

KR102

High tech ultra-light powered stereo system

Redline

DATASHEET

array
K

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

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

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

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.





KR102

(specifications for one side system)
1 x KK102 + 1 x KMT12

KK102

KMT12

Acoustics

Speaker power handling	400 W ^(AES)	700 W ^(AES)
Max power	800 W ¹	1200 W ¹
Impedance	selectable (MUST BE SET @ 32Ω)	8Ω
Frequency range	150 Hz - 20 KHz.	40Hz - 150 Hz +/- 3dB (preset relating)
SPL 1W / 1mt	98 dB ²	99 dB ²
Maximum SPL	124 dB continuous - 130 dB peak	128 dB continuous - 134 dB peak

Coverage

Horizontal	110°	Omni
Vertical	7° - 35° (selectable)	Omni

Crossover

Type	External Crossover required	DSP controlled
Frequency	High pass @150 Hz, 24 dB/oct suggested minimum	150 Hz

Transducers

Full Range	16 x 2" Neodymium magnet with 0.75" voice coil	1 x 12" Neodymium speakers with 3" voice coil
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Selection Switch

Vertical pattern	Spot - Flood	-
Impedance	8Ω - 32Ω (MUST BE SET @ 32Ω)	-

Audio Input

Analog Connectors	2 x 4-pin Speakon	2 male + 2 female 3-pin balanced XLR
Digital Connectors	-	1 male + 1 female 3-pin XLR

Audio powered Output

Connector	-	Female Speakon
Wiring	-	Pin1+= CH1+ Pin1= CH1- Pin2+= N.C. Pin2= N.C.

Remote control Input

Connectors	-	1 x male + female XLR parallel / 1 USB B Jack serial converter
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Power Input

Connectors		2 x PowerCon IN/OUT
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Amplifiers

Type	-	1 modules class D - DSP controlled
Subwoofer power	-	1000 Watt ³ @8Ω
Satellite power output	-	1000 Watt ³ @8Ω
Protection	-	Dynamic limiter, over current, over temp, short circuits

AC power

Operating range	-	85 - 130 Vac 60Hz / 190 - 240 Vac 50Hz (Auto Switch)
I. nom	-	5.5 A / 115 Vac - 2.9 A / 230 Vac
Minimum operation voltage	-	85 Vac - 190 Vac
Maximum operation voltage	-	130 Vac - 240 Vac
Max continuos and burst current	-	6A(>10 sec) - 12A (<1 sec) @ 130 Vac - 240 Vac 10A(>10 sec) - 20A (<1sec) @ 85 Vac - 190 Vac

Physical

Dimensions	8.1 x 100 x 5.9 cm (3.19" x 39.4" x 2.32")	32.5 x 33.5 x 43.5 cm (12.91" x 13.19" x 17.13")
Weight	4.6 Kg (10.14 lbs)	15.6 Kg (34.39 lbs)

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.