility, starting from 100 Hz. Integrating one of the Redline series powered subwoofers (KMT12, KMT18, KMT21), configured with specific presets for the KP52 assures excellent coverage of the entire musical frequency range.

The K-array KA amplifier series have pre-sets optimized for KP52 use that can be uploaded from a computer.

All KP52 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Vertical, Horizontal and 3D line-array applications
- Multiple 3.15" long-excursion full-range cone drivers
- Wide horizontal coverage
- Electronically protected
- Selectable 8 Ohm or 32 Ohm impedance
- Selectable vertical pattern (Spot - Flood)
- Weather proof, suitable for outdoor installations
- Available in black or white**

Applications

- Theatre, Club, House of worship
- Front fill and under-balcony fill
- Portable and installed AV systems
- Stage and AV studio monitoring

Accessories

K-BASE2, K-FLY2, KP-CLUSTER2, K-FOOT2, K-BASE2, K-JOINT2, KP-STAGE, K-WALL2L, K-WALL2LW, K-WALL2, K-WALL2W >>> page 40-41

Specs

Acoustics	
Power handling	360 W (AES)
Impedance	8Ω or 32Ω (selectable)
Frequency range	100 Hz - 20 KHz.
Maximum SPL	118 dB continuous - 124 dB peak
Coverage	
Horizontal	90°
Vertical	10° - 45° (selectable)
Crossover	
Type	External Crossover required
Frequency	High pass @100 Hz, 24 dB/oct suggested minimum
Transducers	
Full-range	6 x 3.15" Neodymium magnet with 1" voice coil
Power Audio Input	
Connectors	2 x 4-pin Speakon
Wiring	1+ 1- (signal IN & LINK); 2+ 2- (through)
Selection Switch	
Vertical pattern	Spot - Flood
Impedance	8Ω - 32Ω
Physical	
Dimensions	8.8 x 50 x 11.8 cm (3.56" x 19.7" x 4.65")
Weight	5.8 Kg (12.79 lbs)

Notes for data
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.

KP102

3D line-array element, selectable beam speaker

The new K-array KP102 is a passive speaker system comprised of twelve 3.15" neodymium magnet transducers housed in an elegant and sturdy stainless steel chassis. The vertical dispersion pattern can be switched for wide or narrow coverage, allowing for a great variety of applications. The twelve closely spaced cone drivers provide true line array characteristics - phase coherence, low distortion and focused listening in both the near field, and at a distance from the speaker.

A variety of rigging accessories provides many linking and hanging options for the KP102 (0.5 meter) and the smaller (1 meter) KP52 to be combined in vertical and horizontal line array configurations to satisfy many different venue requirements during temporary events and for permanent installations.

For easier use and integration with other speakers or amplifiers, the KP102 allows the user to select two different values of impedance (4Ω – 16Ω). At 16Ω as many as four KP102 speakers can be powered off a single amplifier channel, which eliminates the need of 70 V amplifiers for wider distributed installed systems.

The KP102 is able to reproduce the whole vocal frequency range with high intelligibility, starting from 100 Hz.

Integrating one of the Redline series powered subwoofers (KMT12, KMT18, KMT21), configured with specific presets for the KP102 assures excellent coverage of the entire musical frequency range.

The K-array KA amplifier series have pre-sets optimized for KP102 use that can be uploaded from a computer.

All KP102 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
 - Vertical, Horizontal and 3D line-array applications
 - Multiple 3.15" long-excursion full-range cone drivers
 - Wide horizontal coverage
 - Electronically protected
 - Selectable 4 Ohm or 16 Ohm impedance
 - Selectable vertical pattern (Spot - Flood)
 - Weather proof, suitable for outdoor installations
- Available in black or white**

Applications

- Theatre, Club, House of worship
- Front fill and under-balcony fill
- Portable and installed AV systems
- Stage and AV studio monitoring

Accessories

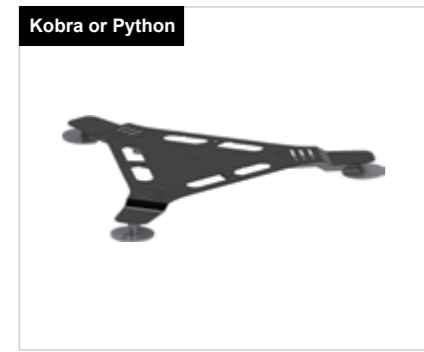
K-BASE2, K-FLY2, KP-CLUSTER2, K-FOOT2, K-BASE2, K-JOINT2, KP-STAGE, K-WALL2L, K-WALL2LW, K-WALL2, K-WALL2W >>> page 40-41

Specs

	Acoustics
Power handling	720 W (AES)
Impedance	4Ω or 16Ω (selectable)
Frequency range	100 Hz - 20 KHz.
Maximum SPL	128 dB continuous - 134 dB peak
	Coverage
Horizontal	90°
Vertical	7° - 30° (selectable)
	Crossover
Type	External Crossover required
Frequency	High pass @100 Hz, 24 dB/oct suggested minimum
	Transducers
Full-range	12 x 3.15" Neodymium magnet with 1" voice coil
	Power Audio Input
Connectors	2 x 4-pin Speakon
Wiring	1+ 1- (signal IN & LINK); 2+ 2- (through)
	Selection Switch
Vertical pattern	Spot - Flood
Impedance	4Ω - 16Ω
	Physical
Dimensions	8.8 x 100 x 11.8 cm (3.56" x 39.4" x 4.65")
Weight	12 Kg (26.45 lbs)

Notes for data
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.





K-BASE2

Floor adapter for vertical array of maximum 2 meters of Kobras or Pythons



K-FLY2

Flying bar for maximum 6mt of Pythons or 8mt of Kobras



KK-CLUSTER2

Hardware to make horizontal clusters of Kobras (max 3pcs)



K-WALL2LW

Wall bracket for Kobras and Pythons (basic model) in WHITE



K-WALL2

Wall bracket for Kobras and Pythons (advanced model) in BLACK



K-WALL2W

Wall bracket for Kobras and Pythons (advanced model) in WHITE



KP-CLUSTER2

Hardware to make horizontal clusters of Pythons (max 3pcs)



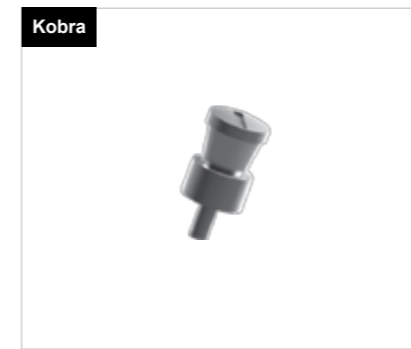
K-FOOT2

Adapter for standing Kobras or Pythons on KMT subwoofers, K-BASE2 and 35mm stands



K-JOINT2

Hardware to connect together 2 Kobras or Pythons (even mixed configurations)



K-KCLAMP/S

Kobra clamp adapter (clamp NOT INCLUDED)



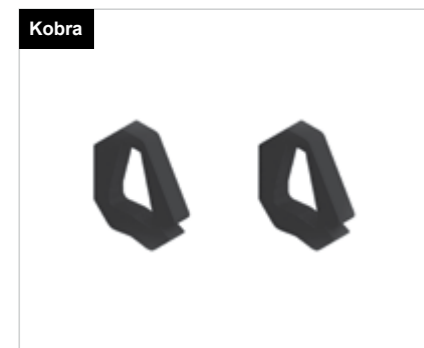
K-KCLAMP

Kobra clamp adapter (clamp INCLUDED)



KKS50

KKS50 Flying Bar + Tilter Hardware



KK-STAGE

Rubber adapters to use Kobras in horizontal on the floor (I.E. Monitor or Frontfill)



KP-STAGE

Rubber adapters to use Pythons in horizontal on the floor (I.E. Monitor or Frontfill)



K-WALL2L

Wall bracket for Kobras and Pythons (basic model) in BLACK



K-KSLINK

KKS50 Link Hardware

Subwoofers

Rumble

Ultra slim, high power Subwoofer



KU36

Ultra slim, high power subwoofer

With a frequency range of 45Hz to 300Hz, the KU36 is the perfect companion to any of the K-array Installation Series speakers, as well as the KZ10 or KV50.

The combination provides full range frequency response with prodigious output and a virtually invisible profile. KA series amplifiers have presets specifically optimized for KU36 applications.

It is comprised of 1 x 6" neodymium transducer, combined with 2 x 6" passive transducers, instead of reflex, which ensures that the device remains completely sealed.

The unit is engineered for maximum linear excursion and minimum residual noise.

Its neodymium transducer has a double coil controlled by two amplified channels.

The KU36 is made entirely of steel, making it extremely resistant, even when deployed outside in tough weather conditions. This makes it ideal for marine environments where ordinary bass speakers would corrode. As the chassis is completely sealed, it cannot be penetrated by foreign objects such as dust, sand or water, which over time can ruin a speaker.

All KU36 components are designed by the K-array R&D department and custom made under the K-array quality control system.



KU36



KU36W



Features

- Unique performance-to-size ratio
- 6" long-excursion woofer
- Double 6" passive radiator
- Extended frequency response
- Electronically protected
- Integrated flying points
- Double voice coil (4Ω+4Ω)
- Top quality components for outstanding performance
- Weather proof, suitable for outdoor installations
- Available in black or white

Applications

- Theatre, Club, House of worship
- To extend the low range in small and medium rooms
- Portable and installed AV systems
- Stage and AV studio monitoring

Specs

Acoustics	
Speaker power handling	2 X 80 W ^(EAS)
Operating frequency range	45 Hz - 300 Hz (preset dependent)
Impedance	2 x 4 Ω
Maximum SPL	115 dB continuous - 121 dB peak
Transducers	
Full range	1 X 6" Neodymium magnet with 1.5" voice coil + 2 X 6" passive transducer
Impedance	2 x 4Ω
Physical	
Dimensions	50.7 x 17.5 x 10.6 cm (19.96" x 6.89" x 4.17")
Weight	6.4 Kg (14.11 lbs)

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.



Installation KU36

Subwoofers

KMTP

Ultra-light high-power subwoofers



array K

KMT12P

Ultra-light high-power 12" subwoofer

The KMT12P is a high performance sub-bass system designed for use with small to medium wavefront systems, in both touring and install applications. It features a 600 watt 12" drive unit with magnet structure and suspension engineered for maximum linear excursion.

The ultra-light reflex cabinet is fitted with two pocket handles and one M20 thread mount position for attaching mid-high speakers . It features large area porting to reduce air noise.

The KMT12P is ideal for small throw applications, like theaters, concert halls, AV installations.

All the KMT12P components are designed by K-array R&D department and custom made under K-array control quality system.



Features

- Unique performance-to-size ratio
- High power 128 dB continuous - 134 dB peak
- Fitted with integral handles and castors
- Direct radiating, long excursion 12" driver
- Ultra fast set-up and dismantling system

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Portable and installed audio-visual systems
- Cinema surround sound and effects

KMT18P

Ultra-light high-power 18" subwoofer

The KMT18P is a high performance sub-bass system designed for use with small to medium wavefront systems, in both touring and install applications. It features a 800 watt 18" drive unit with magnet structure and suspension engineered for maximum linear excursion. The ultra-light reflex cabinet is fitted with two pocket handles and one M20 thread mount position for attaching mid-high speakers . It features large area porting to reduce air noise.

The KMT18P is designed to be powered by KMT18 speakon output and to be easily integrated with KK102 mid-high speakers.

The KMT18P is ideal for medium throw applications, like theaters, concert halls, AV installations.

All the KMT18P components are designed by K-array R&D department and custom made under K-array control quality system.



Features

- Unique performance-to-size ratio
- High power 128 dB continuous - 134 dB peak
- Fitted with integral handles and castors
- Direct radiating, long excursion 18" driver
- Ultra fast set-up and dismantling system

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Portable and installed audio-visual systems
- Cinema and special effects

KMT21P

Ultra-light high-performance 21" subwoofer

The KMT21P is a high performance sub-bass system designed for use with small to medium wavefront systems, in both touring and install applications. It features a 1800 watt 21" drive unit with magnet structure and suspension engineered for maximum linear excursion.

The ultra-light reflex cabinet is fitted with two pocket handles and one M20 thread mount position for attaching mid-high speakers .

It features large area porting to reduce air noise.

The KMT21P is ideal for small throw applications, like theaters, concert halls, AV installations.

All the KMT21P components are designed by K-array R&D department and custom made under K-array control quality system.



Features

- Unique performance-to-size ratio
- High power 132 dB continuous - 138 dB peak
- Fitted with integral handles and castors
- Direct radiating, long excursion 18" driver
- Ultra fast set-up and dismantling system

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Portable and installed audio-visual systems
- Cinema and special effects

KMT12P Specs

Acoustics	
Power handling	700W (AES)
Impedance	8 Ω
Frequency range	40Hz - 150 Hz +/- 3dB (preset dependent)
Maximum SPL	128 dB continuous - 134 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	External Crossover required
Frequency	low pass @150 Hz maximum
Transducers	
Full-range	1 x 12" Neodymium speakers with 3" voice coil
Physical	
Dimensions	32.5 x 33.5 x 43.5 cm (12.91" x 13.19" x 17.13")

KMT18P Specs

Acoustics	
Power handling	800W (AES)
Impedance	8 Ω
Frequency range	30Hz - 150 Hz +/- 3dB (preset dependent)
Maximum SPL	128 dB continuous - 134 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	External Crossover required
Frequency	low pass @150 Hz maximum
Transducers	
Full-range	1 x 18" Neodymium speakers with 3" voice coil
Physical	
Dimensions	46.5 x 47.5 x 61 cm (18.31" x 18.70" x 24.02")

KM/21P Specs

Acoustics	
Power handling	1800W (AES)
Impedance	4 Ω
Frequency range	30Hz - 150 Hz +/- 3dB (preset dependent)
Maximum SPL	132 dB continuous - 138 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	External Crossover required
Frequency	low pass @150 Hz maximum
Transducers	
Full-range	1 x 18" Neodymium speakers with 3" voice coil
Physical	
Dimensions	55.5 x 55.5 x 77.7 cm (21.85" x 21.85" x 30.59")

Notes for data
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.



Monitor

Ninja

Low profile, variable beam speaker

KJ50VB

Low profile, variable beam speaker

Along with its ultra-slim profile, substantial output capability and smooth frequency response over the full vocal range, the KJ50vb has the unique capability to switch-select the Horizontal coverage pattern and to vary the Vertical coverage through DSP control.

The KJ50vb is specifically designed to work with the K-array KA7-7 four-channel power amplifier. The KA7-7 provides the discrete pre-set DSP control settings for speaker protection, equalization and the vertical beamwidth and steering capabilities.

The KJ50vb speaker system is capable of operating with other power amplifiers and DSP control systems. For these applications please contact K-array technical support at tech@k-array.com.



Features

- Selectable horizontal coverage
 - Variable vertical coverage from external DSP control. +/- 15° focus area
 - Multiple 2" long excursion full-range drivers
 - Smooth frequency response
 - Electronically protected
 - High dynamic range capability
 - Top quality components for outstanding performance
 - Ultra-thin frame for invisible installation
- Available in black or white

Applications

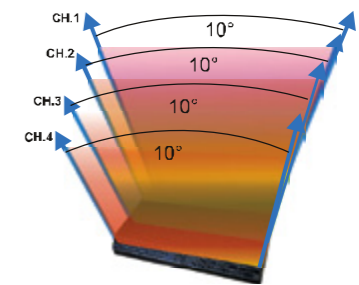
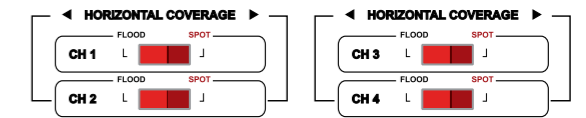
- TV stage monitoring
- Live stage monitoring
- Ceiling PA or monitor installations
- Permanent installations
- Under balcony applications

Specs

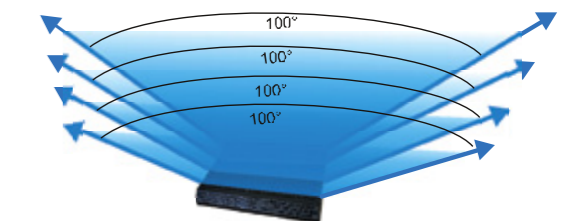
Acoustics	
Power handling	4 x 150 W ^(AES)
Impedance	4 x 16Ω (spot mode), 4 x 8Ω (flood mode)
Frequency range	150 Hz - 19 KHz
Maximum SPL	124 dB continuous - 130 dB peak
Coverage	
Horizontal	switchable from Spot (10°) to Flood (100°)
Vertical	DSP dependent 10° "Narrow" to 70° "Wide", +/- 15° variable focus in "Narrow" mode
Speaker input	
Connectors	1 x 8-pin Speakon NL8 input 1 x 8-pin Speakon NL8 Thru
Transducers	
Full-range	36 x 2" neodymium magnet 0.75" VC long-excursion speakers
Recommended Amplifiers	
Type	The K-array KA7-7 amplifier can drive up to 4 x KJ50vb speaker systems in parallel.
Selection Switch	
Coverage	4 x switches for near, mid-near, mid-far and far-field
Physical	
Dimensions	50.3 x 43.3 x 6.1 cm (19.80" x 17.05" x 2.40")
Weight	10 Kg (22.5 lbs)

Notes for data
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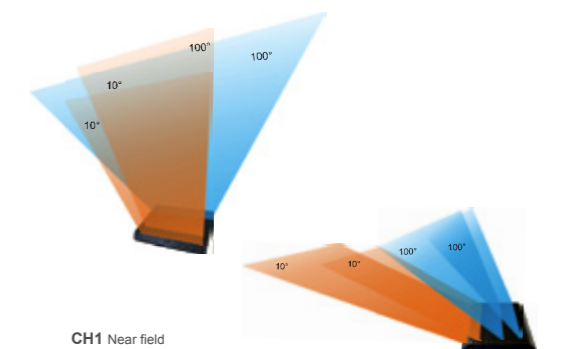
SPOT MODE



FLOOD MODE



COMBINED MODE



CH1 Near field
CH2 Mid - near field
CH3 Mid-far field
CH4 Far field

Skin

High technology point/line source elements



KN6-KN6P

High technology point/line source speaker

The KN6 is a stainless steel, self-powered, 2-way full range speaker system. It is compact and powerful with five individual D class amplifier channels dedicated to each of its five transducer elements. It has a wide 130° vertical coverage pattern and the ability to select the horizontal coverage from 10° to 130°, making it useable as both a point source and as a line array element.

It is ideal for medium throw applications in theatres, concert halls, houses of worship and AV installations. The KN6 uses two 6" Neodymium cone speakers with 2.5" voice coils for low-mid frequencies. The mid-high frequency section employs three 1" voice coil Neodymium compression drivers. The transducers are optimized with on-board DSP pre-sets. The KN6 is designed to easily integrate with KN10s self-powered subwoofer.

All KN6 components are designed by the K-array R&D department and custom made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Self powered (only KN6)
- Integrated DSP (only KN6)
- Flat amplitude and phase response
- Selectable point/line source emission
- Integrated 35mm pole adapter
- Ultra strong stainless steel enclosure
- For stand-alone use or as line array element

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Installed audio-visual systems
- Cinema surround sound and effects
- Compact voice reinforcement systems

Accessories

KN-FLY, K-KWALL1 >>> page 68-69



Installation KN6 - KN6P

KN6 Specs

	Acoustics
Power handling	2x250 + 3x20 W ^(AES)
Impedance	2x4Ω + 3x16Ω
Frequency range	45Hz - 19 KHz +/- 3dB (preset dependent)
Maximum SPL	125 dB continuous - 131 dB peak
	Coverage
Horizontal	selectable from 10° to 130°
Vertical	130°
	Crossover
Type	DSP controlled
Frequency	1.8 KHz minimum (preset dependent)
	Transducers
Low - Mid frequency	2 x 6" Neodymium speakers with 2.5" voice coil
High frequency	3 x 0.5" Neodymium compression driver with 1" voice coil
	Amplifiers
Type	2 modules class D - DSP controlled
Power (woofer)	350 + 350 Watt ¹
Power (driver)	3 x 40 Watt ¹
Protection	Dynamic limiter, over current, over temp, short circuits
	Physical
Dimensions	17.5 x 51 x 19 cm (6.89"x 20.08"x 7.48")
Weight	11.4 Kg (25.13 lbs)

KN6P Specs

	Acoustics
	2x250 + 3x20 W ^(AES)
	8 Ω
	45Hz - 19 KHz +/- 3dB (preset dependent)
	123 dB continuous - 129 dB peak
	Coverage
	selectable from 10° to 130°
	130°
	Crossover
	Passive filter
	1.8 KHz
	Transducers
	2 x 6" 4 W Neodymium speakers with 2.5" voice coil
	3 x 0.5" 16 W Neodymium compression driver with 1" voice coil
	Physical
	17.5 x 51 x 19 cm (6.89"x 20.08"x 7.48")

Notes for data
1. 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 catalogue.

KN10S-KN10SP

High technology steel Skin subwoofer

The KN10s is a high performance self-powered sub-bass speaker designed for use with the K-array KN6 and other small to medium format speaker systems in both touring and installation applications.

The compact and strong stainless steel chassis contains two 250 watt 10" transducers with Neodymium magnet structures and suspensions engineered for maximum linear excursion, each powered by a dedicated D class amplifier.

Large area porting eliminates turbulent air noise.

The KN10s is ideal for medium throw applications in theaters, concert halls and AV installations.

All KN10s components are designed by the K-array R&D department and custom made under K-array quality control systems.



Features

- Unique performance-to-size ratio
- Self-powered (only KN10S)
- Integrated DSP (only KN10S)
- Direct radiating, long excursion 10" drivers
- Integrated connection hardware
- Ultra strong steel shell

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, and houses of worship
- Installed audio-visual systems
- Cinema surround sound and effects
- Compact voice reinforcement systems

Accessories

KN-FLY>>> page 68-69



Installation KN10 - KN10P

KN6 Specs

Acoustics	
Power handling	2 x 250 W ^(AES)
Impedance	2 x 4 Ω
Frequency range	30Hz - 150 Hz +/- 3dB (preset dependent)
Maximum SPL	124dB continuous - 130 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	DSP controlled
Frequency	150 Hz minimum (preset dependent)
Transducers	
Low - Mid frequency	2 x 10" Neodymium speakers with 2" voice coil
High frequency	male + female parallel 3-pin balanced XLR
Amplifiers	
Type	1 module class D - DSP controlled
Power (woofer)	350 + 350 Watt ¹
Protection	Dynamic limiter, over current, over temp, short circuits
Physical	
Dimensions	51.1 x 28 x 33.6 cm (20.12"x 11.02"x 13.23")
Weight	18.8 Kg (41.45 lbs)

KN6P Specs

Acoustics	
Power handling	2x250 + 3x20 W ^(AES)
Impedance	8 Ω
Frequency range	45Hz - 19 KHz +/- 3dB (preset dependent)
Maximum SPL	123 dB continuous - 129 dB peak
Coverage	
Horizontal	selectable from 10° to 130°
Vertical	130°
Crossover	
Type	Passive filter
Frequency	1.8 KHz
Transducers	
Low - Mid frequency	2 x 10" Neodymium speakers with 2" voice coil
High frequency	male + female parallel 3-pin balanced XLR
Physical	
Dimensions	51.1 x 28 x 33.6 cm (20.12"x 11.02"x 13.23")

Notes for data
1. 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 catalogue.



High-Tech Class-D Power Amplifiers



KA1-1

A high technology Class D power amplifier

The amplifier is equipped with two INPUTS and four DSP OUTPUTS that run using K-array eDSP software.

This software runs on all Windows PCs allowing you complete remote control of your amplifier settings from a computer or laptop. It communicates via USB or RS485 (K-USB).

With the eDSP software you can manage EQ, dynamics and signal levels in real time.

There are four different EQ bands per channel which can be set to three different modes: high or low shelf, and peak. You can boost or reduce the energy of any set frequency and process dynamics in stereo channels.

Entering a password, an advanced user can further interact with the inputs for even more detailed control of the unit. You can access further processing on the second input, including 3 more parametric peaking EQ bands and a peak compressor, as well as being able to manage advanced routing options.

The K-array KA1-1 power amplifiers are built so that 4 of them can be installed into 2 rack units. In a light weight aluminum chassis, they are comprised of four output channels providing up to sixteen channels in a standard 2U rack space when mounted together.

KA1-1 amplifiers feature optical limiters, and protection against over temperature, over current and short circuits. KA1-1 amplifiers have on-board eDSP processor that allows to load dedicated presets, optimized for all K-array speaker systems.



Features

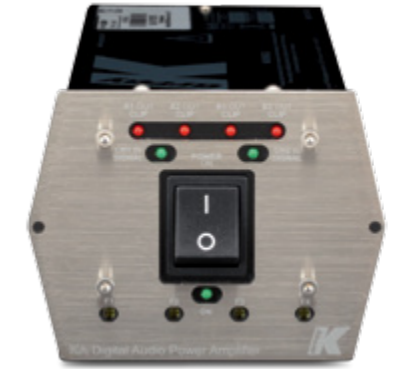
- Very light weight
- Compact design
- Optical limiters
- Electronically protected
- Ultra-high efficiency
- DSP on-board
- Remote control
- eDSP management software
- Top quality components for outstanding performance
- Aluminum frame

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Exhibit audio for museum displays
- Cinema and installed AV systems
- Diffused sound systems

Accessories

K-AL66, K-AL, K-AL120, K-AL240, KA-FRAME >>> page 68-69



Installation KA1-1

Specs

Output Power	
Max Power 4Ω	4 x 50 W ^(EIAJ)
Max Power 8Ω	4 x 30 W ^(EIAJ)
Connectors	4 x 2-pin Phoenix connector
Audio Input	
Connectors	2 x Female 3-pin bal. XLR
Wiring	Pin1 = Ground Pin2 = Hot (+) Pin3 = Cold (-)
Remote Control	
Software	eDSP
Connectors	2 x Female 8-pin RJ45 (RS485) + USB
DC Power	
Connector	2-pin Phoenix connector
Operating range	12 - 24 Vdc
Physical	
Dimensions	11 x 8.5 x 21 cm (4.33"x 3.5"x 8.27")
Weight	1.03 Kg (2.27 lbs)

Notes for data
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.

KA7 - KA7-7

A high technology Class D power amplifiers

The KA7 and KA7-7 power amplifiers are built into a 2U, half-rack, light weight aluminum chassis. Each model is comprised of two or four output channels providing up to eight channels in a standard 2U rack space when mounted together.

KA amplifiers feature optical limiters, and protection against over temperature, over current and short circuits. KA series amplifiers have on-board DSP presets specifically optimized for all K-array speaker systems.



Features

- Very light weight
- Compact design, 2 rack units per 4 channels
- Optical limiters
- Electronically protected
- Over-high efficiency
- DSP on-board
- Remote control
- eDSP management software
- Top quality components for outstanding performance
- Aluminum frame

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Exhibit audio for museum displays
- Cinema and installed AV systems
- Stage monitoring

Accessories

K-USB, K-XM45, K-XF45 >>> page 68-69



Installation KA7 - KA7-7



KA7 Specs

Output Power	
Max Power 4Ω	2 x 350 W ^(EIAJ)
Max Power 8Ω	2 x 190 W ^(EIAJ)
Max Power - bridged 8Ω	700 W ^(EIAJ)
Connectors	2 x 4-pin Speakon
Speakon 1 wiring	Pin 1+, 1- = CH1 Pin 2+, 2- = CH2
Speakon 2 wiring	Pin 1+, 1- = CH2 Pin 2+, 2- = N.C.
Audio Input	
Connectors	2 x Female + 2 x Male 3-pin bal. XLR
Wiring	Pin1 = Ground Pin2 = Hot (+) Pin3 = Cold (-)
Remote Control	
Software	eDSP
Connectors	2 x Female 8-pin RJ45 (RS485) + USB
AC Power	
Connector	powerCON
Operating range	70 - 240 Vac
Physical	
Dimensions	20 (1/2 U rack) x 8.8 (2U rack) x 27 cm (7.87"x 3.46"x 10.63")
Weight	2.6 Kg (5.73 lbs)

KA7-7 Specs

Output Power	
Max Power 4Ω	4 x 350 W ^(EIAJ)
Max Power 8Ω	4 x 190 W ^(EIAJ)
Connectors	2 x 4-pin Speakon
Speakon 1 wiring	Pin 1+, 1- = CH1 Pin 2+, 2- = CH3
Speakon 2 wiring	Pin 1+, 1- = CH2 Pin 2+, 2- = CH4
Audio Input	
Connectors	2 x Female + 2 x Male 3-pin bal. XLR
Wiring	Pin1 = Ground Pin2 = Hot (+) Pin3 = Cold (-)
Remote Control	
Software	eDSP
Connectors	2 x Female 8-pin RJ45 (RS485) + USB
AC Power	
Connector	powerCON
Operating range	70 - 240 Vac
Physical	
Dimensions	20 (1/2 U rack) x 8.8 (2U rack) x 27 cm (7.87"x 3.46"x 10.63")
Weight	5.5 Kg (12.13 lbs)

Notes for data
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.

KA10 - KA40 - KA10-10

A high technology Class D power amplifiers

The KA10, KA40, KA10-10 power amplifiers are built into a 2U, half-rack, light weight aluminum chassis. Each model is comprised of two or four output channels providing up to eight channels in a standard 2U rack space when mounted together.

KA amplifiers feature optical limiters, and protection against over temperature, over current and short circuits. KA series amplifiers have on-board DSP presets specifically optimized for all K-array speaker systems.

In the KA10, KA10-10 and KA 40, a dedicated remote control software allows for management of the installed presets and the ability to download new ones.



Features

- Very light weight
- Compact design, 2 rack units per 4 channels
- Optical limiters
- Electronically protected
- Over-high efficiency
- DSP on-board
- Remote control via RS485 (KA10, KA10-10, KA40)
- Management software (KA10, KA10-10, KA40)
- Top quality components for outstanding performance
- Aluminum frame

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Exhibit audio for museum displays
- Cinema and installed AV systems
- Stage monitoring

Accessories

K-USB, K-XM45, K-XF45 >>> page 68-69



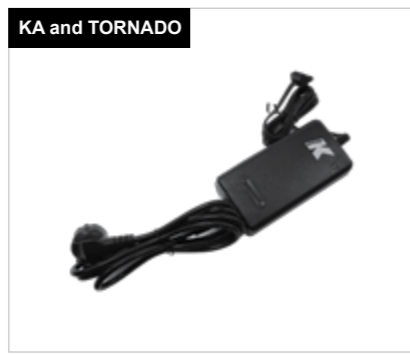
Installation KA10 -KA10-10 - KA40

	KA10 Specs	KA40 Specs	KA10-10 Specs
	Output Power	Output Power	Output Power
Max Power 4Ω	2 x 500 W ^(EIAJ)	2 x 2000 W ^(EIAJ)	4 x 350 W ^(EIAJ)
Max Power 8Ω	2 x 260 W ^(EIAJ)	2 x 1200 W ^(EIAJ)	4 x 190 W ^(EIAJ)
Max Power - bridged 8Ω	1000 W ^(EIAJ)	4000 W ^(EIAJ)	
Connectors	2 x 4-pin Speakon	2 x 4-pin Speakon	2 x 4-pin Speakon
Speakon 1 wiring	Pin 1+, 1- = CH1 Pin 2+, 2- = CH2	Pin 1+, 1- = CH1 Pin 2+, 2- = CH2	Pin 1+, 1- = CH1 Pin 2+, 2- = CH3
Speakon 2 wiring	Pin 1+, 1- = CH2 Pin 2+, 2- = N.C.	Pin 1+, 1- = CH2 Pin 2+, 2- = N.C.	Pin 1+, 1- = CH2 Pin 2+, 2- = CH4
	Audio Input	Audio Input	Audio Input
Connectors	2 x Female + 2 x Male 3-pin bal. XLR	2 x Female + 2 x Male 3-pin bal. XLR	2 x Female + 2 x Male 3-pin bal. XLR
Wiring	Pin1 = Ground Pin2 = Hot (+) Pin3 = Cold (-)	Pin1 = Ground Pin2 = Hot (+) Pin3 = Cold (-)	Pin1 = Ground Pin2 = Hot (+) Pin3 = Cold (-)
	Remote Control	Remote Control	Remote Control
Software	K-manager	K-manager	K-manager
Connectors	2 x Female 8-pin RJ45 (RS485)	2 x Female 8-pin RJ45 (RS485)	2 x Female 8-pin RJ45 (RS485)
	AC Power	AC Power	AC Power
Connector	powerCON	powerCON	powerCON
Operating range	EU 210-240 Vac 50Hz USA 100-120 Vac 60Hz	85 - 270 Vac 50/60Hz Universal up to 400 Vac	EU 210-240 Vac 50Hz USA 100-120 Vac 60Hz
	Physical	Physical	Physical
Dimensions	20 (1/2 U rack) x 8.8 (2U rack) x 44.5 cm (7.87" x 3.46" x 17.52")	20 (1/2 U rack) x 8.8 (2U rack) x 44.5 cm (7.87" x 3.46" x 17.52")	20 (1/2 U rack) x 8.8 (2U rack) x 44.5 cm (7.87" x 3.46" x 17.52")
Weight	3.5 Kg (7.72 lbs)	6 Kg (13.23 lbs)	4.8 Kg (10.58 lbs)

Notes for data
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.



K-AL15
Power Supply 1 Tornado (background or speech)



K-AL66
Power Supply 2 Tornado (full power) 4 Tornado (background or speech)



K-AL75
DIN rail PS 3 Tornado (full power) 6 Tornado (background or speech)



K-AL120
DIN rail PS 5 Tornado (full power) 10 Tornado (background or speech)



K-AL240
DIN rail PS 12 Tornado (full power) 24 Tornado (background or speech)



KA-FRAME
Rack Adapter for 4 pcs of KA1-1 and K-CTRL



K-CTRL
DMX-controlled 3-Channel power supply works as the power supply and DMX function controller for the LED component of the K-array KTL22 series of combined Speaker/Lighting fixtures. Colourmix, intensity and program operation mode can all be preset. The K-CTRL can also operate using an internal microphone for sound-to-light operation. Any settings are maintained when power is off and will return to the last setting when powered on again. A number of KTL22 series fixtures can be controlled from a single K-CTRL.



KT-IP
TORNADO back sealant ring in BLACK



KT-IPW
TORNADO back sealant ring in SILVER



K-KWALL1
Adjustable wall bracket , in BLACK



KN-FLY
Flying bar + filter for KN10 - KN6 systems (max 6 KN6 or 4 KN10S)



K-USB
USB-RS485 Interface for K-array Systems including 1 K-XM45 and 1 K-XF45



K-XF45
XLR Female to RJ45 adapter



K-XM45
XLR Male to RJ45 adapter

	Boardroom	Store	House of worship	Restaurant
Dimension				
100m ²	2 x KV50 1 x KU36 1 x KA7-7	KZ104 Pack	2 x KK52 2 x KU36 1 x KA7-7	KZ104 Pack
300m ²	1 2 x KK52 2 x KU36 1 x KA7-7	2 4 x KT22 2 x KU36 1 x KA7-7	1 2 x KK102 2 x KMT12P 1 x KA10-10	3 4 x KTL22 2 x KU36 1 x KA7-7 1 x K-ctrl
500m ²	2 x KK102 2 x KMT12P 1 x KA10-10	8 x KV50 4 x KU36 2 x KA7-7	4 x KK102 2 x KMT12P 1 x KA10-10	8 x KV50 4 x KU36 2 x KA7-7
1.000m ²	4 x KK102 2 x KK52 2 x KMT12P 1 x KA10-10 1 x KA10	4 x KK102 2 x KMT12P 1 x KA10-10	4 x KK102 2 x KK52 2 x KMT12P 1 x KA10-10 1 x KA10	4 x KK102 2 x KMT12P 1 x KA10-10



D10 - Shanghai

K-array's innovative, compact audio system on board Shanghai's new concept bar, Departure 10.

Located in the new Datong Mill underground entertainment complex, Shanghai's latest addition to the nightlife scene, Departure 10, offers guests a full flight experience without ever leaving the ground.

D10 is shaped like a commercial airliner fuselage, divided into three distinct areas: first class VIP, business/coach class and the dancefloor/DJ area. Only the wings are missing. Due to restricted space inside the airplane, the challenge was to design an audio system that could provide each zone with powerful, yet even coverage, while using a minimal amount of physical space. In fact, for most areas of D10, the system chosen and installed by Sennheiser, is literally invisible, with new K-array Tornado KT20 CW miniature speakers fully integrated into the airplane's ceiling.

The first class VIP area is covered by a total of six KT20 CW speakers and a pair of single KL12 12" sub-woofers. The floor of this section is elevated, thereby bringing the guests closer to the ceiling. The unique wide radial dispersion pattern of the KT20s makes it difficult to locate them, as the six units blend perfectly together to create an enveloping sound-field. This effect allows for both loud sound reproduction and for people to hold a decent conversation as they enjoy the DJ.

The business/coach class is approximately three times the volume of first class. It's covered by a mere eight Tornado KT20 CW speakers and a pair of single 18" sub-woofers. The higher ceiling in this area keeps standing guests further away from the speakers, which are also invisibly mounted. The totally diffused sound makes it a perfect place for meeting friends and having a conversation.

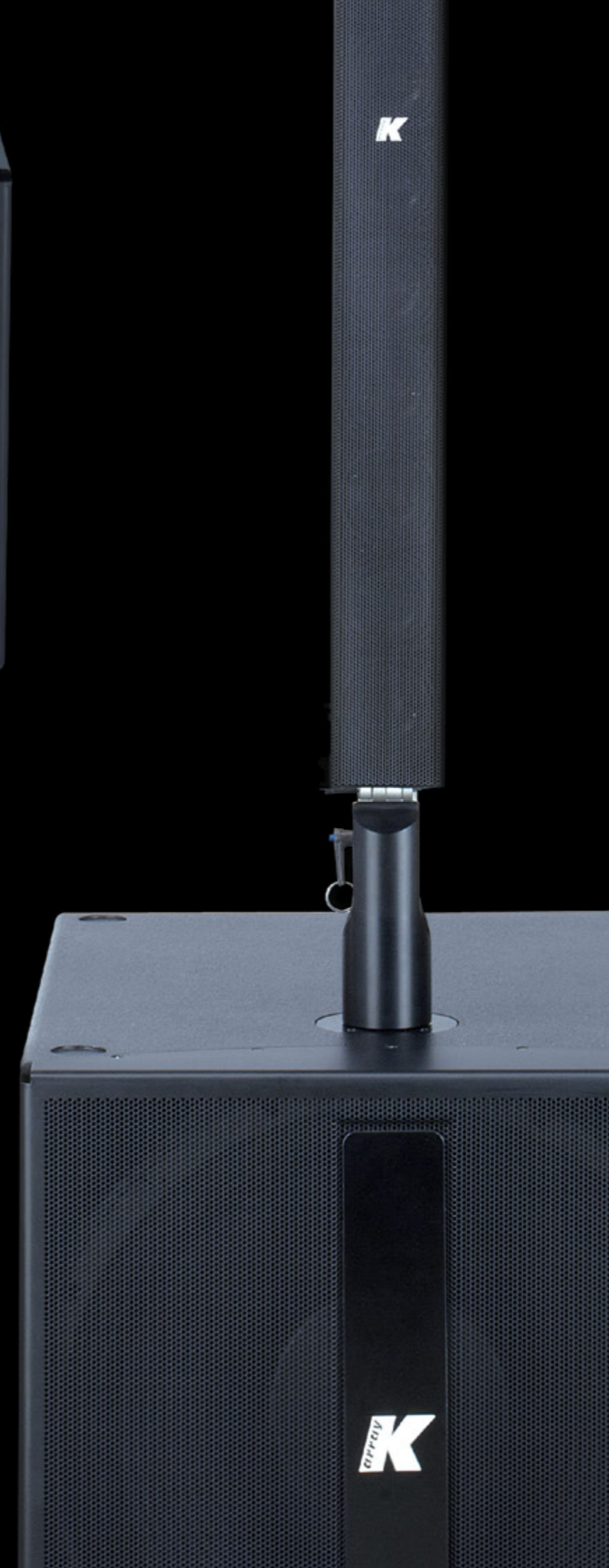
The cockpit is the DJ's haven, and is covered with a single pair of self-powered KT20 MA speakers. The DJ is facing the dancefloor, which is equipped with six K-array Kobra KK50W arrays, and a pair of single 18" sub-woofers. This is the area where high sound pressure must be achieved, while using a minimum amount of space. The ultra-slim KK50 miniature line arrays are mounted on each side along the walls of the dancefloor area. The compact sub-woofers are hidden underneath the DJ station, making them totally invisible. The entire system is powered by a total of three compact "quad channel" KA10-10 Class D amplifiers.

D10's owner Carl Humphrey is more than pleased with the set-up, "This innovative compact audio system is the dream of architects and designers, as it provides powerful sound while maintaining the club's unique décor integrity." The K-array system is the ideal solution for any venue where space is at a premium and where the sound system has to be integrated into the design, without sacrificing sound quality. Departure 10 has hit the speed of sound without ever leaving the ground.





Portable Systems



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Full Range Systems

Portable, powered stereo systems



KR102

High tech ultra-light powered stereo system

The K-array Research and Development, Engineering and Manufacturing divisions have developed three new integrated, self-powered speaker systems, featuring Mid-Hi line array elements matched to powered Subwoofers. All the systems feature two channels of class D amplification, housed in the sub-woofer. The rear panel provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling. An integrated touch screen provides intuitive managing and editing of powerful DSP controlling: Input and output levels, internally generated test signal, In/Out routing, subwoofer delay (up to 12 ms.), speakon output to the Mid-H element with delay (up to 12 ms.), and overall system delay (up to 330 ms.)

All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again, conveniently on a standard XLR.

There are 40 different DSP presets, specifically made by K-array to optimize the systems' performance for the variety of device configuration available. In addition the user can also create, save, and store his/her own personal presets on the module. The unique four-corner port configuration gives symmetrical back loading to the sub speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight. Pocket handles in the sub and an M20 thread mount position for attaching mid-high speakers, with a variety of mounting and rigging hardware options make the latest additions to the K-array Redline Series very versatile in almost any application and in every type of venue.

KR102 features a pair of KMT12 (12") subs each with 2 channels of 1,000 Watts matched to a KK102 with 12 x 2" Neodymium speaker elements.

All Redline systems are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- High power 126 dB continuous, 132 dB peak
- Fitted with integral handles
- Line array emission wavefront
- DSP on-board with dedicated presets
- Ultra fast set-up and dismantling system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control

Applications

- Concert halls
- Theatrical sound reinforcement
- Houses of worship
- Clubs
- A/V systems
- Cinema and special effects

System components



Accessories

K-BASE2, K-FLY2, KK-CLUSTER2, K-FOOT2, K-JOINT2, KK-STAGE, K-WALL2L, K-WALL2LW, K-WALL2, K-WALL2W, K-KCLAMP/S, K-KCLAMP >>> page 40-41

KK102 Specs

	Acoustics
Power handling	400 W ^(AES)
Impedance	8W or 32W (selectable)
Frequency range	150 Hz - 20 KHz.
Maximum SPL	124 dB continuous - 130 dB peak
	Coverage
Horizontal	110°
Vertical	7°- 35° (selectable)
	Crossover
Type	External Crossover required
Frequency	High pass @150 Hz, 24 dB/oct suggested minimum
	Transducers
Full-range	16 x 2" Neodymium magnet with 0.75" voice coil
	Power Audio Input
Connectors	2 x 4-pin Speakon
Wiring	1+ 1- (signal IN & LINK); 2+ 2- (through)
	Selection Switch
Vertical pattern	Spot - Flood
Impedance	8W - 32W
	Physical
Dimensions	8.1 x 100 x 5.9 cm (3.19" x 39.4" x 2.32")
Weight	4.6 Kg (10.14 lbs)

Notes for data
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.

KMT12 Specs (page 96-97)

	Acoustics
Power handling	700 W ^(AES)
Frequency range	40Hz - 150 Hz +/- 3dB (preset relating)
Impedance	8Ω
Maximum SPL	128 dB continuous - 134 dB peak
	Coverage
Horizontal	Omni
Vertical	Omni
	Crossover
Type	DSP controlled
Frequency	150 Hz maximum (preset dependent)
	Transducers
Full-range	1 x 12" Neodymium speakers with 3" voice coil
	Amplifiers
Type	1 modules class D - DSP controlled
Power	2x 1000 Watt ¹ @8Ω
Protection	Dynamic limiter, over current, over temp, short circuits
	Physical
Dimensions	32.5 x 33.5 x 43.5 cm (12.91" x 13.19" x 17.13")
Weight	15.6 Kg (34.39 lbs)

Notes for data
1. 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 catalogue.

portable KR102

KR202*

High tech ultra-light powered stereo system

The K-array Research and Development, Engineering and Manufacturing divisions have developed three new integrated, self-powered speaker systems, featuring Mid-Hi line array elements matched to powered Subwoofers. All the systems feature two channels of class D amplification, housed in the sub-woofer.

The rear panel provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling. An integrated touch screen provides intuitive managing and editing of powerful DSP controlling: Input and output levels, internally generated test signal, In/Out routing, subwoofer delay (up to 12 ms.), speakon output to the Mid-H element with delay (up to 12 ms.), and overall system delay (up to 330 ms.) All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again, conveniently on a standard XLR.

There are 40 different DSP presets, specifically made by K-array to optimize the systems' performance for the variety of device configuration available. In addition the user can also create, save, and store his/her own personal presets on the module. The unique four-corner port configuration gives symmetrical back loading to the sub speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight. Pocket handles in the sub and an M20 thread mount position for attaching mid-high speakers, with a variety of mounting and rigging hardware options make the latest additions to the K-array Redline Series very versatile in almost any application and in every type of venue. KR202 features a pair of KMT18 (18") subs each with 2 channels of 1,000 Watts matched to two KK102 Mid-High arrays. A coupling assembly allows the speakers to be mounted side-by-side, giving the ability to vary the vertical dispersion pattern for narrow to wide coverage. All Redline systems are designed by the K-array R&D department and custom-made under the K-array quality control system.



*Not available for the US market
For the US version visit <http://usa.k-array.com/>

Features

- Unique performance-to-size ratio
- High power 130 dB continuous, 136 dB peak
- Fitted with integral handles
- Line array emission wavefront
- DSP on-board with dedicated presets
- Ultra fast set-up and dismantling system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control

Applications

- Concert halls
- Theatrical sound reinforcement
- Houses of worship
- Clubs
- A/V systems
- Cinema and special effects

System components



Accessories

K-BASE2, K-FLY2, KK-CLUSTER2, K-FOOT2, K-JOINT2, KK-STAGE, K-WALL2L, K-WALL2LW, K-WALL2, K-WALL2W, K-KCLAMP/S, K-KCLAMP >>> page 40-41

KK102 Specs		KMT18 Specs (page 98-99)	
Acoustics		Acoustics	
Power handling	400 W ^(AES)	Power handling	800 W ^(AES)
Impedance	8W or 32W (selectable)	Frequency range	30Hz - 150 Hz +/- 3dB (preset relating)
Frequency range	150 Hz - 20 KHz.	Impedance	8Ω
Maximum SPL	124 dB continuous - 130 dB peak	Maximum SPL	130 dB continuous - 136 dB peak
Coverage		Coverage	
Horizontal	110°	Horizontal	Omni
Vertical	7° - 35° (selectable)	Vertical	Omni
Crossover		Crossover	
Type	External Crossover required	Type	DSP controlled
Frequency	High pass @150 Hz, 24 dB/oct suggested minimum	Frequency	150 Hz maximum (preset dependent)
Transducers		Transducers	
Full-range	16 x 2" Neodymium magnet with 0.75" voice coil	Full-range	1 x 18" Neodymium speakers with 3" voice coil
Power Audio Input		Amplifiers	
Connectors	2 x 4-pin Speakon	Type	1 modules class D - DSP controlled
Wiring	1+ 1- (signal IN & LINK); 2+ 2- (through)	Power	2x 1000 Watt ¹ @8Ω
Selection Switch		Protection	Dynamic limiter, over current, over temp, short circuits
Vertical pattern	Spot - Flood	Physical	
Impedance	8W - 32W	Dimensions	46.5 x 47.5 x 61 cm (18.31" x 18.70" x 24.02")
Dimensions	8.1 x 100 x 5.9 cm (3.19" x 39.4" x 2.32")	Weight	27.6 Kg (60.85 lbs)
Weight	4.6 Kg (10.14 lbs)	<small>Notes for data 1. 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 catalogue.</small>	

KR402

High tech ultra-light powered stereo system

The K-array Research and Development, Engineering and Manufacturing divisions have developed three new integrated, self-powered speaker systems, featuring Mid-Hi line array elements matched to powered Subwoofers. All the systems feature two channels of class D amplification, housed in the sub-woofer. The rear panel provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling. An integrated touch screen provides intuitive managing and editing of powerful DSP controlling: Input and output levels, internally generated test signal, In/Out routing, subwoofer delay (up to 12 ms.), speakon output to the Mid-H element with delay (up to 12 ms.), and overall system delay (up to 330 ms.) All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again, conveniently on a standard XLR. There are 40 different DSP presets, specifically made by K-array to optimize the systems' performance for the variety of device configuration available. In addition the user can also create, save, and store his/her own personal presets on the module. The unique four-corner port configuration gives symmetrical back loading to the sub speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight. Pocket handles in the sub and an M20 thread mount position for attaching mid-high speakers, with a variety of mounting and rigging hardware options make the latest additions to the K-array Redline Series very versatile in almost any application and in every type of venue. KR402 features a pair of KMT21 (21") subs each with 2 channels of 2,000 Watts matched to two KP102 Mid-High arrays. A coupling assembly allows the speakers to be mounted side-by-side, giving the ability to vary the vertical dispersion pattern for narrow to wide coverage. All Redline systems are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- High power 132 dB continuous, 138 dB peak
- Fitted with integral handles
- Line array emission wavefront
- DSP on-board with dedicated presets
- Ultra fast set-up and dismantling system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control

Applications

- Concert halls
- Theatrical sound reinforcement
- Houses of worship
- Clubs
- A/V systems
- Cinema and special effects

System components



Accessories

K-BASE2, K-FLY2, KK-CLUSTER2, K-FOOT2, K-JOINT2, KK-STAGE, K-WALL2L, K-WALL2LW, K-WALL2, K-WALL2W, K-KCLAMP/S, K-KCLAMP >>> page 40-41

	KP102 Specs	KMT21 Specs (page 100-101)
	<p>Acoustics</p> <p>Power handling 720 W ^(AES)</p> <p>Impedance 4W or 16W (selectable)</p> <p>Frequency range 100 Hz - 20 KHz.</p> <p>Maximum SPL 128 dB continuous - 134 dB peak</p> <p>Coverage</p> <p>Horizontal 90°</p> <p>Vertical 7° - 30° (selectable)</p> <p>Crossover</p> <p>Type External Crossover required</p> <p>Frequency High pass @100 Hz, 24 dB/oct suggested minimum</p> <p>Transducers</p> <p>Full-range 12 x 3.15" Neodymium magnet with 0.75" voice coil</p> <p>Power Audio Input</p> <p>Connectors 2 x 4-pin Speakon</p> <p>Wiring 1+ 1- (signal IN & LINK); 2+ 2- (through)</p> <p>Selection Switch</p> <p>Vertical pattern Spot - Flood</p> <p>Impedance 4W - 16W</p> <p>Physical</p> <p>Dimensions 8.8 x 100 x 11.8 cm (3.56" x 39.4" x 4.65")</p> <p>Weight 12 kg (26.45 lbs)</p> <p><small>Notes for data 1. 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 catalogue.</small></p>	<p>Acoustics</p> <p>Power handling 1800 W ^(AES)</p> <p>Frequency range 30Hz - 150 Hz +/- 3dB (preset relating)</p> <p>Impedance 4Ω</p> <p>Maximum SPL 132 dB continuous - 138 dB peak</p> <p>Coverage</p> <p>Horizontal Omni</p> <p>Vertical Omni</p> <p>Crossover</p> <p>Type DSP controlled</p> <p>Frequency 150 Hz maximum (preset dependent)</p> <p>Transducers</p> <p>Full-range 1 x 21" Neodymium speakers with 4" voice coil</p> <p>Amplifiers</p> <p>Type 1 modules class D - DSP controlled</p> <p>Power 2x 2400 Watt ¹ @4Ω</p> <p>Protection Dynamic limiter, over current, over temp, short circuits</p> <p>Physical</p> <p>Dimensions 55.5 x 55.5 x 77.7 cm (21.85" x 21.85" x 30.59")</p> <p>Weight 49 Kg (108.03 lbs)</p> <p><small>Notes for data 1. 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 catalogue.</small></p>

portable KR402

Systems

Sub Systems

Portable, powered subwoofer systems

array
K

KMT218

Portable, powered 2x18" subwoofer system

The new K-array KMT218 system, composed by an active KMT18 multi task 18" module and a passive KMT18P 18" subwoofer, is an advanced double subwoofer system. It is designed to add power to the low end of full range systems in various configurations to achieve different diffusion patterns.

To optimize the operation of each configuration, there are several dedicated DSP presets stored on the KMT internal memory. Users can also edit and store their own presets, in addition to the non editable ones supplied by K-array.

In total, there are 40 preset slots available on the KMT18.

An integrated touch screen provides intuitive managing and editing of the main DSP functions: input and output levels, In/Out routing, speakon output delay (up to 12 ms.), speaker delay (up to 12 ms.), overall system delay (up to 330 ms.). All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again conveniently on a standard XLR (K-USB and K-XM45 are needed).

The amplifiers mounted on board are class D, delivering 2 x 1050W @ 8Ω with a max THD of 1% (EIAJ test @ 1KHz).

One of the two amplifying channels is dedicated to an output Speakon to connect to the additional passive bass module KMT18P or to other kinds of speaker configurations like single mid-high modules (KK52, KK102, KP52, KP102) or multiple line arrays.

The rear panel of KMT18 provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling.

The unique four-corner port configuration gives symmetrical back loading to the speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight. Pocket handles and an M20 thread mount position for attaching mid-high speakers makes the KMT202 convenient to use and ideal for medium throw applications in theaters, concert halls, and Audio/Video installations.

All KTM218 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



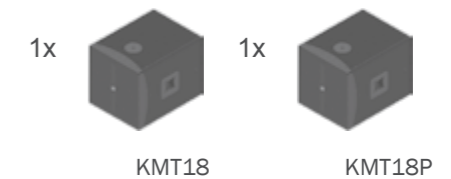
Features

- Unique performance-to-size ratio
- Fitted with integral handles
- Direct radiating, long excursion 18" driver
- Ultra fast set-up and dismounting system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control
- DSP on board with dedicated presets

Applications

- Concert halls
- Theatrical low frequency reinforcement
- Houses of worship
- Clubs
- Cinema and special effects
- horizontal subwoofer array
- Variable pattern configurations

System components



portable KMT218

KMT18 Specs

Acoustics	
Power handling	800 W ^(AES)
Frequency range	30Hz - 150 Hz +/- 3dB (preset relating)
Impedance	8Ω
Maximum SPL	130 dB continuous - 136 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	DSP controlled
Frequency	150 Hz maximum (preset dependent)
Transducers	
Full-range	1 x 18" Neodymium speakers with 3" voice coil
Amplifiers	
Type	1 modules class D - DSP controlled
Power	2x 1000 Watt ¹ @8Ω
Protection	Dynamic limiter, over current, over temp, short circuits
Physical	
Dimensions	46.5 x 47.5 x 61 cm (18.31"x 18.70" x 24.02")
Weight	27.6 Kg (60.85 lbs)

Notes for data
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.

KMT18P Specs

Acoustics	
Power handling	800W ^(AES)
Impedance	8 Ω
Frequency range	30Hz - 150 Hz +/- 3dB (preset dependent)
Maximum SPL	128 dB continuous - 134 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	External Crossover required
Frequency	low pass @150 Hz maximum
Transducers	
Full-range	1 x 18" Neodymium speakers with 3" voice coil
Physical	
Dimensions	46.5 x 47.5 x 61 cm (18.31"x 18.70" x 24.02")

Notes for data
1. 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 catalogue.

KMT221

Powered 2x21" subwoofer system

The new K-array KMT221 system, composed by an active KMT21 multi task 21" module and a passive KMT21P 21" subwoofer, is an advanced double subwoofer system. It is designed to add power to the low end of full range systems in various configurations to achieve different diffusion patterns.

To optimize the operation of each configuration, there are several dedicated DSP presets stored on the KMT internal memory. Users can also edit and store their own presets, in addition to the non editable ones supplied by K-array.

In total, there are 40 preset slots available on the KMT21.

An integrated touch screen provides intuitive managing and editing of the main DSP functions: input and output levels, In/Out routing, speakon output delay (up to 12 ms.), speaker delay (up to 12 ms.), overall system delay (up to 330 ms.). All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again conveniently on a standard XLR (K-USB and K-XM45 are needed).

The amplifiers mounted on board are class D, delivering 2 x 2000W @ 4Ω with a max THD of 1% (EIAJ test @ 1KHz).

One of the two amplifying channels is dedicated to an output Speakon to connect to the additional passive bass module KMT21P or to other kinds of speaker configurations like single mid-high modules (KK52, KK102, KP52, KP102) or multiple line arrays.

The rear panel of KMT21 provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling.

The unique four-corner port configuration gives symmetrical back loading to the speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight. Pocket handles and an M20 thread mount position for attaching mid-high speakers makes the KMT221 convenient to use and ideal for medium throw applications in theaters, concert halls, and Audio/Video installations.

All KMT221 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



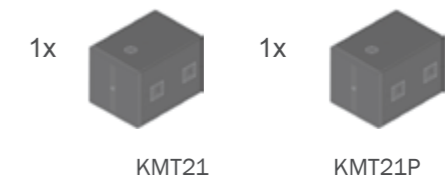
Features

- Unique performance-to-size ratio
- Fitted with integral handles
- Direct radiating, long excursion 21" driver
- Ultra fast set-up and dismounting system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control
- DSP on board with dedicated presets

Applications

- Concert halls
- Theatrical low frequency reinforcement
- Houses of worship
- Clubs
- Cinema and special effects
- horizontal subwoofer array
- Variable pattern configurations

System components



portable KMT221

KMT21 Specs

Acoustics	
Power handling	1800 W ^(AES)
Frequency range	30Hz - 150 Hz +/- 3dB (preset relating)
Impedance	4Ω
Maximum SPL	132 dB continuous - 138 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	DSP controlled
Frequency	150 Hz maximum (preset dependent)
Transducers	
Full-range	1 x 21" Neodymium speakers with 4" voice coil
Amplifiers	
Type	1 modules class D - DSP controlled
Power	2x 2400 Watt ¹ @4Ω
Protection	Dynamic limiter, over current, over temp, short circuits
Physical	
Dimensions	55.5 x 55.5 x 77.7 cm (21.85" x 21.85" x 30.59")
Weight	49 Kg (108.03 lbs)

Notes for data
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.

KMT21P Specs

Acoustics	
Power handling	1800W ^(AES)
Impedance	4 Ω
Frequency range	30Hz - 150 Hz +/- 3dB (preset dependent)
Maximum SPL	132 dB continuous - 138 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	External Crossover required
Frequency	low pass @150 Hz maximum
Transducers	
Full-range	1 x 18" Neodymium speakers with 3" voice coil
Physical	
Dimensions	55.5 x 55.5 x 77.7 cm (21.85" x 21.85" x 30.59")

Notes for data
1. 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 catalogue.

Subwoofers

KMT

*High tech multi-task powered subwoofers
with DSP and power output*



array K

KMT12

High tech multi-task powered 12" subwoofer with DSP and power output

The new K-array KMT12 is much more than a standard 12" powered subwoofer.

The amplifier mounted on board is class D, delivering 2 x 1000 W at 8Ω.

One of the two amplifying channels is dedicated to an output Speakon to connect to many kinds of speaker configurations, including single mid-high modules (KK52, KK102), multiple line arrays, or the passive version of an additional bass module (KMT12P or KMT18P).

The rear panel provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling. An integrated touch screen provides intuitive managing and editing of powerful DSP controlling: Input and output levels, internally generated test signal, In/Out routing, speakon output delay (up to 12 ms.), subwoofer delay (up to 12 ms.), overall system delay (up to 330 ms.) All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again conveniently on a standard XLR.

There are 40 different DSP presets, specifically made by K-array to optimize the system performance of the variety of device configuration available. In addition the user can also create, save, and store his/her own personal presets on the KMT12 module.

The unique four-corner port configuration gives symmetrical back loading to the speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight.

Pocket handles and an M20 thread mount position for attaching mid-high speakers makes the KMT12 convenient to use and ideal for medium throw applications in theaters, concert halls, and Audio/Video installations. All KMT12 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Fitted with integral handles and castors
- Direct radiating, long excursion 12" driver
- Ultra fast set-up and dismantling system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Portable and installed audio-visual systems
- Cinema and special effects
- Optimized for KK52, KK102 or KMT12P



Specs

Acoustics	
Power handling	700 W ^(AES)
Frequency range	40Hz - 150 Hz +/- 3dB (preset relating)
Impedance	8Ω
Maximum SPL	128 dB continuous - 134 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	DSP controlled
Frequency	150 Hz maximum (preset dependent)
Transducers	
Full-range	1 x 12" Neodymium speakers with 3" voice coil
Amplifiers	
Type	1 modules class D - DSP controlled
Power	2x 1000 Watt ¹ @8Ω
Protection	Dynamic limiter, over current, over temp, short circuits
Physical	
Dimensions	32.5 x 33.5 x 43.5 cm (12.91" x 13.19" x 17.13")
Weight	15.6 Kg (34.39 lbs)

Notes for data
1. 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 catalogue.

portable KMT12



KMT18

High tech multi-task powered 18" subwoofer with DSP and power output

The new K-array KMT18 is much more than a standard 18" powered subwoofer.

The amplifier mounted on board is class D, delivering 2 x 1000 W at 8Ω.

One of the two amplifying channels is dedicated to an output Speakon to connect to many kinds of speaker configurations, including single mid-high modules (KK52, KK102), multiple line arrays, or the passive version of an additional bass module (KMT18P or KMT12P).

The rear panel provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling.

An integrated touch screen provides intuitive managing and editing of powerful DSP controlling: Input and output levels, internally generated test signal, In/Out routing, speakon output delay (up to 12 ms.), subwoofer delay (up to 12 ms.), overall system delay (up to 330 ms.)

All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again conveniently on a standard XLR.

There are 40 different DSP presets, specifically made by K-array to optimize the system performance of the variety of device configuration available. In addition the user can also create, save, and store his/her own personal presets on the KMT18 module. The unique four-corner port configuration gives symmetrical back loading to the speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight.

Pocket handles and an M20 thread mount position for attaching mid-high speakers makes the KMT18 convenient to use and ideal for medium throw applications in theaters, concert halls, and Audio/Video installations. All KMT18 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Fitted with integral handles and castors
- Direct radiating, long excursion 18" driver
- Ultra fast set-up and dismantling system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Portable and installed audio-visual systems
- Cinema and special effects
- Optimized for KK102 or KMT18P



portable KMT18

Specs

	Acoustics
Power handling	800 W ^(AES)
Frequency range	30Hz - 150 Hz +/- 3dB (preset relating)
Impedance	8Ω
Maximum SPL	130 dB continuous - 136 dB peak
	Coverage
Horizontal	Omni
Vertical	Omni
	Crossover
Type	DSP controlled
Frequency	150 Hz maximum (preset dependent)
	Transducers
Full-range	1 x 18" Neodymium speakers with 3" voice coil
	Amplifiers
Type	1 modules class D - DSP controlled
Power	2x 1000 Watt ¹ @8Ω
Protection	Dynamic limiter, over current, over temp, short circuits
	Physical
Dimensions	46.5 x 47.5 x 61 cm (18.31" x 18.70" x 24.02")
Weight	27.6 Kg (60.85 lbs)

Notes for data
1. 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 catalogue.

KMT21

High tech multi-task powered 21" subwoofer with DSP and power output

The new K-array KMT21 is much more than a standard 18" powered subwoofer. The amplifier mounted on board is class D, delivering 2 x 2000 W at 4Ω.

One of the two amplifying channels is dedicated to an output Speakon to connect to many kinds of speaker configurations, including single mid-high modules (KP52, KP102), multiple line arrays, or the passive version of an additional bass module (KMT21P, KMT18P or KMT12P). The rear panel provides input for a balanced line signal, a balanced microphone signal with phantom power, and digital signals in AES/EBU protocol, also on an XLR for ease of cabling. An integrated touch screen provides intuitive managing and editing of powerful DSP controlling: Input and output levels, internally generated test signal, In/Out routing, speakon output delay (up to 12 ms.), subwoofer delay (up to 12 ms.), overall system delay (up to 330 ms.). All DSP functions, including EQ can be controlled with remote managing software via USB or RS485, again conveniently on a standard XLR. There are 40 different DSP presets, specifically made by K-array to optimize the system performance of the variety of device configuration available. In addition the user can also create, save, and store his/her own personal presets on the KMT21 module. The unique four-corner port configuration gives symmetrical back loading to the speaker for extended bass response with very low distortion. This also gives incredible structural strength to the cabinet despite its light weight.

Pocket handles and an M20 thread mount position for attaching mid-high speakers makes the KMT21 convenient to use and ideal for medium throw applications in theaters, concert halls, and Audio/Video installations. All KMT21 components are designed by the K-array R&D department and custom-made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Fitted with integral handles and castors
- Direct radiating, long excursion 21" driver
- Ultra fast set-up and dismantling system
- Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote control

Applications

- Theatrical sound reinforcement
- Concert halls, clubs, houses of worship
- Portable and installed audio-visual systems
- Cinema and special effects
- Optimized for KP102 or KMT21P



portable KMT21

Specs

Acoustics	
Power handling	1800 W ^(AES)
Frequency range	30Hz - 150 Hz +/- 3dB (preset relating)
Impedance	4Ω
Maximum SPL	132 dB continuous - 138 dB peak
Coverage	
Horizontal	Omni
Vertical	Omni
Crossover	
Type	DSP controlled
Frequency	150 Hz maximum (preset dependent)
Transducers	
Full-range	1 x 21" Neodymium speakers with 4" voice coil
Amplifiers	
Type	1 modules class D - DSP controlled
Power	2x 2400 Watt ' @4Ω
Protection	Dynamic limiter, over current, over temp, short circuits
Physical	
Dimensions	55.5 x 55.5 x 77.7 cm (21.85" x 21.85" x 30.59")
Weight	49 Kg (108.03 lbs)

Notes for data

1. 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 catalogue.

Audience size	Event type			
	Speech	Acoustic	Band	DJ
100	KR102	KR102	KR202	KR202
300	KR102	1 KR102	KR202	KR402
500	KR102	KR202	2 KR202	KR402
700	KR202	KR202	KR402	2x KR402 (+2 K-FLY2)
1.000	KR202	KR402	3 2x KR402 (+2 K-FLY2)	NO
2.000	KR402	2x KR402 (+2 K-FLY2)	3x KR402 (+2 K-FLY2)	NO
4.000	2x KR402 (+2 K-FLY2)	4 3x KR402 (+2 K-FLY2)	NO	NO
10.000	3x KR402 (+2 K-FLY2)	NO	NO	NO

1 KR102



2 KR202



3 2x KR402
(+2 K-FLY2)



4 3x KR402
(+2 K-FLY2)



portable set-up and configuration

Asian Games 2010

12th November 2010. Opening Ceremony of Guangzhou 2010, the 16th Asian Olympic Games.

Tony Liu, sound engineer at the opening ceremony of the Asian Games calls himself 'one of the biggest users of K-array in China.' When he was asked to provide the sound for the opening ceremony of the Asian Games he knew that he needed something different to a regular stadium PA. He brought in K-array KR200s to cover the top two tiers of the 27,000 strong main stand.

"I used 16 of them on the 2nd floor and 15 on the 3rd floor. They had a great frequency response. I already knew what they could do, but everybody here at the Games loved them too. People were coming up to me and saying they were surprised how powerful the speakers were, because they don't look like they can create so much power."

KR200s have coherent 120° x 7° coverage and can be programmed to provide very specific coverage. Tony placed them at a distance of 10m across the front of the second and third tier of the stand, to provide sound for the spectators furthest from the action, "I wanted to choose something smaller, higher energy with bigger coverage. Not too big because it would lose vertical energy. There are layers to the stadium and I didn't want a speaker that would leak to another area. As I have used K-arrays before – I do between 40 and 50 shows a year with the -, I knew that there would be no phasing or leakage between the speakers."


One of the features of the KR200s is that they can be used as monitors. At the Asian Games they were deployed on board traditional Chinese boats which were carrying the athletes to the games up the Pearl River. One system aboard each boat provided a live feed of the Ceremony to the athletes.

No one expected a relatively small speaker system to be able to fill an application as large as this. The major advantage of using KR200s in an event like this, is that at only 5.5cm (2.16") wide, they are so slim they can be placed in front of a bank of spectators with no impact on the sight lines.





Concert Series



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KH15 - KH15P *p. 110 - 111*
KS4 - KS4P *p. 112 - 113*

KO40 - KO40P *p. 114 - 115*
KO70 - KO70P *p. 116 - 117*

accessories *p. 118 - 119*

set-up and configuration *p. 120 - 121*
news *p. 122 - 123*

KH4 - KH4P

Ultra-thin PA System and line-array element

The K-array KH4 is a self-powered, 2-way line array design speaker system. At just over 113 Lbs (51 Kg) and 6" depth (16 cm) its ultra-compact aluminum enclosure contains an incredible reserve of power that ensures very high sound pressure with wide, consistent (120°) horizontal coverage and the unique capability for varying the vertical coverage from 7° for line array applications to as wide as 37° for single speaker systems. This provides for an incredibly versatile and flexible cost-effective inventory.

The KH4P is the passive version of the KH4. It features 4-pin speakon connections on its back instead of the amplifier bar.

The KH4 is best suited for medium to long throw applications in theaters, concert halls and churches, and for corporate AV events. The KH4 easily integrates with other K-array products such as the KS4 large format bass line array element, or KH15 satellites. Bass response and output capability can be extended with the incorporation of the Ko70 and Ko40 powered sub bass cabinets.

The KH4 uses twelve 8-inch cone drivers with 2.5" voice coils for low-mid frequencies, powered by six power amplifier channels. The mid-high frequency section uses five 1.75" voice coil compression drivers mounted on 1"x 4" constant directivity waveguides. The drivers form an array exactly in the centre of the speaker. A mechanical system can provide different vertical coverage from 7° to 37° on each KH4.

An internal DSP module provides configuration presets. Dedicated remote control software allows for control of the speaker from a PC.

All KH4 components are designed by the K-array R&D department and custom made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Self powered (only KH4)
- Integrated DSP and remote control (only KH4)
- Wide horizontal coverage
- Very flat profile
- Integrated flying hardware
- Top quality components for outstanding performance
- Ultra-fast set-up and dismantling system
- For use in single, point-source applications, in vertical line arrays or in combination with other K-array systems

Applications

- Medium and big scale events
- Front fill touring sound reinforcement
- Stadiums, theatres, concert halls, conferences, houses of worship
- Installations in low-load capacity situations

Accessories

K-CASE3, K-CASE2, K-CASE1, K-15CASE2, K-FEET4, K-FLY4, K-FLY4/15, K-USB, K-XM45, K-XF45 >>>> page 118-119



KH4 Specs

Acoustics	
Speaker power handling	3600 w + 400 w (AES)
Full frequency range	80 Hz - 20 KHz
Impedance	6 x 4Ω + 1 x 8Ω + 1 x 6Ω
Maximum SPL	133 dB continuous - 139 dB Peak
Coverage	
Horizontal	120°
Vertical	mechanically variable from 7° to 37°
Crossover	
Type	DSP controlled
Frequency	1.2 KHz minimum
Transducers	
Low - Mid frequency	12 x 8" Neodymium speakers with 2.5" voice coil
High frequency	5 x 1" Neodymium planar wave drivers with 1.75" voice coil
Amplifiers	
Type	4 modules class D - DSP controlled
Power	500 watts x 8 channels @ 4 Ω (4000 watt total) ¹
Protection	Dynamic limiter, over current, over temp, short circuits
Physical	
Dimensions	112 x 60 x 16 cm (44" x 23.62" x 6.29")
Weight	51 Kg (113.32 lbs)

KH4P Specs

Acoustics	
Speaker power handling	3600 w + 400 w (AES)
Full frequency range	80 Hz - 20 KHz
Impedance	6Ω (low-mid) 12Ω (high)
Maximum SPL	133 dB continuous - 139 dB Peak
Coverage	
Horizontal	120°
Vertical	mechanically variable from 7° to 37°
Crossover	
Type	DSP controlled
Frequency	1.2 KHz minimum
Transducers	
Low - Mid frequency	12 x 8" Neodymium speakers with 2.5" voice coil
High frequency	5 x 1" Neodymium planar wave drivers with 1.75" voice coil
Physical	
Dimensions	112 x 60 x 16 cm (44" x 23.62" x 6.29")
Weight	46 Kg (101 lbs)

Notes for data

1. 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 catalogue.

KH15 - KH15P

Ultra-compact PA System and line-array element

The K-array KH15 is a self-powered, 2-way line array design speaker system. Its ultra-compact aluminum and wood enclosure has an incredible reserve of power that ensures very high sound pressure with wide, consistent (120°) horizontal coverage.

The KH15P is the passive version of the KH15. It features 4-pin speakon connections on its back instead of the amplifier bar.

The KH15 is best suited for medium throw applications in theatres, concert halls, houses of worship and for corporate AV events. The KH15 low profile box makes it ideal for concert front fill and delay position applications. It easily integrates with other K-array products such as the KH4 and KS4 large format line array elements as a curvilinear down fill array.

Bass response and output capability can be extended with the incorporation of the KMT21 or KMT18 powered bass cabinets. The KH15 uses two 8-inch cone drivers with 3" voice coils for low-mid frequencies, powered by two power amplifier channels.

The mid-high frequency section uses two 1.75" voice coil compression drivers on 1"x4" constant directivity waveguides. The drivers are integrated in the box with a fixed vertical angle of 15°. The flying points provide different degrees to allow installation in curvilinear line arrays.

An internal DSP module provides control presets. Dedicated remote control software allows for control of the speaker from a PC.

All the KH15 components are designed by the K-array R&D department and custom made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Self powered (only KH15)
- Integrated DSP and remote control (only KH15)
- Wide horizontal coverage
- Very flat profile
- Top quality components for outstanding performance
- Ultra-fast set-up and dismantling system
- For use in single, point-source applications, in vertical line arrays or in combination with other K-array systems

Applications

- Medium scale events
- Front fill touring sound reinforcement
- Stadiums, theatres, concert halls, conferences, houses of worship
- Installations in low-load capacity situations

Accessories

K-CASE3, K-CASE2, K-CASE1, K-15CASE2, K-FLY15, K-FLY4/15, K-TILT15, K-USB, K-XM45, K-XF45 >>> page 118-119



concert KH15 - KH15P

KH15 Specs

Acoustics	
Speaker power handling	1500 w + 160 w ^(AES)
Full frequency range	70 Hz - 20 KHz
Impedance	8Ω
Maximum SPL	130 dB continuous - 139 dB Peak
Coverage	
Horizontal	120°
Vertical	15°
Crossover	
Type	DSP controlled
Frequency	1.2 KHz
Transducers	
Low - Mid frequency	2 x 8" Neodymium speakers with 3" voice coil
High frequency	2 x 1" Neodymium planar wave drivers with 1.75" voice coil
Amplifiers	
Type	1 module class D - DSP controlled
Power	750 W x 2 channels @ 4 Ω + 250 W @ 8 Ω ¹
Protection	Dynamic limiter, over current, over temp, short circuit
Physical	
Dimensions	max 62.7 x 25.3 x 16 cm (24.68" x 9.96" x 6.3")
Weight	15.4 Kg (33.95 lbs)

KH15P Specs

Acoustics
1500 w + 160 w ^(AES)
70 Hz - 20 KHz
8Ω
130 dB continuous - 136 dB Peak
Coverage
120°
15°
Crossover
DSP controlled
1.2 KHz
Transducers
2 x 8" Neodymium speakers with 3" voice coil
2 x 1" Neodymium planar wave drivers with 1.75" voice coil
Amplifiers
Physical
max 62.7 x 25.3 x 16 cm (24.68" x 9.96" x 6.3")
14 Kg (31 lbs)

Notes for data
1. 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 catalogue.

KS4-KS4P

High performance, ultra-thin profile, dipole subwoofer

The KS4 is a self-powered, high performance dipole subwoofer. At just over 46.8kg (103.18 lbs) and 16cm deep (6"), its ultra-compact aluminum enclosure has an incredible reserve of power. That ensures very high sound pressure with wide, consistent (120°) horizontal and vertical coverage. Its unique dipole 'figure-8' coverage pattern eliminates bass from coming off the side of the cabinets. This provides for a very controlled and quiet onstage sound, particularly in flown configurations.

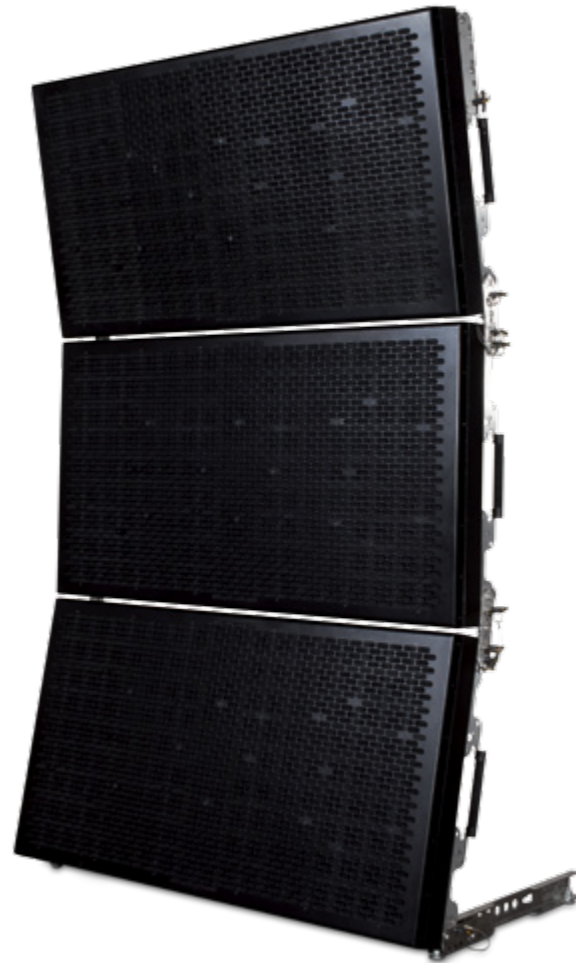
The KS4P is the passive version of the KS4. It features 4-pin speakon connections on its back instead of the amplifier bar.

The KS4 is suited for medium to long throw applications in theaters, stadiums, houses of worship and concert halls. The KS4 integrated with the KH4 self-powered line array speaker, creates a high performance large scale solution.

The KS4 uses eight, 10-inch high excursion cone drivers with 2" voice coils, powered by eight power amplifier channels. The woofers are mounted in a chassis that ensures high rigidity and resistance to vibrations. The integrated hardware system allows it to array with other KS4s to cover large open-air venues.

An internal DSP module provides control presets. Dedicated remote control software allows for control of the speaker from a computer.

All the KS4 components are designed by K-array R&D department and custom made under the K-array quality control system in Italy.



Features

- Unique performance-to-size ratio
- Self powered (only KS4)
- Integrated DSP and remote control (only KS4)
- 'Figure-8' horizontal and vertical coverage
- Integrated flying and stacking hardware
- Top quality components for outstanding performance
- Ultra fast set-up and dismantling system
- For use in single, point-source applications, in vertical line arrays or in combination with other K-array systems

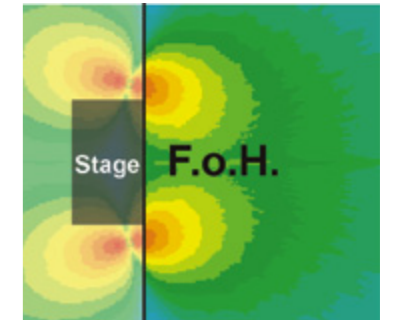
Applications

- Large scale events
- Touring sound reinforcement
- Stadiums, arenas, concert halls, theatres, houses of worship
- Installations in low-load capacity situations

Accessories

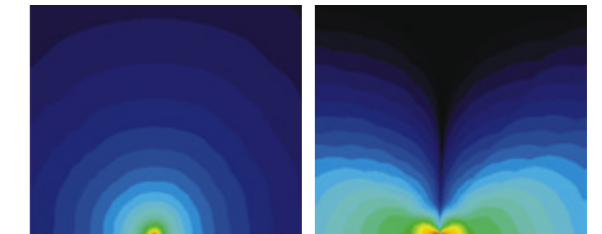
K-CASE3, K-CASE2, K-CASE1, K-15CASE2, K-FEET4, K-FLY4, K-FLY4/15, K-USB, K-XM45, K-XF45 >>> page 118-119

Top View - KS4 stacked clusters



The dipole polar pattern of the KS4 provides innovative capabilities for management of the low frequency focus. When correctly oriented, the bass energy is focused at the audience and directed away from the stage. Compared to traditional omni-directional subwoofers in in-door applications, the KS4 also drastically reduces the energy directed towards the ceiling, greatly improving the direct to reflected sound ratio in the room.

Side View



Traditional Subwoofer

KS4

KS4 Specs

Acoustics	
Speaker power handling	4000 (AES)
Full frequency range	30 Hz - 150 Hz
Impedance	8 x 4Ω
Maximum SPL	132 dB continuous - 138 dB Peak (measured with 6 units, related to 1)
Coverage	
Horizontal	dipole 120°
Vertical	dipole 120°
Crossover	
Type	DSP controlled
Frequency	low pass @ 150 Hz recommended max
Transducers	
Low - Mid frequency	8 x 10" High excursion neodymium speakers with 2" voice coil
Amplifiers	
Type	4 modules class D - DSP controlled
Power	500 watts x 8 channels @ 4 Ω (4000 watt total) ¹
Protections	Dynamic limiter, over current, over temp, short circuits
Physical	
Dimensions	max 117 x 60 x 16.5 cm (46.34" x 23.62" x 6.50")
Weight	46.8 Kg (103.18 lbs)

KS4P Specs

Acoustics	
Speaker power handling	4000 (AES)
Full frequency range	30 Hz - 150 Hz
Impedance	8Ω
Maximum SPL	132 dB continuous - 138 dB Peak (measured with 6 units, related to 1)
Coverage	
Horizontal	dipole 120°
Vertical	dipole 120°
Crossover	
Type	DSP controlled
Frequency	low pass @ 150 Hz recommended max
Transducers	
Low - Mid frequency	8 x 10" High excursion neodymium speakers with 2" voice coil
Physical	
Dimensions	max 117 x 60 x 16.5 cm (46.34" x 23.62" x 6.50")
Weight	42 Kg (92 lbs)

Notes for data
1. 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 catalogue.

KO40-KO40P

High technology 21" subwoofer element

The K-array Ko40 is a self-powered, Sub Bass speaker system.

It is best suited for high-power extended bass response applications in arenas, theatres, concert halls, churches, and outdoor events.

The Ko40P is the passive version of the Ko40. It features 4-pin speakon connections on its back instead of the amplifier bar.

The 21" speaker employ neodymium magnets and 6" voice coils driven by powerful D-class amplifiers. The large ports are designed to be fully symmetrical to the speakers, which means the back loading on the drivers is consistent and even with no port air turbulence. The triangle port construction also provides excellent structural integrity and strength, effectively eliminating any box resonance.

The Ko40 is an effective companion sub to the KH4 and KH15 powered mid-high speaker systems.

When used with the KS4 bass element the combination becomes a very effective, directional bass system with a prodigious output.

An internal DSP module provides control presets. Dedicated software allows for remote control of the speaker from a PC.

All the Ko40 and Ko40P components are designed by the K-array R&D department and custom made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Self powered (only Ko40)
- Integrated DSP and remote control (only Ko40)
- Integrated flying and stacking hardware
- Top quality components for outstanding performance
- For use in combination with other K-array systems

Applications

- Medium and large scale events
- Touring sound reinforcement
- Stadiums, arenas, concert halls, theatres

Accessories

K-OTR1, K-OCOVER1, K-USB, K-XM45, K-XF45 >>>
page 118-119



KO40 Specs

	Acoustics
Speaker power handling	2000 W ^(AES)
Full frequency range	25 Hz – 120 Hz
Impedance	8 Ω
Maximum SPL	136 dB continuous - 140 dB peak
	Coverage
Horizontal	Omni
	Crossover
Type	DSP controlled
Frequency	150 Hz suggested (DSP dependent)
	Transducers
Low - Mid frequency	1 x 21" Neodymium speaker with 6" voice coil
	Amplifiers
Type	Class D - DSP controlled
Power	4000 W @ 8 ohm ¹
Protections	Dynamic limiter, over current, over temp, short circuit
	Physical
Dimensions	60 x 60 x 85 cm (23.6" x 23.6" x 33.46")
Weight	42 Kg (92.59 lbs)

KO40P Specs

	Acoustics
	2000 W ^(AES)
	25 Hz – 120 Hz
	8 Ω
	136 dB continuous - 140 dB peak
	Coverage
	Omni
	Crossover
	DSP controlled
	150 Hz suggested (DSP dependent)
	Transducers
	1 x 21" Neodymium speaker with 6" voice coil
	Physical
	60 x 60 x 85 cm (23.6" x 23.6" x 33.46")
	37 Kg (81.57 lbs)

Notes for data
1. 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 catalogue.

KO70-KO70P

High technology 2x21" subwoofer element

The K-array Ko70 is a self-powered, Sub Bass speaker system.

It is best suited for high-power extended bass response applications in arenas, theatres, concert halls, churches, and outdoor events.

The Ko70P is the passive version of the Ko70. It features 4-pin speakon connections on its back instead of the amplifier bar.

The two 21" speakers employ neodymium magnets and 6" voice coils driven by powerful D-class amplifiers. The large ports are designed to be fully symmetrical to the speakers, which means the back loading on the drivers is consistent and even with no port air turbulence. The triangle port construction also provides excellent structural integrity and strength, effectively eliminating any box resonance.

The Ko70 is an effective companion sub to the KH4 and KH15 powered mid-high speaker systems.

When used with the KS4 bass element the combination becomes a very effective, directional bass system with a prodigious output.

An internal DSP module provides control presets. Dedicated software allows for remote control of the speaker from a PC.

All the Ko70 and Ko70P components are designed by the K-array R&D department and custom made under the K-array quality control system.



Features

- Unique performance-to-size ratio
- Self powered (only Ko70)
- Integrated DSP and remote control (only Ko70)
- Integrated flying and stacking hardware
- Top quality components for outstanding performance
- For use in combination with other K-array systems

Applications

- Medium and large scale events
- Touring sound reinforcement
- Stadiums, arenas, concert halls, theatres

Accessories

K-OTR2, K-OCOVER2, K-USB, K-XM45, K-XF45 >>>
page 118-119



	KO70 Specs	KO70P Specs
	Acoustics	Acoustics
Speaker power handling	2 x 2000 W ^(AES)	2 x 2000 W ^(AES)
Full frequency range	30 Hz – 120 Hz	30 Hz – 120 Hz
Impedance	2 x 8 Ω	
Maximum SPL	136 dB continuous - 140 dB peak	136 dB continuous - 140 dB peak
	Coverage	Coverage
Horizontal	Omni	Omni
	Crossover	Crossover
Type	DSP controlled	DSP controlled
Frequency	150 Hz suggested (DSP dependent)	150 Hz suggested (DSP dependent)
	Transducers	Transducers
Low - Mid frequency	2 x 21" Neodymium speakers with 6" voice coil	2 x 21" Neodymium speakers with 6" voice coil
	Amplifiers	
Type	Class D - DSP controlled	
Power	2x 3500 W @ 8 W ¹	
Protections	Dynamic limiter, over current, over temp, short circuits	
	Physical	Physical
Dimensions	115 x 60 x 85 cm (45.28" x 23.62" x 33.46")	115 x 60 x 85 cm (45.28" x 23.62" x 33.46")
Weight	78 Kg (171.96 lbs)	72 Kg (158.73 lbs)

Notes for data

1. 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 catalogue.



K-CASE3

Flight-Case for K modules
(3pcs of KH4-KS4 or 2pcs KS4 +
4pcs KH15)



K-CASE2

Flight-Case for K modules
(2pcs of KH4-KS4 or 1pc KS4 +
4pcs KH15)



K-CASE1

Flight-Case for K modules
(1pc of KH4-KS4 or 4pcs KH15)



K-15CASE2

Trolley injected ABS case for 2 pcs
of KH15



K-FEET4

Feet Kit for KS4 / KH4



K-FLY4

Flying bar for KH4-KS4



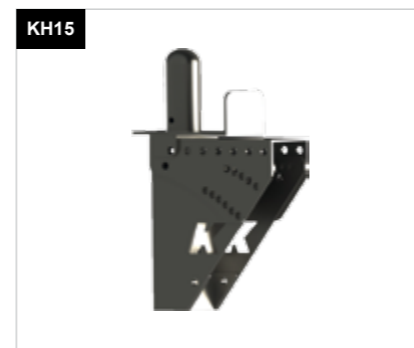
K-FLY15

Flying bar for KH15



K-FLY4/15

Flying bar to fit KH15 unit under
KH4 / KS4 Cluster



K-TILT15

Stand Tilter adapter for KH15



K-OCOVER1

Soft cover for KO40



K-OTR1

Trolley for KO40



K-OTR2

Trolley for KO70



K-OCOVER2

Soft cover for KO70



K-USB

USB-RS485 Interface for K-array
Systems including 1 K-XM45 and 1
K-XF45



K-XF45

XLR Female to RJ45 adapter



K-XM45

XLR Male to RJ45 adapter



**K-4BUMP⁽¹⁾ + K-HS4FRAME⁽²⁾ +
K-4DOLLEY⁽³⁾**

Foldable array accessories.



K-TILT4PRO

Extra sturdy tilter for KH4 and KS4
arrays

Event type	Speech	Acoustic	Band	DJ
				
Audience size				
100	2 x KH15	2 x KH15 2 x KL18ma	2 x KH15 2 x Ko40	2 x KH15 2 x Ko40
300	2 x KH15	2 x KH15 2 x KL18ma	2 x KH15 2 x Ko40	2 x KH15 2 x Ko40
500	4 x KH15 2 x KL18ma	1 4 x KH15 2 x KO40	4 x KH15 2 x Ko40	4 x KH15 4 x Ko40
700	6 x KH15 4 x KL18ma	4 x KH15 2 x Ko40	6 x KH15 4 x Ko40	6 x KH15 6 x Ko40
1.000	2 x KH4 2 x KS4	2 2 x KH4 4 x KS4	3 2 x KH4 2 x KO70	2 x KH4 2 x Ko70
2.000	4 x KH4 4 x KS4	4 x KH4 8 x KS4	4 x KH4 2 x KO70	4 x KH4 4 x Ko70
4.000	6 x KH4 6 x KS4	6 x KH4 12 x KS4	6 x KH4 8 x KS4 2 x Ko70	6 x KH4 6 x Ko70
10.000	8 x KH4 8 x KS4	8 x KH4 12 x KS4	4 10 x KH4 10 x KS4 6 x KO70	10 x KH4 10 x Ko70

1 4 x KH15
2 x KO40



2 2 x KH4
4 x KS4



3 2 x KH4
2 x KO70



4 10 x KH4
10 x KS4
6 x KO70



concert set-up and configuration

