

Overview

The DBR15 achieves best-in-class SPL of up to 132dB and delivers the lowest frequency in its lineup. The DBR15 delivers outstanding performance for the main front-of-house sound for the live performance or DJ events that require highly prominent low and more power.



Features

- Output levels up to 132dB SPL with 1000W of power
- Precise DSP processing with Yamaha's proprietary FIR-X tuning™ delivers high-definition sound
- D-CONTOUR intelligent multi-band dynamic processing delivers powerful, consistently high-quality sound at all output levels in FOH or monitor applications
- Extensive DSP protection functions for maximum output
- Custom-designed transducers and top-quality components add up to unequalled performance
- Extremely accurate 90 x 60 constant directivity horn
- Easy-to-use Onboard 2-channel mixer with flexible IN/OUT connectivity for versatile system integration
- Flexible HPF control allows optimum matching with DXS subwoofers
- Durable, compact plastic enclosures
- Symmetrical enclosure design for mirror-mode floor monitoring

Specifications

General Specifications

System Type		2-way, Bi-amp Powered Speaker, Bass-reflex Type
Components	LF	15" cone, 2.5" voice coil, Ferrite Magnet
	HF	1.4" compression driver, 1" throat, Ferritex Magnet
Frequency Range	(-10dB)	50Hz-20kHz
Crossover Type		FIR-X tuning™ (Liner phase FIR filter)
Crossover Frequency		2.1kHz
Coverage Angle (Horizontal x Vertical)		90° x 60° Constant directivity horn
Output Power*1	Dynamic	1000W (LF:800W, HF: 200W)
	Continuous	465W (LF:400W, HF:65W)
Maximum SPL (1m, on axis)		132dB SPL
Processing		D-CONTOUR: FOH/MAIN, MONITOR, OFF
Controls		LEVEL x 2, LINE/MIC, HPF, D-CONTOUR, THUR/MIX, POWER
Cooling		Fan cooling, 4 speeds
Power Requirements		100V, 100-120V, 220-240V, 110/127/220V (Brazil), 50Hz/60Hz
1/8 Power Consumption		74W
Floor Monitor Angle		50° Symmetrical
Pole Socket		35mm (Bottom x 1)
Handle		Side x 2
Rigging Points		Bottom x 2, Rear x 1 (Fits for M8 x 15mm eyebolts)
Material, Finish, Color		Plastic, Black
Dimensions (W×H×D)		455mm x 700mm x 378mm (17.9" x 27.6" x 14.9")
Net Weight		19.3kg (42.6lbs)
Optional Accessories		BBS251, BCS251, BWS251-300, BWS251-400, SPCVR-1501

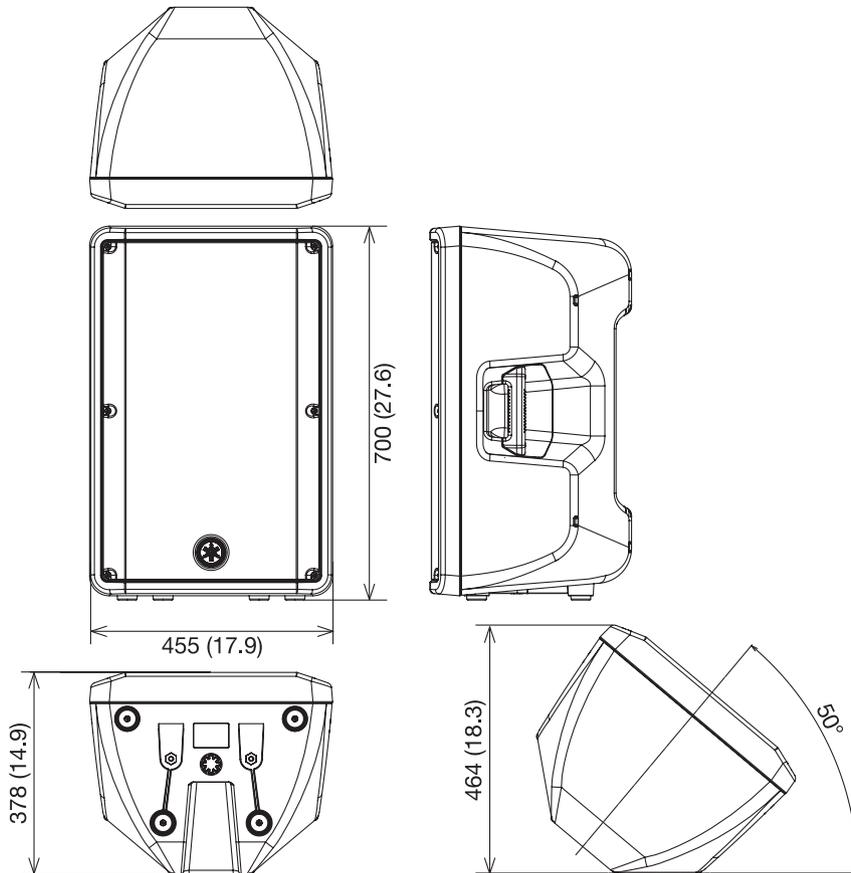
*1 Power rating (120V, 25°C). This is total value of individual output power.

Input/Output Specifications

Connectors	Input	INPUT1: Combo x 1, INPUT2: Combo x 1 + RCA-pin x 2 (Unbalanced)
	Output	XLR3-32 x 1 (CH1 Parallel Through or CH1 + CH2 Mix)
Input Impedance		INPUT1 (XLR, TRS Phone): 3kΩ INPUT2: (XLR, TRS Phone, RCA Pin): 10kΩ
Input Sensitivity (LEVEL: Maximum)		INPUT1: LINE: 0 dBu, MIC: -32dBu INPUT2: 0 dBu
Input Sensitivity (LEVEL: Center)		INPUT1: LINE: +10dBu, MIC: -22dBu INPUT2: +10dBu
Maximum Input Level		INPUT1: LINE: +24dBu, MIC: -8 dBu INPUT2: +24dBu

Dimensions

Unit: mm (inch)



Options

- Baton Bracket BBS251
- Ceiling Bracket BCS251
- Wall Bracket BWS251-300
- Wall Bracket BWS251-400
- Speaker Cover SPCVR-1501

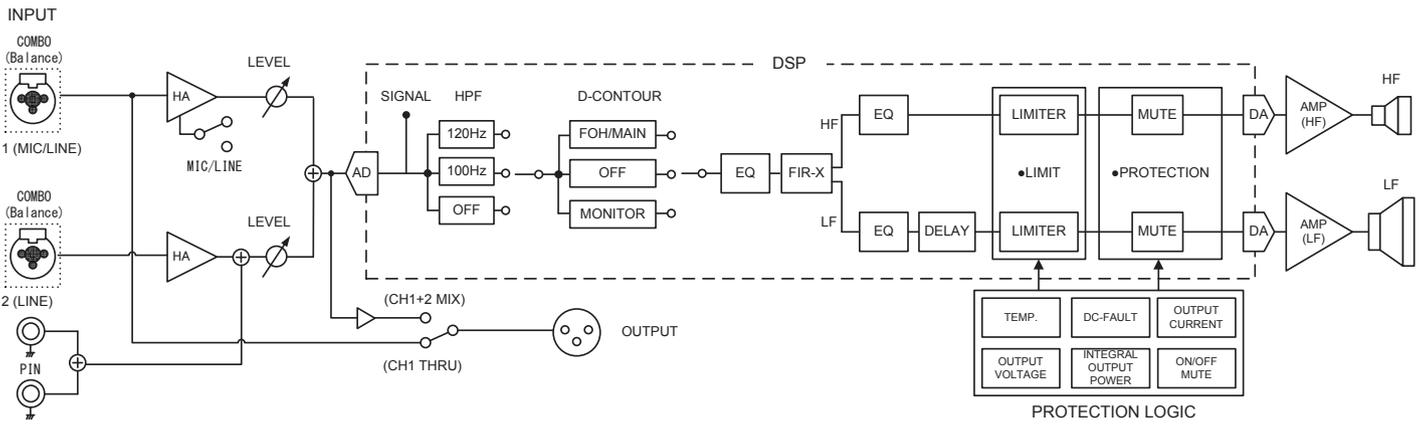
Architectural and Engineering Specifications

The Yamaha DBR15 Powered Loudspeaker shall be a two-way bass-reflex type full-range loudspeaker system having a single 15" cone driver with a 2.5" voice coil for the low frequencies and a 1.4" compression driver with a 1" throat for the high frequencies. The loudspeaker shall incorporate a class-D amplifier (1000 watts dynamic/465 watts continuous) and DSP functions such as FIR-X tuning (linear phase FIR filters) and D-CONTOUR (multi-band compression). The amplifier section shall have a 4-speed fan for cooling.

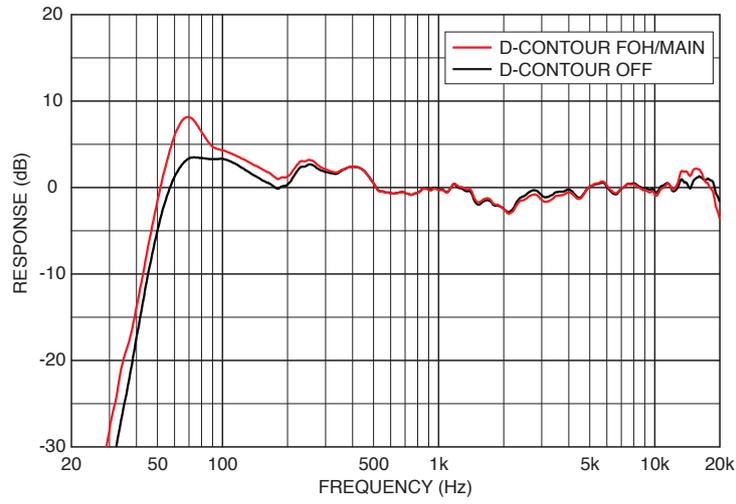
The DBR15 Powered Loudspeaker shall meet the following performance criteria: Maximum SPL shall be 132 dB at 1 meter, frequency response shall be 50 Hz to 20 kHz at 10 dB below rated sensitivity, the frequency dividing network shall have a crossover frequency of 2.1 kHz, and the nominal coverage angle shall be 90° horizontal and 60° vertical via a constant directivity horn.

The loudspeaker shall have two Combo connectors and one RCA pin connector for input, and one XLR3-32 connector for CH1 Parallel Through or CH1+CH2 Mix output. The cabinet shall be constructed of plastic and have handles. The cabinet shall also have threaded mounting points for M8 eyebolts (bottom x 2, rear x 1) and a 35 mm pole socket. Dimensions shall be 455 (W) x 700 (H) x 378 (D) mm. Weight shall be no more than 19.3 kg.

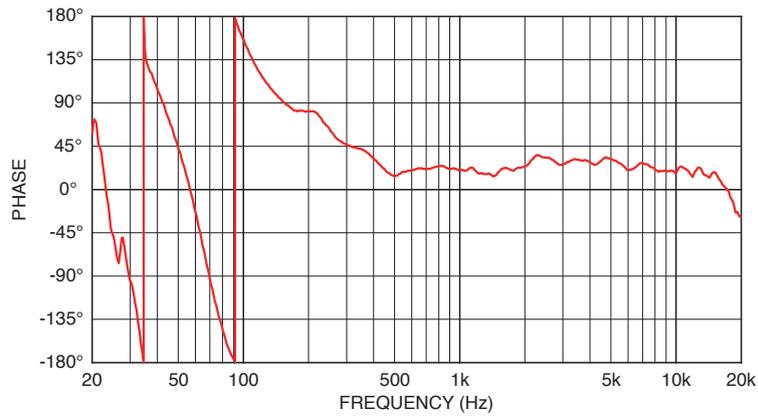
Block Diagrams



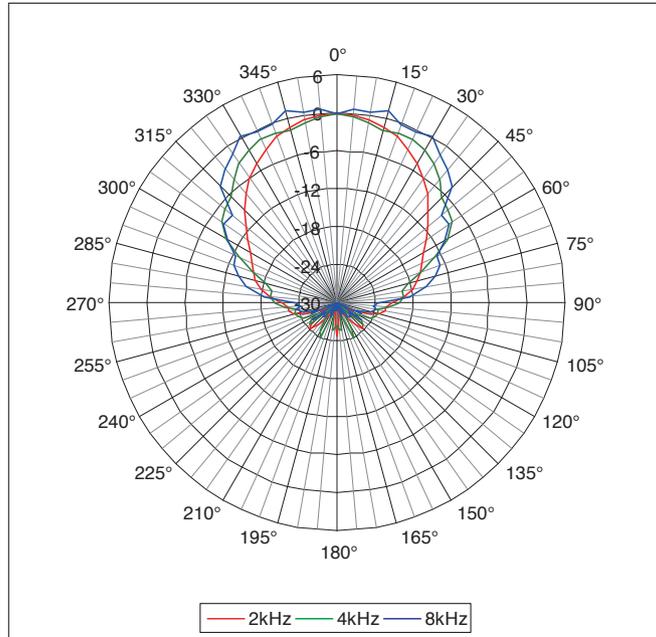
Frequency Response



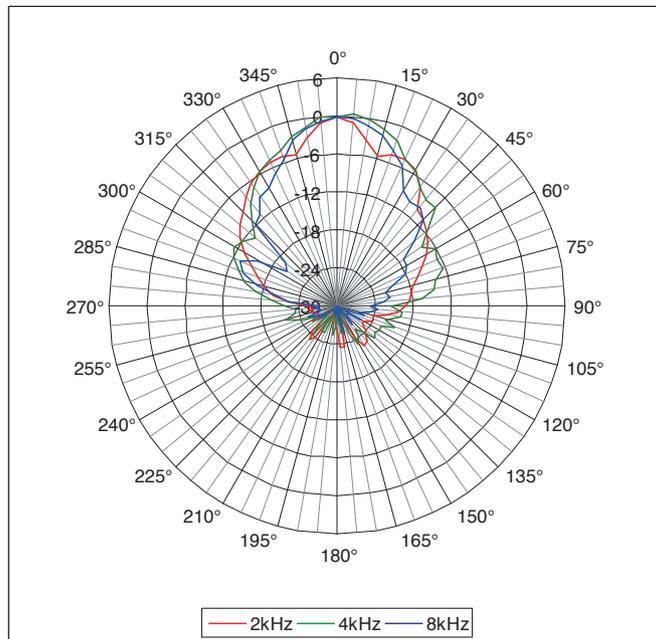
Phase Response



Horizontal Polar Plots



Vertical Polar Plots



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