



2023 CATALOG

MK3
Line





2023 CATALOG

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AT312-MK3

12" 3-Way
Powered
Loudspeaker



CUTSHEET



AT312-MK3

3-Way 12" 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, with a co-axially mounted 1.4" exit compression driver providing 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 speed 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 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 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.

*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 woofer 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 the same in any direction, allowing extremely consistent off-axis response regardless of which direction you move away from directly on center.

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 much 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. Its driver complement incorporates dual 12-inch woofers in a vented enclosure for low frequencies and a 12-inch midrange driver in a sealed enclosure with a co-axially mounted 1.4-inch exit compression driver. Coverage is 80 degrees conical. Dual 12-inch low frequency drivers were chosen to minimize cabinet frontal area while delivering the best possible speed and impact in their operating range. Thanks to the narrow frontal area, the low frequency drivers couple coherently when multiple cabinets are arrayed, providing powerful mid-bass impact from a small, lightweight box. The 12-inch coaxial drivers also serve to minimize frontal area while maximizing output. The 48 inch tall box elevates the mid and high frequency radiators to a minimum of 7 feet 6 inches on center when stacked on the corresponding subwoofer systems.

Specifications

Acoustical

Loudspeaker Description:	High-Output 3-Way Point-source loudspeaker
Frequency Response (± 3 dB):	60 – 19,000 Hz
Maximum SPL:	133 dB
Peak SPL:*	139 dB
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	80 x 80

Electrical

Amplification:	3600 Watt Four-Channel Class D Amplifier
Processing:	Integrated comprehensive DSP with 8 local presets (Additional presets accessible via software)
Electrical Connectors, Amplifier:	Neutrik Powercon True 1 TOP in and through
Electrical Connector, Mains:	NEMA 5-15 (Edison)
Voltage Operating Range:	100-240V. Auto-sensing, auto switching universal supply
Current Draw, Nominal:	5 @ 120 volts, 2.5A @ 220V (typical, 1/8 max power)
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)

Physical

Enclosure Type:	Self-powered, Tri-amplified, 3-way broad-range. Direct radiating vented LF section, Sealed Midrange section, Co-Axially Mounted Horn-loaded HF section
Transducer, LF:	2 x 12" diameter (300 mm) Neodymium motor woofer with 4" (100mm) voice coils
Transducer, MF:	1 x 12" diameter (300mm) Neodymium motor driver with 3.5" voice coil
Transducer, HF:	1 x 1.4" throat Neodymium motor compression driver with 3" (76mm) voice coil exiting through an 80-degree conical machined aluminum waveguide in the center of the midrange driver
Cabinet Construction:	18mm 13-ply Birch plywood with extensive internal bracing and damping. Includes 6 integrated handles and a steel 35mm pole socket
Suspension Points:	4 x internally braced M10 threaded mounting points
Dimensions (HxWxD):	48" x 16" x 20" (122 cm x 40.6 cm x 50.8 cm)
Net Weight:	126 lbs. (57 kg)
Shipping Weight:	140 lbs. (63.5 kg)
Exterior Finish:	Rugged, weatherproof, black, textured, bonded high-pressure polyurea coating
Grille:	Perforated, powder coated steel

Optional

Side Pull Anchors:	For use when flying cabinets horizontally
Shoulder Eye Bolts:	For use when flying cabinets vertically
Cover:	Heavy-duty padded nylon transport cover
Online Information:	bassboss.com/at312

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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

Pre-Installed Onboard Presets

High-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



AT212-MK3

12" 2-Way
Powered
Loudspeaker



CUTSHEET



AT212-MK3

2-Way 12" Powered Loudspeaker

The AT212-MK3 is a very high-output, 2-way, self-powered, internally processed, bi-amplified, mid-high 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 output 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 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 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.

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 2 temperature-controlled fans to ensure consistent operation under even the most extreme conditions.

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 processing features presets that allow it to run in multiple configurations. The full-range mode, Preset 1, provides response down to 50Hz (-3dB). Each successive preset filters the lows out at higher frequencies, allowing the AT212-MK3 to be perfectly integrated with various types and sizes of subwoofers.

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

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 AT212-MK3 to provide enough mid-high power for multiple large subwoofers.

The AT212-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 built from 18mm and 15mm Baltic 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 and 4 internally braced steel M10 fly points and a 35mm (1-3/8") cast metal pole socket. The cabinet is finished in an extremely rugged, black polyurea coating. Drivers are protected by a black, powder coated, perforated steel grille, and the amp is recessed into the back of the cabinet for protection from damage in transit.

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 software or firmware updates. 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. 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:	High-output 2-Way Broad-range Main
Frequency Response (±3 dB):	50 - 19,000 Hz
Max Sustained Output:	131 dB SPL, 1m
Maximum Measured Output:	137 dB SPL, 1m
Nominal Dispersion (°H x °V):	80 x 60 (Rotatable)

Electrical

Amplification:	3200 Watt Two-Channel Class D Amplifier
Processing:	Integrated comprehensive DSP including high-pass, low-pass, parametric EQ, phase alignment and multi-band limiting
Electrical Connectors, Amplifier:	Neutrik Powercon True 1 TOP in and through
Electrical Connector, Mains:	NEMA 5-15 (Edison)
Voltage Operating Range:	100-240V. Auto-sensing, auto switching universal supply
Current Draw, Nominal:	4.6A @ 120 volts, 2.3A @ 220V (typical, 1/8 max power)
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)

Physical

Enclosure Type:	Self-powered, bi-amplified, 2-way broad-range. Direct radiating vented LF section, Horn-loaded HF section
Transducer, LF:	2 x 12" diameter (300 mm) Neodymium motor woofer with 3.5" (76mm) voice coils
Transducer, HF:	1 x 1.4" throat Neodymium motor compression driver with 3" (76mm) voice coil on cast aluminum 80 x 60 degree horn
Cabinet Construction:	18mm/15 mm multi-ply Baltic Birch plywood with internal bracing and damping 4 steel bar handles, 4 internally braced steel fly points and a 35mm pole socket
Suspension Points:	4 x internally braced M10 threaded mounting points
Dimensions (HxWxD):	8" x 14.5" x 18" (122 cm x 36.4 cm x 45.4 cm)
Net Weight:	99 lbs. (45 kg)
Shipping Weight:	109 lbs. (50 kg)
Exterior Finish:	Rugged, weatherproof, black, textured, bonded high-pressure polyurea coating
Grille:	Perforated, powder coated steel

Optional

Shoulder Eye Bolts:	Use when flying the cabinets vertically
Side-pull anchors:	Use when flying the cabinets horizontally
Cover:	Heavy-duty padded nylon transport cover with velcro closure
Loop-through PowerCON TOP:	Power jumper for chaining power between adjacent cabinets
Online Information:	bassboss.com/at212

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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: 40Hz high-pass filter

Recommended for use when no sub is available.

Peak output is restricted to prevent low frequencies damaging the loudspeaker.

Preset 1: 45Hz high-pass filter.

Preset 2: 55Hz high-pass filter

Preset 3: 65Hz high-pass filter

Preset 4: 75Hz high-pass filter

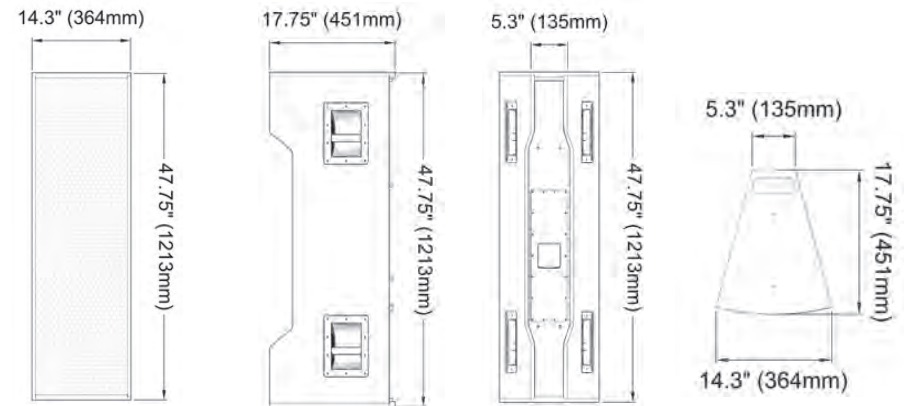
Preset 5: 85Hz high-pass filter

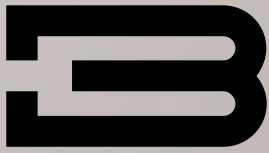
Preset 6: 95Hz high-pass filter

Preset 7: 105Hz high-pass filter

Preset 8: 115Hz high-pass filter

With their levels matched, when the low-pass filter frequency selected on the subwoofer is matched with the high-pass filter frequency selected on the Top cabinet, the smoothest frequency response should be achieved.





DV12-MK3

Single 12"
Powered
Loudspeaker



CUTSHEET



DV12-MK3

Single 12"
Powered
Loudspeaker

OVERVIEW

The DV12-MK3 uses a line-array derived 1.4" throat isophasic wave guide instead of a conventional horn. Coupled to the wave-guide is a 3" diaphragm, Neodymium motor compression driver. This combination provides effortlessly high SPL over very 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 that it could easily serve as a subwoofer 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 2 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 to be perfectly integrated with various types and sizes of 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 Baltic Birch and features bracing for additional rigidity. The design incorporates a 4-degree down-angle that ensures 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") cast metal 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.

Should you ever need more sound than can be produced by one DV12-MK3 per side, their invertible array feature 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 waveguides. 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 software or firmware updates. 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. 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:	Wide dispersion compact full-range speaker
Frequency Response (± 3 dB):	40 - 19,000 Hz
Max Sustained Output:	128 dB SPL, 1m
Maximum Measured Output:	134 dB SPL, 1m
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	120 x 20

Electrical

Amplification:	3200 Watt Two-Channel Class D Amplifier
Processing:	Integrated comprehensive DSP including high-pass, low-pass, parametric EQ, phase alignment and multi-band limiting
Electrical Connectors, Amplifier:	Neutrik PowerCON True 1 TOP in and through
Electrical Connector, Mains:	NEMA 5-15 (Edison)
Voltage Operating Range:	100-240V. Auto-sensing, auto switching universal supply
Current Draw, Nominal:	4.6A @ 120 volts, 2.3A @ 220V (typical, 1/8 max power)
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)

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 (300 mm) Neodymium motor woofer with 4" (100mm) voice coil
Transducer, HF:	1 x 1.4" throat Neodymium motor compression driver with 3" (76mm) voice coil on isophasic wave guide
Cabinet Construction:	15 mm multi-ply Baltic Birch plywood with internal bracing and damping Includes 6 integrated handles, 8 internally braced steel fly points and a 35mm 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:	68 lbs. (30 kg)
Exterior Finish:	Rugged, weatherproof, black, textured, bonded high-pressure polyurea coating

Optional

Stacking Bracket:	Adjustable bracket set, 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
Shoulder Eye Bolts:	Use when connecting to the top anchor points
Side-pull anchors:	Use when connecting to the side anchor points
Cover:	Heavy-duty padded nylon transport cover with velcro closure
Loop-through PowerCON TOP:	Power jumper for chaining power between stacked cabinets
Online Information:	bassboss.com/dv12

Pre-Installed Onboard Presets

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

Preset 1: 40Hz high-pass filter

Recommended for use when no sub is available.

Peak output is restricted to prevent low frequencies damaging the loudspeaker.

Preset 2: 50Hz high-pass filter

Preset 3: 60Hz high-pass filter

Preset 4: 70Hz high-pass filter

Preset 5: 80Hz high-pass filter

Preset 6: 90Hz high-pass filter

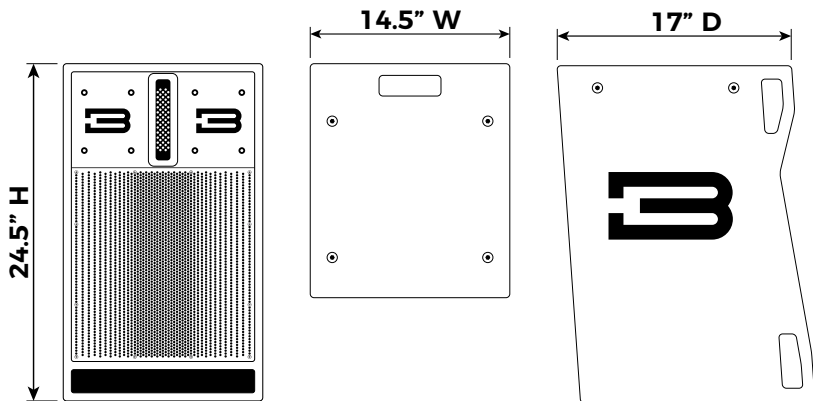
Preset 7: 100Hz high-pass filter

Preset 8: 110Hz high-pass filter

With their levels matched, when the low-pass filter frequency selected on the subwoofer is matched with the high-pass filter frequency selected on the Top cabinet, the smoothest frequency response should be achieved.

Information and setup tips about how to get the best and most out of your system:

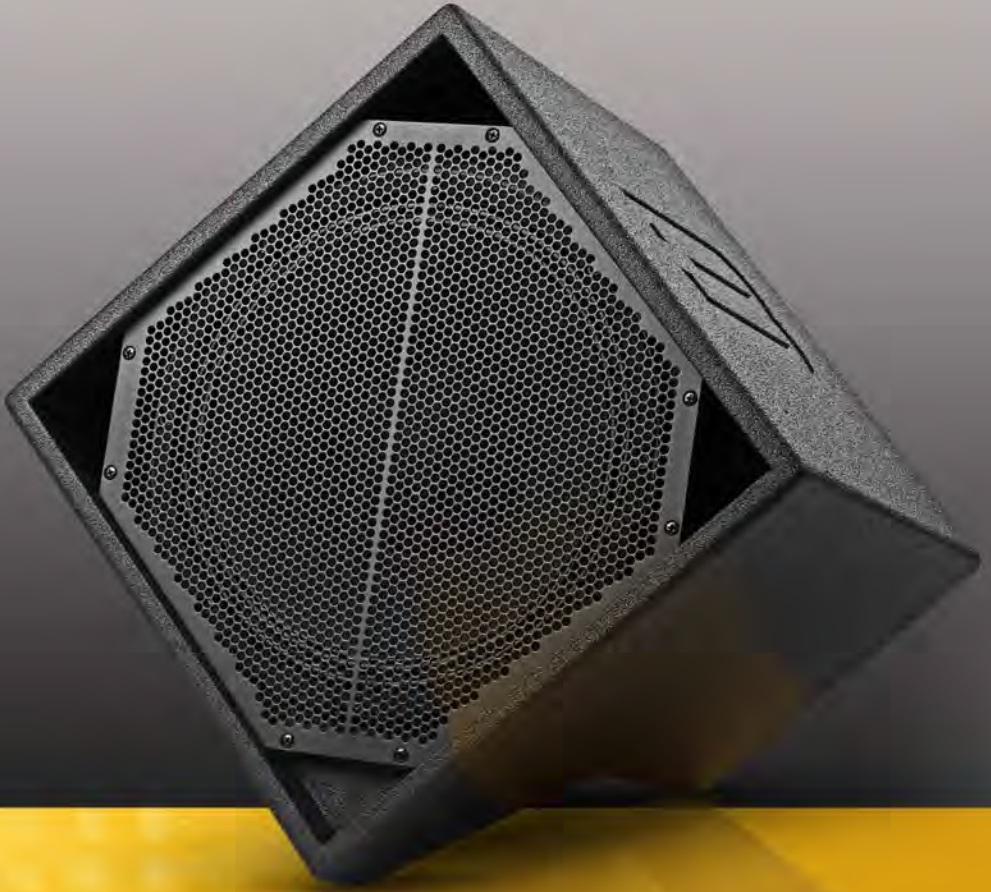
bassboss.com/edu





DIAMON-MK3

Single 12"
Powered
Loudspeaker



CUTSHEET



Single 12"
Powered
Loudspeaker

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 Birch wood cabinet features a 35mm steel pole socket and is finished in durable, high-pressure polyurea 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 active monitor. Self-powered and internally processed with presets for full-range and mid-high operation
Frequency Response (± 3 dB):	50Hz - 19kHz (Full Range - Preset 1)
Maximum Sustained Output:	123dB SPL, 1m, 2pi, half-space
Max SPL (Peak)*	126 dB
Nominal Dispersion ($H^\circ \times V^\circ$):	80 x 80 (Conical)

Electrical

Amplification:	Class D, 1200 W, 2 Channels
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:	NEMA 5-15 (Edison) standard 3-pin grounded plug
Voltage Operating Range:	100 - 240V Auto-sensing, auto switching
Current Draw, Nominal:	1.4A @ 120V - 0.7A @ 240V (average, with music)
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M (pass-through only)

Physical

Enclosure Type:	Birch wood enclosure - Sealed direct radiating low-frequency section and co-axially horn-loaded high-frequency section
Transducer (Low Frequency):	1 x 12 in. diameter (300 mm) neodymium motor woofer with 3 in. (76mm) copper voice coil
Transducer (High Frequency):	3 in. (76mm) diaphragm compression driver on 1.4 in. throat 80-degree conical horn
Cabinet Construction:	18mm and 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:	29.76 lbs (13.5kg)
Shipping Weight:	35 lbs (15.9kg)
Exterior Finish:	Black weatherproof bonded high-pressure polyurea
Grill:	Perforated, powder-coated Steel
Pole Socket:	35mm, Steel

Optional

Cover:	Heavy-duty padded nylon transport cover and carrying bag
Online Information:	bassboss.com/diamon

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

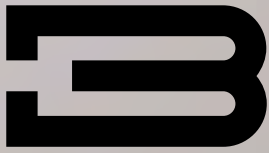
Preset 7: 110Hz

Preset 8: 120Hz (Maximum SPL Capability)

With their levels matched, when the low-pass filter frequency selected on the subwoofer is matched with the high-pass filter frequency selected on the Top cabinet, the smoothest frequency response should be achieved.

Information and setup tips about how to get the best and most out of your system:

bassboss.com/edu



SV9-MK3

9" Powered
Loudspeaker



CUTSHEET



Single 9"
Powered
Loudspeaker

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 large sized, heavy and obtrusive cabinets.

The compact, high fidelity and high output SV9-MK3 continues the BASSBOSS tradition of delivering remarkable bass 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:	Full-range, 2-way, active monitor. Self-powered and internally processed with presets for full-range and mid-high operation
Frequency Response (± 3 dB):	50Hz - 19kHz (Full Range)
Maximum Sustained Output:	118dB SPL, 1m, 2pi, half-space
Max SPL (Peak):	121 dB
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	90 x 60 (Rotatable)

Electrical

Amplifier:	Class D, 1200 W, 2 Channels
DSP:	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:	NEMA5-15 (Edison) standard 3-pin grounded plug
Voltage Operating Range:	100 - 240V Auto-sensing, auto switching
Current Draw, Nominal:	1.4A average with music
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M pass-through only

Physical

Enclosure Type:	Birch wood enclosure - Vented direct radiating low-frequency section and horn-loaded high-frequency section
Transducer, LF:	1 x 9 in. diameter (220 mm) neodymium motor woofers with 2.5 in. (64mm) copper voice coil
Transducer, HF:	1.4 in. (36mm) diaphragm compression driver on 1 in. throat 90 x 60 degree horn
Cabinet Construction:	15 mm Birch plywood. Dado joinery. Equipped with 2 handles and a 35mm steel pole socket
Dimensions (HxWxD):	18 in. (45.7cm) x 10 in. (25.4 cm) (7 in. rear) (17.78 cm rear) x 15 in. (38.1 cm)
Net Weight:	27.5 lbs (12.8 kg)
Shipping Weight:	31 lbs (14 kg)
Exterior Finish:	Black weatherproof bonded high-pressure polyurea
Grille:	Perforated, powder-coated Steel
Cover/Carrier:	Heavy-duty padded nylon transport cover and carrying bag
Online Information:	bassboss.com/sv9

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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

Preset 3: 65Hz high-pass

Preset 4: 75Hz high-pass

Preset 5: 85Hz high-pass

Preset 6: 95Hz high-pass

Preset 7: 105Hz high-pass

Preset 8: 115Hz high-pass

With their levels matched, when the low-pass filter frequency selected on the subwoofer is matched with the high-pass filter frequency selected on the Top cabinet, the smoothest frequency response should be achieved.



KRAKEN-MK3

Quad 21"
Powered
Subwoofer



CUT SHEET



KRAKEN-MK3

Quad 21"
Powered
Subwoofer

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Overview

The Kraken embrace is a monstrosly 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 Krakens' 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 polyurea 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 little bit more than they have ever had before...

Pre-Installed Onboard Presets

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

Preset 1: 23 Hz - 60 Hz

Preset 2: 23 Hz - 70 Hz

Preset 3: 23 Hz - 85 Hz

Preset 4: 23 Hz - 80 Hz

Preset 5: 23 Hz - 85 Hz

Preset 6: 23 Hz - 90 Hz

Preset 7: 23 Hz - 95 Hz

Preset 8: Cardioid Mode (Use only 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 page 10.

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

New presets will be available for download at bassboss.com/software as they are developed.

To be notified when new presets are released register your gear at: www.bassboss.com/support

Instructions on linking to your computer for remote monitoring and control: www.bassboss.com/software

Information and setup tips about how to get the best and most out of your system:

bassboss.com/edu

Specifications

Acoustical

Loudspeaker Description:	High-output Quad-21 inch Subwoofer
Frequency Response (± 3 dB):	25 – 90 Hz
Maximum Sustained Output:	145 dB SPL, 1 meter, half-space (ground plane)
Max SPL (Peak)*	148 dB
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	360 x 360 - Cardioid mode available with multiple boxes

Electrical

Amplification:	10,000 Watts - 4 x 2500 Watt discrete Class D amplifiers
Processing:	Integrated comprehensive DSP provides high pass, low pass, equalization, phase alignment, cardioid processing and limiting
Electrical Connectors, Amp:	1 x Neutrik powerCON True 1 TOP Input
Electrical Connector, Mains:	1 x Standard US 3-pin 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range:	90-250VAC, 45-65Hz
Current Draw, Nominal:	14A @ 120 volts - 7A @ 240V (typical with music program)
Signal Input Connectors:	XLR-F
Signal Output Connectors:	XLR-M pass-through only
Data Connectors:	2 x EtherCON RJ45

Physical

Enclosure Type:	Vented, short horn hybrid
Transducer:	4 x 21 inch diameter (540 mm) neodymium motor woofers with 4.5" diameter (115mm) CCAW split-wound voice-coils. Waterproof fiber composite cones
Cabinet Construction:	18mm Birch plywood, extensive bracing, dado joints, steel hardware
Dimensions (HxWxD):	48" x 48" x 36" (121.92 cm x 121.92 cm x 91.44 cm) - 48.5" (124 cm) high with feet
Net Weight:	460 lbs. (209 kg)
Shipping Weight:	550 lbs. (249 kg) with pallet
Exterior Finish:	Weatherproof, black, textured, bonded, high-pressure polyurea coating
Grilles:	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.

Optional

Transport Dollies:	18mm Birch Dolly cart with 4 locking casters and recesses to accept interlocking cabinet sliders
Online Information:	bassboss.com/kraken

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



ZV28-MK3

Double 18"
Powered
Subwoofer



CUTSHEET



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. 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 4.5-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 software or firmware updates. 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. 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:	Extended Low-Frequency Dual 18 Inch Powered Subwoofer
Frequency Response (± 3 dB):	23 – 90 Hz 21 – 90 Hz (Pair)
Maximum Sustained Output:	135 dB SPL, 1m, 2pi, (half-space)
Max SPL (Peak)*:	141 dB
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	360 x 360 - Cardioid mode available with multiple cabinets

Electrical

Amplification:	5000 Watts - Dual 2500 W Class D Amplifiers
Processing:	Integrated comprehensive DSP with high pass, low pass, phase alignment, limiting
Electrical Connector, Amp:	Neutrik PowerCON True1 TOP (IP65 Waterproof)
Electrical Connector, Mains:	Standard US 3-pin 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range:	100-250V
Current Draw, Nominal:	9A @ 120 volts, 4.5A @ 240V
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 extended low frequency response with high sensitivity and high power handling
Transducers:	Two 18" (457 mm) neodymium motor woofers; 4" (100mm) copper winding voice coils
Cabinet Construction:	18mm Baltic Birch plywood, extensively braced. Equipped with 8 handles and interlocking rubber feet
Exterior Finish:	Waterproof, bonded high-pressure polyurea
Grille:	Perforated, powder-coated steel
Dimensions (HxWxD):	22.5" x 42" x 42" (57.15 x 170 x 107 cm) 23.25" (59cm) high with feet
Net Weight:	235 lbs. (106.5 kg)
Shipping Weight:	265 lbs. (120.2 kg)

Optional

Transport Dollies:	Dolly cart with 4 locking casters and recesses to accept interlocking cabinet feet.
Covers:	Vertical for transporting 1 cabinet, horizontal for up to 4 cabinets
Online Information:	Heavy-duty padded nylon transport covers for vertical or horizontal transport bassboss.com/ZV28

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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.

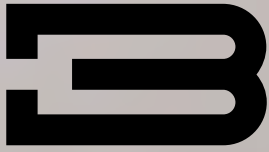
- Preset 1:** 20Hz Butterworth 24dB/octave high-pass filter to 65 Hz Linkwitz-Riley 24dB/octave low-pass filter
- Preset 2:** 20Hz Butterworth 24dB/octave high-pass filter to 70 Hz Linkwitz-Riley 24dB/octave low-pass filter
- Preset 3:** 20Hz Butterworth 24dB/octave high-pass filter to 75 Hz Linkwitz-Riley 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 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 on page 10.

- 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 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.



SSP218-MK3

Double 18"
Powered
Subwoofer



CUTSHEET



SSP218-MK3

Double 18"
Powered
Subwoofer

OVERVIEW

The SSP218-MK3 design combines sensitivity, depth, power handling, fidelity and value. It offers amazing versatility and practicality for those who need a lot of low end for a wide variety of applications, delivering massive output, reliably, consistently and with great fidelity.

The SSP218-MK3 sustains its output long-term and is practically impossible to blow thanks to the combination of extremely rugged, very high power handling, long excursion drivers, carefully optimized cabinet and port design and several effective but 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 peak output of the loudspeaker.

The SSP218-MK3 achieves extremely flat frequency response, measuring $\pm 1.5\text{dB}$ from 32Hz to 100Hz. No equalization is utilized to achieve this response. Unlike designs that require equalization, the SSP218-MK3's tone, response and sensitivity are native to the design. Competing systems that require bass-boost EQ to achieve their 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 and is designed to operate at full rated RMS power throughout its operating range while the woofers remain within their X-max specification. This allows it to achieve very high output, low frequency sound with minimal distortion.

Versatility is one of the SSP218-MK3s greatest strengths. There are two 35mm pole sockets in each cabinet. Having two sockets allows the subs to be deployed horizontally or vertically while still providing for smaller top cabinets to be mounted on poles above the subs. In addition, using these sockets allows front-fills or larger BASSBOSS top cabinets to be locked in place when stacked on the subs with no unsightly straps required.

The enclosures feature four large rubber feet and corresponding recesses in their tops to facilitate interlocking the boxes when stacked. 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 4 subwoofers, allowing for extremely tight truck-pack density. Alternatively, three-high stacks or 3-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 steel bar handles. They are coated in weatherproof high-pressure Polyurea and the drivers are protected by a

powder-coated, perforated steel grille. 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'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. 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 software or firmware updates. 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. 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:	High-Output Dual 18" Subwoofer
Frequency Response (± 3 dB):	30-100Hz
Maximum Sustained Output:	135 dB SPL, 1m, 2pi, (half-space)
Max SPL (Peak)*:	141 dB
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	360 x 360 - Cardioid Mode Available with Multiple Boxes

Electrical

Amplification:	5000 Watts - Dual 2500 W Class D Amplifiers
Processing:	Integrated comprehensive DSP provides high pass, low pass, phase alignment and limiting
Electrical Connector, Amp:	Neutrik PowerCON True1 TOP (IP65 Waterproof)
Electrical Connector, Mains:	Standard US 3-pin 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range:	100-250V
Current Draw, Nominal:	9A @ 120 volts, 4.5A @ 240V
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 extended low frequency response with high sensitivity and high power handling
Transducers:	Two 18" (457 mm) neodymium motor woofers with 4" (100mm) copper winding voice coils
Cabinet Construction:	18mm Baltic Birch plywood, extensively braced. Equipped with 4 handles and interlocking rubber feet
Dimensions (HxWxD):	22.5" x 48" x 29.5" (57.15 cm x 121.92 cm x 74.93 cm) - 23.25" (59.05 cm) high with feet
Net Weight:	199 lbs. (90 kg)
Shipping Weight:	230 lbs. (104 kg)
Exterior Finish:	Weatherproof bonded high-pressure polyurea
Grille:	Perforated, powder-coated steel

Optional

Suspension System:	16 X M10 Threaded Flypoints
Transport Dollies:	Dolly cart with 4 locking casters and recesses to accept interlocking cabinet feet for transporting 1 to 4 cabinets
Covers:	Heavy-duty padded nylon transport covers for 1, 2 or 4 cabinets
Online Information:	bassboss.com/SSP218

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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.

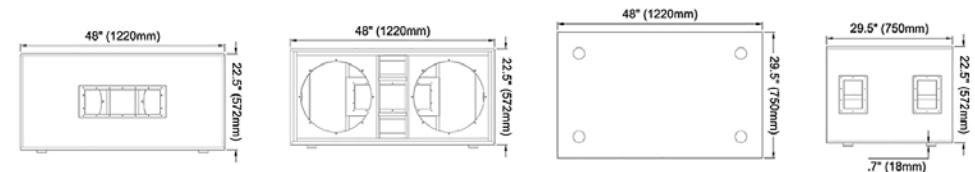
- Preset 1 - 30 Hz - 70 Hz
- Preset 2 - 30 Hz - 75 Hz
- Preset 3 - 30 Hz - 80 Hz
- Preset 4 - 30 Hz - 85 Hz
- Preset 5 - 30 Hz - 90 Hz
- Preset 6 - 30 Hz - 95 Hz
- Preset 7 - 40 Hz - 100 Hz (Vinyl/Neighbor Mode)*
- Preset 8 - Cardioid Mode (Use only when cabinet is facing away from audience)

*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 on page 10.

Information and setup tips about how to get the best and most out of your system:

bassboss.com/edu





VS21-MK3

Single 21"
Powered
Subwoofer



CUTSHEET



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 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 4.5-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 software or firmware updates. 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. 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

Description:	Subwoofer, single 21" powered and processed
Frequency Response (±3 dB):	27 - 100 Hz (Preset dependent)
Maximum Measured Output:	135 dB SPL, 1 meter, half-space (ground plane)
Max SPL (Peak)*:	138 dB
Nominal Dispersion (H° x V°):	360 x 360 - Cardioid mode available with multiple boxes

Electrical

Amplification:	2500 Watt RMS Class D Amplifier
Processing:	Integrated comprehensive DSP provides high pass, low pass, phase alignment and limiting
Electrical Connectors, Amp:	Neutrik powerCON True 1 TOP waterproof connectors
Electrical Connector, Mains:	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15
Voltage Operating Range:	100-240V
Current Draw, Nominal:	4.6A @ 120 volts
Current Draw, Peak:	20A
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M (Direct pass-through, unprocessed)

Physical

Enclosure Type:	Vented, short horn hybrid
Transducer:	1 X 21" diameter (540 mm) neodymium motor woofer. 58 mm (2.28") peak to peak excursion with waterproof fiber composite cone
Cabinet Construction:	CNC machined 18 mm Baltic Birch plywood with dado and Rabbet joinery
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:	230 lbs. (104 kg)
Exterior Finish:	Weatherproof bonded high-pressure polyurethane
Grille:	Perforated, powder-coated steel
Pole Sockets:	3 (35 mm) pole sockets
Handles:	6 Integrated handles
Feet:	12 interlocking rubber feet
Suspension System:	16 X M10 threaded flypoints

Optional

Transport Dollies (H or V):	Dolly cart with 4 locking casters and recesses to accept interlocking cabinet feet
Cover:	Heavy-duty padded nylon transport covers for 1 cabinet
Online Information:	bassboss.com/VS21

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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 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 on page 10.

Information and setup tips about how to get the best and most out of your system:

bassboss.com/edu



SSP118-MK3

Single 18"
Powered
Subwoofer



CUTSHEET



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 Single 18", from a single 18" box. Delivering output to frequencies lower than many Single 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.

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

The cabinets are constructed from 18mm Baltic Birch plywood. Each cabinet features dado and rabbet joinery throughout, so all seams are extremely strong and long-lasting. Stainless steel bolts are used to secure the drivers, amplifier and pole sockets so that the fasteners will never rust or seize up. The cabinet is finished in an extremely rugged, black polyurea 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 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. 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 4.5-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 software or firmware updates. 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. 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

Description:	Subwoofer, single 18" powered and processed
Frequency Response (± 3 dB):	30 - 100 Hz (Preset dependent)
Maximum Measured Output:	130 dB SPL, 1 meter, half-space (ground plane)
Max SPL (Peak)*:	136 dB
Nominal Dispersion ($H^\circ \times V^\circ$):	360 x 360 - Cardioid mode available with multiple boxes

Electrical

Amplification:	2500 Watt RMS Class D Amplifier
Processing:	Integrated comprehensive DSP provides high pass, low pass, phase alignment and limiting
Electrical Connectors, Amp:	Neutrik powerCON True 1 TOP waterproof connectors
Electrical Connector, Mains:	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15
Voltage Operating Range:	100-240V
Current Draw, Nominal:	4.6A @ 120 volts
Current Draw, Peak:	20A
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M (Direct pass-through, unprocessed)

Physical

Enclosure Type:	Vented Direct Radiator
Transducer:	1 x 18" diameter (457 mm) neodymium motor woofer with 4.5 in. (115mm) copper winding voice coil and 56 mm (2.2") peak to peak excursion
Cabinet Construction:	CNC machined 18 mm Baltic Birch plywood with dado and Rabbet joinery
Dimensions (HxWxD):	22.5 in. x 30 in. x 24 in. (23.25 in. high with feet)
Net Weight:	125 lbs. (82 kg)
Shipping Weight:	140 lbs. (104 kg)
Exterior Finish:	Weatherproof bonded high-pressure polyurethane
Grille:	Perforated, powder-coated steel
Pole Sockets:	1 (35 mm) pole sockets
Handles:	4 Integrated handles
Feet:	4 interlocking rubber feet
Suspension System:	16 X M10 threaded flypoints

Optional

Transport Dollies:	Dolly cart with 4 locking casters and recesses to accept interlocking cabinet feet
Cover:	Heavy-duty padded nylon transport covers for 1 cabinet
Online Information:	bassboss.com/SSP118

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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)-

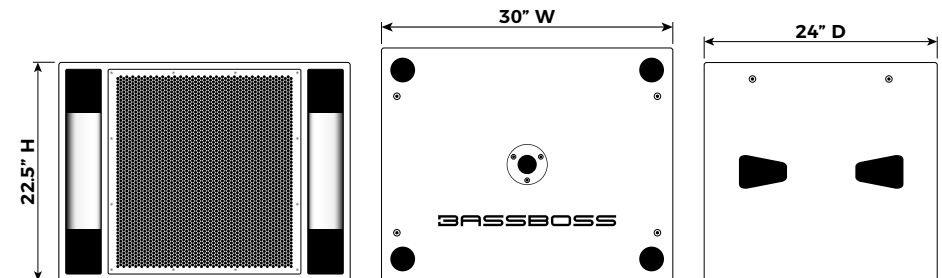
Preset 8 - Cardioid Mode (Use only when cabinet is facing away from audience)

*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 on page 10.

Information and setup tips about how to get the best and most out of your system:

bassboss.com/edu





DJ18-MK3

Single 18"
Powered
Subwoofer



CUTSHEET



DJ18-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 tuned to optimize extremely low frequency output using a very large port. The cabinet was designed to minimize materials and weight 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 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, 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.

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 4.5-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 software or firmware updates. 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. 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:	131 dB SPL, 1 meter, half-space (ground plane)
Max SPL (Peak)*:	136 dB
Nominal Dispersion ($H^\circ \times V^\circ$):	360 x 360 - Cardioid mode available with multiple boxes

Electrical

Processing:	Integrated comprehensive DSP provides high pass, low pass, phase alignment and limiting
Electrical Connectors, Amp:	Neutrik powerCON True 1 TOP waterproof connectors
Electrical Connector, Mains:	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15
Voltage Operating Range:	100-240V
Current Draw, Nominal:	4.6A @ 120 volts
Current Draw, Peak:	20A
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M (Direct pass-through, unprocessed)

Physical

Enclosure Type:	Direct radiating, vented enclosure, optimally tuned for high sensitivity at extremely low frequencies
Transducer:	1 x 18" diameter (457 mm) neodymium motor woofer with a 4.5" (115 mm) split winding copper voice coil with waterproof fiber composite cone
Cabinet Construction:	CNC machined 18 mm Baltic Birch plywood with dado and Rabbet joinery
Dimensions (HxWxD):	27.5" x 20.5" x 29.5" (69.85 cm x 52.07 cm x 74.93 cm)
Net Weight:	110 lbs. (50 kg)
Shipping Weight:	125 lbs. (57 kg)
Exterior Finish:	Weatherproof bonded high-pressure polyurethane
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
Online Information:	bassboss.com/DJ18

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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)*

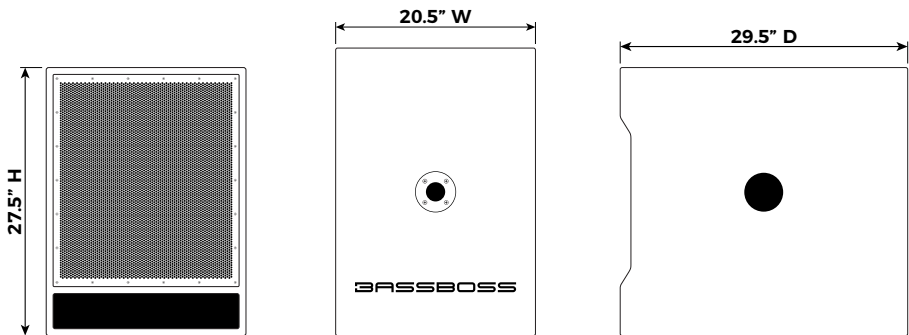
Preset 8 - Cardioid Mode (Use only when cabinet is facing away from audience)

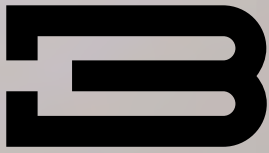
*Preset 7 raises the high-pass filter to 30 Hz, reducing the level of the deepest bass notes. This provides an option to keep operators out of trouble with neighbors, venue owners or local authorities in the event of noise complaint

**Preset 8 is the Cardioid mode setting.

Information and setup tips about how to get the best and most out of your system:

bassboss.com/edu





BB 15-MK3

Single 15"
Powered
Subwoofer



CUTSHEET



BB15-MK3

Single 15"
Powered
Subwoofer

OVERVIEW

BASSBOSS continues to push the envelope of design for mobile-optimized subwoofers. The BB15-MK3 subwoofer's compact size and excellent output-to-price ratio was designed for gigging DJs, home studio bass-heads, or venue owners with limited space.

A powerful, easily portable system for deep bass and superior sound quality, the BB15-MK3 offers Plug and Play usage, integrated DSP, a 2500 watt continuous amplifier, and a compact, lightweight design. At only 21" x 17" x 24" and 70 lbs its frequency response extends to 40 Hz ± 3 dB, bringing alive notes that mass-market subs simply can't reproduce.

For DJs and venues seeking extremely deep bass at moderately high levels in tight spaces, the BB15-MK3 is the smallest, lightest and most cost-effective solution available. Suitable for the truly bass-insatiable, whose focus is on modern music that features frequencies from 40-50Hz, this extremely compact sub weighs only 70 lbs.

The BB15-MK3 is a single 15-inch direct-radiating subwoofer. Featuring a long excursion, 15-inch woofer loaded into a vented enclosure that is tuned to optimize low frequency output using a very large port. The amplifier is loaded at the interior port end to utilize the air flow at high output for additional cooling. The cabinet was designed to minimize materials, cost and weight and maximize efficiency.

The BB15-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 partiers bring.

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 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 software or firmware updates. 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. 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 15" direct-radiating powered and processed
Frequency Response (±3 dB):	40 - 115 Hz (Preset dependent)
Maximum Measured Output:	127 dB SPL, 1 meter, half-space (ground plane)
Max SPL (Peak)*:	130 dB
Nominal Dispersion (H° x V°):	360 x 360 - Cardioid mode available with multiple boxes

Electrical

Amplification:	2500 Watt RMS Class D Amplifier
Processing: and limiting	Integrated comprehensive DSP provides high pass, low pass, phase alignment
Electrical Connectors, Amp:	Neutrik powerCON True 1 TOP waterproof connectors
Electrical Connector, Mains:	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15
Voltage Operating Range:	100-240V
Current Draw, Nominal:	4.6A @ 120 volts
Current Draw, Peak:	20A
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M (Direct pass-through, unprocessed)

Physical

Enclosure Type:	Direct radiating, vented enclosure, optimally tuned for high sensitivity at low frequencies
Transducer:	1 x 15 in. diameter (380mm) Neodymium motor woofer with 4.5 in. (115mm) voice coil, waterproof cone
Cabinet Construction:	CNC machined 15mm Baltic Birch plywood with dado and Rabbet joinery
Dimensions (HxWxD):	20.5 in (521mm) x17 in (430mm) x 24 in (610mm)
Net Weight:	72 lbs. (32 kg)
Shipping Weight:	85 lbs. (38 kg)
Exterior Finish:	Weatherproof bonded high-pressure polyurethane
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
Transport:	4 locking casters can be attached to points on the rear of the cabinet
Online Information:	bassboss.com/BB15

*Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum SPL" ratings, which reflect actual measured output levels.

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 - 45 Hz - 120 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 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 on page 10.

