



USER'S MANUAL






K-array is the new voice that sings aloud, "outside the choir", and whose performance is better than any other products. Born on-the-road, in the PA world, where you get no discount, you have to give your best as fast as you can, often with a "compressed" budget, K-Array systems have been designed to give precise answers to precise needs.

Driven by new generation digital engines, with power/dimension/weight ratios that are ten times better than any other professional products, K-arrays can deliver the full spectrum of musical styles with clarity, power, punch, intelligibility and evenness across both volume levels and the frequency spectrum. These systems can be remotely controlled and come with a sophisticated on-board software, allowing the user to shape their performance to taste and needs. Inside K-array systems you will find something that only we can offer: the best in technology, proudly conceived, designed and produced in Italy. If they were cars, they would be Ferrari. Don't agree to pay for a simple brand, claim performance, and don't believe those who maintain that these products are only for few people, the only truth is that K-array systems are unique, but affordable and within everybody's reach!

HP Sound Equipment s.r.l.



SYMBOLS

  <p>This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual!</p>	 <p>Dangerous voltages: risk of electric shock.</p>
 <p>For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at www.scanning.datalogic.com</p>	 <p>This symbol alerts the user to the presence of recommendations about product's use and maintenance.</p>

1. SAFETY INSTRUCTIONS



CAUTION



- To reduce the risk of electric shock, disconnect the amplifier from the AC mains before installing audio cable. Reconnect the power cord only after making all signal connections.
- Connect the amplifier to a two-pole, three wire grounding mains receptacle. The receptacle must be connected to a fuse or circuit breaker. Connection to any other type of receptacle poses a shock hazard and may violate local electrical codes.
- Do not install the amplifier in wet or humid locations without using weather protection.
- Do not allow water or any foreign object to get inside the amplifier. Do not put objects containing liquid on, or near, the unit.
- To reduce the risk of overheating the amplifier, avoid exposing it to direct sunlight. Do not install the unit near heat emitting appliances, such as a room heater or stove.
- No naked flame sources such like lighted candles should be placed on the device.
- The amplifier should be placed so that its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, carpet, or similar surface that may create an obstacle for the ventilation openings.

2. INTRODUCTION

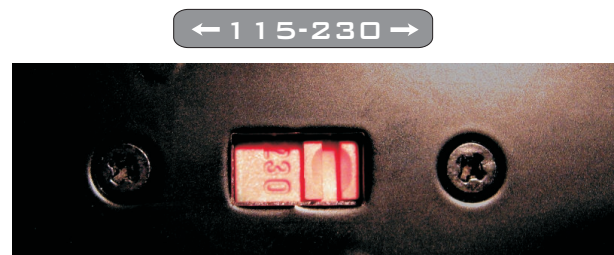
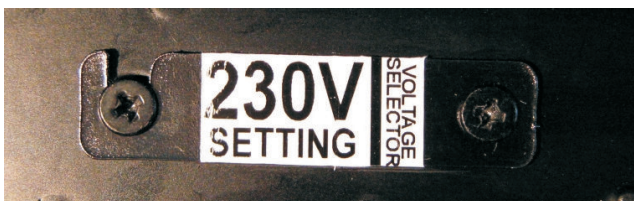
The KR100S is a high performance ultra-slim powered two way system designed for use with small to medium wavefront systems, in both mobile and install applications. The KR100S includes two KL12ma powered subwoofers and 2 KR100 1mt line array satellites.

The KL12ma features a 1000 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 35mm pole mounting point for easy installation with every satellite speaker on it. It features large area porting to reduce air noise. The KR100S ultra-slim satellite features a line array of 2" high efficiency drive units with neodymium magnet structure and suspensions engineered for maximum linear excursion and minimum noise problems. The ultra-strong chassis ensures high resistance and durability also with hardest work conditions. All the KR100S components are designed by K-array R&D department and custom made under K-array control quality system.

3. VOLTAGE REQUIREMENTS

KA 10 operates safely and without audio discontinuity if the AC voltage stays within either of two operating windows: 95-125 (voltage selector on 115 V) or 195-250 V (voltage selector on 230 V), at 50 or 60 Hz.



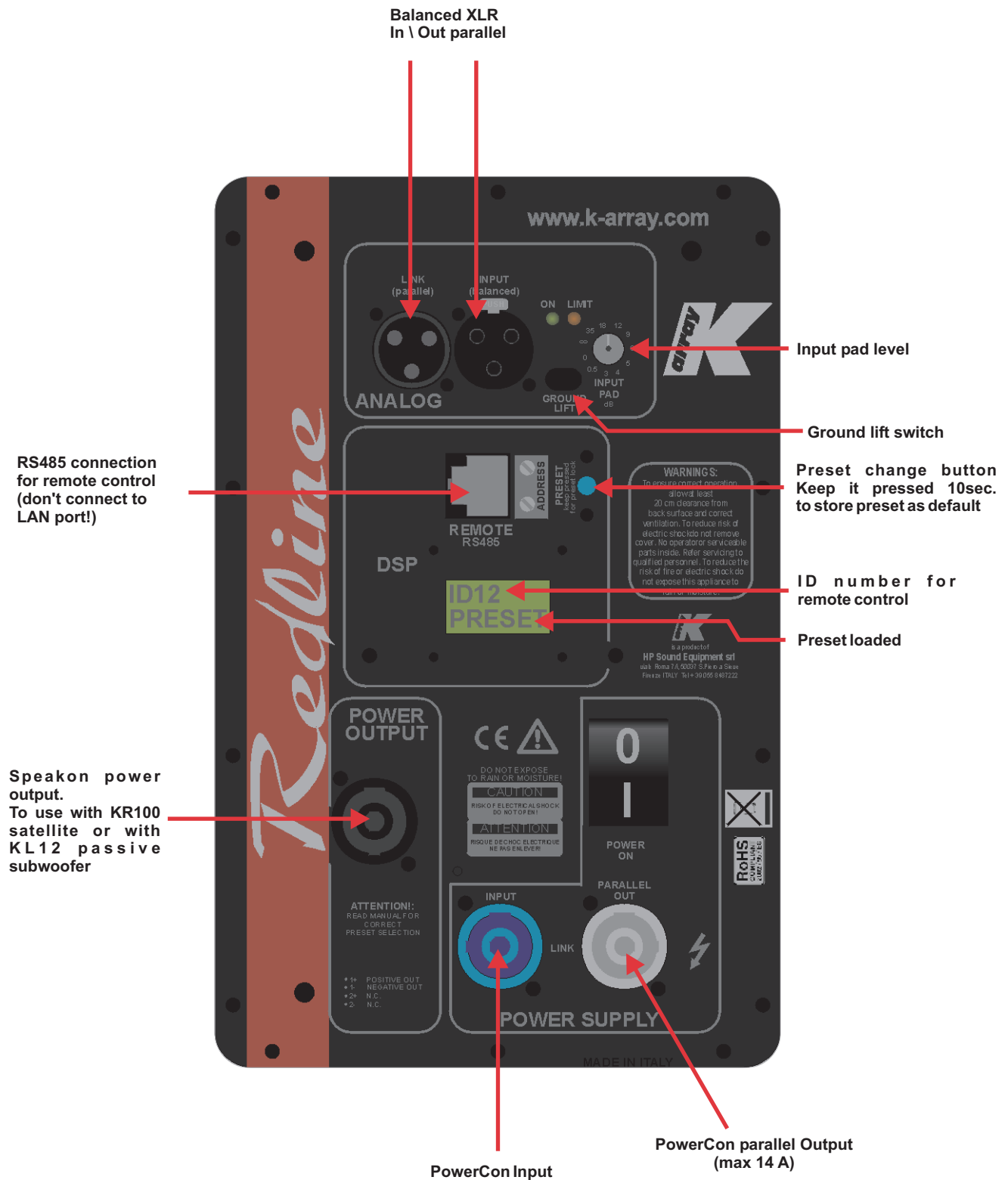
The device is default set to be connected to 230 V AC Power. To use the device on a 115 V AC Power you need, before connecting it, to move the voltage selector's cover, just loosening the two screws, and to choose the correct use voltage by the red switch. Be sure that both voltage set on the selector and AC Power have the same value. Always close the voltage selector's cover before connecting the device to AC Power. Change the label that points out the correct voltage in use.



CAUTION

Connecting a 115V system on a 230V AC Power causes heavy damages to the device and serious risk for users.

4. AMPLIFIER PANEL



5. TECHNICAL DATA

Acoustics	
Power handling	500(sub) + 250(sat) w ¹
Max power	1000(sub) + 600(sat) w ²
Impedance	4Ω(sub) + 8Ω(sat)
Operating frequency range	40Hz - 19 KHz +/- 3dB (preset relating) ³
Frequency range	35Hz - 19 KHz +/- 3dB (preset relating) ⁴
SPL 1W/1mt	98.5 dB(sub) 98 dB(sat) ⁵
Maximum SPL	124dB continuous - 130 dB peak ⁶
Cross over	
Type	DSP controlled preset relating
Frequency	150 Hz minimum (preset relating) ⁷
Transducers	
Low frequency	1 x 12" Neodymium speakers with 3" voice coil
High frequency	16 x 2" Neodymium speakers with 0,75" voice coil
Audio Input	
Connectors	male + female parallel 3 poles balanced XLR
Wiring	Pin1 = ground / Pin2 = hot / Pin3 = cold
Audio powered Output	
Connector	Female Speakon (16A max)
Wiring	Pin1+ = CH1+ / Pin1- = CH1- / Pin2+ = N.C. / Pin2- = N.C.
Remote control Input	
Connectors	1 x female 8 poles RJ45
Power Input	
Connectors	2 x PowerCon IN/OUT (Max Out 14A)
Amplifiers	
Type	1 modules class D - DSP controlled
Subwoofer power	750 Watt ⁸
Satellite power output	750 Watt ⁸
Protections	Dynamic limiter, over current, over temp, short circuits
AC power	
Operating range	Standard 210 - 240 Vac 50Hz (standard) Optional 100 - 120 Vac 60Hz (optional)
Max continuous and burst current	Standard 6A(>10 sec) - 12A (<1 sec) Optional 10A(>10 sec) - 20A (<1sec)
Physical	
Measures	33.5 x 33.5 x 43.5 cm (KL12ma) 5.5 x 7 x 100 cm (KR100)
Weight	13 Kg (KL18ma) 4.5 Kg (KR200)

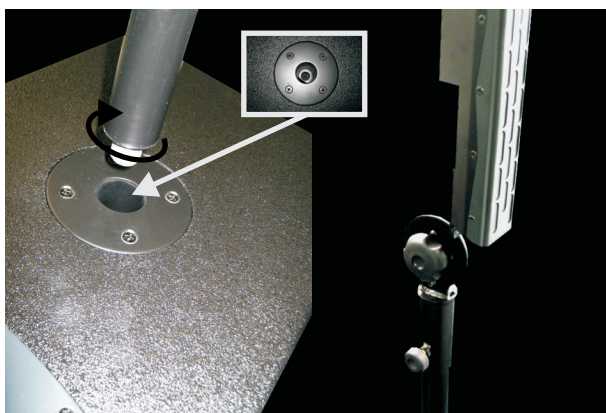
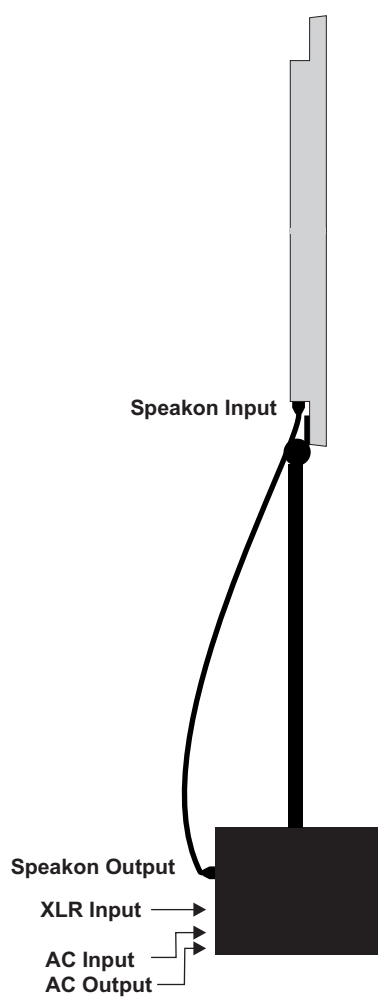
Notes for data

1. Power handling is measured following AES standard conditions: transducers driven continuously for two hours with a band-limited noise signal having 6 dB of crest factor.
2. Max power is the maximum RMS applicable power for a musical signal, the referement signal is the one proposed by EIAJ standard.
3. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
4. Free field measured with 1/3 octave frequency resolution at 2 mt.
5. Measured@4 mt then scaled@1 mt.
6. Measured with audio source @1 mt.
7. This is the frequency in which the transducers produce the same sound pressure level (measured@2 mt).
8. 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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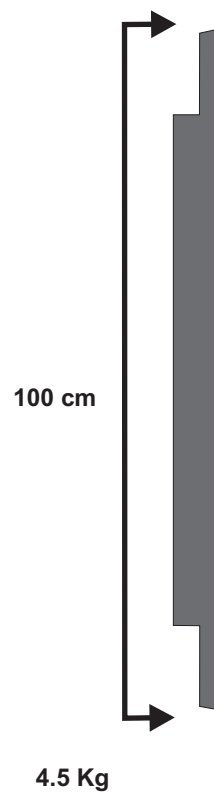
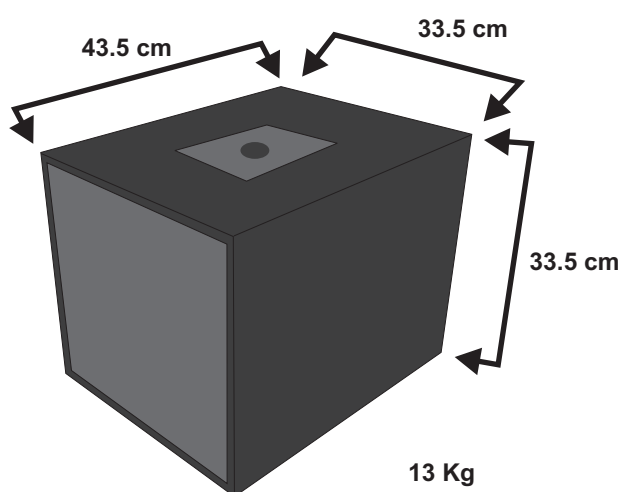
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6. PHYSICAL



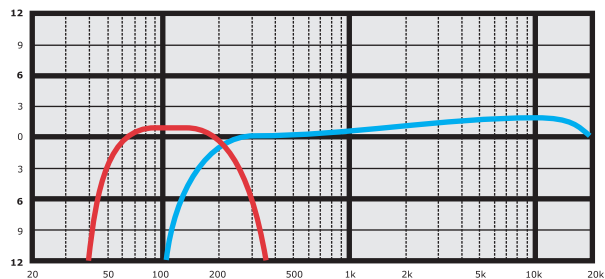
KR100

KL12ma

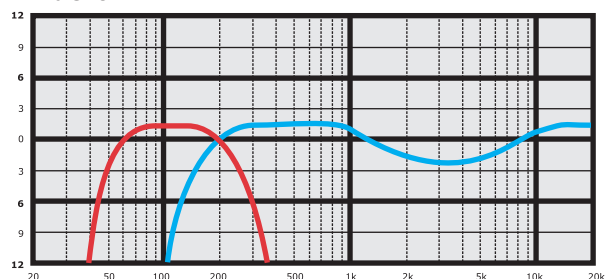


7. PRESETS

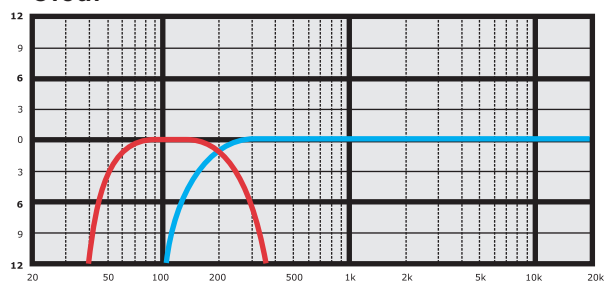
MCSB



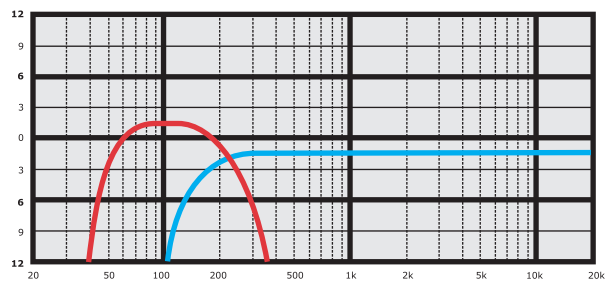
Music



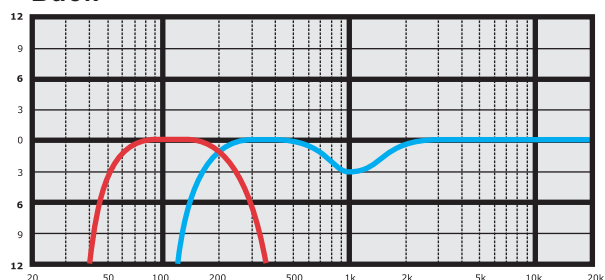
Clear



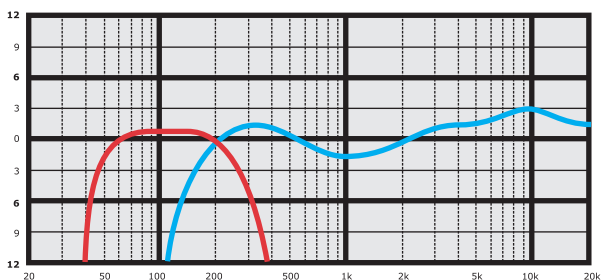
Dark



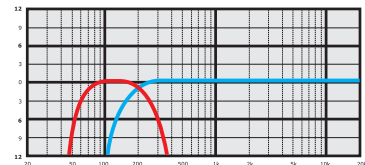
Back



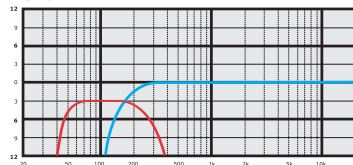
Live



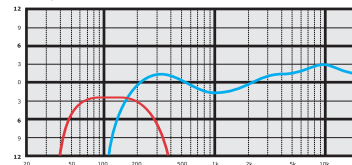
HP60



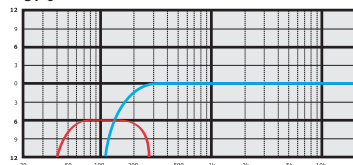
CI-3



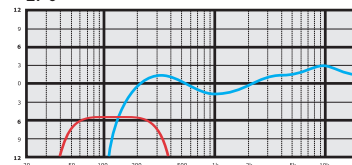
LI-3



CI-6



LI-6



- Per caricare nuovi preset sul KL12ma è necessario utilizzare l'adattatore USB-RS485 K-array K-usb.

- Per avere news riguardanti aggiornamenti di preset e



Redline

The contents of this manual are furnished for informational purpose only. Hp Sound Equipment s.r.l. assumes no responsibility for any errors or inaccuracies that may appear in this manual.

Hp Sound Equipment s.r.l. reserves the right to make modifications without prior notice.



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