

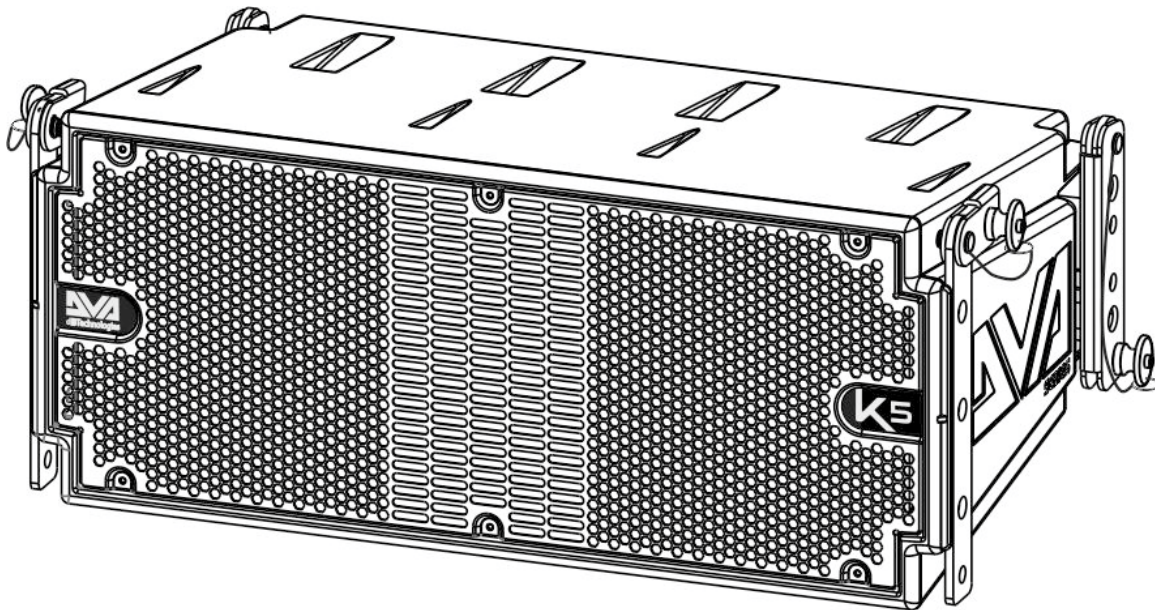


Digital Vertical Array

**K5**

**Quick start user manual**

*Section 1*



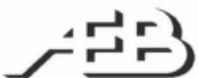
**The warnings in this manual must be observed together with the "USER MANUAL - Section 2".**

**Le avvertenze nel presente manuale devono essere osservate congiuntamente al "MANUALE D'USO - Sezione2".**

**Die Warnungen in diesem Handbuch müssen in Verbindung mit der "BEDIENUNGSANLEITUNG - Abschnitt 2" beobachtet werden".**

**Les avertissements spécifiés dans ce manuel doivent être respectés ainsi que les "CARACTERISTIQUES TECHNIQUES - Section 2"**

**Las advertencias del presente manual se deben tener en cuenta conjuntamente con las del "MANUAL DEL USUARIO" - Sección 2".**



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**Thank you for choosing a dBTechnologies Product!**

DVA K5 is a 3-way active line array module, equipped with: two 1" compression driver exit (1.4" voice coil), one 6.5" neodymium midrange (2" voice coil) and one 8" neodymium woofer (2.5" voice coil). The powerful DIGIPRO® G3 amplifier section, capable of handling up to 500 W (RMS power), is controlled by a DSP, which can perform a detailed customization of the output sound of the speaker. In particular, thanks to the new dual rotary encoder interface, it is possible to quickly tune the line-array configuration coverage, using the FIR filter technology.

Check the site [www.dbtechnologies.com](http://www.dbtechnologies.com) for the complete user manual!

## 1) Unpacking

The box contains:

N°1 DVA K5

N°1 100-120 V FUSE

This quick start and warranty documentation

## 2) Easy installation

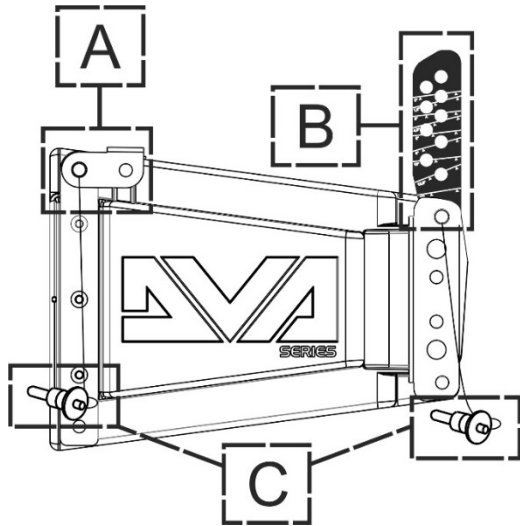
DVA K5 can be installed in different configurations. For a quick installation, in each side (left and right) of the speaker you can find:

Movable bracket for front mounting (A)

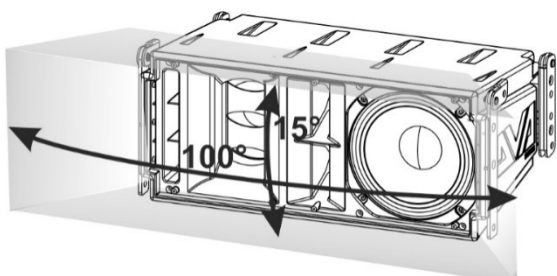
Movable bracket for rear mounting, with splay angles references for line-array setup (B)

Pin locks for a quick installation (C)

These brackets and pins are used to mount DVA K5 speakers each other in line-array configurations, and to mount them with accessories (not included) for different installation needs.



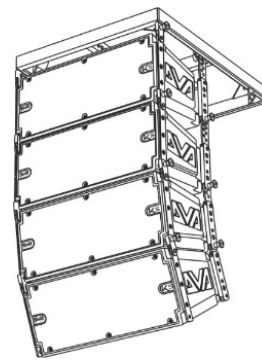
For each configuration choice, please consider the main acoustic coverage (HxV) of one DVA K5 here shown: 100°x15°.



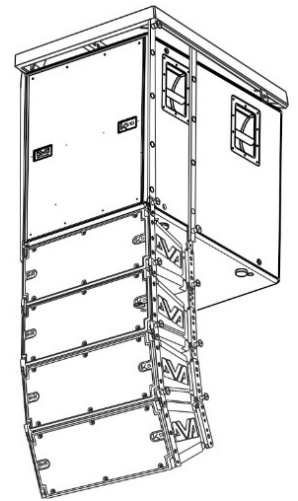
DVA K5

Four examples of DVA K5 line-array configurations (with optional accessories not included) are:

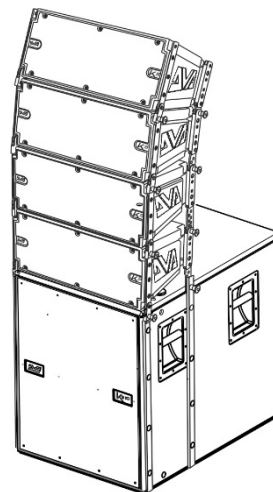
*Flown: K5, DRK 10 (DRK 20)  
Fly Bar*



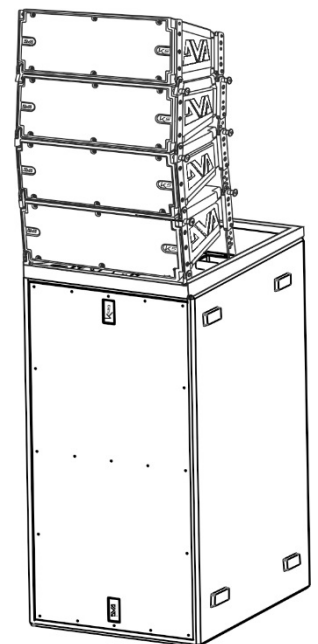
*Flown: K5, DVA KS10  
subwoofer, DRK 10 (DRK20)  
Fly Bar, SRK-10 kit*



*Stacked: K5, DVA KS10  
subwoofer, SRK-10 kit*



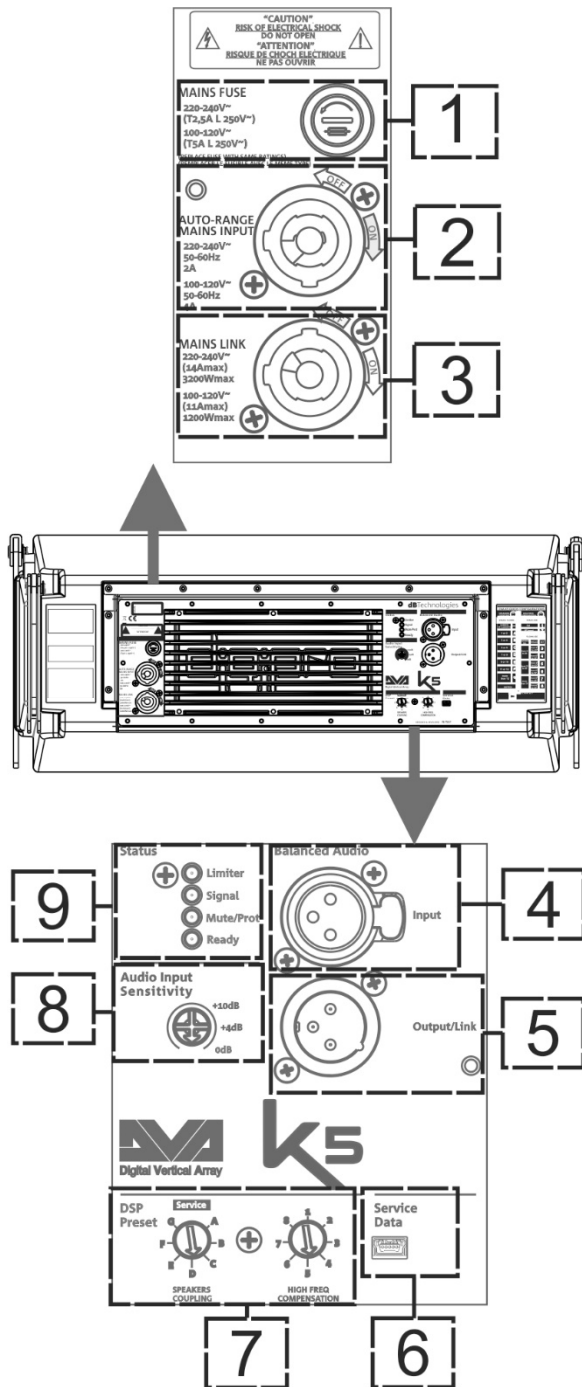
*Stacked: K5, DVA KS20  
subwoofer, DRK20 (drk10) Fly  
Bar*



For further information about accessories and configurations, download the complete user manual: [www.dbtechnologies.com/EN/Downloads.aspx](http://www.dbtechnologies.com/EN/Downloads.aspx) or scan the QR code.

## First switch on for line-array setup:

The DIGIPRO G3® amplifier of DVA K5 is controlled by a powerful DSP. All the connections and controls are in the rear amplifier control panel:



- 1 – Mains Fuse
- 2 – Auto-range mains input
- 3 – Mains (power) link output
- 4 – Balanced audio input
- 5 – Link audio output
- 6 – Service data mini B-type USB port
- 7 – DSP preset BCD rotary switches
- 8 – Audio input sensitivity rotary switch
- 9 – LEDs (Limiter, Signal, Mute/Prot, Ready)

## WARNING

*The fuse is factory set for 220-240 V operation.*

*If it is necessary to change the fuse to 100-120V range:*

1. *Disconnect the speaker from any cable*
2. *Wait 5 minutes*
3. *Substitute the fuse with the correct one supplied*

*Use only cables with Neutrik® connectors!*

a) Once you have properly set up the desired line-array configuration (see also the DVA K5 complete user manual and accessories instructions for further information), connect the audio input (4). Connect the useful link output (5) to other DVA K5 modules, for the audio connection of all the line-array elements. Set the audio input sensitivity (8) of DVA K5 to 0 dB.

b) Check the rear panel reference label for a proper DSP regulation. In this label you can find the suggested position of rotary switches (7) for each type of installation (Speakers Coupling positions and High Frequency Compensation). These settings are the main acoustic corrections to create the best coupling between the elements of your line-array, in order to obtain the best coverage conditions.

DVA K5 QUICK CONFIGURATIONS			
SPEAKERS COUPLING		HIGH FREQ. COMPENSATION	
STACK / FLOWN		STACK USE	
NUMBER OF CABINETS	SET	flat	1
		HF boost	2
1 or 2	A	FLOWN USE	
3 or 4	B	DISTANCE (m)	ANGLES
		from 0° to 4,5°	3
5 or 6	C	from 0 to 20	from 6° to 15°
7 or 8	D	from 21 to 30	from 6° to 15°
9 or 10	E	more than 31	from 6° to 15°
11 or 12	F	more than 31	from 6° to 15°
more than 12	G	more than 31	from 6° to 15°
service		FLYBAR at 0°	8

c) Connect the power link (3) to other DVA K5 modules, to link the power supply between all the elements of your array. Please note that the maximum linkable rated power and current depends on the first module connection conditions.

d) Connect the power supply (2) to the first module. The related “Ready” LED (9) turns on, signaling the proper power connection. Turn the audio input sensitivity (8) to the desired level. The “Signal” LED (9) start blinking at the presence of audio signal (greater than -20dBu). Avoid audio distortion conditions, potentially signaled by the “Limiter” LED (9).

For further information, download the complete user manual: [www.dbtechnologies.com/EN/Downloads.aspx](http://www.dbtechnologies.com/EN/Downloads.aspx) or scan the QR code.

## Technical Data

**Speaker Type:** 3-way Active line-array element

### Acoustical data

**Frequency Response [ $\pm 3$ dB]:** 70 - 19000 Hz

**Max SPL:** 129 dB

**HF compression driver:** (2x) 1" Exit

**HF voice coil:** (2x) 1.4"

**MF:** 6.5", Neodymium

**MF Voice Coil:** 2"

**LF:** 8", Neodymium

**LF Voice Coil:** 2.5"

**Crossover frequencies:** 340 Hz (L/M), 1800 Hz (M/H)

**FIR filters:** yes

**Coverage (HxV):** 100° x 15° (single unit)

### Amplifier

**Amp Technology:** Digipro® G3

**Amp Class:** Class-D

**RMS Power:** 500 W

**Peak Power:** 1000 W

### Processor

**Controller:** DSP, 28/56 bit 48 kHz

**Limiter:** Peak, Thermal

**Controls:** Rotary audio input sensitivity

**Rotary presets:** 2 Rotary BCD 8 positions for line-array configuration (Speaker Coupling, High Frequency Compensation)

### Input

**Mains connections:** PowerCON® In/link

**Signal Input:** (Balanced) 1x IN

**Signal Out:** (Balanced) 1 x XLR link OUT

**USB connector:** mini USB B-type (for SERVICE DATA)

### Mechanics

**Housing:** Polypropylene PP metal reinforced

**Grille:** CNC Metal grille black painted

**Rigging points:** Integrated rigging hardware

**Width:** 580 mm (23.2 in)

**Height:** 240 mm (9.6 in)

**Depth:** 327 mm (13.08 in)

**Weight:** 14.2 kg (31.3 lbs.)



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App to download the  
complete User Manual

Download the complete user manual on:

[www.dbtechnologies.com/EN/Downloads.aspx](http://www.dbtechnologies.com/EN/Downloads.aspx)

### EMI CLASSIFICATION

According to the standards EN 55103 this equipment is designed and suitable to operate in E3 (or lower E2, E1) Electromagnetic environments.

### FCC CLASS B STATEMENT ACCORDING TO TITLE 47, PART 15, SUBPART B, §15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

**WARNING:** Make sure that the loudspeaker is securely installed in a stable position to avoid any injuries or damages to persons or properties. For safety reasons do not place one loudspeaker on top of another without proper fastening systems. Before hanging the loudspeaker check all the components for damages, deformations, missing or damaged parts that may compromise safety during installation. If you use the loudspeakers outdoor avoid spots exposed to bad weather conditions.

Contact dB Technologies for accessories to be used with speakers. dBTechnologies will not accept any responsibility for damages caused by inappropriate accessories or additional devices.

*Features, specification and appearance of products are subject to change without notice.*

*dBTechnologies reserves the right to make changes or improvements in design or manufacturing without assuming any obligation to change or improve products previously manufactured.*