KAN200 - KAN200+

USER GUIDE
English

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SYMBOLS

K-array declares that this device is in compliance with applicable CE standards and regulations. Before putting the device into operation, please observe the respective country-specific regulations!

WEEE
Please dispose of this product at the end of its operational lifetime by bringing it to your local collection point or recycling center for such equipment.

This symbol alerts the user to the presence of recommendations about the product's use and maintenance.

Warning! Dangerous voltages: RISK of electric shock.
Terminals marked with this symbol are HAZARDOUS LIVE and the external wiring connected to these terminals requires installation by a qualified professional or the use of ready-made leads or cords.

This symbol alerts the user to the presence of recommendations about product's use and maintenance.

This device complies with Restriction of Hazardous Substances Directive.

1. INTRODUCTION

The K-array Anakonda KAN200 is a truly revolutionary speaker module born to meet the needs of places where few had dared to go up to now. It is designed to be a problem solver in situations where a traditional speaker box can't be used but where good intelligibility, ultra-reliability and a sleek design are required.

The KAN200 is the perfect fit for any distributed sound application. Its dedicated presets allow KAN200s to serve as a flexible PA system - either standalone or combined with K-array subwoofers. Its lightness and flexibility help it to be easily integrated in existing structures.

Each KAN200 module is 2m (6.6 ft) long. Up to 32 modules can be interconnected to create a continuous sound line, 64m (210 ft) in length. Integrated male and female speakon NL4 connectors hide all connections inside the "body" of the speaker, which creates an elegant, seamless line.

The new KAN200+ is even more powerful, featuring double the number of transducers. Up to 16 modules can be interconnected to create a continuous sound line, 32m (105 ft) in length.

The KAN200+8 is also available in a low impedance 8-ohm version, allowing for greater power over long distances, which is ideal for installations that do not require a large number of distributed speakers.

Each KAN200/KAN200+ includes 2 fabric socks, one black and one white, which can be used to cover and protect the speaker from foreign objects such as dust , and to change the system's color to suit the application. Wall brackets are included in the package to make the installation as easy and as fast as possible.

2. KEY FEATURES

- Flexible 2mt chassis
- Integrated NL4 connectors
- High impedance for long lines
- IP55 for outdoor installations

3. APPLICATIONS

- Front fill
- Outdoor installations
- Theme parks
- Indoor and outdoor Scenography design

All the components of the Anakonda KAN200/KAN200+ are designed by the K-array R&D department and made in Italy under the K-array quality control system.

4. PACKAGE CONTENTS

5. SAFETY INFORMATION

Read these instructions - Keep these instructions - Heed all warnings

Warning. Failure to follow these safety instructions could result in injury or damage to the device or other property.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep this instructions.
- Heed all warnings.
- Follow all instructions and keep all warnings.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.

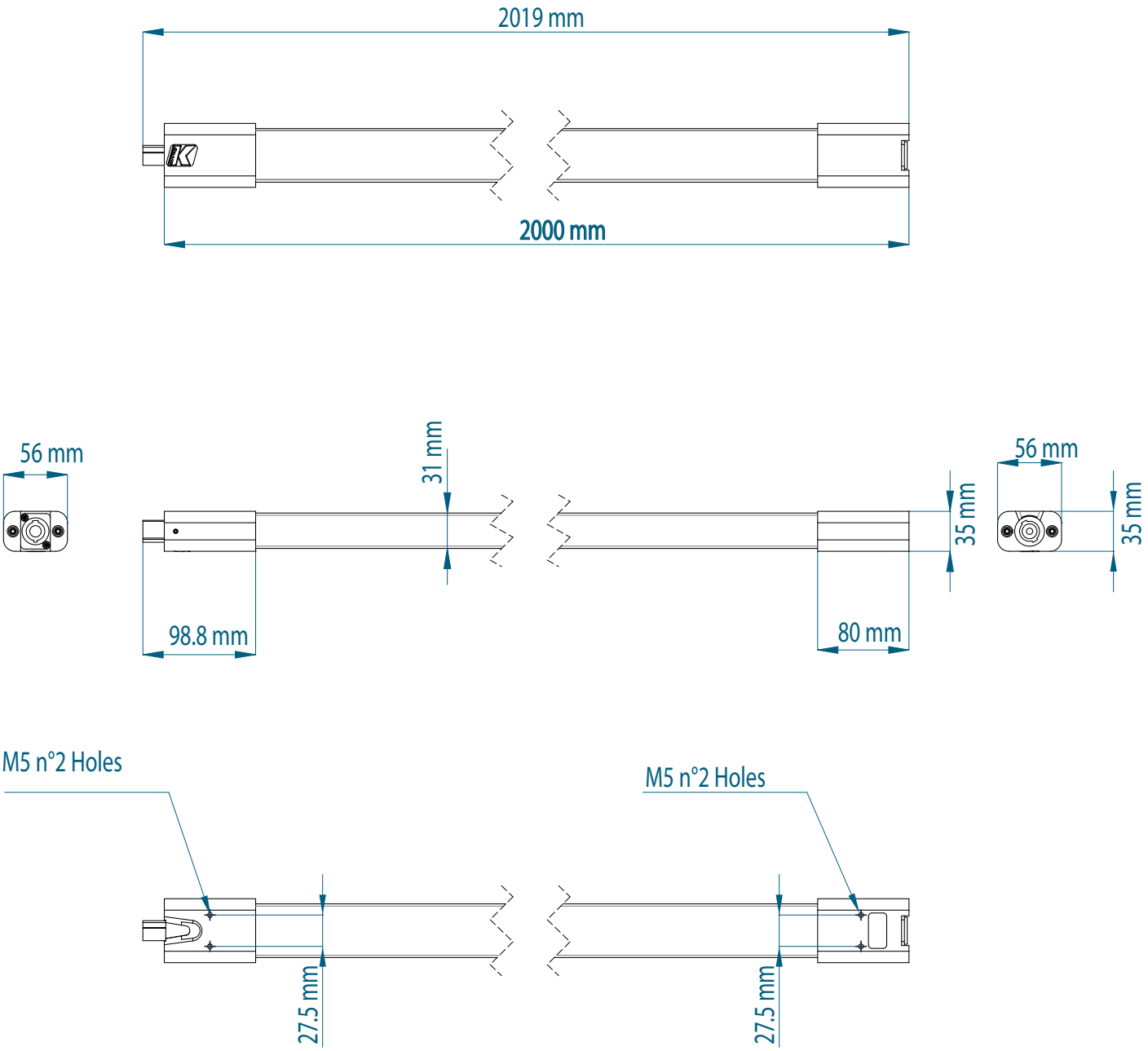
- When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- Avoiding hearing damage. Professional loudspeakers are capable of producing extremely high sound levels and should be used carefully. Never stand close to loudspeakers driven at high volume. Set the volume to a safe level. You can adapt over time to a higher volume of sound that may sound normal but can be damaging to your hearing. Hearing loss get worse every time you're exposed to a sound level of 90 dB or over for an extended period of time. If you experience ringing in your ears or muffled speech, stop listening and have your hearing checked. The louder the volume, the less time is required before your hearing could be affected.
- Choking Hazards. This device contains small parts, which may present a choking hazard to small children. Keep the device and its accessories away from small children.
- Do not make repairs yourself. Never attempt to disassemble, repair or modify the system yourself. Disassembling the unit may cause damage that is not covered under the warranty. The device contains no user-serviceable parts. Repairs should only be performed by factory trained service personnel.
- Sound distortion. Do not operate speakers for an extended period of time with sound distortion. This is an indication of malfunction, which in turn can generate heat and result in a fire.
- Carrying, handling and installing the device. The device contains sensitive components. Do not drop, disassemble, open, crush, bend, deform, puncture, shred, incinerate, paint, or insert foreign objects into it. If your device has been dropped or damaged unplug the power cable immediately.
- Set up. Set up your device on a stable retaining horizontal surface. If combined or mechanically connected with other products, always verify the stability of the resulted system. Install the unit only in a location that can structurally support the weight of the unit, far away from people who can interfere with the stability of the system. Assure that the wind does not interfere with the system's stability, taking extra securities like chains, weights, ropes or any other certified anchoring systems. Doing otherwise may result in the unit falling down, causing personal injury or property damage or even death. The system should only be suspended by qualified personnel following safe rigging practices. Secure fixings to the building structure are vital. To clarify any doubt you may have, seek help from architects, structural engineers or other specialists.

6. UNPACKING

Each K-array speaker is built to the highest standard and thoroughly inspected before leaving the factory. Upon arrival, carefully inspect the shipping carton, then examine and test your new amplifier. If you find any damage, immediately notify the shipping company. Only the consignee may institute a claim procedure regarding the system's electronic equipment.

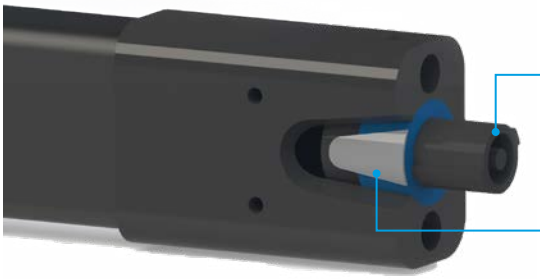
7. PHYSICAL



Weight
KAN200: 1.4 kg (3.1 lbs)
KAN200+: 1.9 kg (4.2 lbs)

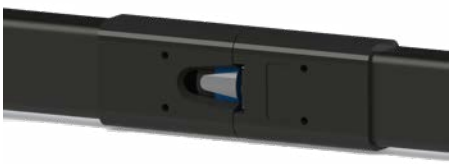
8. CONNECTORS AND SET UP

Parallel Input. NL4 Four-pins female Speakon connector



Parallel Output/Link. NL4 Four-pins male Speakon connector

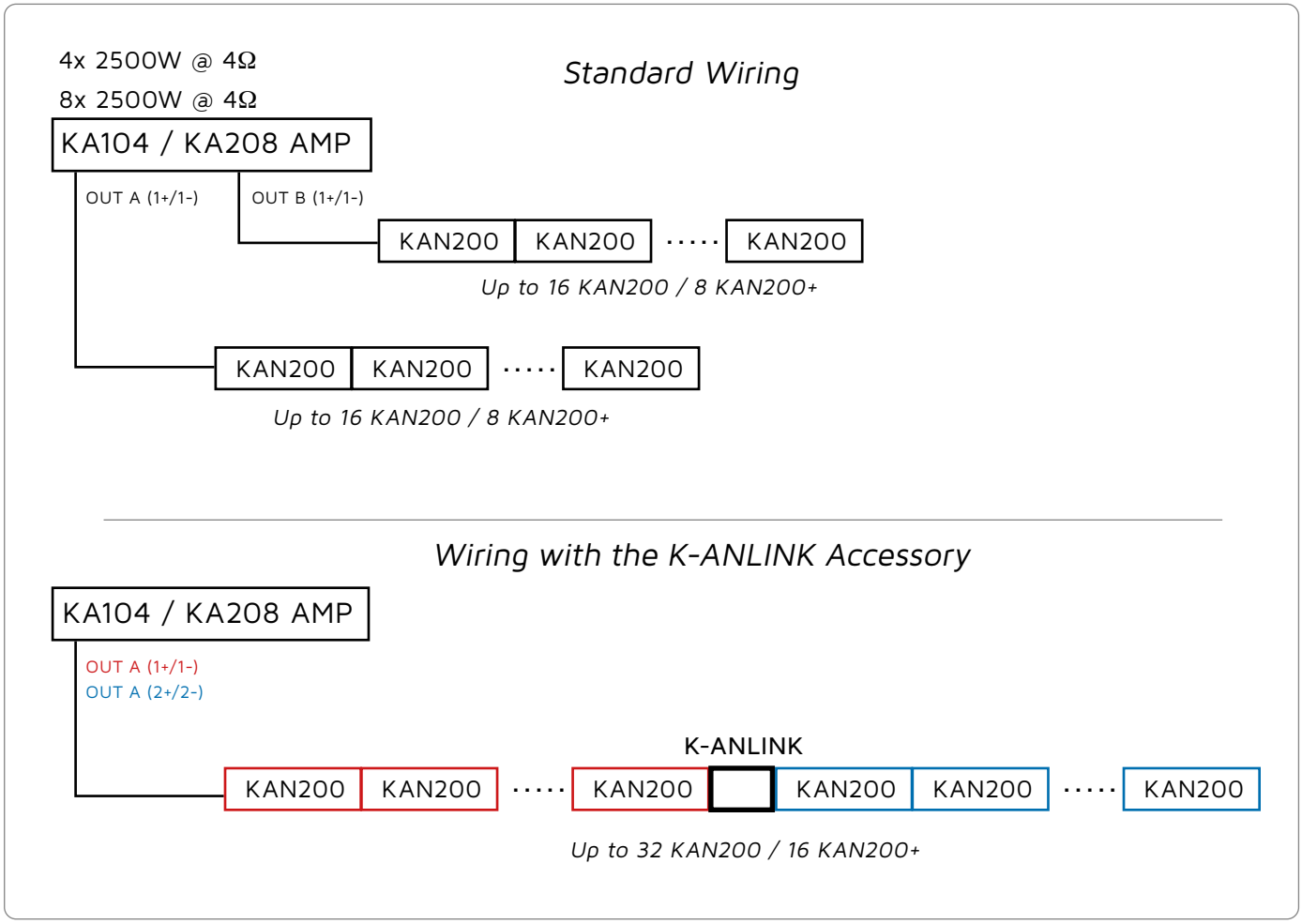
Connector Secure Lock. Pull it back and turn the connector to unplug it.



9. WIRING

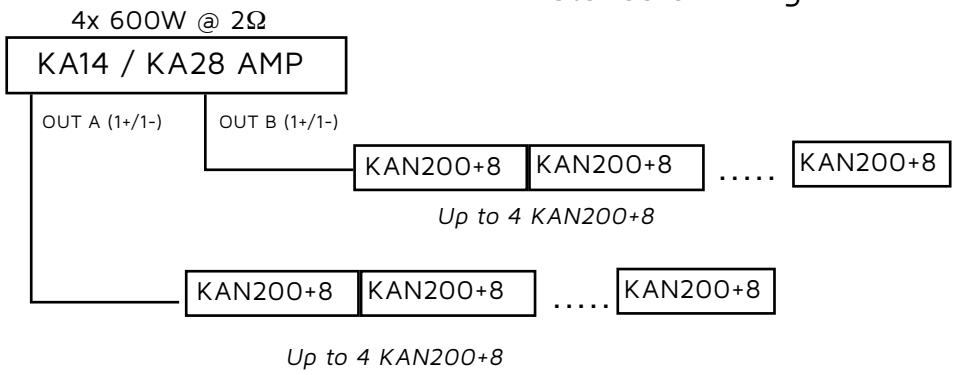
Audio power signal on pins 1+/1- of the NL4 Speakon connectors is fed into the speaker, while the signal on pins 2+/2- passes through from one socket to the other. Thus, the signal can pass through multiple modules without additional external cabling. You can connect a series of up to 16 KAN200 (32 m) or up to 8 KAN200+ (16m) to a single channel of a 4Ω amplifier.

Signal on pins 2+/2- can then be easily fed into another series of KAN200/KAN200+ modules with the insertion of a K-ANLINK accessory that twists the pins 1+/1- and 2+/2-. This way you can create a continuos line of up to 32 KAN200 (64m) or up to 16 KAN200+ (32m)

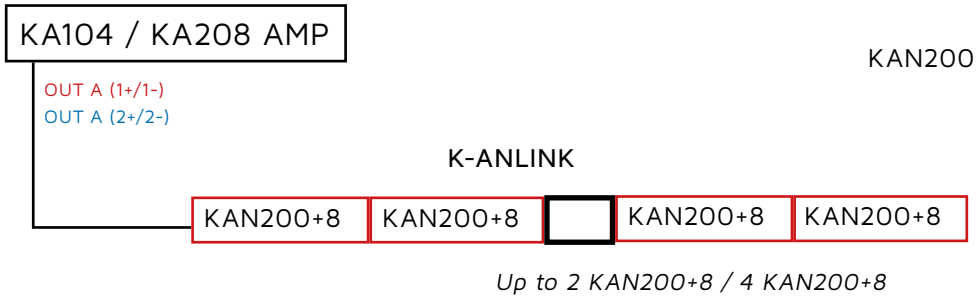


Amplifier	*Max KAN200 per channel*	*Max KAN200+ per channel*
KA104 / KA208	16 units (32 meters)	8 units (16 meters)
KS1 / KS2	8 units (16 meters)	4 units (8 meters)
KS3 / KS4	8 units (16 meters)	4 units (8 meters)

Standard Wiring



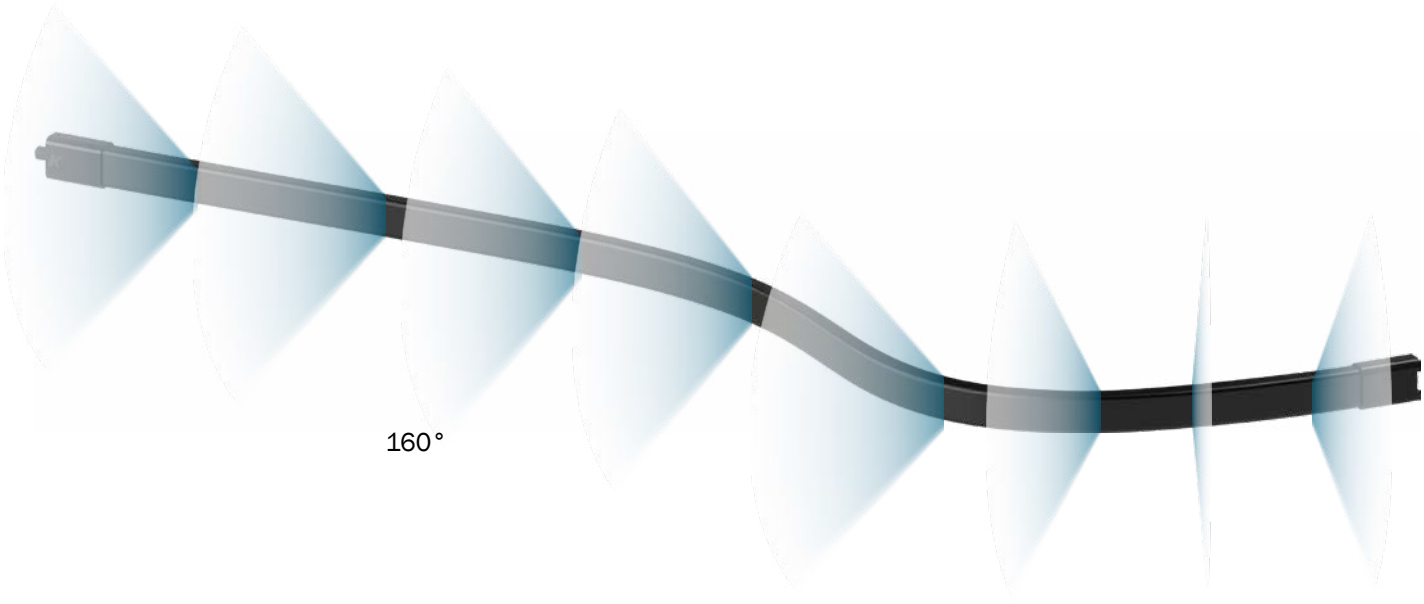
Wiring with the K-ANLINK Accessory

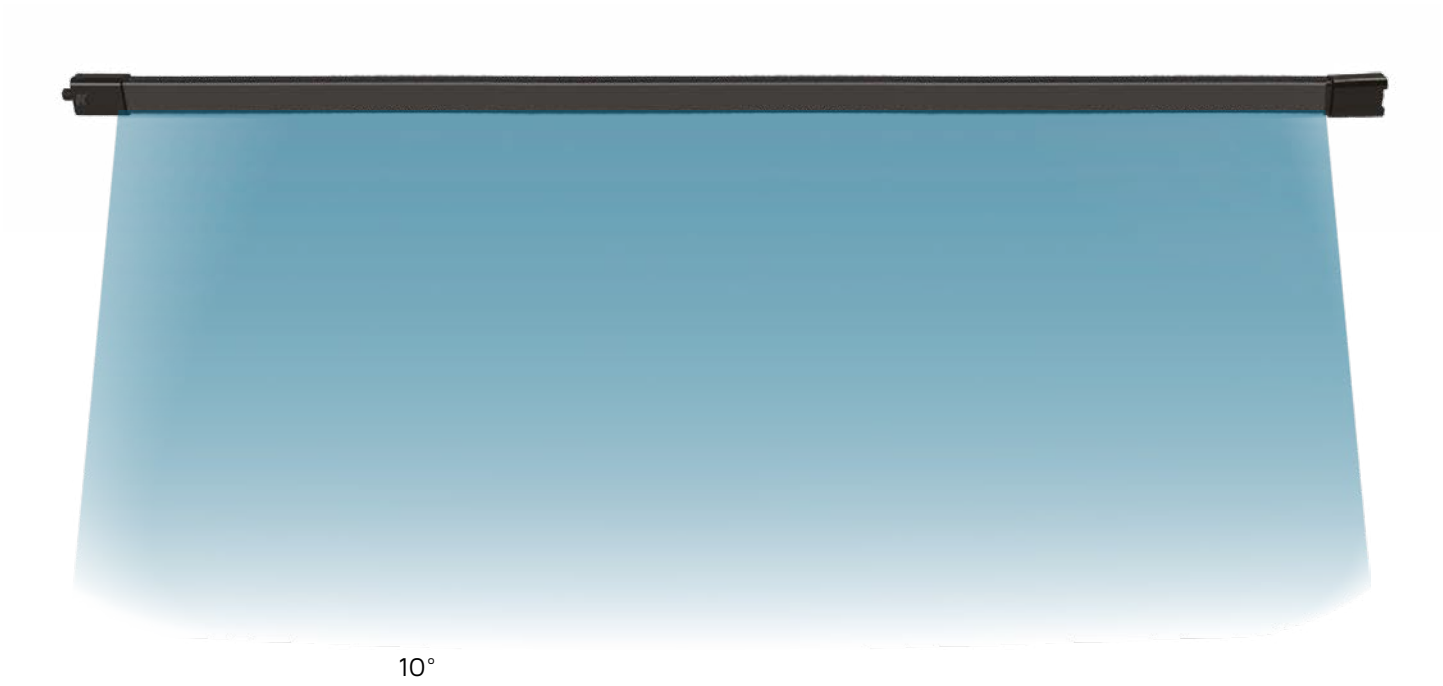


Amplifier	*Max KAN200 per channel*	*Max KAN200+ per channel*
KA104 / KA208	16 units (32 meters)	8 units (16 meters)
KS1 / KS2	8 units (16 meters)	4 units (8 meters)
KS3 / KS4	8 units (16 meters)	4 units (8 meters)

Amplifier	*Max KAN200+8 per channel*
KA14 / KA28	4 units
KA34 / KA68	2 units
KA104 / KA208	2 units

10. COVERAGE

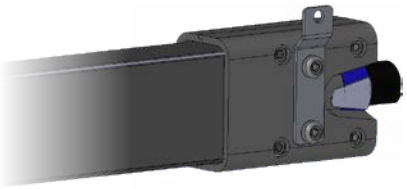




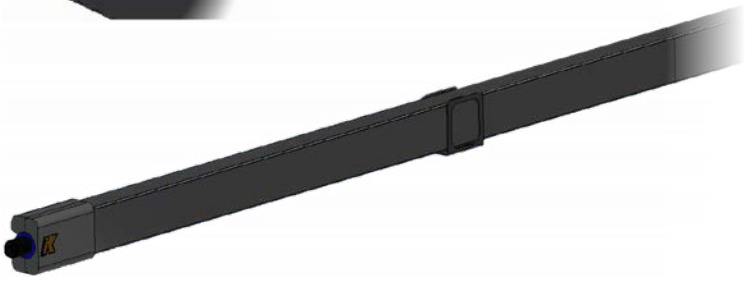
11. ACCESSORIES

Socks

Wall bracket



Multi purpose bracket



K-ANLINK (not included)

When the K-ANLINK is used to connect a KAN200 /KAN200+ to another KAN200/KAN200+ it integrates perfectly to make a uniform-looking series of speakers. See pag. 8 for wiring details.

12. SERVICE

To obtain service:

1) Contact the official K-array distributor in your country. Your local distributor will direct you to the appropriate service center.
2) If you are calling for service, please have the serial number(s) of the unit(s) available for reference. Ask for Customer Service, and be prepared to describe the problem clearly and completely.
3) If the problem cannot be resolved over the phone, you may be required to send the unit in for service. In this instance, you will be provided with an RA (Return Authorization) number which should be included on all shipping documents and correspondence regarding the repair. Shipping charges are the responsibility of the purchaser.

Any attempt to modify or replace components of the device will invalidate your warranty. Service must be performed by an authorized K-array service center.

Cleaning:
Use only a soft, dry cloth to clean the housing. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not use any sprays near the product or allow liquids to spill into any openings.

13. TECHNICAL SPECIFICATIONS

KAN200

	ACOUSTICS
Power handling	150 W (AES)
Max Power	300 W (1)
Impedance	64 Ω
Frequency range	150 Hz – 18 kHz +/-6dB (2)
SPL 1W/1mt	86 dB (3)
Maximum SPL	96 dB (cont.) – 102 dB (peak) (4)
	COVERAGE
Horizontal	160°
Vertical	10°
	CROSSOVER
Type	External crossover required
Frequency	50 Hz 24dB/oct suggested minimum
	TRANSDUCERS
Type	8 x 1” Neodymium cone driver with 0.75” voice coil
	POWER AUDIO IN/OUT
Connectors	2 x 4-pin Speakon (1 female, 1 male)
Wiring	1+ 1- (signal IN & LINK) 2+ 2- (Through)
	RECOMMENDED AMPLIFIERS
Type	KMT12, KMT18, KA84
	CERTIFICATION
IP	64(5)
	PHYSICAL
Dimensions	201.9 x 5.6 x 3.5 cm (79.5” x 2.2” x 1.4”)
Weight	1.4 kg (3.1 lbs)

KAN200+

	ACOUSTICS
Power handling	300 W (AES)
Max Power	600 W (1)
Impedance	32 Ω
Frequency range	150 Hz – 18 kHz +/-6dB (2)
SPL 1W/1mt	86 dB (3)
Maximum SPL	102 dB (cont.) – 108 dB (peak) (4)
	COVERAGE
Horizontal	160°
Vertical	10°
	CROSSOVER
Type	External crossover required
Frequency	50 Hz 24dB/oct suggested minimum
	TRANSDUCERS
Type	16 x 1” Neodymium cone driver with 0.75” voice coil
	POWER AUDIO IN/OUT
Connectors	2 x 4-pin Speakon (1 female, 1 male)
Wiring	1+ 1- (signal IN & LINK) 2+ 2- (Through)
	RECOMMENDED AMPLIFIERS
Type	KMT12, KMT18, KA84
	CERTIFICATION
IP	64(5)
	PHYSICAL
Dimensions	201.9 x 5.6 x 3.5 cm (79.5” x 2.2” x 1.4”)
Weight	1.9 kg (4.2 lbs)

Notes for data

1. Maximum RMS applicable power for a musical signal. The reference signal is the one proposed by EIAJ standard;
2. With dedicated preset;
3. Mesured @8 m, then scaled @1 m;
4. Mesured with musical signal
5. More complete water protection with K-IP65KITB accessory (IP65 compliant);

New materials and design are introduced into existing products without previous notice.

14. DECLARATION OF CONFORMITY

Manufacturer/Importer: **K-array** s.u.r.l.

Brand: **K-ARRAY**
Address: via Paolina Romagnoli 17 50037 S. Piero a Sieve Firenze ITALY

Date of Issue: 14 / 05 / 2013

Model Code: **KAN200**

2004/108/EC on the approximation of the Laws of the Member States relating to electromagnetic compatibility.

This declaration applies to all specimens manufactured in accordance with the attached manufacturing drawings which form part of this declaration. Assessment of compliance of the product with the requirements relating to electromagnetic compatibility and low voltage directive was based on the following standards:

EMC:
EN55103-1 2009
EN55103-2 2009

Marking: CE

Applying Year: **2013**

Applied by: **K-array** s.u.r.l.
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Signed by: **Franco Spataro**
Technical Manager