

CUTSHEET



DJ18S-MK3

Single 18"
Powered Subwoofer



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Overview

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

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

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

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

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

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

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

The new DSP features an Ethernet interface. This can be used to control the cabinets from a computer or to load software or firmware updates. The ethernet connectivity, in conjunction with the new DSP board, will allow 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 groups of loudspeakers to be adjusted together and yet independently from the levels of other groups of loudspeakers. In addition to individual and grouped level controls, presets can be loaded and signal levels and temperatures can be monitored. Each cabinet includes a two-port switch, so multiple cabinets can be chained on the same data cable.

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

Specifications

Acoustical

| | |
|--------------------------------------------------|-------------------------------------------------------------|
| Loudspeaker Description: | Subwoofer, single 18" powered and processed |
| Frequency Response (± 3 dB): | 27 - 100 Hz (Preset dependent) |
| Maximum Measured Output: | 129 dB SPL, 1 meter, half-space (ground plane) |
| Max calculated SPL (Peak): | 132 dB |
| Nominal Dispersion ($H^\circ \times V^\circ$): | 360 x 360 - Cardioid function available with multiple units |

Electrical

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|------------------------------|-----------------------------------------------------------------------------------------------------|
| Amplification: | 2500 Watt Class D Amplifier |
| Processing: | Integrated, comprehensive DSP provides high pass, low pass, phase alignment and multi-band 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 AC, 50-60Hz (Auto-sensing, auto switching universal supply) |
| Current Draw, Nominal: | 4.6A @ 120 Volts - 2.6A @240 Volts (Average with music program) |
| Signal Input Connector: | XLR-F |
| Signal Output Connector: | XLR-M (Direct pass-through, unprocessed) |
| LAN Connectors: | EtherCON RJ45 (x2) with 2-port Ethernet switch |

Physical

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Enclosure Type: | Direct radiating, vented enclosure, optimally tuned for high sensitivity at low frequencies |
| Transducer: | 1 x 18" diameter (457 mm) neodymium motor woofer with a 4.5" (115 mm) copper voice coil and waterproof fiber composite cone |
| Cabinet Construction: | CNC machined 18mm marine-grade Birch plywood, extensively braced, assembled with dado joinery |
| Dimensions (HxWxD): | 27.5" x 20.5" x 29.5" (69.85 cm x 52.07 cm x 74.93 cm), 28.75" (73 cm) high with feet |
| Net Weight: | 110 lbs. (50 kg) |
| Shipping Weight: | 125 lbs. (57 kg) |
| Exterior Finish: | Weatherproof bonded high-pressure polyurea |
| Grille: | Perforated, powder-coated steel |
| Pole Sockets: | 1 (35 mm) |
| Handles: | 2 Integrated Handles |
| Feet: | 4 rubber feet |
| Caster Mounts: | Attachment points and hardware for four casters are provided on the back of the cabinet |

Optional

| | |
|---------------------|----------------------------------------------------------|
| Cover: | Heavy-duty padded nylon transport covers for 1 cabinet |
| Casters: | Locking 4" (100mm) swivel casters kit, 4 pieces. |
| Online Information: | bassboss.com/dj18 |

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, see manual for more information.

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

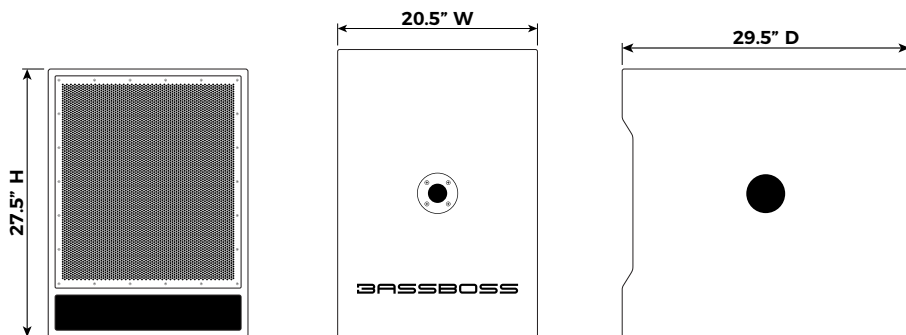
New presets will be available for download at bassboss.com/software as they are developed.

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



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Need more assistance?
We're here to help.

bassboss.com/support