# KR100S

*High tech ultra-light powered system*

Redline

DATASHEET

## Features:

- Unique performance-to-size ratio
- High power 124dB continuos, 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


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.


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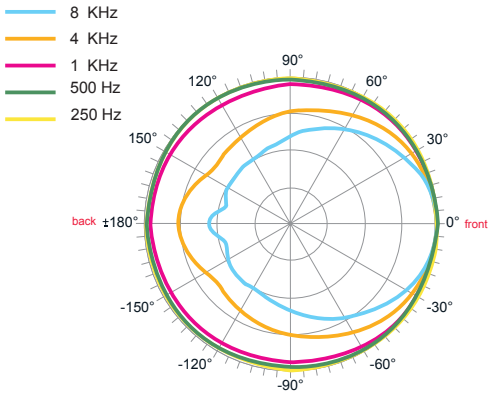
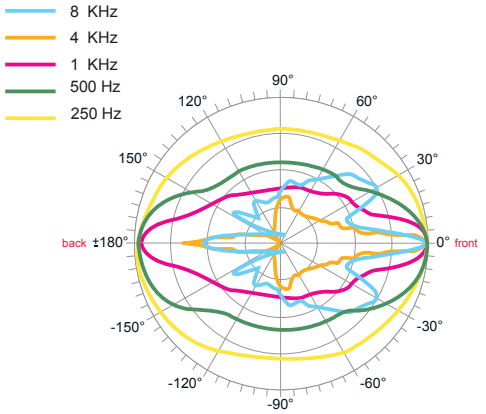
| | KR100S<br>*(specifications for one side system)* |
|---|---|
| | **Acoustics** |
| **Speaker power handling** | 500(sub) + 250(sat) W(AES) |
| **Max power** | 1000(sub) + 600(sat) W [1] |
| **Impedance** | 4Ω(sub) + 8Ω(sat) |
| **Frequency range** | 40Hz - 19 KHz +/- 3dB (preset relating) |
| **SPL 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)<br>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 continuos and burst current** | Default 6A(>10 sec) - 12A (<1 sec)<br>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”)<br>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.