

KV50



***Vyper***  
***KV50***  
USER'S MANUAL  
*English*



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## SYMBOLS

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K-array declares that this device is in compliance with applicable CE standards and regulations. Before putting the device into operation, please observe the respective country-specific regulations!

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### WEEE

Please dispose of this product at the end of its operational lifetime by bringing it to your local collection point or recycling center for such equipment.

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This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual!

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Warning! Dangerous voltages: RISK of electric shock.

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This symbol alerts the user to the presence of recommendations about the product's use and maintenance.

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This device complies with Restriction of Hazardous Substances Directive.

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## 1. INTRODUCTION

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Vyper KV50 is an ultra-flat passive speaker system comprised of eight 1" neodymium magnet transducers housed in an elegant and sturdy aluminum chassis. 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 steel bracket accessory provides an ease to mount wall application for permanent installations. For easier use and integration with other speakers or amplifiers, KV50 allows the user to select two different values of impedance (16Ω – 64Ω). At 64Ω as many as 16 KV50 speakers can be powered off a single amplifier channel at 4Ω, which eliminates the need of 70 V amplifiers for wider distributed installed systems. The KV50 is able to reproduce the whole vocal frequency range with high intelligibility, starting from 150 Hz. Integrating one of the K-array subwoofers (KU36, KMT12P), powered by a KA10-10 amplifier set with specific presets optimized for the KV50 assures excellent coverage of the entire musical frequency range.

All Vyper KV50 components are designed by the K-array R&D department and custom-made under the K-array quality control system.

## 2. APPLICATIONS

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- Front fill and under-balcony fill
- Portable and installed AV systems
- Stage and AV studio monitoring

## 3. KEY FEATURES

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- Unique performance-to-size ratio
- Vertical, Horizontal and 3D line-array applications
- Multiple 1" long-excursion full-range cone drivers
- Wide horizontal coverage
- Electronically protected
- Selectable 16 Ω or 64 Ω impedance
- Weather proof, suitable for outdoor installations-IP54

## 4. UNPACKING

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Each K-array loudspeaker is built to the highest standard and thoroughly inspected before leaving the factory. Upon arrival, carefully inspect the shipping carton, then examine and test your new loudspeaker. If you find any damage, immediately notify the shipping company. Only the consignee may institute a claim procedure regarding the system's electronic equipment.

## 5. WARRANTY

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K-array systems are warranted against manufacturing defects in materials or craftsmanship over a period of 2 years from the date of original purchase. During the warranty period K-array will, at its discretion, either repair or replace products which prove to be defective provided that the product is returned in its original packaging, shipping prepaid, to an authorized K-array service agent or distributor. K-array cannot be held responsible for defects caused by unauthorized modifications, improper use, negligence, exposure to inclement weather conditions, acts of God or accidents, or any use of this product that is not in accordance with the instructions provided by K-array. K-array is not liable for consequential damages. This warranty is exclusive and no other warranty is expressed or implied. This warranty does not affect your statutory rights.

## 6. SAFETY

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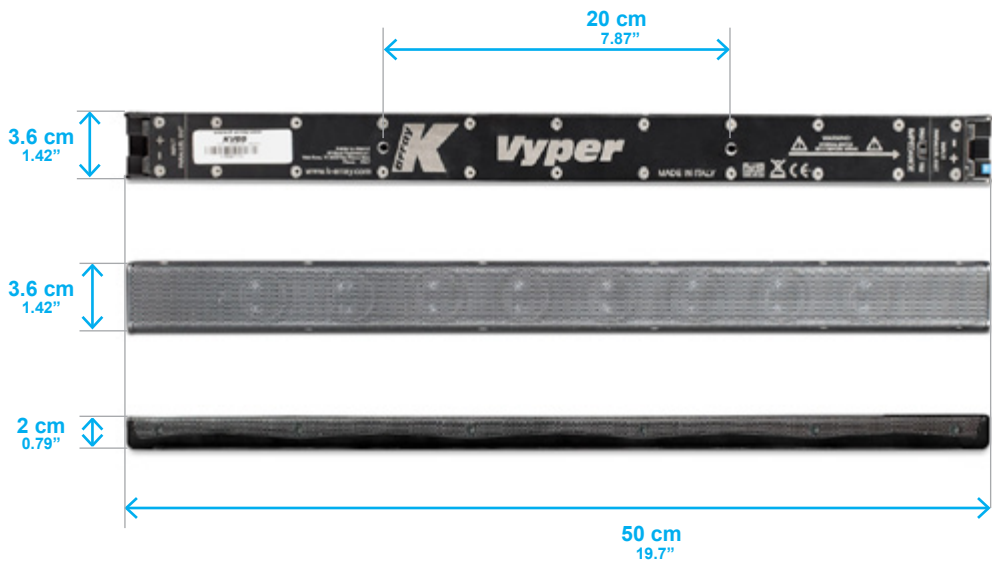
**WARNING**



- Only install the speaker in a location that can structurally support the weight of the unit. Doing otherwise may result in the unit falling down and causing personal injury and property damage.
- Professional loudspeakers are capable of producing extremely high sound levels and should be used with care. Hearing loss is cumulative and can result from extended exposure to levels in excess of 90dB.
- Do not operate the speaker for an extended period of time with the sound distorting. This is an indication of malfunction, which can cause heat build-up and result in a fire.
- Never stand close to loudspeakers driven at high level.
- Suspending the system should only be done by qualified personnel, following safe rigging practices. Secure fixings to the building structure are vital. If there is any doubt, seek professional help from architects, structural engineers or other specialists.
- No open flame sources, such as lighted candles, should be placed near the device.
- Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Repairs should be performed only by factory trained service personnel.

## 7. PHYSICAL

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weight: 0.7 kg (1.54 lb)

## 8. REAR PANEL

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1) Mounting M5 screw holes. Most K-array mounting or flying accessories are designed to screw into the speakers using these holes. The KV50 is equipped with two screw holes.

2) Impedance switch ( $16 \Omega$  or  $64 \Omega$ ). Selects the impedance of the speaker. Please refer to your amplifier's specifications to select the correct speaker impedance for your configuration.

## 9. SERVICE

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To obtain service:

- 1) Contact the official K-array distributor in your country. Your local distributor will direct you to the appropriate service center.
- 2) If you are calling for service, please have the serial number(s) of the unit(s) available for reference. Ask for Customer Service, and be prepared to describe the problem clearly and completely.
- 3) If the problem cannot be resolved over the phone, you may be required to send the unit in for service. In this instance, you will be provided with an RA (Return Authorization) number which should be included on all shipping documents and correspondence regarding the repair. Shipping charges are the responsibility of the purchaser.

Any attempt to modify or replace components of the device will invalidate your warranty. Service must be performed by an authorized K-array service center.



### Cleaning:

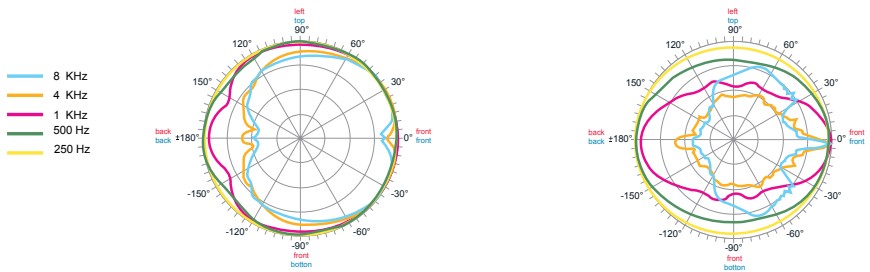
Use only a soft, dry cloth to clean the housing. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not use any sprays near the product or allow liquids to spill into any openings.



## 10. SPECIFICATIONS

<b>KV50</b>	
<b>Acoustics</b>	
Power handling	150 w <sup>(AES)</sup>
Max Power	300 w <sup>1</sup>
Impedance	16Ω or 64Ω (selectable)
Frequency range	200 Hz - 20 KHz.
SPL 1W / 1mt	86 dB <sup>2</sup>
Maximum SPL	108 dB continuous - 114 dB peak
<b>Coverage</b>	
Horizontal	110°
Vertical	10°
<b>Crossover</b>	
Type	External Crossover required
Frequency	150 Hz, 24 dB/oct suggested minimum
<b>Transducers</b>	
Full range	8 x 1" Neodymium magnet with 75" voice coil
<b>Audio Input</b>	
Connectors	2 x 2-pin screw terminals
<b>Recommended Amplifiers</b>	
Type	KA7, KA7-7, KA10, KA10-10, KA40 (with dedicated preset)
<b>Physical</b>	
Dimensions	3.9 x 50 x 2,1 cm (1.54" x 19.69" x 0.83")
Weight	0.67 Kg (1.48 lbs)
<p>Notes for data</p> <ol style="list-style-type: none"> <li>Maximum RMS applicable power for a musical signal, the reference signal is the one proposed by EIAJ standard.</li> <li>Measured @4 mt then scaled @1 mt</li> </ol> <p>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.</p>	

### DISPERSION GRAPHS



horizontal

vertical





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