

High tech ultra-light powered stereo system





## **Features**

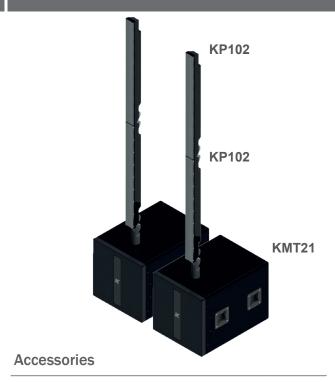
- Unique performance-to-size ratio
- High power 132 dB continuos, 138 dB peak
- · Fitted with integral handles
- · Line array emission wavefront
- DSP on-board with dedicated presets
- Ultra fast set-up and dismantling system
- · Analog and digital AES-EBU inputs
- RS485 and USB connectivity for remote 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



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. KR402 features a pair of KMT21 (21") subs each with 2 channels of 2400 Watts matched to two KP102 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.



## **KR402**

(specifications for one side system)  $2 \times KP102 + 1 \times KMT21$ 

	KP102	KMT21
	Acoustics	
Speaker power handling	720 W <sup>(AES)</sup>	1800 W (AES)
Max power	1200 W <sup>1</sup>	2800 W <sup>1</sup>
Impedance	selectable (must be set @ $16\Omega$ )	$4\Omega$
Frequency range	100 Hz - 20 KHz.	30Hz - 150 Hz +/- 3dB (preset relating)
SPL 1W/1mt	99 dB <sup>2</sup>	102 dB <sup>2</sup>
Maximum SPL	128 dB continuous - 134 dB peak	132 dB continuous - 138 dB peak
	Cove	erage
Horizontal	90°	Omni
Vertical	7°-30° (selectable)	Omni
	Crossover	
Туре	External Crossover required	DSP controlled
Frequency	High pass @100 Hz, 24 dB/oct suggested minimum	150 Hz
	Transducers	
Full Range	12 x 3.15" Neodymium magnet with 1" voice coil	1 x 21" Neodymium speakers with 3" voice coil
	Selection Switch	
Vertical pattern	Spot - Flood	-
Impedence	$4\Omega$ - $16\Omega$ (must be set @ $16\Omega$ )	_
	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
	Power	r Input
Connectors		2 x PowerCon IN/OUT
	Amplifiers	
Туре	-	1 modules class D - DSP controlled
Subwoofer power	-	2400 Watt <sup>3</sup> @4Ω
Satellite power output	-	2400 Watt <sup>3</sup> @4Ω
Protection	-	Dynamic limiter, over current, over temp, short circuits
	AC power	
Operating range	-	85 - 268 Vac Hz (Auto Switch)
P. nom	-	1500 W
Minimum operation voltage	-	85 Vac
Maximum operation voltage	-	268 Vac
	Physical	
Dimensions	8.1 x 100 x 5.9 cm (3.19" x 39.4" x 2.32")	55.5 x 55.5 x 77.7 cm (21.85" x 21.85" x 30.59")
Weight	4.6 Kg (10.14 lbs)	49 Kg (108.03 lbs)
	Notes for data	Amplifier wattage rating is based on the maximum unclipped burst sine wave RMS

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.

Maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard.

<sup>2.</sup> Measured @4 mt then scaled @1 mt