K-ARRAY
Unique Audio Solutions

Kayman-KY102-EBS

Stainless steel steerable line array element
with 4" drivers



Description

Introducing the Kayman-KY102-EBS, the evolution of our most powerful passive column array element. The standout features of the Kayman-KY102 line array with 8x4" transducers with PAT (Pure Array Technology) is now implemented with Electronic Beam steering.

Thanks to EBS, each of the eight woofers can be independently processed trough FIR filters. This allows for dynamic control and manipulation of the sound beam, directing it precisely to the desired listening area. EBS provides a level of accuracy and flexibility that is crucial in adapting the system to diverse environments and applications. This is particularly essential in environments where the risk of sound leaks or dispersion is high, such as reflective halls where traditional speaker tilting is restricted.

EBS integration with PAT, combines accuracy and even coverage with maximum control over directivity and direction, and with an astonishing Max SPL of 138 dB, positioned the KY-102-EBS as a powerful and precise tool over its species.

To have all the features of an active system but with the resistance and maintenance of a passive steerable column, Kayman-KY102-EBS has a dedicated 8-ch amplifier: the Kommander-KA-18 with FIR-EBS firmware implementation on board. Not to mention the power and efficiency of our Kommander-KA family of amplifiers, that makes this combo a complete powered-system.

With an sturdy and durable stainless steel enclosure and an IP65 rating, this system is even more suitable for outdoor applications and demanding conditions.

- 8x 4" Neodymium magnet woofers
- 138 dB_{peak} max SPL
- Pure Array Technology
- Electronic Beam Steering
- 8ch - FIR-processing with Kommander-KA18 running dedicated EBS firmware
- 8x 4Ω impedance
- 16-wires 5m long cable - easy wiring
- Modular capabilities
- Visually discreet
- IP65 suitable for indoors and outdoors installations
- Stainless Steel
- Available in black, white and custom RAL color

All Kayman-KY02-EBS components are designed by the K-array R&D department and are custom made under the K-array quality control system.

Kayman-KY102-EBS

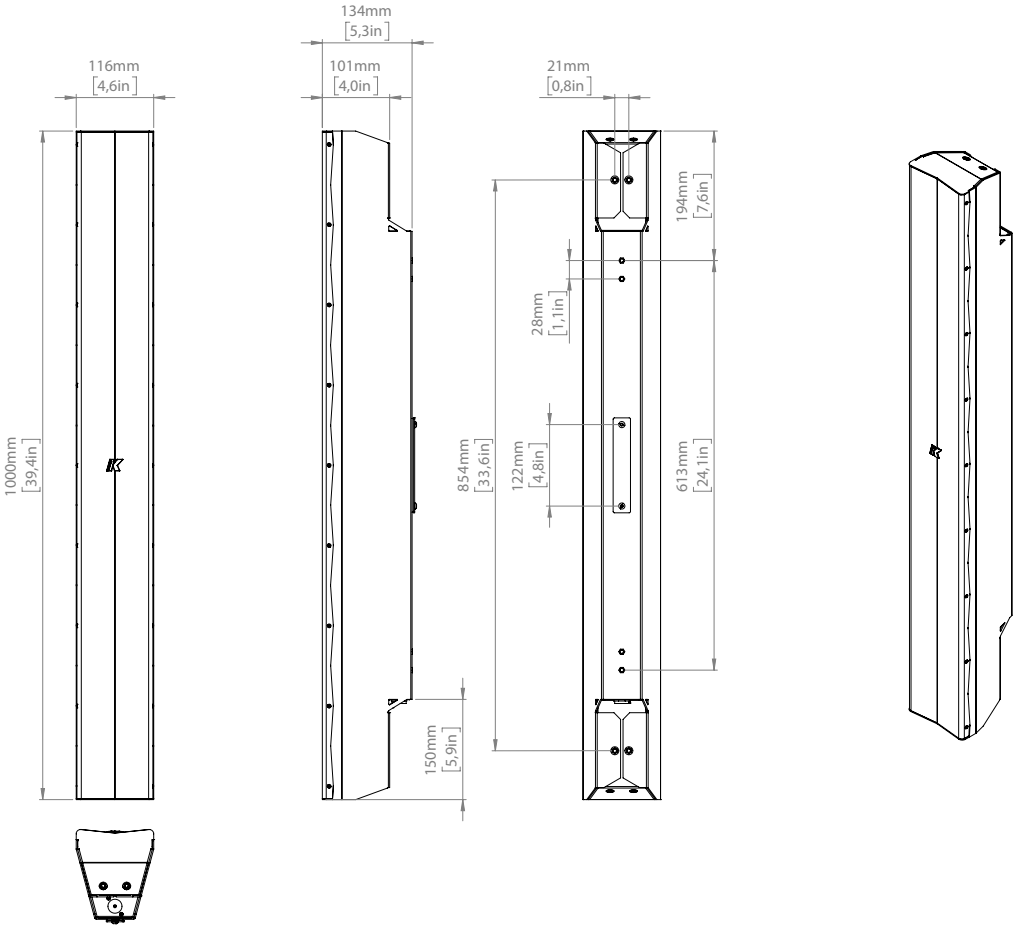
Technical Specifications	
Type	Passive line array loudspeaker with EBS
Transducers	8x 4" Neodymium magnet woofers
Frequency Response[1]	120 Hz - 20 kHz (-6 dB)
Max SPL[2]	138 dB peak
Coverage	V. digitally adjustable I H. 90°
Power Handling	8x 150W
Nominal Impedance	8x 4Ω
Connectors	Built-in 16-wire 5m long cable

Handling & Finishes	
Material	Stainless steel
Color	Black, White, Custom RAL
IP Rating	IP65
Dimensions (WxHxD)	116 x 1000 x 134 mm (4.6 x 39.4 x 5.3 in)
Weight	14.9 kg (32.8 lb)

[1] With dedicated preset.
[2] Maximum SPL is calculated using a signal with crest factor 4 (12dB) measured at 8 m then scaled at 1 m and may vary depending on steering settings

Recommended Amplifier	
Kommander-KA18	8ch - FIR-processing with Kommander-KA18 running dedicated EBS firmware

Recommended Software and Apps	
K-Framework	WINDOWS and OSX software K-framework3 click to go
K-Connect	ANDROID APP ON Google play Download on the App Store click to go
Web App	



Notes:
Passive loudspeakers require dedicated presets loaded onboard K-array amplifiers.
New materials and designs are introduced into existing products without previous notice.
Present systems may differ in some respects from those presented in this catalog.

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Kayman-KY102

Stainless steel meter-long line array element with 4” drivers



Description

The K-array Kayman-KY102 is a passive speaker system comprised of eight 4” neodymium magnet transducers housed in an elegant and sturdy stainless steel chassis. The vertical dispersion pattern can be switched for wide or narrow coverage, allowing for a great variety of applications. The eight closely spaced cone drivers provide true line array characteristics - phase coherence, low distortion and focused listening in both the near field, and at a distance from the speaker. A variety of rigging accessories provides many linking and hanging options for the KY102 to be joint in vertical and horizontal line array configurations to satisfy many different venue requirements during temporary events and for permanent installations.

For easier use and integration with other speakers or amplifiers, the KY102 allows the user to select two different values of impedance (8Ω – 32Ω).
The KY102 is able to reproduce the whole vocal frequency range with high intelligibility. Integrating one of K-array powered subwoofers (KMT21, KMT218), configured with specific presets for the KY102, assures excellent coverage of the entire musical frequency range. The K-array KA amplifier series have pre-sets optimized for KY102 use.
All KY102 components are designed by the K-array R&D department and custom-made under the K-array quality control system.

Colors	Premium Finishes	Features		Frequent Applications	
Black	Gold	Pure Array Technology (PAT)	Modular Capabilities	Auditorium, Education & Government	Touring, Festival, Concert & Live
White	Polished	Weather Resistent	Selectable Coverage	Theatre & Concert Halls	Broadcast & Studios
RAL	Brushed	Selectable Impedence	Visually Discreet	Stadium & Sport Venue	Theme Park

Accessories					
K-BASE2	K-FLY2	K-FOOT2	K-JOINT2	K-WALL2	KY-STAGE
K-IP65KITA	K-IP65KITB	K-KCLAMP	K-KCLAMP/S	K-PMOUNT	

Technical Specifications

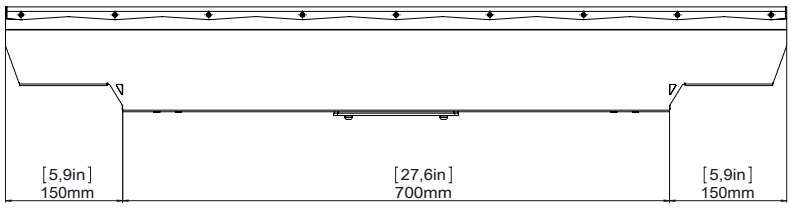
General	
Type	Line array
Transducers	8 x 4” neodymium magnet woofers
Frequency Response [1]	120 Hz – 20 kHz (-6 dB)
Max SPL [2]	138 dB (peak)
Rated Power	1200 W
Coverage	V. 7° - 30° | H. 90°
Connectors	SpeakOn NL4: 1+ 1- (signal); 2+ 2- (through)
Nominal Impedance	8 Ω / 32 Ω selectable

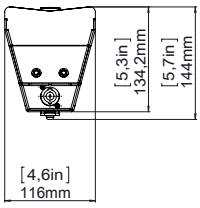
Handling & Finishes	
Dimensions (WxHxD)	116 x 1000 x 134 mm (4.6 x 39.4 x 5.3 in)
Weight	14,9 kg (32.8 lb)
Material	Stainless Steel
Colors	Black, White, Custom RAL
Finishes	Gold, Polished, Brushed

Regulations	
IP Rating	IP64 [3]

Accessories	
Recommended Amplifier	Kommander-KA84, Thunder-KMT21, Thunder-KMT218
Accessories	K-BASE2, K-FLY2, K-FOOT2, K-IP65KITA, K-IP65KITB, K-JOINT2, K-KCLAMP, K-KCLAMP/S, K-WALL2, K-PMOUNT, KY-STAGE

[1] With dedicated preset
[2] Maximum SPL is calculated using a signal with crest factor 4 (12dB) measured at 8 m then scaled at 1 m
[3] More complete water protection with K-IP65KITA and K-IP65KITB accessories (IP65 compliant)





Notes for data:
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