

KR202

High tech ultra-light powered stereo system

Redline

DATASHEET

array
K

Features

- Unique performance-to-size ratio
- High power 130 dB continuous, 136 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 by K-array to optimize the systems' performance for the variety of device configuration available. In addition



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

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. KR202 features a pair of KMT18 (18") subs each with 2 channels of 1,000 Watts matched to two KK102 Mid-High arrays. A coupling assembly allows the speakers to be mounted side-by-side, giving the ability to vary the vertical dispersion pattern for narrow to wide coverage.

All Redline systems are designed by the K-array R&D department and custom-made under the K-array quality control system.



Speaker power handling

Max power

Impedance

Frequency range

SPL 1W/ 1mt

Maximum SPL

Horizontal

Vertical

Type

Frequency

Full Range

Vertical pattern

Impedence

Analog Connectors

Digital Connectors

Connector

Wiring

Connectors

Connectors

Type

Subwoofer power

Satellite power output

Protection

Operating range

I. nom

Minimum operation voltage

Maximum operation voltage

Max continuous and burst current

Dimensions

Weight

KR202

(specifications for one side system)

2 x KK102 + 1 x KMT18

KK102

KMT18

Acoustics

400 W ^(AES)

800 W ^(AES)

800 W ¹

1400 W ¹

selectable (MUST BE SET @ 32Ω)

8Ω

150 Hz - 20 KHz.

30Hz - 150 Hz +/- 3dB (preset relating)

98 dB ²

99 dB ²

124 dB continuous - 130 dB peak

130 dB continuous - 136 dB peak

Coverage

110°

Omni

7° - 35° (selectable)

Omni

Crossover

External Crossover required

DSP controlled

High pass @150 Hz, 24 dB/oct suggested minimum

150 Hz

Transducers

16 x 2" Neodymium magnet with 0.75" voice coil

1 x 18" Neodymium speakers with 3" voice coil

Selection Switch

Spot - Flood

-

8Ω - 32Ω (MUST BE SET @ 32Ω)

-

Audio Input

2 x 4-pin Speakon

2 male + 2 female 3-pin balanced XLR

-

1 male + 1 female 3-pin XLR

Audio powered Output

-

Female Speakon

-

Pin1+= CH1+ Pin1= CH1- Pin2+= N.C. Pin2= N.C.

Remote control Input

-

1 x male + female XLR parallel / 1 USB B Jack serial converter

Power Input

-

2 x PowerCon IN/OUT

Amplifiers

-

1 modules class D - DSP controlled

-

1000 Watt ³ @8Ω

-

1000 Watt ³ @8Ω

-

Dynamic limiter, over current, over temp, short circuits

AC power

-

85 - 130 Vac 60Hz / 190 - 240 Vac 50Hz (Auto Switch)

-

5.5 A / 115 Vac - 2.9 A / 230 Vac

-

85 Vac - 190 Vac

-

130 Vac - 240 Vac

-

6A(>10 sec) - 12A (<1 sec) @ 130 Vac - 240 Vac

10A(>10 sec) - 20A (<1sec) @ 85 Vac - 190 Vac

Physical

8.1 x 100 x 5.9 cm (3.19" x 39.4" x 2.32")

46.5 x 47.5 x 61 cm (18.31" x 18.70" x 24.02")

4.6 Kg (10.14 lbs)

27.6 Kg (60.85 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.