



CUT SHEET



KRAKEN-MK3

Quad 21"
Powered Subwoofer

Overview

The Kraken embrace is a monstrously beautiful thing. It's crushing, it's inescapable, and it fills any space with excitement and wonder... You'll love every minute of it! Capable of almost brutal force, every time there's a Kraken on site, the energy level goes up. When your events need to be intense... Release the Kraken!

How does the Kraken pack the output of at least four double-18" subwoofers into the size of just two? While it's possible to tune a small cabinet to a very low frequency using very long ports, those ports would tend to take up more than half of the cabinet volume, requiring bigger cabinets or higher tuning.

On the other hand, tuning a very large cabinet to a very low frequency is possible using shorter ports. The bigger the cabinet volume, the shorter the ports need to be to tune it to a low frequency. The shorter the ports are, the smaller the percentage of interior cabinet volume they occupy, effectively leaving more room for more woofers. Sure, the Kraken is big for a single speaker, but the point is not the size of the cabinet, it's the scale of the

output. Think of it as a subwoofer with the economy of scale The Kraken delivers the highest SPL relative to subwoofer size, bar none.

Technically, the Kraken is a vented, short-horn, quad 21" bandpass subwoofer. The four drivers are loaded into a large acoustical volume that is tuned to a low frequency, and the front of each driver is loaded into a short horn. The vented enclosure section provides extended deep bass performance and the foreshortened horn sections provide increased upper frequency sensitivity, which results in improved transient response, aka "punch".

To bring the whole thing to life, each woofer is powered by a discrete 2500W amplifier, making the total power per cabinet an impressive 10,000 Watts. This ensures the amps aren't the limiting factor in the output of low frequencies. Providing abundant power prevents overheating issues and virtually eliminates the damage that clipping a too-small amp can cause.

The big beast is kept under your control by an integrated, comprehensive DSP. The DSP provides high-pass filters, low-pass filters, equalization, alignment filters and limiting. A variety of different filter settings are available in presets. Eight presets are available at the touch of a button on the amplifier, and the DSP can store up to 100 presets on-board, all of which can be accessed via software and a LAN connection.

To take further advantage of the Kraken's output density, aligned arrays are facilitated by interlocking

sliders. Block arrays, side-by-side arrays and front/back cardioid configurations can be deployed with the cabinets interlocked. The optional transport carts can support two cabinets, allowing unparalleled truck-pack density. The carts feature recesses into which the sliders fit.

There are two interesting advantages to the dual-opposed, force-canceling nature of the Kraken design. One is the absence of front-to-back rocking motion, which both reduces the amount of lateral energy transmitted into floors, and makes the cabinets less prone to “walking”. The other is relatively little secondary radiation from the rear of the cabinet. This, along with the directivity associated with its size, makes the area behind a Kraken fairly quiet compared to an array of conventional cabinets capable of similar output. Ultimately, cardioid configurations of Krakens tend to require fewer rearward-facing cabinets to achieve effective cancellation behind the array.

The cabinet itself is made from 18mm, 13-ply Birch plywood and is extensively braced. It is coated in high-temperature bonded poly urea and features powder-coated, perforated steel grilles. The cabinets are axially symmetrical, featuring UHMW Polyethylene sliders and steel bar handles on 4 sides.

The Kraken Powered Subwoofer was designed to provide body-and-face-melting bass on a massive scale for festival systems, touring systems, high-intensity nightclubs, art cars, carnival floats and, not to be forgotten, BASSHEADS, who need a lot more than they have ever had before...

Specifications

Acoustical

Loudspeaker Description	Quad 21" Self-Powered 6th-order Hybrid Subwoofer
Frequency Response (± 3 dB)	27 - 100 Hz
Maximum Measured Output	145 dB * 1m (half-space)
Max Calculated SPL (Peak)	148 dB * 1m (half-space)
Nominal Dispersion ($H^\circ \times V^\circ$)	360 x 360 - Cardioid Mode Available with Multiple Boxes

Electrical

Amplification	10000 Watts Class D (4 x 2500W)
Processing	Integrated comprehensive DSP. 96kHz sampling rate with 8 pushbutton presets. All presets include high pass filters, low pass filters, phase alignment, equalization and multi-stage limiting. Storage capacity for up to 100 presets

Electrical Connectors, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors
Electrical Connector, Mains	USA 3-pin grounding 120V electrical plug NEMA 5-15; Outside USA alternate connectors provided
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 18A (nominal); 240V 7A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M pass-through only
Data Connectors	2 x EtherCON RJ45
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Vented, short-horn hybrid
Transducer	4 x 21 in. diameter (540mm) neodymium motor woofer with 4.5 in. (115mm) voice coil
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 8 steel bar handles. 8 x interlocking Nylon sliders/feet.
Dimensions (HxWxD)	48 in. x 48 in. x 36 in. (48.5 in. high with feet)
Net Weight	460 lbs. (209 kg)
Shipping Weight	550 lbs. (249 kg) with pallet
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black
Grille	Perforated, powder-coated steel
Fly Points	None. Ground-stack only
Handles	8 x Steel bar handles. 2 on each of 4 sides
Feet	8 x UHMWPE strips. 2 on each of 4 sides
Optional Dollies	Birch plywood flat cart with 4 locking wheels and recesses to accept the cabinet sliders. Transports 1 or 2 cabinets
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card

Our proactive philosophy causes specifications to be subject to change whenever improvements are made.

Pre-Installed Onboard Presets

High-pass and low-pass filters with included phase compensation.

Preset 1 23 Hz - 60 Hz

Preset 2 23 Hz - 70 Hz

Preset 3 23 Hz - 85 Hz

Preset 4 23 Hz - 80 Hz

Preset 5 23 Hz - 85 Hz

Preset 6 23 Hz - 90 Hz

Preset 7 23 Hz - 95 Hz

Preset 8 Cardioid Mode (Use only when cabinet is facing away from the audience.)*

*Preset 8 is the Cardioid mode setting. More information on using Cardioid Mode can be found on in the manual.

ControlBASS + Settings

For improved performance and stability, update your settings immediately upon receipt of your new gear!

Major new updates are available.

Download new settings updates and the ControlBASS app at bassboss.com/software

Instructions on using the software, linking to your computer for remote monitoring and control and updating the settings files will be provided when you sign up!

Register your gear

bassboss.com/support

For more information and setup tips on how to get the best and most out of your system check out the Knowledge BASS help.bassboss.com

In order to achieve the flattest and smoothest frequency response, you should match the levels of your BASSBOSS subs and tops, and the low-pass filter frequency selected on the Subwoofer(s) should be closely matched to the high-pass filter frequency selected on the Top(s).

On the other hand, if you like your system to be bass-heavy, and you plan to turn your subs up louder than your tops, you may want to choose a preset on the tops with a high-pass frequency that's slightly above the frequency chosen on the subs. This will reduce the chance of an output peak in the crossover/overlap range and will allow slightly more output SPL from the tops.

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**Need more assistance?
We're here to help.**

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