

KR100S

High tech ultra-light powered system

Features:

- Unique performance-to-size ratio
- High power 124dB continuous, 130 dB peak
- Fitted with integral handles
- Line array emission wavefront
- DSP on-board with 16 dedicated presets
- Ultra fast set-up and dismantling system

Applications:

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



Redline

array
K

DATASHEET



The K-array Redline Series KR100s is a compact and efficient portable powered PA/stage monitor system ideal for Concert Halls, Theatre, Houses of Worship and AV presentations. It is comprised of the KL12ma self-powered subwoofer with an additional DSP controlled powered output and 35mm pole adaptor designed for a KR100 ultra-slim line array satellite speaker, which contains 16 x 2" neodymium transducers in a strong 5.5 cm x 7 cm, 4.5 Kg stainless steel chassis.

Due to the slim profile and minimum distance between drivers it reproduces the full vocal frequency range with clear intelligibility and excellent phase coherent 120° x 8° coverage. The 12" long-excursion speaker of the KL12ma

sub section employs a neodymium magnet and 3" voice coil. The large ports are designed to be fully symmetrical to the speaker, which means the back loading on the driver is consistent and even, with no port air turbulence. The cabinet weighs a mere 13 Kg.

The triangle port construction provides excellent structural integrity and strength, effectively eliminating any box resonance. The overall system response is from 40 Hz to 19KHz with 124dB continuous and 130 dB peak output.

An internal DSP module provides control presets. The output can optionally be used to power the KL12 passive subwoofer. Dedicated software allows for remote control of the system from a PC.

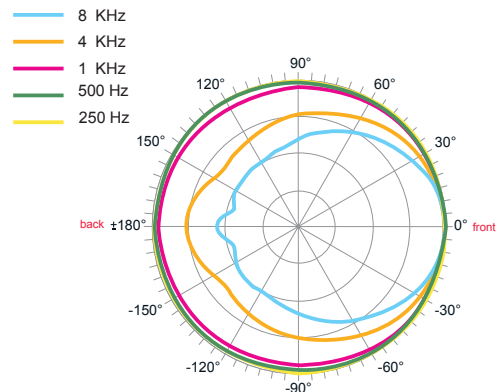
www.k-array.com

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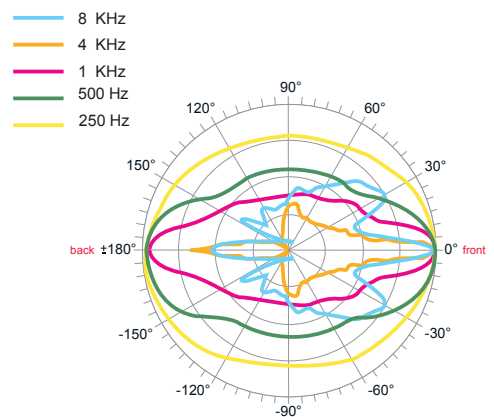
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KR100S (specifications for one side system)	
Acoustics	
Speaker power handling	500(sub) + 250(sat) W ^(AES)
Max power	1000(sub) + 600(sat) W ¹
Impedance	4Ω(sub) + 8Ω(sat)
Frequency range	40Hz - 19 KHz +/- 3dB (preset relating)
SPL 1W / 1mt	98.5 dB (sub) 98 dB (sat) ²
Maximum SPL	124dB continuous - 130 dB peak
Coverage	
Horizontal	100°
Vertical	7°
Crossover	
Type	DSP controlled
Frequency	150 Hz
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-pin balanced XLR
Wiring	Pin1 = ground - Pin2 = hot - Pin3 = cold
Power Audio Output	
Connector	4-pin Female Speakon
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
Amplifiers	
Type	1 modules class D - DSP controlled
Subwoofer power	750 Watt ³ @4Ω
Satellite power output	750 Watt ³ @4Ω
Protection	Dynamic limiter, over current, over temp, short circuits
AC power	
Operating range	210 - 240 Vac 50Hz (Default) 100 - 120 Vac 60Hz (Selectable)
I. nom	3.6 A / 115 Vac - 2.2 A / 230 Vac
Minimum operation voltage	95 Vac - 195 Vac
Maximum operation voltage	125 Vac - 205 Vac
Max continuous and burst current	Default 6A(>10 sec) - 12A (<1 sec) Selectable 10A(>10 sec) - 20A (<1sec)
Physical	
Dimensions	KL12ma: 32.5 x 33.5 x 43.5 cm (12.91" x 13.19" x 17.13") KR100: 5.7 x 120.5 x 7.4 cm (2.17" x 47.44" x 2.91")
Weight	KL12ma: 15 Kg (33.07 lbs) KR100: 4.4 Kg (9.7 lbs)

DISPERSION GRAPHS



horizontal



vertical

Notes for data

1. Maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard.
2. Measured @4 mt then scaled @1 mt
3. 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 brochure.