

Overview

Portable, yet capable of producing an astonishing 131 dB SPL, the DXR10's compact, functional design makes it ideal for a wide range of applications. Whether providing simple vocal/instrument amplification, very powerful floor monitoring or comprising a compact SR system—the DXR10 delivers without compromising sound quality and power.



Features

- Output levels up to 131dB SPL with 1100W of power
- Precise 48-bit 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
- Intelligent onboard 3-channel mixer with flexible IN/OUT connectivity for versatile system integration
- Flexible HPF control allows optimum matching with DXS subwoofers
- Universal switching-mode power supply for world-wide use
- Durable, compact ABS enclosures
- Dual-angle pole mount plus rigging points for standard eye-bolts and optional U-brackets

Specifications

General Specifications

System Type		2-way, Bi-amp powered speaker, Bass-reflex type
Components	LF	10" cone, 2" voice coil, Ferrite Magnet
	HF	1.4" compression driver, 1" throat, Ferrite Magnet
Frequency Range	(-10dB)	56Hz-20kHz
Crossover Type		FIR-X tuning™ (Linear phase FIR filter)
Crossover Frequency		2.3kHz
Coverage Angle (Horizontal x Vertical)		90° x 60° Constant directivity horn
Output Power*1	Dynamic	1100W (LF: 950W, HF: 150W)
	Continuous	700W (LF: 600W, HF: 100W)
Maximum SPL (1m, on axis)		131dB SPL
Processing		D-CONTOUR: FOH/MAIN, MONITOR, OFF
Controls		LEVEL x 3, LINE/MIC, HPF, D-CONTOUR, FRONT LED DISABLE, LINK MODE, POWER
Cooling		Fan cooling, 4 speeds
Power Requirements		100V-240V, 50Hz/60Hz
1/8 Power Consumption		90W
Floor Monitor Angle		50°
Pole Socket		35mm with 2-way features (0 or 7 degrees)
Handle		Top x 1
Rigging Points		Top x 2, Rear x 1 (Fits for M8 x 15mm eyebolts)
Material, Finish, Color		ABS, Matte Finish, Black
Dimensions (W×H×D)		305mm x 502mm x 310 mm (12.0" x 19.7" x 12.2")
Net Weight		14.6kg (32.2lbs)
Optional Accessories		UB-DXR10

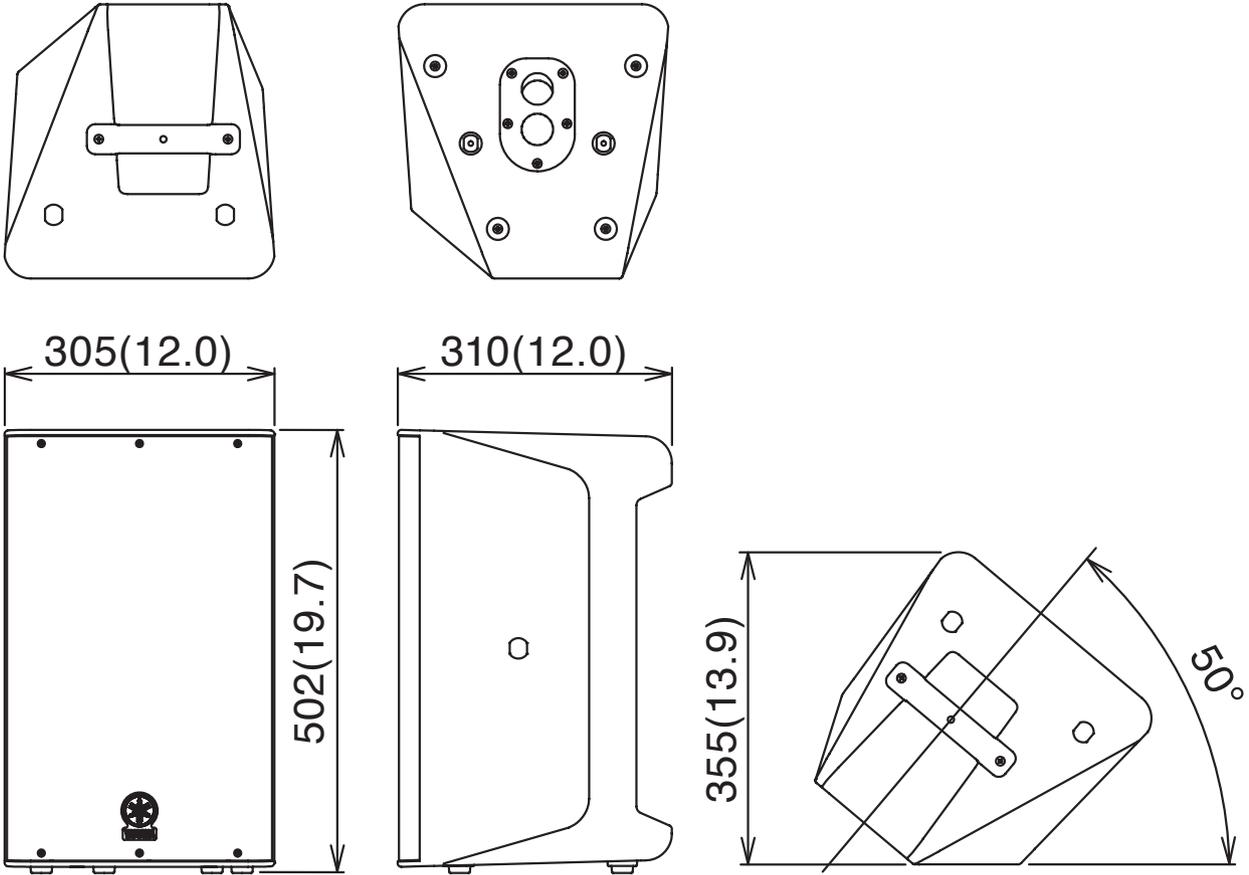
*1 Power rating (120V, 25°C). This is total value of individual output power.

Input/Output Specifications

Connectors	Input	INPUT1: XLR3-31 x 1, INPUT2: Phone x 2, INPUT3: RCA PIN x 2
	Output	THRU: XLR3-32 x 1 (Parallel with INPUT1), LINK OUT: XLR-3-32 x 1
Input Impedance		INPUT1: LINE: 12kΩ, MIC: 8kΩ INPUT2, 3: L, R: 40kΩ, MONO: 20kΩ
Input Sensitivity (LEVEL: Maximum)		INPUT1: LINE: +1dBu, MIC: -32dBu INPUT2, 3: -13 dBu
Input Sensitivity (LEVEL: Center)		INPUT1: LINE: +11dBu, MIC: -22dBu INPUT2, 3: -3 dBu
Maximum Input Level		INPUT1: LINE: +24dBu, MIC: +20dBu INPUT 2, 3: +16dBu

Dimensions

Unit: mm (inch)



Options

- U Bracket UB-DXR10

Architectural and Engineering Specifications

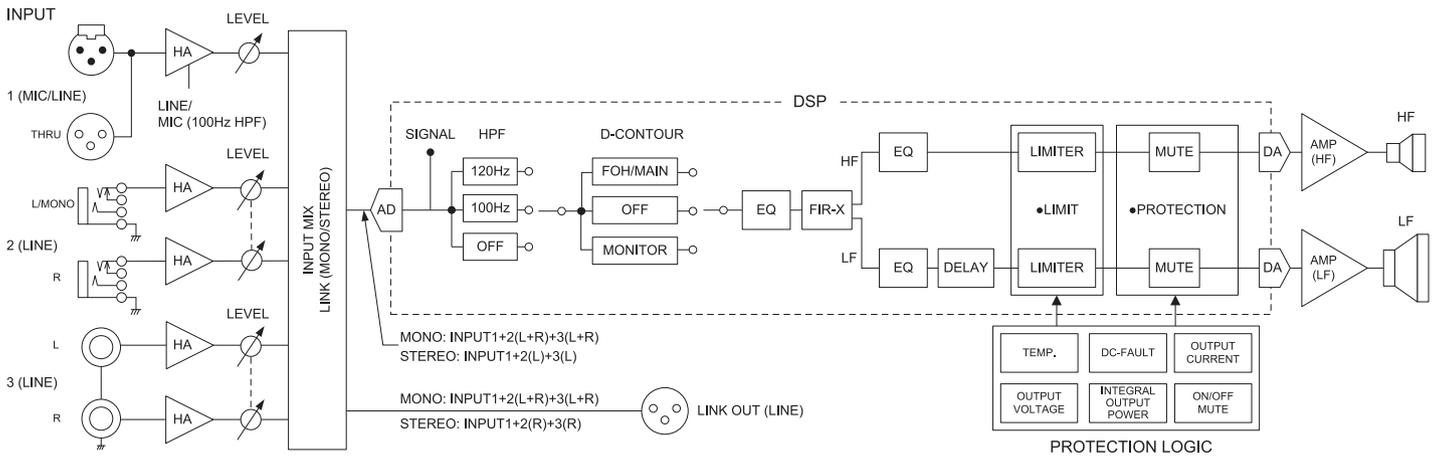
The Yamaha DXR10 Powered Loudspeaker shall be a two-way bass-reflex full-range loudspeaker system. The DXR10 shall incorporate a single 10" cone with a 2" voice coil for the low frequencies, and a 1.4" compression driver with a 1" throat for the high frequencies.

The loudspeaker shall incorporate a class-D amplifier (1100 watts dynamic/700 watts continuous) and DSP functions such as FIR-X tuning (linear phase FIR filters) and D-CONTOUR (multi-band compression). The amplifier section of the loudspeaker shall have a universal power supply that accepts AC line input from 100V to 240V at 50Hz or 60Hz, and shall be cooled by a 4-speed fan.

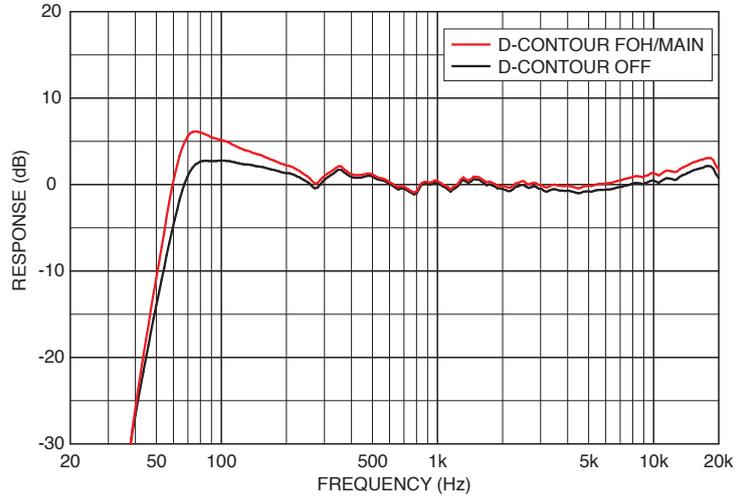
The DXR10 Powered Loudspeaker shall meet the following performance criteria: Maximum SPL shall be 131 dB SPL at 1 meter, frequency response shall be 56 Hz to 20 kHz at 10 dB below rated sensitivity, the frequency dividing network shall have a crossover frequency of 2.3 kHz, and the nominal coverage angle shall be 90° horizontal and 60° vertical via a constant directivity horn.

The loudspeaker shall include mixing functionality and have one XLR3-31 connector, two phone jacks, and two RCA pin jacks for input. It shall have one XLR3-32 connector for "thru" output and one XLR3-32 connector for "link" output. The cabinet shall be constructed of ABS and have aluminum die-cast handles. The loudspeaker shall have threaded mounting points for M8 eyebolts (top x 2, rear x 1) and a 35 mm pole socket with a two-way feature (0 or 7 degrees). Optional UB-DXR10 U-Brackets shall be available for rigging. Dimensions shall be 305 (W) x 502 (H) x 310 (D) mm. Weight shall be no more than 14.6 kg.

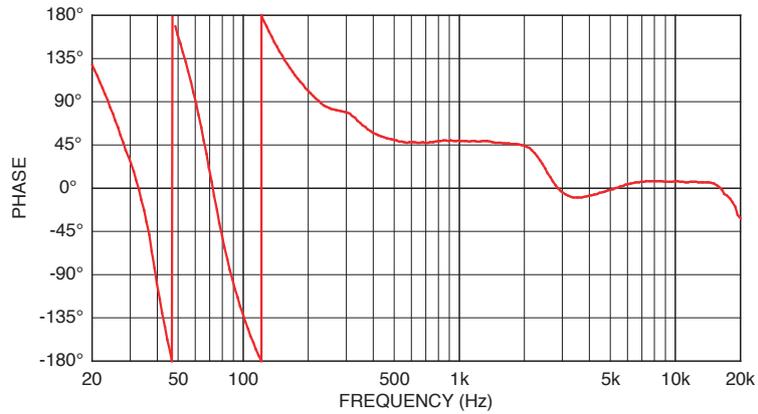
Block Diagrams



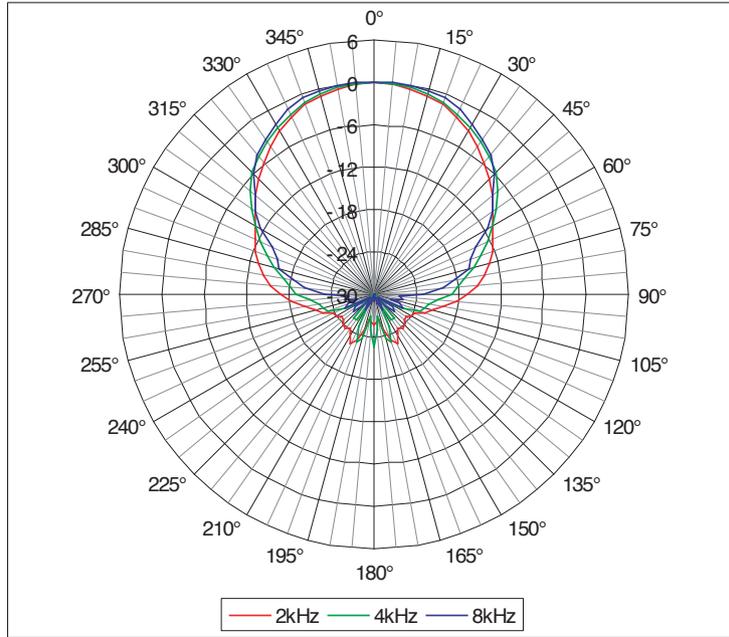
Frequency Response



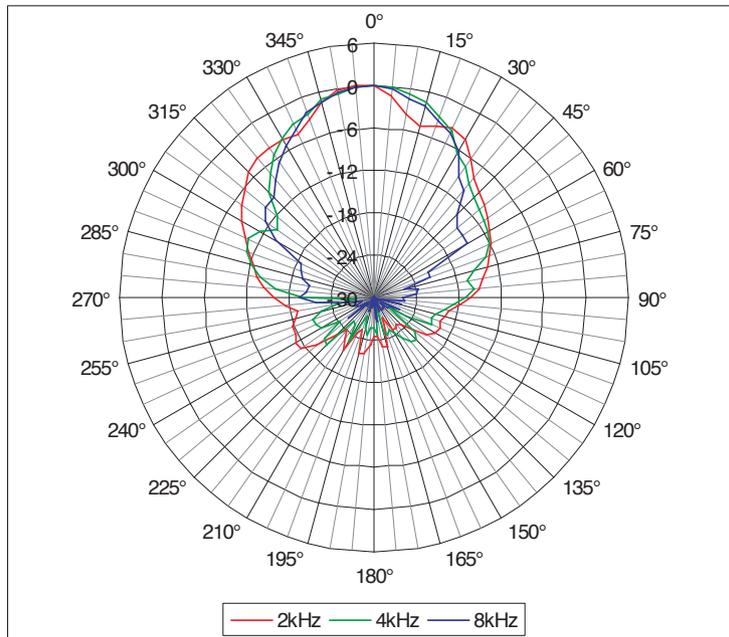
Phase Response



Horizontal Polar Plots



Vertical Polar Plots



*All information subject to change without notice.
*All trademarks and registered trademarks are property of their respective owners.
Created in March, 2017