



BB15-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

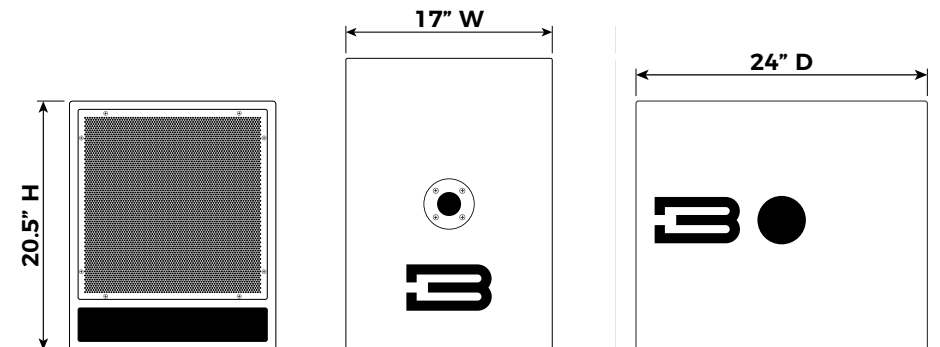
Preset 6 - 40 Hz - 120 Hz

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.





BB15-MK3

Single 15"
Powered
Subwoofer

