K-ARRAY
Unique Audio Solutions

Thunder-KS5 I
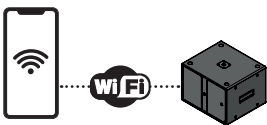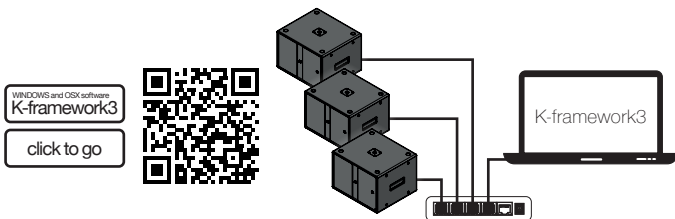## Multi-tasking 2x21″
self-powered subwoofer

Description

The Thunder-KS5 I is an active subwoofer featuring a 2x21" cone drivers and a powerful 4x 2500W @ 4Ω audio amplifier module with built-in DSP.

The dedicated K-Discovery mobile app provides an user friendly interface for remote control of the DSP main parameters and easy configuration of the signal routing.

Download on the App Store
click to go

K-framework3 is the managing and control software dedicated to professionals and operators looking for a powerful tool for designing and managing a large number of units over a wired LAN in demanding applications.
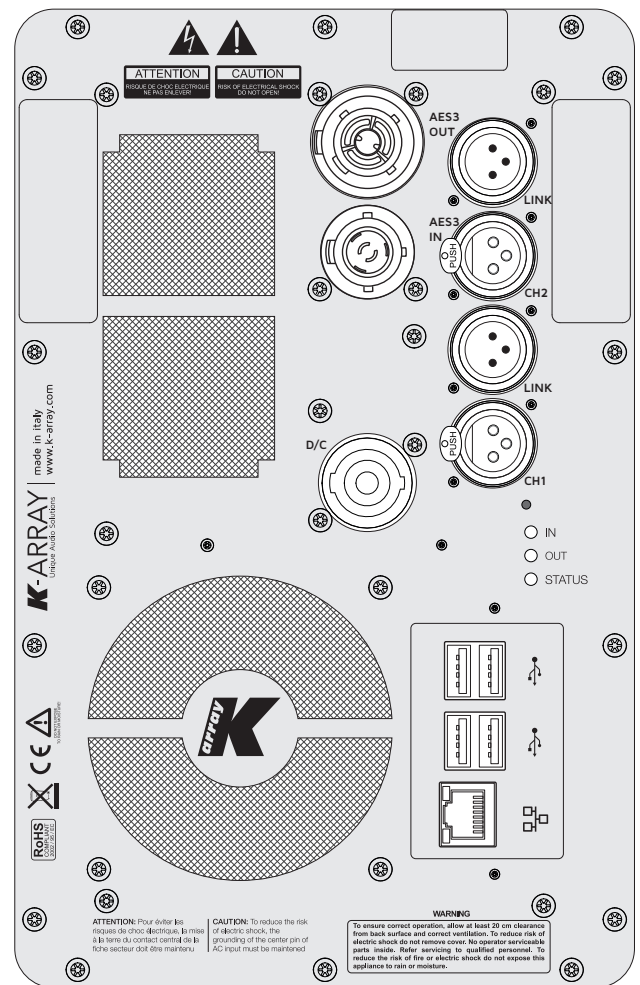
WINDOWS and OSX software
K-framework3
click to go

K-framework3

- 2x21″ neodimium magnet woofer.
- Built in Class D audio amplifier module 4x 2500W @ 4Ω.
- 4x 2500W @ 4Ω audio power outputs for driving external loudspeakers.
- K-array Connect mobile app for easy wireless access to the DSP features.
- K-framework designer and remote control software for advanced loudspeakers system management.
- DSP onboard with:
  - Channel Grouping: group controls over multiple channels;
  - Input EQ: 3 bands fully parametric equalizer;
  - Output EQ: 8 bands fully parametric selectable filters: Peaking, High-Shelf, Low-Shelf, High-Pass, Low-Pass, HP-Butterworth, LP-Butterworth;
  - Dynamic limiters;
  - Signal routing: freely assignable input-to-output signal path with level adjustment;
  - Channel delay up to 230ms.
- osKar embedded: custom operating system running on quad core 1.5 GHz internal processor.
- Bass reflex acoustic load with symmetric ports.
- High density Finnish birch plywood cabinet for increased resistance and robustness.
- Rugged Polyurea coating for improved environmental resistance.
- Available in black or white or customizable paint over the entire RAL palette.

Technical Specifications

General

Type	Active subwoofer
Transducers	2x21" neodymium magnet woofer
Frequency Response [1]	35 Hz – 150 Hz (-6 dB)
Crossover	DSP-controlled, Low Pass @ 150 Hz, preset dependant
Max SPL [2]	145 dB peak
Coverage	Omni
Connectors	Line Input 2x XLR-F analog balanced / AES3 input Line Output 2x XLR-M Link analog balanced / AES3 output Speaker Output 1x SpeakON NL4 (Ch1 1+/1- // Ch2 2+/2-) Mains powerCON TRUE1 TOP, 16 A true mains Networking and Data 1x RJ45 4x USB-A
DSP	Input gain, routing matrix, delay, full parametric IIR filters (Peaking, Shelving, Hi/Lo pass, Hi/Lo Butterworth), Onboard preset, Remote monitoring
Remote control	Wi-Fi dedicated APP K-framework3 via wired Ethernet connection
Amplifier module	4-channel switching mode, Class D
Output power [3]	4x 2500 W @ 4 Ω
MAINS Operating Range	100-240V AC, 50-60 Hz with PFC
Power Consumption	600 VA @ 4 Ω load, Pink noise, 1/8 rated power
Protections	Over Temp. (Power Limiting – Thermal Shutdown), Short Circuit/Overload Output Protection, Power Limiting, Clip Limiter/Permanent Signal Limiter, High Frequency Protection

Handling & Finishes

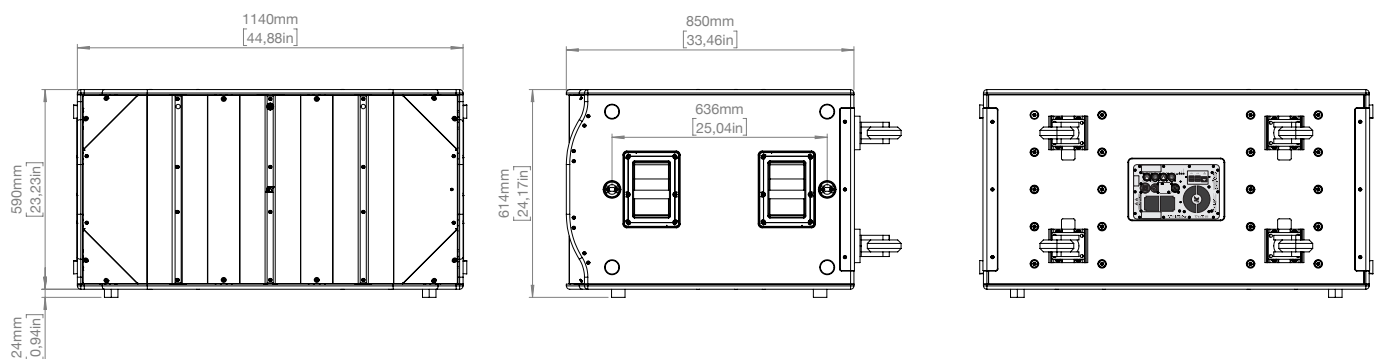|	
IP Rating	IP53
Dimensions (WxHxD)	1140 x 590 x 850 mm (44.9 x 23.2 x 33.5 in)
Weight	104.4 kg (230.16 lb)
Color	Black, White, Custom RAL (on demand)

Accessories

K-FOOT3	Adapter for standing top and midrange loudspeaker on top
KS5-FLY1	Rigging chain for suspended installations
K-SK221	Skate Board for one KS5I or KS7I

[1] Extensible with dedicated preset according to the midrange crossover point.

[2] Maximum SPL is calculated using a signal with crest factor 4 (12dB) measured at 1 m.

[3] CTA-2006 (CEA-2006) Amplifier Power Standards.

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 document.