

ProductCatalog Subs & Tops

BASSBOSS

ProductCatalog

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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 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 Input Connector, Amp	Neutrik powerCON True 1 TOP - IP65 rated waterproof connectors

Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 10A or 1200W. Do not exceed the total capacity of the inlet connector.
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
LAN 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
Feet	8 x UHMWPE strips. 2 on each of 4 sides
Handles	8 x Steel bar handles. 2 on each of 4 sides
Fly Points	None. Ground-stack only
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

Optional

Optional Dollies	Birch plywood flat cart with 4 locking wheels and recesses to accept the cabinet sliders. Transports 1 or 2 cabinets
Optional Covers	Heavy-duty padded nylon transport covers for 1 cabinet

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	25 Hz - 60 Hz
Preset 2	25 Hz - 70 Hz
Preset 3	25 Hz - 75 Hz
Preset 4	25 Hz - 80 Hz
Preset 5	25 Hz - 85 Hz
Preset 6	25 Hz - 90 Hz
Preset 7	25 Hz - 95 Hz
Preset 8	Cardioid Mode (Use only what 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.

IMPORTANT - Update NOW!

ControlBASS + Settings

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

KRAKEN-MK3

Quad 21"
Powered Subwoofer



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

help.bassboss.com



CUT SHEET



MAKARA-MK3

Double 21"
Powered Subwoofer

Overview

You recognize that music continues to expand into the space below the limits of conventional subwoofers, down into the depths of frequencies, the depths of emotions. You don't want to be left behind, just on the surface, you want to plunge into these new depths and take your audiences with you on this exciting journey!

But you can't abandon those on shore, the music from before the technology allowed this downward expansion and the music that doesn't take advantage of or need to reach these depths, so you still need to be able to do everything you've always done. You need something that's not ONLY going to do the deepest lows, you need something that's going to excel at everything all your previous subs have needed to do and ADD a whole new dimension.

This dimension is the one that surrounds us, envelops us, connects us, unifies us and makes us feel that we are all having the same experience. When the frequencies go lower, the wavelengths get longer and the music, quite literally, gets bigger.

If you want your performances to be bigger, the way to do that is to make the music bigger with these bigger waves. More people and more emotions can fit within bigger music. With the Makara, you can make the performances, the emotions and the impact of your system bigger without making your system too big to manage and without leaving anyone behind, except, perhaps, your competition...

The Makara-MK3 features 5,000W of amplification, with an auto-sensing, globally compatible power supply that can run on input voltages anywhere between 90 and 250 Volts. Full output power is available on anything over 110V. The amplifier's peak-output voltage provides intense, high SPL hits while its sustained output is unparalleled in its ability to deliver the liquid lows. The amplifier is passively cooled via its external heat sink and by woofer-generated air flow through the port. When necessary, four radial fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

Amplifier power is converted into the much more desirable acoustical power by two high-sensitivity, neodymium motor, 21-inch woofers with 4.5-inch (115mm) high-BL voice coils. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers. Our split-wound woofer coils create a more consistent force throughout the cone's range of movement, minimizing distortion and enhancing linearity at peak output.

The protection systems involve several techniques running simultaneously to effectively prevent thermal overload of the voice coils and limit excessive excursion. Reducing thermal saturation not only prevents burned voice coils, it also minimizes long-term thermal compression. Due to the sophistication of these multiple, independent yet simultaneous processes, the drivers can be protected while the actions of the limiters have virtually no noticeable effect on the transient response of the loudspeaker. Peak output can be achieved consistently, repeatedly and safely.

The Makara-MK3 is a hybrid 6th-order bandpass cabinet, utilizing a large vented volume and two short-horn sections to increase sensitivity in its upper operating range. The best way to describe the Makara experience is "Complete". The complete subwoofer experience includes effortless depth and plenty of "punch". The two drivers are loaded into a large acoustical volume that is tuned to a low frequency, and each is front-loaded onto a short horn. The vented enclosure section provides extended deep bass performance and the horn section provides increased upper-frequency sensitivity and improved transient response.

The enclosures feature UHMW Polyethylene sliders on the top and bottom, with corresponding recesses in the opposite sides to facilitate interlocking the boxes when stacked. The available transport carts also feature recesses for the sliders to facilitate secure transporting.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software and settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future updates will provide access to this feature.

Within the ControlBASS software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical

Loudspeaker Description	New! Double 21" Self-Powered 6th-order Hybrid Subwoofer
Frequency Response (± 3 dB)	23 – 100 Hz
Maximum Measured Output	140 dB 1m (half-space)
Max SPL (Peak)	143 dB 1m (half-space)
Nominal Dispersion ($H^\circ \times V^\circ$)	360 x 360 – Cardioid Mode Available with Multiple Boxes

Electrical

Amplification	5000 Watts Class D (2 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 9A (nominal); 240V 7A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M pass-through only
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Vented, short-horn hybrid
Transducer	2 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. 4 steel bar handles. 4 x 35mm steel pole sockets, 4 x interlocking UHMWPE sliders/feet.
Dimensions (HxWxD)	28 in. x 48 in. x 36 in. (28.5 in. high with feet)
Net Weight	294 lbs. (133 kg)
Shipping Weight	320 lbs. (145 kg) with pallet
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black
Grille	Perforated, powder-coated steel
Feet	4 x UHMWPE sliders
Handles	4 x Steel bar handles
Fly Points	None. Ground-stack only
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

Optional

Covers	Heavy-duty padded nylon transport covers for 1 cabinet
Dollies	Birch plywood flat cart with 4 locking wheels and recesses to accept the cabinet sliders. Transports 1 to 3 cabinets
Online Information	bassboss.com/makara

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 - 75 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 what 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.

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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.

MAKARA-MK3

Double 21" Powered Subwoofer



Need more assistance?
We're here to help.

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CUT SHEET



ZV28-MK3

Double 18"
Powered Subwoofer

Overview

The BASSBOSS ZV28-MK3 Subwoofer is designed to bring you up close and personal with the boundaries of audible sound. Reveal notes unfathomable with other subwoofers, delivered effortlessly. Frequencies that push other systems to their limits are brought to life powerfully and smoothly. The ZV28-MK3 isn't just about hearing; it's about feeling the power of the music.

The ZV28-MK3 is a vented, direct radiating subwoofer with a substantial internal volume, tuned to a low frequency. Advanced design features such as anti-standing wave baffles and pass-through dampers help reduce upper resonances while oversized ports enhance low-frequency performance at high output.

The ZV28-MK3 is built to run at full throttle. The woofers are kept within safe thermal and excursion limits throughout their operating range regardless of input level. The design guarantees a consistently flat frequency response, with a pair delivering -3dB to an impressive 21 Hz. This performance is achieved without any need for equalization, and is available on demand at high levels in real-world scenarios.

Unlike other subs that may promise much but deliver little, the ZV28-MK3 actually performs as impressively in the field as it seems to on paper. Be cautious of loudspeaker systems that rely on bass-boost processing to meet their claimed frequency response, as they can often fall short when it comes to delivering quality sound at maximum power.

The ZV28-MK3 features a 5000W amplifier with an auto-sensing, globally compatible power supply that can run on input voltages anywhere between 90 and 250 Volts. Full output power is available on anything over 110V. The amplifier's peak-output voltage provides for intense high SPL hits while its sustained output is unparalleled in its ability to deliver the liquid lows. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, four blower-fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

New to the MK3 are Neutrik powerCON True 1 TOP (Total Outdoor Protection) waterproof mains connectors. Waterproof mains connectors along with a totally isolated input connection section and cones that are waterproofed make the MK3 series the powered loudspeakers that can be used outdoors without fear of what the weather will bring. (Or used indoors without fear of what the parties bring.)

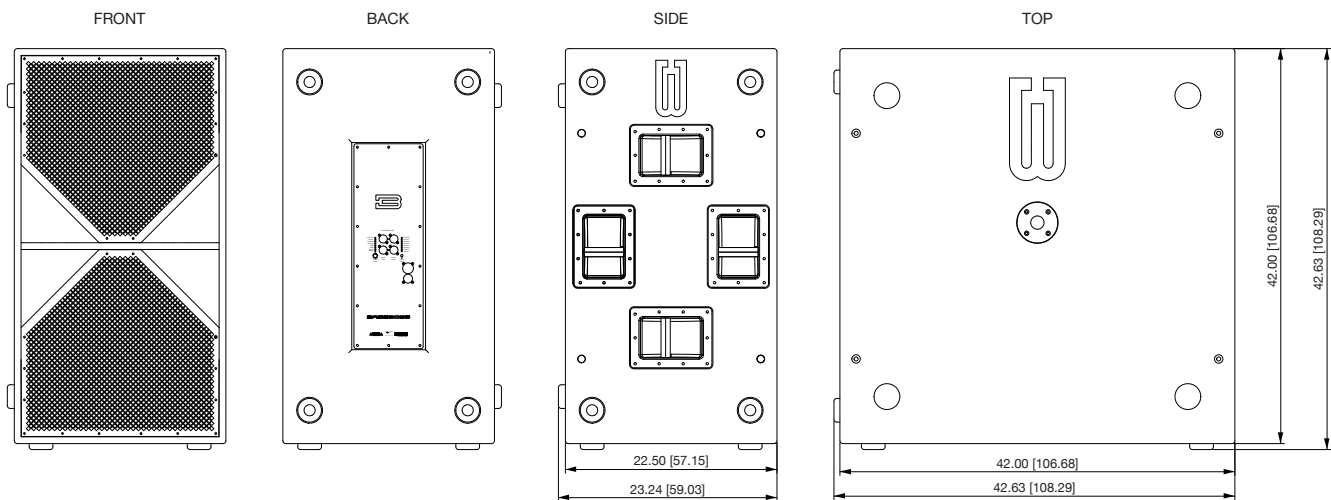
Electrical power is converted into the much more desirable acoustical power by two robust, neodymium motor, 18-inch woofers with massive 4.5-inch (115mm) voice coils. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.



Specifications

Acoustical

Loudspeaker Description	Double 18" Self-Powered Vented Direct-Radiating Extended-depth Sub
Frequency Response (± 3 dB)	23 – 90Hz
Maximum Measured Output	134 dB 1m (half-space)
Max SPL (Peak)	137 dB 1m (half-space)
Nominal Dispersion ($H^\circ \times V^\circ$)	360 x 360 - Cardioid mode available with multiple cabinets

Electrical

Amplification	5000 Watts Class D (2 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 Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.

Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 6A or 720W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 9A (nominal); 240V 4.5A (nominal)
Signal input connector	XLR-F
Signal Output Connector	XLR-M - full-range direct pass-through
LAN connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Direct radiating vented enclosure, optimally tuned for extended low frequency response with linear output and high power handling
Transducer	2 x 18" (457mm) neodymium motor woofers with 4.5 in. (115mm) CCAW voice coils
Cabinet Construction	CNC machined 18mm Birch plywood, extensive bracing, dado joinery. 8 steel bar handles. 2 x 35mm steel pole sockets. 12 rubber feet. 4 interlocking foot pockets. 16 X M10 threaded fly points
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black
Suspension System	16 X M10 Threaded Fly points
Grille	Perforated, powder-coated steel
Dimensions (HxWxD)	22.5 in. x 42 in. x 42 in. (Height of feet 7/8")
Net Weight	235 lbs. (106.5 kg)
Shipping Weight	265 lbs. (120.2 kg)
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card

Optional

Dollies	Birch plywood cart; 4 locking wheels; sockets for cabinet feet. Vertical Transports 1 cabinet. Horizontal Transports up to 4 cabinets
Cover	Heavy-duty padded nylon transport covers for vertical or horizontal transport
Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors

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	20Hz Butterworth 24dB/octave high-pass filter to 65 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 2	20Hz Butterworth 24dB/octave high-pass filter to 70 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 3	20Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 4	20Hz Butterworth 24dB/octave high-pass filter to 80 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 5	20Hz Butterworth 24dB/octave high-pass filter to 85 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 6	20Hz Butterworth 24dB/octave high-pass filter to 90 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 7	30Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter (Good Neighbor Mode)*
Preset 8	Cardioid Mode (Two subs forward - one back. Use only when cabinet is facing away from audience.)**
Preset 9	25Hz Butterworth 24dB/octave high-pass filter to 65 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 10	25Hz Butterworth 24dB/octave high-pass filter to 70 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 11	25Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 12	25Hz Butterworth 24dB/octave high-pass filter to 80 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 13	25Hz Butterworth 24dB/octave high-pass filter to 85 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 14	25Hz Butterworth 24dB/octave high-pass filter to 90 Hz Linkwitz-Riley 24dB/octave low-pass filter
Preset 15	40Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 24dB/octave low-pass filter (Vinyl/Very Good Neighbor Mode)***
Preset 16	Cardioid Mode (One sub forward - one back. Use only when cabinet is facing away from audience.)

*Preset 7 raises the high-pass filter to 30 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

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

*** Preset 15 reduces the low bass output even further by raising the high-pass filter to 40 Hz. Preset 15 should be used when playing vinyl records, dealing with noise complaints from deep bass, or when there is risk of infrasonic feedback.

ControlBASS Software + Settings Updates

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Register your gear

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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

ZV28-MK3

Double 18" Powered Subwoofer



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CUT SHEET



SSP218-MK3

Double 18"
Powered Subwoofer

Overview

The SSP218-MK3 design combines sensitivity, depth, power handling, fidelity and value. It offers astonishing versatility and practicality for those who need exceptional bass performance for a wide variety of applications, delivering massive, reliable, consistent output with great fidelity.

The SSP218-MK3 maintains its performance over the long term and is virtually impossible to destroy thanks to the combination of extremely robust and very high power handling, long excursion drivers, a carefully optimized port and cabinet design and several effective yet transparent protection systems that are part of the integrated signal processing. The protection systems effectively prevent thermal overload of the voice coils and minimize long-term thermal compression while having virtually no effect on the transient response and maximum output of the speaker.

The SSP218-MK3 achieves an extremely flat frequency response, measuring $\pm 1.5\text{dB}$ from 32Hz to 100Hz. No equalization is used to achieve this response. Unlike designs that require equalization, the tone, response and sensitivity of the SSP218-MK3 are native to the design. Competing systems that require bass boost EQ to achieve stated response are still subject to the physical excursion and thermal limits of their drivers. The SSP218-MK3 system is optimized for full power operation throughout their operating range while the woofers remain within their X-max specification. This allows it to achieve very high output, low frequency performance with minimal distortion.

Versatility is one of the SSP218-MK3's greatest strengths. There are two 35mm pole sockets on each cabinet. Having two sockets allows the bass to be deployed horizontally or vertically while also allowing smaller overhead cabinets to be mounted on poles above the subs. Additionally, the use of these sockets allows the larger BASSBOSS overhead or front-fill cabinets to be locked into place when stacked on top of the subwoofers without the need for unsightly straps.

The cabinets feature four large rubber feet and corresponding recesses on the top to facilitate interlocking of the enclosures when stacked. The feet also interlock with the available wheeled carts, allowing multiple enclosures to be stacked on a cart for quick deployment with minimal effort. The stacked set size measures 29.5" x 48", making it easy to securely fit into almost any commercial truck. The carts can accommodate up to 4 subwoofers, allowing for extremely tight loading density. Alternatively, three-high stacks or three-high cardioid stacks can be pre-configured on the carts, ready for the party!

The cabinets are made from 18mm birch plywood, are extensively braced, and feature 4 steel bar handles. They are coated with weather-resistant high-pressure poly urea and the conductors are protected by a powder-coated perforated steel grid. The cones also feature a waterproof coating.

The SSP218-MK3 features a 5000W amplifier with an auto-sensing, globally compatible power supply that can run on input voltages anywhere between 90 and 250 Volts. Full output power is available on anything over 110V. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, four blower-fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

New to the MK3 are Neutrik powerCON True 1 TOP (Total Outdoor Protection) waterproof mains connectors. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers.

Electrical power is converted into the much more desirable acoustical power by two robust, neodymium motor, 18-inch woofers with massive 4-inch (100mm) voice coils. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the ControlBASS software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical	
Loudspeaker Description	Double 18" Self-Powered Vented Direct-Radiating Subwoofer
Frequency Response (±3 dB)	30-100Hz
Maximum Measured Output	136 dB 1m (half-space)
Max SPL (Peak)	139 dB 1m (half-space)
Nominal Dispersion (H° x V°)	360 x 360 – Cardioid Mode Available with Multiple Boxes
Electrical	
Amplification	5000 Watts Class D (2 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 with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 6A or 720W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current consumption, nominal	120V 9A (nominal); 240V 4.5A (nominal)
Signal input connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Direct radiating, vented enclosure, optimally tuned for extended low frequency response with high sensitivity and high power handling
Transducer	2 x 18 in. diameter (457mm) neodymium motor woofers with 4 in. (100mm) voice coils
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 4 steel bar handles. 2 x 35mm steel pole sockets. 4 rubber feet. 4 interlocking foot pockets. 16 X M10 threaded fly points
Dimensions (HxWxD)	22.5 in. x 48 in. x 29.5 in. (23.25 in. high with feet)
Suspension System	16 X M10 Threaded Fly points
Net Weight	199 lbs. (90 kg)
Shipping Weight	230 lbs. (104 kg)
Exterior Finish	High-pressure, rugged, waterproof, textured black bonded polyurea coating
Grille	Perforated, powder-coated steel
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

Optional

Transport Dollies	Birch plywood flat cart with 4 heavy-duty locking casters. 4 pockets to accept the cabinet feet. 7 handles. Transports up to 4 cabinets.
Cover	Heavy-duty padded nylon transport covers for 1or 2 cabinets
Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors

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 included.

Preset 1	30 Hz - 70 Hz
Preset 2	30 Hz - 75 Hz
Preset 3	30 Hz - 80 Hz
Preset 4	35 Hz - 85 Hz
Preset 5	35 Hz - 90 Hz
Preset 6	35 Hz - 95 Hz
Preset 7	40 Hz - 100 Hz (Vinyl/Good Neighbor Mode)*
Preset 8	Cardioid Mode (Use only what cabinet is facing away from the audience.)**

*Preset 7 raises the high-pass filter to 50 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

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

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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.

SSP218-MK3

Double 18"
Powered Subwoofer



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CUT SHEET



SSP215-MK3

Double 15"
Powered Subwoofer

Overview

The SSP215-MK3 combines sensitivity, depth, power handling and fidelity. It offers amazing versatility and practicality for those who need a lot of low end for a wide variety of applications, particularly when space is limited. It delivers output comparable to a double-18" subwoofer from narrow spaces where double-18" subwoofers wouldn't fit.

The SSP215-MK3 is equipped with extremely rugged, very high power handling, long excursion drivers in a carefully optimized cabinet that provides sufficient volume and port area to allow its 15" woofers to deliver as much depth as possible. It provides consistent output with minimal thermal compression thanks to the several effective but transparent protection systems that are part of the integrated signal processing. The multiple protection systems work independently to prevent over-excursion, thermal overload of the voice coils, and minimize long-term thermal compression. Since they work independently, reacting to different stimuli, their effect on the transient response and peak output of the loudspeaker is almost imperceptible.

The SSP215-MK3 achieves extremely flat frequency response, measuring $\pm 1\text{dB}$ from 35Hz to 100Hz. No equalization is utilized to achieve this response. Unlike designs that require equalization to achieve their specified response, the SSP215-MK3's response is part of the cabinet design, so that the sensitivity of the speaker remains consistent through its operating range. This allows it to achieve higher SPL at lower frequencies using less

power than systems that require bass-boost EQ to achieve their stated response. This design philosophy is how BASSBOSS subs can deliver more SPL at lower frequencies without needing more power.

Versatility is one of the SSP215-MK3s greatest strengths. The performance of the SSP215 can be compared to almost any double-18" sub on the market but will fit where they don't. Taking up 50% less space than the SSP218, and delivering almost the same sound levels over very nearly the same frequency range, the SSP215 allows big sound to be hidden in small spaces. If you need a serious sub to fit under a low stage, this is it. If you need to fly a sub under a low ceiling, this is it. If you need a sub to go under a seating or banquette platform, this is it. If you need to hide a sub between roof support beams or Z-bar, this is it. If you need a sub to stand unobtrusively in a corner, this is it.

The enclosures feature four large rubber feet and corresponding recesses in their tops to facilitate interlocking the boxes when stacked. They share the same footprint as the SSP218, so the feet also interlock with the available wheel carts, allowing multiple boxes to be stacked on a cart for rapid deployment with minimal effort. The stacked set's footprint measures 29.5" x 48", making it easy to fit them securely in almost any commercial truck. The carts can accommodate up to 5 subwoofers, allowing for extremely tight truck-pack density. Five, four or three-high stacks or three-high cardioid stacks can be pre-configured on carts, ready to roll in and rock!

The cabinets are made from 18mm Birch plywood, are extensively braced and feature 4 ergonomic recessed handles. They are coated in weatherproof high-pressure Poly urea and the drivers are protected by a powder-coated, perforated steel grille. The cones also feature a waterproof coating.

The SSP215-MK3 features a 5000W amplifier with an auto-sensing, globally compatible power supply that can run on input voltages anywhere between 90 and 250 Volts. Full output

power is available on anything over 110V. The amplifier’s peak-output voltage provides for intense high SPL hits while its sustained output is unparalleled in its ability to deliver the liquid lows. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, two large axial fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

Electrical power is converted into the much more desirable acoustical power by two robust, neodymium motor, 15-inch woofers with 4-inch (100mm) voice coils. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical	
Loudspeaker Description	Double 15" Self-Powered Vented Direct-Radiating Subwoofer
Frequency Response (±3 dB)	35-100Hz
Maximum Measured Output	133 dB 1m (half-space)
Max SPL (Peak)	139 dB 1m (half-space)
Nominal Dispersion (H° x V°)	360 x 360 – Cardioid Mode available with multiple boxes

Electrical

Amplification	5000 Watts Class D (2 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 with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 6A or 720W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 9A (nominal); 240V 4.5A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M - full-range direct pass-through

Physical

Enclosure Type	Direct radiating, vented enclosure, optimally tuned for low frequency response with high sensitivity and high power handling
Transducer	2 x 15 in. diameter (380mm) neodymium motor woofers with 4 in. (100mm) voice coils
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 4 integrated handles. 1 x 35mm steel pole socket. 4 rubber feet. 4 interlocking foot pockets. 16 X M10 threaded fly points
Dimensions (HxWxD)	17.25 in. x 48 in. x 29.5 in. (18.5 in. high with feet)
Suspension System	16 X M10 Threaded Fly points
Net Weight	180 lbs. (82kg)
Shipping Weight	200 lbs. (91 kg)
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black
Grille	Perforated, powder-coated steel

Optional

Transport Dollies	Birch plywood flat cart with 4 heavy-duty locking casters. 4 pockets to accept the cabinet feet. 7 handles. Transports up to 5 cabinets.
Cover	Heavy-duty padded nylon transport covers for 1 cabinet
Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors

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	35 Hz - 70 Hz
Preset 2	35 Hz - 75 Hz
Preset 3	35 Hz - 80 Hz
Preset 4	35 Hz - 85 Hz
Preset 5	35 Hz - 90 Hz
Preset 6	35 Hz - 95 Hz
Preset 7	50 Hz - 90 Hz (Vinyl/Neighbor Mode)*
Preset 8	Cardioid Mode (Use only what cabinet is facing away from the audience.)**

*Preset 7 raises the high-pass filter to 50 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

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

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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.

SSP215-MK3

Double 15"
Powered Subwoofer



Need more assistance?
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CUT SHEET



VS21-MK3

Single 21"
Powered Subwoofer

Overview

The VS21-MK3 Single 21" Powered Subwoofer offers low-frequency extension similar to vented dual 18" subwoofers in combination with the hard hitting punch of horn loaded subwoofers.

The VS21-MK3 brings the world of extended low frequency together with the world of high-impact. You're no longer forced to choose either deep OR punchy, as the VS21 offers both.

The VS21-MK3 is a vented, short horn hybrid sixth order bandpass which features a massive displacement, long excursion 21" woofer, rear-loaded into a large acoustical volume that is tuned to a low frequency, and front-loaded onto a short horn. The vented enclosure section provides extended low frequency performance and the horn section provides increased upper frequency sensitivity and improved transient response.

The VS21-MK3 features a 2500W amplifier with an auto-sensing, globally compatible power supply that can run on mains supplies anywhere between 90 and 250 Volts. Full output power is available on anything over 110V. The amplifier's high peak-output voltage provides for intense high SPL hits while its sustained output is unparalleled in its ability to deliver the liquid lows. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, two blower-fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

New to the MK3 are Neutrik powerCON True 1 TOP (Total Outdoor Protection) waterproof mains connectors. Waterproof mains connectors along with a totally isolated input connection section and cones that are waterproofed make the MK3 series the powered loudspeakers that can be used outdoors without fear of what the weather will bring. (Or used indoors without fear of what the parties bring.)

Electrical power is converted into the much more desirable acoustical power by a robust, neodymium motor, 21-inch woofer with a massive 4.5-inch (115mm) voice coil. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

New to the MK3 is an Ethernet interface. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical

Loudspeaker Description	Single 21" self-powered 6th order hybrid subwoofer
Frequency Response (± 3 dB)	28 - 100Hz
Maximum Measured Output	135 dB 1m (half-space)
Max SPL (Peak)	138 dB 1m (half-space)
Nominal Dispersion ($H^\circ \times V^\circ$)	360 x 360 – Cardioid Mode Available with Multiple Boxes

Electrical

Amplification	2500 Watts Class D
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 with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 10A or 1200W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current consumption, nominal	120V 4.6A (nominal); 240V 2.3A (nominal)
Signal input connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Vented, short-horn hybrid
Transducer	1 x 21 in. diameter (540mm) neodymium motor woofer with 4.5 in. (115mm) voice coil.
Cabinet Construction	CNC machined 18 mm Baltic Birch plywood with extensive bracing and dado joinery with 4 x 35 mm pole sockets, 8 x integrated handles, 12 rubber feet. 8 interlocking foot pockets. 6 X M10 threaded fly points
Dimensions (HxWxD)	36" x 24" x 36" (91.44 cm x 60.96 cm x 91.44 cm) - 37.5" (95.25 cm) high with feet
Net Weight	180 lbs. (82 kg)
Shipping Weight	210 lbs. (104 kg)
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof, textured black
Grille	Perforated, powder-coated steel
Pole Sockets	4 (35 mm) pole sockets
Handles	8 Integrated handles
Feet	12 interlocking rubber feet
Suspension System	16 X M10 threaded fly points

Optional

Transport Dollies (H or V)	Birch plywood flat cart with 4 locking wheels and sockets to accept the cabinet feet. Vertical Transports 1 cabinet. Horizontal Transports up to 3 cabinets.
Cover	Heavy-duty padded nylon transport cover (Vertical)
Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

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	27 Hz - 70 Hz
Preset 2	27 Hz - 75 Hz
Preset 3	27 Hz - 80 Hz
Preset 4	27 Hz - 85 Hz
Preset 5	27 Hz - 90 Hz
Preset 6	27 Hz - 95 Hz
Preset 7	40 Hz - 100 Hz (Vinyl/Good Neighbor Mode)*
Preset 8	Cardioid Mode (Use only what cabinet is facing away from the audience.)**

*Preset 7 raises the high-pass filter to 30 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

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

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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.

VS21-MK3

Single 21" Powered Subwoofer



Need more assistance?
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CUT SHEET



SSP118-MK3

Single 18"
Powered Subwoofer

Overview

The SSP118-MK3 Single 18" Powered Subwoofer gives you low frequency output to 30 Hz, typical of an average Double 18", from a single 18" box. Delivering output to frequencies lower than many double 18" cabinets, each individual SSP118-MK3 does so in about half the space and considerably less weight. This is a very practical consideration from both a size and cost point of view.

If you're a Mobile Professional who strives to provide superior sound quality, the SSP118-MK3 allows you to deliver premium service using less equipment and with less labor. With two SSP118-MK3 Subwoofers, you will have the output of one of the worlds finest Double-18" subwoofers, the BASSBOSS SSP218, divided into two smaller, more manageable pieces.

The cabinets are constructed from 18mm marine-grade Birch plywood. The cabinet is extensively braced and construction features dado and rabbet joinery throughout, so all seams are interlocked and the cabinet is ultra-rigid. The cabinet is finished in an extremely rugged, black poly urea coating and the driver is protected by a black, powder-coated, perforated steel grille.

The SSP118-MK3 features a 2500W amplifier with an auto-sensing, globally compatible power supply that can run on mains supplies anywhere between 90 and 250 Volts. Full output power is available on anything over 110V. The amplifier's high peak-output voltage provides for intense high SPL hits while its sustained output is unparalleled in its ability to deliver the liquid lows. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the ports. When necessary, two blower-fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

New to the MK3 are Neutrik powerCON True 1 TOP (Total Outdoor Protection) waterproof mains connectors. Waterproof mains connectors, along with a totally isolated input connection section and cones that are waterproofed, make the MK3 series the powered loudspeakers that can be used outdoors without fear of what the weather will bring. (Or used indoors without fear of what the parties bring.)

Electrical power is converted into the much more desirable acoustical power by a very robust, neodymium motor, 18-inch woofer with a massive 4.5-inch (115mm) voice coil. Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters, as well as a five-stage limiter system to prevent driver overload in as many ways as possible,

including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load software or firmware updates. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Firmware updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored.

The MK3 DSP features storage capacity for up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation BASSBOSS tops and subs.

Specifications

Acoustical

Description	Single 18" Self-Powered Vented Direct-Radiating Subwoofer
Frequency Response (± 3 dB)	30 - 100 Hz
Maximum Measured Output	130 dB 1m (half-space)
Max SPL (Peak)	133 dB 1m (half-space)
Nominal Dispersion ($H^\circ \times V^\circ$)	360 x 360 – Cardioid Mode Available with Multiple Boxes

Electrical

Amplification	2500 Watts Class D
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 with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.

Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 10A or 1200W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 4.6A (nominal); 240V 2.3A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Direct radiating, vented enclosure, optimally tuned for low frequency response, with high sensitivity and high power handling
Transducer	1 x 18 in. diameter (457mm) neodymium motor woofer with 4.5 in. (115mm) voice coil
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 4 integrated handles. 1 x 35mm steel pole socket. 4 rubber feet. 4 interlocking foot pockets. 8 X M10 threaded fly points
Dimensions (HxWxD)	22.5 in. x 30 in. x 24 in. (23.25 in. high with feet)
Net Weight	125 lbs. (56.7 kg)
Shipping Weight	140 lbs. (63.5 kg)
Exterior Finish	Weatherproof bonded high-pressure polyurea
Grille	Perforated, powder-coated steel
Pole Sockets	1 (35 mm) steel
Handles	4 Integrated handles
Feet	4 interlocking rubber feet
Suspension System	8 X M10 threaded fly points

Optional

Transport Dollies	Birch plywood flat cart with foot pockets to accept the cabinet feet, 4 handles and 4 heavy-duty locking casters. Transports up to 3 stacked cabinets.
Cover	Heavy-duty padded nylon transport cover
Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors
GLL Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

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	30 Hz - 70 Hz
Preset 2	30 Hz - 75 Hz
Preset 3	30 Hz - 80 Hz
Preset 4	30 Hz - 85 Hz
Preset 5	30 Hz - 90 Hz
Preset 6	30 Hz - 95 Hz
Preset 7	40 Hz - 100 Hz (Vinyl/Good Neighbor Mode)*
Preset 8	Cardioid Mode (Use only what cabinet is facing away from the audience.)**

*Preset 7 raises the high-pass filter to 40 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

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

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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.

SSP118-MK3

Single 18"
Powered Subwoofer



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CUT SHEET



DJ18S-MK3

Single 18"
Powered Subwoofer

Overview

The DJ18-MK3 is a premium-quality subwoofer which delivers deep bass at levels far higher than would be expected from its size. Suitable for the truly bass-insatiable who focus on modern music with frequencies well below the usual 50-100Hz range, this compact sub weighs only 110 lbs and delivers output down to 27Hz (-3dB).

The DJ18-MK3 is a single 18-inch direct-radiating subwoofer featuring a long-excursion woofer loaded into a vented enclosure that is optimally tuned to deliver flat frequency response to very low frequencies with high sensitivity. The cabinet was designed to minimize mass and maximize efficiency. The point is to do less heavy lifting and deliver more heavy bass.

The DJ18-MK3 features a 2500W amplifier with an auto-sensing, globally compatible power supply that can run on mains supplies anywhere between 90 and 250 Volts. Full output power is available on anything over 110V. The amplifier's high peak-output voltage provides intense high SPL hits, while its sustained output is unparalleled in its ability to deliver those "liquid" lows.

The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, two blower-fans are engaged to provide additional forced-air cooling capacity in more extreme conditions.

New to the MK3 are Neutrik powerCON True 1 TOP (Total Outdoor Protection) waterproof mains connectors. Waterproof mains connectors, along with a totally isolated input connection section and cones that are waterproofed, make the MK3 series the powered loudspeakers that can be used outdoors without fear of what the weather will bring, or used indoors without fear of what the parties fling.

Electrical power is converted into the much more desirable acoustical power by a robust, neodymium motor, 18-inch woofer with a massive 4.5-inch (115mm) copper-wound voice coil. Neodymium magnets are lighter and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression, and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response, and so allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load software or firmware updates.

Within the ControlBASS software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of groups of loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch, so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical

Loudspeaker Description	Subwoofer, single 18" powered and processed
Frequency Response (± 3 dB)	27 - 100 Hz (Preset dependent)
Maximum Measured Output	129 dB 1m (half-space)
Max SPL (Peak)	132 dB * 1m (half-space)
Nominal Dispersion (H° x V°)	360 x 360 – Cardioid Mode Available with Multiple Boxes

Electrical

Amplification	2500 Watts Class D
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 Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 10A or 1200W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)

Current Draw, Nominal	120V 4.6A (nominal); 240V 2.3A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Direct radiating, vented enclosure tuned for high sensitivity at low frequencies
Transducer	1 x 18 in. diameter (457mm) neodymium motor woofer with 4.5 in. (115mm) voice coil
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 2 integrated handles. 1 x 35mm steel pole socket. 4 rubber feet. 16 T-nuts and bolts for mounting optional casters.
Dimensions (HxWxD)	27.5 in. x 20.5 in. x 29.5 in. (28.75 in. high with feet)
Net Weight	110 lbs. (50 kg)
Shipping Weight	125 lbs. (57 kg)
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black.
Grille	Perforated, powder-coated steel
Pole Sockets	1 (35 mm)
Handles	2 Integrated Handles
Feet	4 rubber feet
Caster Mounts	Attachment points and hardware for four casters are provided on back of cabinet

Optional

Cover	Heavy-duty padded nylon transport cover
What's Included	Locking 4" (100mm) swivel casters kit, 4 pieces
Dollies	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	27 Hz - 70 Hz
Preset 2	27 Hz - 75 Hz
Preset 3	27 Hz - 80 Hz
Preset 4	27 Hz - 85 Hz
Preset 5	30 Hz - 90 Hz
Preset 6	30 Hz - 95 Hz
Preset 7	40 Hz - 100 Hz (Vinyl/Good Neighbor Mode)*
Preset 8	Cardioid Mode (Use only when cabinet is facing away from audience)

*Preset 7 raises the high-pass filter to 40 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

**Preset 8 is the Cardioid mode setting, see manual for more information.

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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.

DJ18S-MK3

Single 18" Powered Subwoofer



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CUT SHEET



BB 15-MK3

Single 15"
Powered Subwoofer

Overview

BASSBOSS continues to push the envelope of design for the “most bass out of the least space” mobile-optimized subwoofers. The compact size and excellent output-to-price ratio of the BB15-MK3 were designed for gigging DJs, home studio bass-heads, or venue owners with limited floor area.

A powerful, easily portable system that delivers superior sound quality, the BB15-MK3 offers remarkably deep bass for its size. An integrated DSP facilitates plug-and-play ease of use while a 2500-watt amplifier and a 4.5” coil neodymium woofer make the compact, lightweight design extremely effective at rockin’ the house. Although only 21” x 17” x 24” and 71 lbs, its output SPL and low-frequency extension capabilities exceed many larger subs.

The BB15-MK3 is the smallest, lightest, and most effective solution for DJs and venues seeking high levels in tight spaces. Perfectly capable of providing high SPL starting from 40Hz, there’s barely any event this little box can’t do. When you want the biggest output from the smallest cab, the BB15-MK3 is your go-to sub.

The BB15-MK3 is a single 15-inch direct-radiating subwoofer featuring a long excursion woofer loaded into a vented enclosure that is tuned to optimize low-frequency output using a large port. The amplifier is loaded at the interior port end to utilize the airflow at high output for additional cooling.

The BB15-MK3 features a 2500W amplifier with an auto-sensing, globally compatible power supply that can run on mains supplies between 90 and 250 Volts. Full output power is available over 110 Volts. The amplifier’s high peak-output voltage provides for intense high SPL hits, and its sustained output is unparalleled in its ability to deliver the punchy lows. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, two blower-fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

Electrical power is converted into the much more desirable acoustical power by a robust, neodymium motor, 15-inch woofer with a massive 4.5-inch (115mm) copper-wound voice coil. Neodymium magnets are lighter, and their higher intensity provides increased efficiency, resulting in a lighter and louder cabinet than those with ferrite drivers.

New to the MK3 are Neutrik powerCON True 1 TOP (Total Outdoor Protection) waterproof mains connectors. These waterproof connectors coupled with a totally isolated input connection section and cones that are waterproofed make the MK3 series powered loudspeakers able to be used outdoors without fear of what the weather will bring, or used indoors without fear of what the partiers bring!

The MK3 features an all-new DSP with a comprehensive suite of processing including high-pass and low-pass filters, as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load settings updates. Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together as well as independently from the levels of other groups of loudspeakers.

In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features a storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 products and are also phase compatible with previous generation tops and subs.

Specifications

Acoustical	
Loudspeaker Description	Single 15" Self-Powered Vented Direct-Radiating Subwoofer
Frequency Response (± 3 dB)	40-115Hz
Maximum Measured Output	127 dB 1m (half-space)
Max SPL (Peak)	130 dB 1m (half-space)
Nominal Dispersion (H° x V°)	360 x 360 - Cardioid mode available with multiple boxes
Electrical	
Amplification	2500 Watt Class D Amplifier
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 Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 10A or 1200W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	4.6A @ 120 Volts, 2.3A @ 240 Volts (Average with music content)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	CNC machined 15mm multi-ply Birch laminate with extensive bracing and dado joinery
Transducer	1 x 15 in. diameter (380mm) Neodymium motor woofer with 4.5 in. (115mm) voice coil
Cabinet Construction	CNC machined 15mm Birch plywood with extensive bracing and dado joinery. 2 integrated handles. 1 x 35mm steel pole socket. 4 rubber feet. 16 T-nuts and bolts for mounting optional casters
Dimensions (HxWxD)	20.5 in (521mm) x 17 in (430mm) x 24 in (610mm) (21.25 in. high with feet)
Net Weight	72 lbs. (32 kg)
Shipping Weight	85 lbs. (38 kg)
Exterior Finish	High-pressure, waterproof. bonded polyurea coating in textured black
Grille	Perforated, powder-coated steel
Pole Sockets	1 (35 mm)
Handles	2 Integrated handles
Feet	4 rubber feet

Optional

Cover	Heavy-duty padded nylon transport covers for 1 cabinet
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card
Dollies	Set of 4 Casters to bolt directly onto the back of the cabinet

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	40 Hz - 70 Hz
Preset 2	40 Hz - 80 Hz
Preset 3	40 Hz - 90 Hz
Preset 4	40 Hz - 100 Hz
Preset 5	40 Hz - 110 Hz
Preset 6	40 Hz - 120 Hz
Preset 7	40 Hz - 100 Hz (Vinyl/Good Neighbor Mode)*
Preset 8	Cardioid Mode (Use only when cabinet is facing away from audience)

*Preset 7 raises the high-pass filter to 45 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaints.

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

Additional presets are accessible through the ControlBASS software. See "How to Use the Presets" section in the manual for more information.

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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BB15-MK3

Single 15"
Powered Subwoofer



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CUT SHEET



AT312-MK3

Triple 12" 3-Way
Powered Loudspeaker

Overview

The AT312-MK3 Top is a co-axial point-source cabinet for medium and short distance coverage where a small footprint and very high fidelity are required. It's compact, simple to use, easy to set up, attractive, and capable of very high output with superbly uncolored sound and natural musical character.

The AT312-MK3 driver complement incorporates dual 12" woofers in a vented enclosure for low frequencies, a 12" driver in a sealed enclosure providing midrange, and, at the center of the midrange cone, a co-axially mounted 1.4" exit compression driver provides the high frequencies. Coverage is 80 degrees conical.

Dual 12" low frequency drivers were chosen to minimize cabinet frontal area while delivering the best possible acceleration and impact in their operating range. Thanks to the narrow frontal area, the AT312-MK3 can provide tremendous output and fidelity while remaining relatively unobtrusive.

The 12" co-axial mid-high section allows the loudspeaker to function as a point-source, with the two additional low-frequency drivers remaining within $\frac{1}{2}$ wavelength in their operating band. This arrangement delivers more consistent off-axis performance than conventional loudspeakers.* The consistency of coverage and the uniformity of the response throughout the coverage area make the AT312-MK3 highly resistant to feedback. The coverage consistency also enhances the loudspeaker's versatility, allowing it to be mounted horizontally or vertically with no compromise in coverage or performance.

This allows the AT312-MK3 to be flown horizontally in venues with low ceilings, or on truss that wouldn't provide enough height

for vertically oriented cabinets or line-arrays. The point-source coherence of the AT312-MK3 provides outstanding intelligibility. A single AT312-MK3 can be used in place of an array of less coherent speakers and provide superior intelligibility.

When the AT312-MK3 is combined with BASSBOSS subwoofers, like the SSP218, SSP215 or ZV28, the result is a 4-way active loudspeaker system with virtually unparalleled resolution and dynamic power for its size.

The simplicity and ease of using these components together will delight anyone who is regularly moving gear. Transportation and set-up of an AT312-MK3/SSP218-MK3 or SSP215-MK3 Subwoofer combination is made easy because the subwoofers serve as a carrier for the tops. The 48" tall AT312 cabinet elevates the mid and high frequency radiators to a minimum of 7'6" on center when stacked on the subwoofers. This very effective, practical, high fidelity, active loudspeaker system can be made ready to play in a few short minutes. In most venues it's possible to roll the system into place, lock the casters, tilt up the tops, plug in the power and signal and have an extremely substantial system set up by just one person.

The AT312-MK3 features 4000W of amplification. With 2400W of its power available for the woofers, 800W available to the midrange and 800W available to the tweeter, power is plentiful. The amp's high peak-output voltage provides for very intense, high SPL hits.

An auto-sensing, globally compatible power supply that can run on input voltages anywhere between 90 and 250 Volts ensure it can work wherever you take it. Full output power is available on anything over 110V. The amplifier is passively cooled via its external heat-sink and by woofer-generated air-flow through the port. When necessary, two blower-fans will engage to provide additional forced-air cooling capacity in more extreme conditions.

Amplifier power is converted into the more desirable acoustical power by two substantial, neodymium motor, 12-inch woofers with 4-inch (100mm) voice coils, a 12" neodymium motor midrange driver with a 3.5" (88mm) voice coil and, on the same neodymium motor, a compression driver with a 3" (76mm) voice coil that exits through the center of the midrange, which features a 1.4" throat machined aluminum conical wave-guide as its pole-piece.

Neodymium magnets are lighter, and their higher intensity provides higher efficiency, so the result is a lighter and louder cabinet than those with ferrite drivers.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of groups of loudspeakers to be adjusted together, and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch, so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

*Any speaker that has the tweeter horizontally or vertically offset from the mid-frequency driver will tend to produce very different frequency response as one moves through its coverage area from the tweeter side to the midrange side. This is due to the different distances the sound has to travel to reach the ears. Due to the co-axial construction of the AT312-MK3, the path length difference between lows, mids and highs is essentially the same in any direction, allowing extremely consistent off-axis response regardless of which direction you move away from directly on center.

Specifications

Acoustical

Loudspeaker Description	3-Way Triple 12" Self-Powered Direct Radiating Co-axial Point Source
Frequency Response (± 3 dB)	60 – 19,000 Hz (preset dependent)
Maximum Measured SPL	133 dB 1m (half-space)
Max calculated SPL (Peak)	139 dB 1m (full-space)
Nominal Dispersion (H° x V°)	80 x 80 (Conical)

Electrical

Amplification	4000W Class D, 3 channel 2400W LF, 800W MF, 800W HF
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 5.4A (nominal); 240V 2.5A (nominal)
Display	LEDs for Power on/ready, Signal, -12dB, -6dB, Limiter Active, Thermal, Protect and LAN Link Active. Eight LEDs indicating selected preset
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	3-way mid-high. Direct radiating, vented enclosure LF section, acoustic suspension MF section with co-axially mounted, horn-loaded HF section
Transducer, LF	2 x 12 in. diameter (300mm) neodymium motor woofer with 4 in. (100mm) voice coil, waterproof cone
Transducer, HF	1 x 3 in. (76mm) diameter diaphragm compression driver with 1.4" (35mm) exit through 80 degree conical wave guide machined from aluminum pole piece in the center of the midrange driver
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 4 M10 fly-points. 6 integrated handles. 1 x 35mm steel pole socket
Suspension System	4 x internally braced M10 threaded mounting points
Grille	Perforated, powder-coated steel
Dimensions (HxWxD)	48 in. x 16 in. (f) x 20 in.
Net Weight	126 lbs. (57 kg)
Shipping Weight	140 lbs. (63.5 kg)
Exterior Finish	Rugged, waterproof, high-pressure bonded polyurea coating textured black
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card

Optional

Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors
Ease/GLL Files	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files
Cover	Heavy-duty padded nylon transport cover
Online Information	bassboss.com/at312

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	60Hz Butterworth 24dB/octave high-pass filter
Preset 2	60Hz Linkwitz-Riley 24dB/octave high-pass filter
Preset 3	70Hz Butterworth 24dB/octave high-pass filter
Preset 4	70Hz Linkwitz-Riley 24dB/octave high-pass filter
Preset 5	80Hz Butterworth 24dB/octave high-pass filter
Preset 6	80Hz Linkwitz-Riley 24dB/octave high-pass filter
Preset 7	90Hz Butterworth 24dB/octave high-pass filter
Preset 8	90Hz Linkwitz-Riley 24dB/octave high-pass filter

All Max SPL presets compatible with BASSBOSS subs

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.

ControlBASS + Settings

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Major new updates are available.

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AT312-MK3

Triple 12" 3-Way
Powered Loudspeaker



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CUT SHEET



AT212-MK3

**Double 12" 2-Way
Powered Loudspeaker**

Overview

The AT212-MK3 is a very high-output, self-powered, internally processed, bi-amplified, 2-way, broad-range loudspeaker. The cabinet is lightweight, the setup is easy and the output is smooth with a natural, musical character. The remarkable power and efficiency of the AT212-MK3 make it ideal for providers who want to deliver high sound pressure levels but prefer not to move heavy cabinets.

Intended for use with a subwoofer system to complete a 3-way active full-range system, the AT212-MK3 has a tall, slim design that allows the HF horn to stand above crowds when the cabinet is stacked on subwoofers. The light weight of the cabinet makes stacking by one person possible. The AT212-MK3 cabinets weigh only 99 lbs.

The AT212-MK3 is a vented cabinet that features two high-efficiency 12" woofers. The woofers feature 3.5" voice coils, Neodymium magnets, cast aluminum baskets and ultra-light cones. The compression driver also features a Neodymium motor structure with a 3" voice coil. It is mated to a 1.4" throat, cast aluminum horn. The horn is rotatable, providing 80 x 60 degree coverage for multiple applications including ground stack and horizontal or vertical flying.

The AT212-MK3 is the ultimate in plug and play, with universal voltage compatibility and no need for any outboard gear, other than a sound source. The built-in processing features presets that allow it to run in multiple configurations. Each preset offers advantages that suit specific applications and preferences.

Power is supplied by an amplifier that can deliver output peaks of 163V, to provide amazing dynamic resolution and impact. The fully integrated and comprehensive digital processing ensures smooth response and reliable operation thanks to meticulous filter alignments and five-stage limiters that protect the drivers from excessive excursion, thermal overload and clipping. The amplifier features a large heat sink and 2 temperature-controlled fans to ensure consistent operation, even under the most extreme conditions.

The cones are waterproofed to protect them from accidental exposure to moisture such as rain or spilled beverages. Weather resistant, IP65 rated power connectors, an internally sealed input section and waterproof-treated cones are provided to allow operation where rain might be encountered.

The cabinet is built from 18mm and 15mm Birch plywood. It features an 18mm baffle and 18mm top and bottom, with 15mm sides, port walls and braces, all assembled with dado joinery. The cabinet includes 4 steel bar-handles, 4 internally braced steel M10 fly points and a 35mm (1-3/8") cast metal pole socket. Although the AT212 cabinet is equipped with a 35mm steel pole socket, DO NOT use this speaker on a tripod or extension pole. This socket is to be used with a special, short section of pole to prevent it from moving once stacked on a subwoofer.

The MK3 features an all-new DSP. The comprehensive suite of processing includes multiple presets, each including multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. There are five levels of protection that actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

Each preset has a specific high-pass filter frequency and alignment filters that ensure it's output is always phase coherent with any BASSBOSS sub. No matter which preset you choose, your BASSBOSS subs and tops will always play in harmony.

The full-range mode, Preset 1, provides response down to 50Hz (-3dB). Each successive preset filters the lows out at higher frequencies. As low-frequency demand is reduced, higher sound levels can be achieved, allowing the AT212-MK3 to be used above multiple subwoofers.

Not including Cardioid, there are up to 56 possible combinations when MK3 tops are used with MK3 subs, but don't worry, all are compatible. You can't choose a "wrong" preset, you simply choose the combination you like best.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of groups of loudspeakers to be adjusted together, and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch, so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical

Loudspeaker Description	2-way Double 12" Self-powered Vented Direct-radiating Full-range with rotatable 80 x 60 degree Constant Directivity Horn
Frequency Response (± 3 dB)	50 – 18,000Hz
Max Sustained Output	136 dB 1m (full-space)
Maximum Measured Output	142 dB 1m (full-space)
Nominal Dispersion (H° x V°)	80 x 60 (Rotatable)

Electrical

Amplification	3200 W Class D, 2 channel; 2400W LF - 800W HF
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 Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 10A or 1200W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)

Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 4.6A (nominal); 240V 2.3A (nominal)
Display	LEDs for Power on/ready, Signal, -12dB, -6dB, limiter active, Thermal, Protect and LAN link active. Eight LEDs indicating selected preset
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M pass-through
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	2-way, Active, Broad Range. Direct radiating vented LF section, horn-loaded HF section
Transducer, LF	2 x 12 in. diameter (300mm) neodymium motor woofer with 3.5 in. (88mm) voice coils, waterproof cone
Transducer, HF	1 x 3 in. (76mm) diameter diaphragm compression driver with 1.4" (35mm) exit mounted to 80 by 60 degree constant directivity horn
Cabinet Construction	CNC machined 18 and 15mm Birch plywood with extensive bracing and dado joinery. 4 x M10 fly-points. 4 x steel bar handles. 1 x 35mm steel pole socket
Suspension System	4 x internally braced M10 threaded mounting points
Grille	Perforated, powder-coated steel
Dimensions (HxWxD)	47.75 in. x 14.3 in. x 17.75 in. with 5.3 in. wide rear
Net Weight	99 lbs. (45 kg)
Shipping Weight	109 lbs. (50 kg)
Exterior Finish	Rugged, waterproof, high-pressure bonded polyurea coating textured black

Optional

What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card
Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors
Cover	Heavy-duty padded nylon transport cover
Loop-through PowerCON TOP	Power jumper for chaining power between adjacent cabinets
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

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Pre-Installed Onboard Presets

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

Preset 1 45Hz high-pass filter

Recommended for use when no sub is available.
Peak output is restricted to prevent low frequencies damaging the loudspeaker.

Preset 2 55Hz high-pass filter

Preset 3 65Hz high-pass filter

Preset 4 75Hz high-pass filter

Preset 5 85Hz high-pass filter

Preset 6 95Hz high-pass filter

Preset 7 105Hz high-pass filter

Preset 8 115Hz high-pass filter

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.

ControlBASS + Settings

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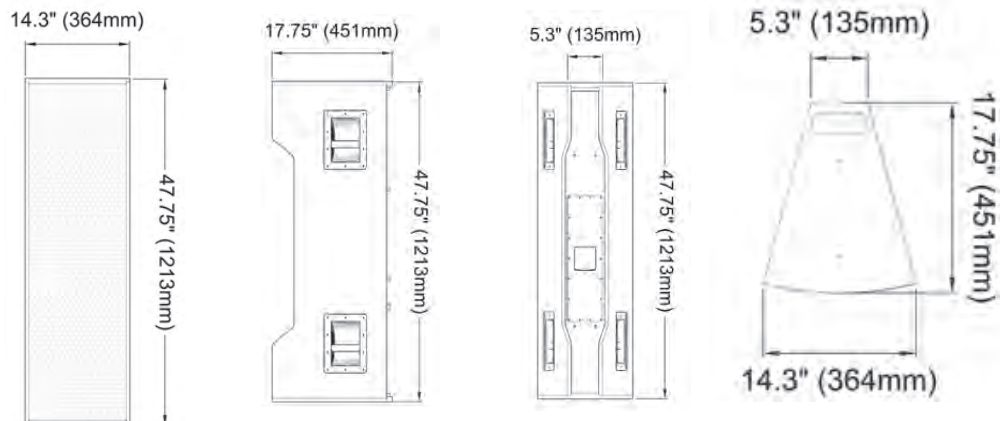
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AT212-MK3

Double 12" 2-Way
Powered Loudspeaker



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CUT SHEET



DV12-MK3

Single 12"
Powered Loudspeaker

Overview

The clear choice for mobile professionals who care about quality and performance, the DV12-MK3 uses a line-array derived 1.4" throat isophasic wave guide instead of a conventional horn to work its magic. Coupled to the wave-guide is a 3" diaphragm, Neodymium motor compression driver. This combination provides effortlessly high SPL over a wide and consistent horizontal coverage of 120° with a tight vertical pattern of 20°. This extends high frequency intelligibility farther than a conventional horn and allows for two arrayed cabinets to provide coherent, line-array style performance.

The lower frequencies are produced by a 12" woofer that features a Neodymium magnet for light weight and high efficiency, a 4" voice coil for high power handling, and a symmetrical, long-excursion suspension for accurate and extended bass response – so much bass response it could easily serve as a sub driver.

Power is supplied by an amplifier that can deliver output peaks of 163V, to provide amazing dynamic resolution and impact. The fully integrated and comprehensive digital processing ensures smooth response and reliable operation thanks to meticulous filter alignments and five- stage limiters that protect the drivers from excessive peaks, and also from thermal overload, by monitoring real power output over time. The amplifier features a large heat sink and two temperature-controlled fans to ensure consistent operation under even the most extreme conditions.

The DV12-MK3 is the ultimate in plug and play, with universal voltage compatibility and no need for any outboard gear other than a sound source. The processing features presets that allow it to run in multiple configurations. The full-range mode, Preset 1, provides

response down to 40Hz (-3dB). Each successive preset filters the lows out at higher frequencies, allowing the DV12-MK3 extend the output available and be perfectly integrated with all BASSBOSS subwoofers.

Each preset has a specific high-pass filter frequency and alignment filters that ensure it's always phase coherent with any BASSBOSS sub. As low-frequency demand is reduced, higher sound levels can be achieved. In the higher presets, this allows each DV12 to provide enough mid-high power for multiple subwoofers. The DV12-MK3 can be combined with any BASSBOSS subwoofer because all the presets are programmed to align with all the subs. Each preset offers advantages that suit certain applications and preferences. No matter which preset you choose, your BASSBOSS subs and tops will always play in harmony.

The cabinet is made from 15mm Birch and features extensive bracing for additional rigidity. The design incorporates a 4-degree down-angle, ensuring the even distribution of high-frequency energy from the front to the back of a venue when the DV12-MK3 is placed at the appropriate height on a tripod or support pole. Additional features include a 35mm (1-3/8") steel pole socket, eight fly points and six handles. The amplifier is recessed from the back of the cabinet to protect it in transit. A perforated steel grille protects the woofer, and its progressive perforation pattern serves to broaden midrange dispersion. The high-frequency lens and port are left clear of the grille to minimize reflections and air flow noise that could compromise sound quality.

If greater output is needed the DV12-MK3 has an invertible array feature that allows the perfect summing of two speakers, which provides a big increase in output and projection without compromising the crystal clarity. This is an additional benefit of the line-array wave guides. When two DV12-MK3s are vertically stacked with the HF lenses adjacent (top cabinet inverted) the high-frequency sections of the two boxes sum perfectly, as they would in a line-array, while the low-frequency sections sum in a column for improved low-frequency directivity and greatly increased output. Compared to conventionally arrayed boxes, this results in 3dB more SPL and much smoother response in the high-frequency ranges.

The MK3 features an all-new DSP. The comprehensive suite of processing includes high-pass and low-pass filters as well as multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. The five levels of protection actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software and settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of multiple loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical

Loudspeaker Description	2-Way Active Single 12" Self Powered, Vented, Direct-radiating Full-range
Frequency Response (± 3 dB)	45 – 19,000Hz
Maximum Sustained Output	128 dB 1m (full-space)
Max SPL (Peak)	134 dB 1m (full-space)
Nominal Dispersion (H° x V°)	120 x 20

Electrical

Amplification	3200 W Class D, 2 channel; 2400W LF - 800W HF
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 Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)

Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 4.6A (nominal); 240V 2.3A (nominal)
Display	LEDs for Power on/ready, Signal, -12dB, -6dB, limiter active, Thermal, Protect and LAN link active. Eight LEDs indicating selected preset
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M pass-through
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	Self-powered, bi-amplified, 2-way full-range. Direct radiating vented LF section, wave-guide-loaded HF section
Transducer, LF	1 x 12" diameter (300mm) neodymium motor woofer with 4" (100mm) voice coil
Transducer, HF	1 x 3 in. (76mm) diameter diaphragm compression driver with 1.4" (35mm) exit mounted to isophasic wave guide
Cabinet Construction	CNC machined 15mm Birch plywood with internal bracing and dado joinery. 8 M10 fly points. 1 x 35mm steel pole socket
Suspension Points	8 x internally braced M10 threaded mounting points
Dimensions (HxWxD)	24.63" x 14.5" x 19.1" (62.6 cm x 36 cm x 48.5 cm)
Net Weight	63 lbs. (28 kg)
Shipping Weight	74 lbs. (33 kg)
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black

Optional

Hardware	Stacking Bracket mounts second cabinet inverted for near-perfect summed response and line-array style performance. Provides splay-angle adjustment from 0 to 8 degrees. Flying Bracket Two DV12s can be arrayed together and flown from the DV12 array flying bracket. M10 Shoulder Eye Bolts, M10 Side-Pull anchors
Grille	Perforated, powder-coated steel
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card
Side-pull anchors	Use when connecting to the side anchor points
Cover	Heavy-duty padded nylon transport cover
Loop-through PowerCON TOP	Power jumper for chaining power between stacked cabinets
Online Information	bassboss.com/dv12

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

Pre-Installed Onboard Presets

All presets include phase compensation for integration with BASSBOSS subwoofers.

Each preset moves the operational range of the speaker up by 10Hz, starting with the lowest frequency of 50Hz in Preset 1. Higher SPL is available from higher presets.*

Preset 1	50Hz (Maximum LF extension)
Preset 2	60Hz
Preset 3	70Hz
Preset 4	80Hz
Preset 5	90Hz
Preset 6	100Hz
Preset 7	110Hz
Preset 8	120Hz (Maximum SPL Capability)

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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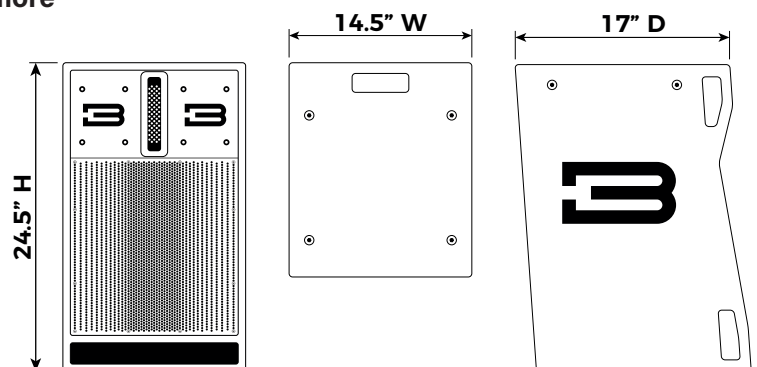
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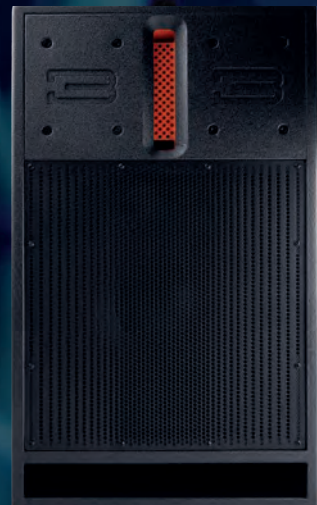
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DV12-MK3

Single 12"
Powered Loudspeaker

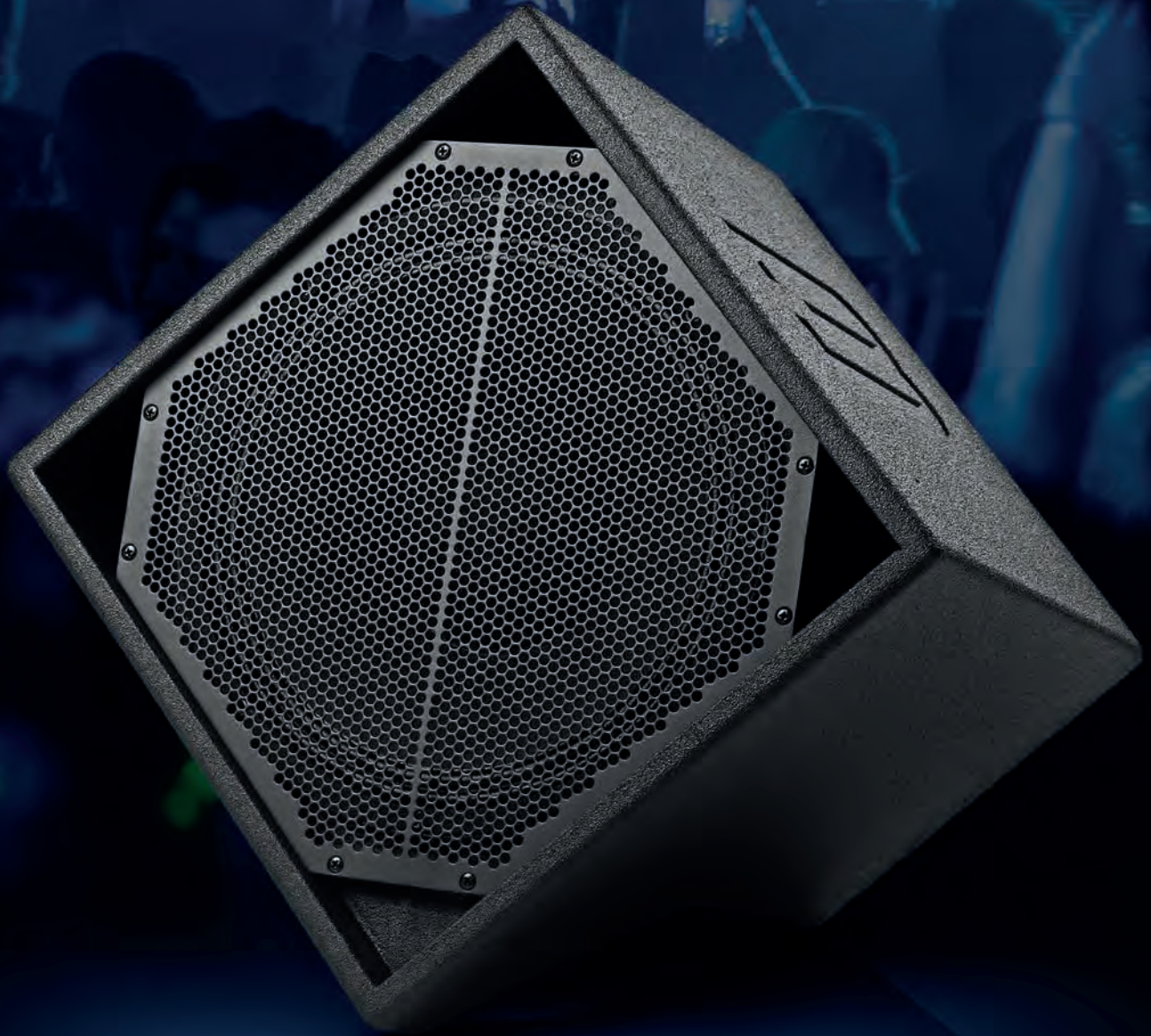


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CUT SHEET



DIAMON-MK3

Single 12"
Powered Top

Overview

The DiaMon-MK3 is a high-output, point-source loudspeaker that can make your life easier thanks to its remarkably small size. This very compact and portable system provides impressive output without ever having to lift a large, heavy cabinet.

In terms of output SPL relative to size, the DiaMon-MK3 has virtually no competitors. The compact, high fidelity and high output DiaMon-MK3 continues the BASSBOSS tradition of delivering remarkable output capability and outstanding sound quality. Achieving this level of performance from such a small enclosure is made possible by making decidedly different design and component choices.

The cabinet is made from Birch plywood, which is strong and solid, and the small size makes it very easily portable. The small size is made possible by the use of a co-axial driver in a sealed enclosure. With the high-frequencies exiting co-axially through the center of the woofer, no extra space is required for the addition of a high-frequency horn.

The low and midrange frequencies are produced by a high-sensitivity 12" cone woofer with a 3" voice coil and a

neodymium magnet. The same magnet is used for the 3" diaphragm high-frequency compression driver, the 1.4" output of which passes through the woofer's pole-piece. The inner surface of the pole-piece is machined into the shape of a horn. The woofer cone is the continuation of that horn, making it possible to generate very high output from a very small total surface area.

The resulting coverage pattern is 80 degrees conical, permitting a large coverage area and a great deal of placement options. A significant advantage of co-axial loudspeakers is the consistency of their off-axis response. Aside from delivering a more consistent and intelligible sound field, this also makes them much more resistant to feedback.

The amplifier features a Class D SMPS with PFC, providing two channels, 900W LF and 300W HF. Eight on-board presets allow for a variety of configurations at the touch of a button, and LAN connectivity allows access to virtually unlimited preset combinations.

On-board presets provide a variety of high-pass filters to suit full-range operation through a variety of settings that maximize SPL when used with a subwoofer. The sealed enclosure provides the flexibility to choose between low-frequency extension or high-SPL operation from the same compact loudspeaker.

When used with subs in high-SPL presets, remarkably large events and venues can be covered with these tops that measure just 14" x 14" x 11" and weigh less than 30 pounds.

The proprietary BASSBOSS processing ensures exceptional sound quality thanks to its premium quality, high-fidelity electronics. Its ultra-low noise CODECS, 96kHz sampling rate processor and high-resolution amplification are some of the finest in the industry.

BASSBOSS loudspeakers are protected for safe, high-power operation. Optimized signal processing, premium quality drivers, power-matched amplification and comprehensive protections ensure that no matter the demand, they keep their cool, keep their character and keep on working.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

The Birch wood cabinet features a 35mm steel pole socket and is finished in durable, high-pressure poly urea coating. Power, signal and data connectors are hidden on the bottom panel, providing a clean, tidy look that maintains the compact aesthetic.

Specifications

Acoustical

Loudspeaker Description	2-Way Single 12" Self-Powered Direct Radiating Co-axial Point Source Mid-High
Frequency Response (± 3 dB)	50Hz - 19kHz (Full Range - Preset 1)
Maximum Sustained Output	123 dB 1m (half-space)
Max SPL (Peak)	126 dB 1m (full-space) (Limited in full-range)
Nominal Dispersion (H° x V°)	80 x 80 (Conical)

Electrical

Amplification	1200 W Class D, 2 Channel
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 Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.

Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 1.4A (nominal); 240V 0.7A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M (pass-through only)
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	2-way active mid-high. Direct radiating sealed 12" LF, co-axial horn-loaded HF
Transducer, LF	1 x 12 in. diameter (300mm) neodymium motor woofer with 3 in. (76 mm) copper winding voice coil
Transducer, HF	1 x 3 in. (76mm) diameter diaphragm compression driver with 1.4" (35mm) exit through 80 degree conical wave guide machined from aluminum pole piece in the center of the midrange driver
Cabinet Construction	CNC machined 18 and 15mm Birch plywood with dado joinery. 1 x 35mm steel pole socket
Dimensions (HxWxD)	14 in. (35.5cm) x 14 in. (35.5cm) x 11 in. (28cm)
Net Weight	30 lbs (13.5kg)
Shipping Weight	35 lbs (16kg)
Exterior Finish	Rugged, waterproof, high-pressure bonded polyurea coating textured black
Grill	Perforated, powder-coated steel
Pole Socket	35mm, Steel

Optional

Cover	Heavy-duty padded nylon transport cover
Hardware	Ceiling Mounts, Wall Mounts
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

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Pre-Installed Onboard Presets

All presets include phase compensation for integration with BASSBOSS subwoofers.

Each preset moves the operational range of the speaker up by 10Hz, starting with the lowest frequency of 50Hz in Preset 1. Higher SPL is available from higher presets.*

Preset 1	50Hz (Maximum LF extension)
Preset 2	60Hz
Preset 3	70Hz
Preset 4	80Hz
Preset 5	90Hz
Preset 6	100Hz
Preset 7	110Hz
Preset 8	120Hz (Maximum SPL Capability)

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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DIAMON-MK3

Single 12"
Powered Top



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CUT SHEET



SV9-MK3

Single 9"
Powered Top

Overview

The SV9-MK3 is a studio-reference quality monitor that can venture outside the studio thanks to a rugged finish, handles, grilles and a substantial amount of power. The result is a very compact and portable system for those who demand premium quality and impressive output without oversized, heavy and obtrusive cabinets.

The compact, high fidelity and high output SV9-MK3 continues the BASSBOSS tradition of delivering remarkable performance and outstanding sound quality. In terms of output SPL and frequency response, the SV9-MK3 compares to much larger loudspeakers. Such performance from a much smaller enclosure is made possible by making decidedly different design and component choices than competitors.

The Birch plywood enclosure is strong and solid while remaining easily portable. The 9" woofer features a large voice coil, providing high power-handling, and a rubber surround for extended low-frequency response. The port has a large area to keep air velocity low, and its exit is clear of the grille to ensure minimal air-flow noise.

The low and midrange frequencies are delivered by a custom developed carbon-fiber cone, 9" Neodymium LF driver. The 2.5" voice-coil offers high

power handling and provides large displacement for increased LF output. The ultra-light carbon-fiber cone provides high sensitivity, with its rigidity contributing detailed resolution.

The high frequencies are delivered by a 1.4" voice-coil polyester diaphragm compression driver through a 1" throat horn with a 90 x 60 degree coverage pattern. The polyester diaphragm provides smooth response without the ringing and resulting harshness that can characterize metal diaphragms. The horn is deliberately placed clear of the grille and flush with the front of the cabinet in order to avoid reflections that would tend to blur imaging or otherwise interfere with smooth high-frequency response.

The amplifier offers abundant headroom. The proprietary BASSBOSS processing ensures exceptional sound quality and reliability. The cabinet construction, design, and premium components all contribute to the rich, smooth, sound.

The SV9-MK3 is suitable for use as a studio monitor thanks to its flat frequency response and premium quality, high-fidelity electronics. Its ultra-low noise CODECS, 96kHz sampling rate processor and high-resolution amplification are on par with the finest studio monitors in the industry.

What sets it apart from most compact monitors is the power it provides. The amplifier power, along with the processing power, allow it to be used at higher levels than you would dare with an ordinary studio monitor. Now you can take your studio-quality sound with you when you leave the studio.

The amplifier features a Class D SMPS with PFC, providing two channels, 900W LF and 300W HF. Eight on-board presets allow for a variety of configurations at the touch of a button, and LAN connectivity allows access to virtually unlimited preset combinations. On-board presets provide a variety of high-pass filters to suit full-range operation through a variety of settings that maximize SPL when used with a subwoofer.

With an enclosure that is just 18" x 10" x 15" and a mere 27. pounds smaller events can be covered with ease. The Birch wood cabinet features integrated handles, a 35mm steel pole socket, and is finished in durable, high-pressure polyurea coating.

BASSBOSS loudspeakers are protected for safe, high-power operation. Optimized cabinet design, premium quality drivers, power-matched amplification and comprehensive processing ensure that no matter the demand, they keep their cool, keep their character and keep on working.

Specifications

Acoustical

Loudspeaker Description	2-way active, Single 9" Self Powered, Vented, Direct-radiating Full-range
Frequency Response (±3 dB)	50 – 19,000Hz
Maximum Measured SPL	118 dB 1m (full-space)
Max calculated SPL (Peak)	121 dB 1m (full-space)
Nominal Dispersion (H° x V°)	90 x 60 (Rotatable)

Electrical

Amplification	1200 Watts Class D, 2 Channel
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 Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.

Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 13A or 1600W @120V. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug; NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 1.4A (nominal); 240V 0.7A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M pass-through only
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	2-way full-range/mid-high. Direct radiating vented LF section, horn-loaded HF section
Transducer (LF)	1 x 9 in. diameter (220mm) neodymium motor woofer with 2.5 in. (64mm) copper winding voice coil and carbon-fiber cone
Transducer (HF)	1.5 in. (38mm) diaphragm compression driver on 1 in. (25mm) throat 90 x 60 degree constant directivity horn
Cabinet Construction	CNC machined 15mm Birch plywood with extensive bracing and dado joinery. 2 integrated handles. 1 x 35mm steel pole socket
Dimensions (HxWxD)	18 in. x 10 in. (7 in. rear) x 15 in. (45.7cm x 25.4 cm [17.78 cm rear] x 38.1 cm)
Net Weight	27.5 lbs (12.8 kg)
Shipping Weight	31 lbs (14 kg)
Exterior Finish	High-pressure, bonded polyurea coating, waterproof, textured black
Grille	Perforated, powder-coated steel

Optional

Cover/Carrier	Heavy-duty padded nylon transport cover
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 45Hz high-pass filter

Recommended for use when no sub is available.
Peak output is restricted to prevent low frequencies damaging the loudspeaker.

Preset 2 55Hz high-pass filter

Preset 3 65Hz high-pass filter

Preset 4 75Hz high-pass filter

Preset 5 85Hz high-pass filter

Preset 6 95Hz high-pass filter

Preset 7 105Hz high-pass filter

Preset 8 115Hz high-pass filter

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.

ControlBASS + Settings

For improved performance and stability, update the product settings immediately after opening your new gear!

Major new updates are available.

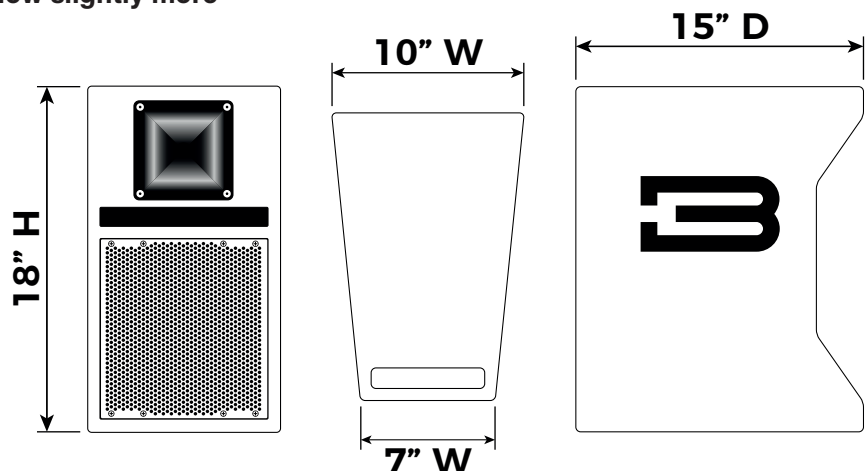
Download new settings updates and the ControlBASS app at bassboss.com/software

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



SV9-MK3

Single 9"
Powered Top



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

help.bassboss.com



CUT SHEET



CCM12-MK3

Single 12"
Powered Monitor

Overview

The CCM12-MK3 is a Compact Coaxial Monitor with a host of features intended for professional performers which also functions as an excellent main or fill monitor for venues with limited space.

C = Compact - Small footprint, small frontal area, lightweight. The front of the cabinet is 50% smaller than most 12" monitors that have a separate tweeter horn. This takes up less space on stage, and anywhere else you might want the power of a 12" 2-way monitor. The driver features a Neodymium motor and the class D amplifier has a lightweight, switch-mode power supply. The cabinet is 15mm Birch plywood, which is heavier than plastic, but the strength of the wood allows the cabinet to be made smaller, and sound better.

C=Co-Axial-Absolutelyconsistentcoverage pattern, highly resistant to feedback. This co-axial driver delivers an 80-degree conical coverage pattern that is consistent off-axis. The advantage to this is two-fold. First, the consistency allows the performer or listener the freedom to move around within the pattern without the character of the sound changing. Conventional 2-way monitors have the tweeter above, to the side or below the woofer. This results in a different frequency response as you move left to right or forward and back. It's much more difficult to prevent conventional monitors from feeding back because the response peaks change in frequency as you move through

their inconsistent patterns, leaving you chasing feedback every time a mic moves. A co-axial is far more consistent no matter where you move, which is better for performers and audiences alike. Aside from delivering a more consistent and intelligible sound field the biggest advantage of the consistency of the symmetrical pattern co-axial monitor is its relative immunity to feedback.

M = Monitor - 3 different upward angles plus straight ahead with fly-points and brackets for ceiling and wall mounting. It has 3 different upward angles. The first angle is set up for standing performers who like their monitors at their feet. This is ideal for vocalists with or without instruments who need clear monitors when they step up to the mic and appreciate being able to step back out of the monitor coverage when they want to.

The second angle is for seated performers that need the coverage to be aimed a little lower. Whether playing keyboards, drums or slide-guitar, the monitor should be pointed at your head, not over your head. This lower angle can also be used to cover a larger area farther from the monitors, such as for a choir, background vocalists or a horn section.

The third angle is for placement on a subwoofer or a table. This is ideal for drummers who want the monitor on a sub or anyone who works with electronics on a table and wants near-field monitors they can put on their work surface to aim them in the right direction.

There's one more placement angle for the CCM-MK3 to be used as a monitor in the straight ahead placement. The CCM-MK3 has a pole socket that allows it to be used on a stick above a sub or on a tripod for DJ monitors or stage side-fills. While it's not strictly a "monitor" position, the CCM-MK3 can also be used as a front-fill on the stage edge or on that center-cluster

subwoofer array. And when you need a monitor mounted to the wall or to the ceiling, the CCM-MK3 has M10 fly-points. The internally reinforced fly-points can also be used to attach the CCM-MK3 to a wall or ceiling mounted bracket.

12" = 12" woofer with a 3" voice coil delivers the low frequencies. A 3" coil, 1.4" throat compression driver firing through the center delivers the highs. The cone of the woofer serves as an extension of the machined aluminum conical horn that comprises the woofer's pole piece, making it possible to generate high output from a very small total surface area. Both share a common Neodymium motor structure and a cast aluminum basket. The woofer is housed in a sealed Birch enclosure to provide extendable frequency response, consistent phase response and tight transient response.

MK3 = Completely integrated processing. Eight on-board presets allow for a variety of configurations at the touch of a button. The on-board presets provide a variety of settings that are optimized for floor-monitor duty, including settings that account for the boundary loading at each wedge angle as well as settings to extend LF output with limited SPL and to maximize SPL when used with a subwoofer. The proprietary BASSBOSS processing ensures exceptional sound quality thanks to its premium quality, high-fidelity electronics. Its ultra-low noise CODECS, 96kHz sampling rate processor and high-resolution amplification are some of the finest in the industry.

Powered Loudspeaker = The amplifier in the CCM-MK3 features a Class D SMPS with PFC, providing two channels, 900W LF and 300W HF. Yes, this is a bi-amped wedge. The sealed enclosure provides the flexibility to choose between low-frequency extension or high-SPL operation from the same compact loudspeaker. BASSBOSS loudspeakers are protected for safe, high-power operation. Optimized signal processing, premium quality drivers, power-matched amplification and comprehensive protections ensure that no matter the demand, they keep their cool, keep their character and keep on working.

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load the ControlBASS software settings updates. The Ethernet connectivity in conjunction with the DSP board allows signal to be sent via Milan AVB. Future settings updates will provide access to this feature.

Within the software, multiple cabinets can be grouped together, allowing them to respond to commands simultaneously. This permits the levels of groups of loudspeakers to be adjusted together, and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch, so multiple cabinets can be chained on the same data cable.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

Specifications

Acoustical

Loudspeaker Description	2-way active 12" monitor with presets for full-range and mid-high operation
Frequency Response (± 3 dB)	50Hz - 19kHz (Full Range - Preset 1)
Maximum Sustained Output	123 dB 1m (full-space)
Max SPL (Peak)	126 dB 1m (full-space)
Nominal Dispersion (H° x V°)	80 x 80 (Conical)

Electrical

Amplification	1200 W Class D, 2 Channel
Processing	Integrated comprehensive DSP provides all necessary high-pass and low pass filters, equalization, phase alignment and limiting
Electrical Connectors, Amp	Neutrik powerCON True 1 TOP input and pass-through
Electrical Connector, Mains	USA 3-pin grounding 120V electrical plug NEMA 5-15; Export connectors provided
Voltage Operating Range	100 - 240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 1.4A (nominal); 240V 0.7A (nominal)
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M (pass-through only)
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

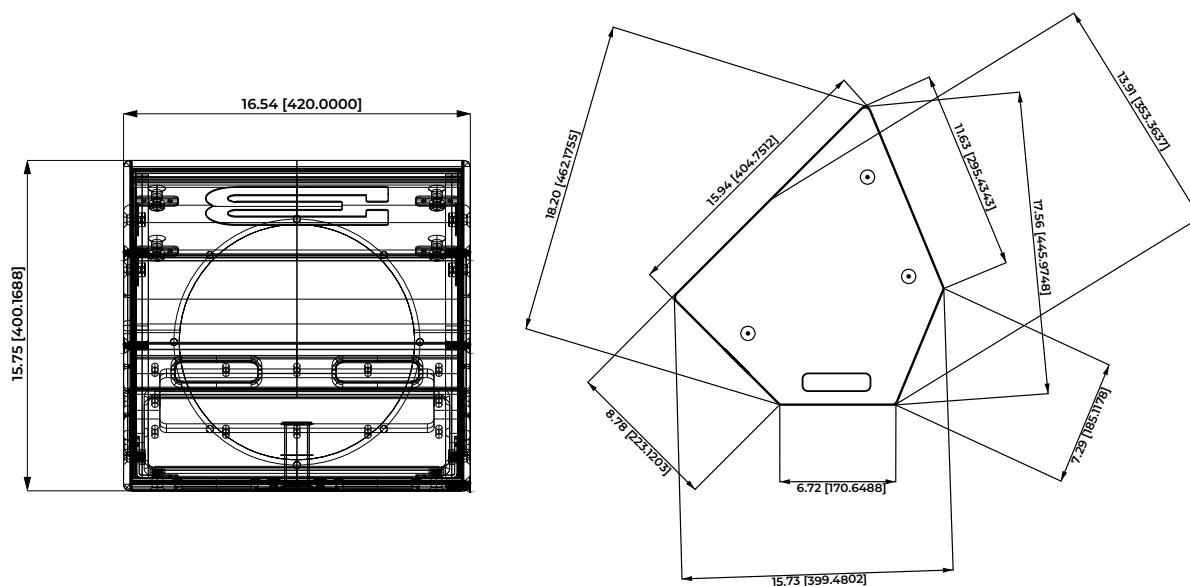
Enclosure Type	Sealed direct radiating low-frequency section and co-axially horn-loaded high-frequency section
Transducer, LF	1 x 12 in. diameter (300 mm) neodymium motor woofer with 3 in. (76mm) copper voice coil
Transducer, HF	3 in. (76mm) diaphragm compression driver on 1.4 in. throat 80-degree conical horn
Cabinet Construction	15 mm Birch plywood. Dado joinery. Equipped with a 35mm steel pole socket
Dimensions (HxWxD)	14 in. (35.5cm) x 14 in. (35.5cm) x 11 in. (28cm)
Net Weight	30 lbs (13.5kg)
Shipping Weight	35 lbs (16kg)

Exterior Finish	Rugged, waterproof, high-pressure bonded polyurea coating textured black
Grill	Perforated, powder-coated steel with hydrophobic cloth liner
Pole Socket	35mm Steel
GLL/Ease File	help.bassboss.com/portal/en/kb/articles/bassboss-ease-gll-files

Optional

Cover	Heavy-duty padded nylon transport cover and carrying bag
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	Standing Performer*
Preset 2	Standing Performer, max SPL
Preset 3	Seated Performer*
Preset 4	Seated Performer, max SPL
Preset 5	Tabletop full-range*
Preset 6	Tabletop Max SPL (use on or with sub(s))
Preset 7	Straight Forward Full Range*
Preset 8	Straight Forward Max SPL (use with sub(s))

All Max SPL presets compatible with BASSBOSS subs

All Max SPL presets are compatible with all BASSBOSS subwoofer models

Additional presets are accessible through software.

See "How to Use the Presets" section for more information.

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.

ControlBASS + Settings

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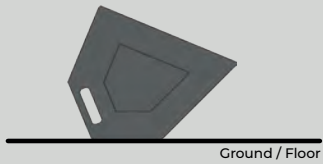
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Register your gear
bassboss.com/support

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

How to Use the Presets

1.

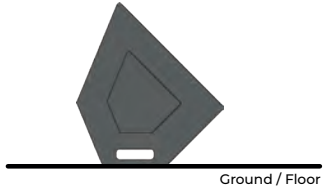


Position 1 -

Ideal for Standing Performers, use :

- Preset 1 (Full-Range)
- Preset 4 (High-passed)

2.

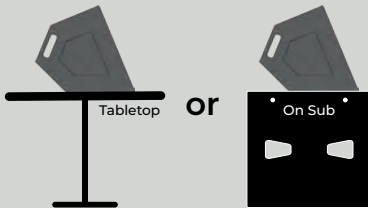


Position 2 -

Ideal for Seated Performers, use :

- Preset 3 (Full-Range)
- Preset 4 (High-passed)

3.

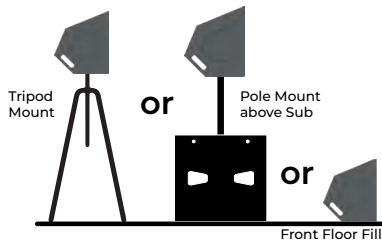


Position 3 -

Ideal for Tabletop Placement or for placement on a Subwoofer as a Drum Monitor, use :

- Preset 5 (Full-Range)
- Preset 6 (High-passed)

4.

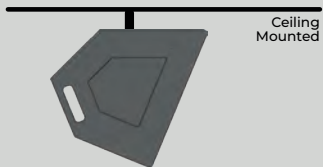


Position 4 -

For Tripod Placement, For Pole Mounting above a sub, or For Front Fill, use :

- Preset 7 (Full-Range)
- Preset 8 (High-passed)

5.

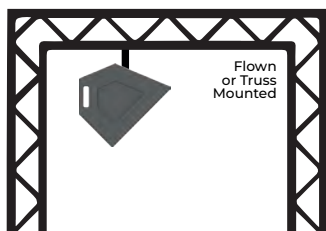


Ceiling Mounting -

For Ceiling Mounting, use :

- Preset 5 (Full-Range)
- Preset 6 (High-passed)

6.



Flown or Truss Mounted -

For Flown or Truss Mounted, use :

- Preset 7 (Full-Range)
- Preset 8 (High-passed)

CCM12-MK3

Single 12" Powered Monitor



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

help.bassboss.com



CUT SHEET



KRAKATOA-MK3

Quintuple 18" 4-Way Co-Axial
Point Source Powered Loudspeaker

Overview

Is it possible to deliver high-quality sound across the entire audible frequency spectrum from a single point source? The term “point source” refers to a concept in which all the reproduced sound emanates from a single point in space. This is impossible with current technology because speakers take up physical space, so the best-case scenario is to place all the drivers as close together as physically possible. The challenge to the designer, then, is how to achieve the impossible.

But first, what are the advantages of point-source? The source of a sound, such as a spoken word or a note from an instrument, emanates from a single point, and human hearing evolved to recognize, interpret and understand sounds as having come from a single source point. In other words, sounds coming from a single, coherent source are more easily and more naturally intelligible.

The reason coherence matters is because we recognize direction and location because of subtle differences in arrival time and amplitude as sound enters both of our ears. The difference between the information provided by each ear allows our brains to calculate where the sound came from and also what the sound means. These are what provide the cues for imaging and sound stage.

When a loudspeaker has multiple drivers, each producing a different segment of the total sound spectrum, each located a different distance from the ear, and therefore each segment arriving at a different time to each ear, our brains don't get the same clarity of information as when all the sound arrives at the same time. Our brains must process the incoming information further to reconstruct an understanding of what's been heard. Although this processing is unconscious, it still requires mental effort and the expenditure of that effort comes between the source and the listener's experience. This extra mental effort dulls the perception of detail, reduces comprehension and creates fatigue.

So what do you do to create the best possible impact, imaging and intelligibility? Ideally, make all the sound come from the smallest possible point in space, which is to say, minimize the distance between all the contributing elements to the greatest extent possible.

What if the range between 100Hz and 20,000Hz were to come from a point just 16" in diameter? That's a good start, but there are two more octaves below 100Hz that are necessary for full-range sound to come from a single point. To add those 2 octaves requires expanding the diameter of the circle to 48". 48" is the wavelength of approximately 280Hz, but more to the point, that's 1/10th the wavelength of 25Hz, meaning this loudspeaker is 1/10th the size of the longest wavelength it produces. This allows it to be as phase coherent off axis at low frequencies as it is at high frequencies. To translate that out of geek-speak, to a listening human, it's effectively indistinguishable from that ideal, impossible, single point.

In short, this design allows the loudspeaker to deliver consistent audio performance, with all frequencies arriving at the listener's ears simultaneously, which improves intelligibility and impact as well as providing excellent imaging and sound staging. The Krakatoa-MK3 represents a significant advancement in loudspeaker technology, offering unparalleled sound quality and versatility for professional audio applications.

Key Features:

- **Full Range Reproduction:** Covers all audible frequencies from 25 Hz to 19,000 Hz
- **Versatility:** Ideal for live sound reinforcement and high end audio systems
- **4-Way Active:** Dedicated drivers and amp channels for each frequency range for unbeatable dynamic resolution
- **Big Impact:** Minimal physical offset of drivers creates minimal phase offset for a tight, punchy sound
- **Superior Sound Localization:** One source point provides superior imaging for an immersive listening experience
- **High Efficiency and Power Handling:** Suitable for larger spaces without quality compromise
- **Phase Aligned:** Seamlessly integrates with other BASSBOSS speakers

Where and Why:

- **Live Sound Concert Venue Installations:** Extremely compact for minimal sight-line obstructions
- **Nightclubs and Dance Floors:** Massive impact and intensity from a tiny footprint
- **Theaters and Auditoriums:** Never miss a detail, never hit a limit
- **Houses of Worship:** Clarity, intelligibility, power, invisibility
- **Production Companies/Touring:** Rapid deployment, high-output density minimizes labor, truck, power needs
- **Conference Centers and Exhibition Halls:** Fewer speakers to cover massive areas
- **Carnival Trucks and Art Cars:** More SPL from less frontal area and less generator power
- **Outdoor Events:** Virtually immune to the influence of wind on frequency response

Benefits:

- **Full Range:** One box in one spot covers all audible frequencies.
- **High Resolution:** 4-Way active provides dedicated amps, processing and drivers in each frequency band
- **Versatility:** The combination of high power and extended range make almost any application possible
- **Imaging:** A single, coherent source for all sounds is best for stereo image localization
- **Impact:** More energy from less space makes for a tighter, punchier sound
- **High Efficiency:** Delivers high SPL and uses less power relative to multi-box systems
- **Simplicity:** One power cord and one signal cable for full-range, coherent sound

Combining Speakers

BASSBOSS systems are easy to set up quickly. The best possible results are achieved consistently because of the integrated nature of the designs. All BASSBOSS loudspeakers are complete, integrated systems, featuring the cabinet, transducer, amplifier and a comprehensive suite of processing. Setup is particularly easy because the products integrate with each other.

Provided the cabinets are physically aligned, any BASSBOSS sub can be combined with any BASSBOSS top and their outputs will be phase-coherent. This means no cancellations and no gaps in the response at the crossover frequency, regardless of which preset is selected.

The on-board BASSBOSS processing allows for the following: Any BASSBOSS powered subwoofer can be combined with any other BASSBOSS Powered subwoofer and their outputs will sum coherently. (i.e. in phase with each other.)

Any BASSBOSS powered subwoofer or combination of BASSBOSS powered subwoofers can be combined with any BASSBOSS powered top and their outputs will sum coherently through the crossover region.

HOWEVER only one model of top should be used at a time. An assortment of different tops cannot be stacked together and still achieve coherence and clarity. Putting tops of similar or different models not designed for side-array usage next to one another creates comb-filtering and significantly degrades sound quality.

The following tops should be used individually, i.e. should NOT be arrayed

AT312

(Co-axial point-source top)

DiaMon

(Co-axial point-source satellite)

SV9

(2-way monitor with Satellite mode)

The following tops can be used in arrays

MFLA

(Medium Format Line Array, up to 20 cabinets can be arrayed)

AT212

(Horizontally arrayable when necessary)

DV12

(Arrayable in PAIRS ONLY with the upper box of the pair inverted.)

Pre-Installed Onboard Presets

High-pass filters with included phase compensation.

Preset 1	30Hz high-pass filter
Preset 2	35Hz high-pass filter
Preset 3	40Hz high-pass filter
Preset 4	45Hz high-pass filter
Preset 5	50Hz high-pass filter
Preset 6	55Hz high-pass filter
Preset 7	60Hz high-pass filter
Preset 8	65Hz high-pass filter
Preset 9	70Hz high-pass filter

All Max SPL presets are compatible with all BASSBOSS subwoofer models

Additional presets are accessible through software.

See "How to Use the Presets" section for more information

IMPORTANT - Update NOW!

ControlBASS + Settings

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Specifications

Acoustical

Loudspeaker Description	4-Way Quintuple 18" Self-Powered Co-axial Point Source Full Range
Frequency Response (± 3 dB)	25 - 19,000Hz
Maximum Measured SPL	142 dB 1m (half-space)
Max calculated SPL (Peak)	145 dB 1m (full-space)
Nominal Dispersion (H° x V°)	60 x 40 (25 down, 15 up)

Electrical

Amplification	7500W Class D, 5000W LF, 1600W MLF, 600W MHF, 300W HF
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 Input Connector, 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: 13.75A (nominal); 240V 7A (nominal)
Display	LEDs for Power on/ready, Signal, -12dB, -6dB, Limiter Active, Thermal, Protect and LAN Link Active. Eight LEDs indicating selected preset
Signal Input Connector	XLR-F
Signal Output Connector	XLR-M (Direct pass-through, unprocessed)
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	4-Way Full-Range Single Axis Point Source. Vented Short-Horn (6th order) Low Frequency section, Co-axially positioned acoustic suspension Mid-Bass section with a Co-axially horn-loaded Midrange and High Frequency section through its center.
Transducer (LF)	4 x 18 in. diameter (450mm) neodymium motor woofers with 4 in. (100mm) voice coils, waterproof cones
Transducer (HF)	1 x 18 in. diameter (450mm) neodymium motor bass driver with 4" (100mm) voice coil
Transducers, MHF + HF	1 x Co-axial compression driver with a 4 in. (100mm) diameter voice coil, ring diaphragm midrange and a co-axially positioned 2.5" (64mm) voice coil, ring diaphragm tweeter exiting via a 2" (51mm) throat horn mounted through the center of the 18" woofer's pole piece.
Cabinet Construction	CNC machined 18mm Birch plywood with extensive bracing and dado joinery. 16 M10 fly-points. 8 Steel bar handles. 8 Interlocking UHMWPE Sliders.
Suspension Points	16 x internally braced M10 threaded mounting points
Dimensions (HxWxD)	48 in. x 48 in. x 36 in.
Net Weight	470 lbs. (213 kg)
Shipping Weight	560 lbs. (254 kg)
Exterior Finish	High-pressure, bonded polyurea coating. Rugged, waterproof. Textured black
Grilles	Perforated, powder-coated steel
What's Included	Loudspeaker, 15' (5m) Power Cable, Manual, Warranty Card

Optional

Optional Dollies	Birch plywood flat cart with 4 locking wheels and recesses to accept the cabinet sliders. Transports 1 or 2 cabinets
Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors
Cover	Heavy-duty padded nylon transport cover

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

KRAKATOA-MK3

Quintuple 4-Way Powered Loudspeaker



Need more assistance?
We're here to help.

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