

Overview

The most compact of the DXR Series speakers, the DXR8 makes the most of its 1100W of power, delivering extremely high output while maintaining outstanding resolution. Adding a DXS12 subwoofer gives you an ultra-compact high-power SR system.



Features

- Output levels up to 129dB 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 | 8" cone, 2" voice coil, Ferrite Magnet |
| | HF | 1.4" compression driver, 1" throat, Ferrite Magnet |
| Frequency Range | (-10dB) | 57Hz-20kHz |
| Crossover Type | | FIR-X tuning™ (Linear phase FIR filter) |
| Crossover Frequency | | 2.4kHz |
| 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) | | 129dB 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 |
| 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) | | 280mm x 458mm x 280 mm (11.0" x 18.0" x 11.0") |
| Net Weight | | 13.5kg (29.8lbs) |
| Optional Accessories | | UB-DXR8 |

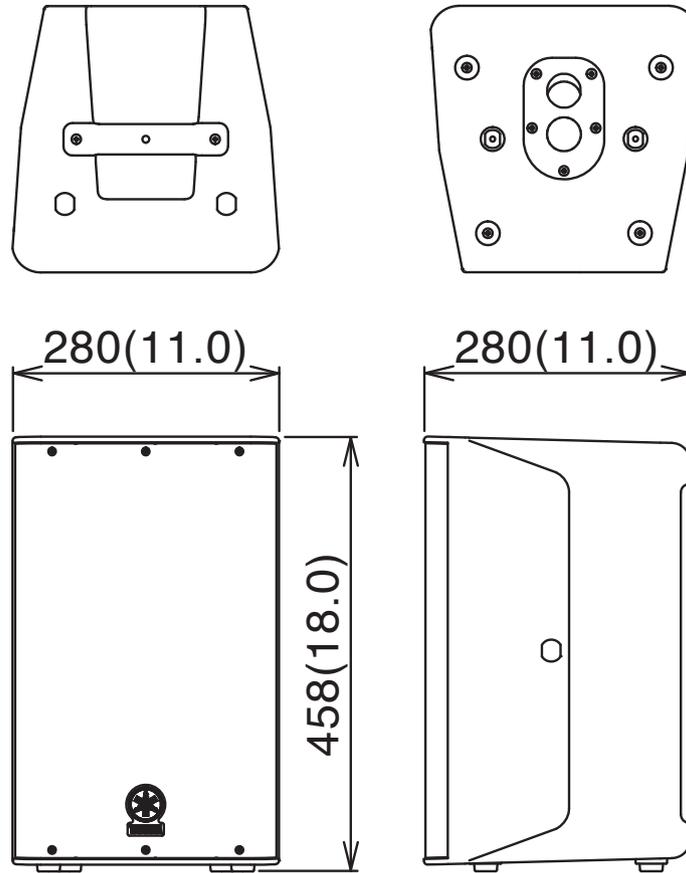
*1 Power rating (120V, 25°C). This is total value of individual output power.

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: XLR3-32 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 INPUT2, 3: +16dBu |

Dimensions

Unit: mm (inch)



Options

- U Bracket

UB-DXR8

Architectural and Engineering Specifications

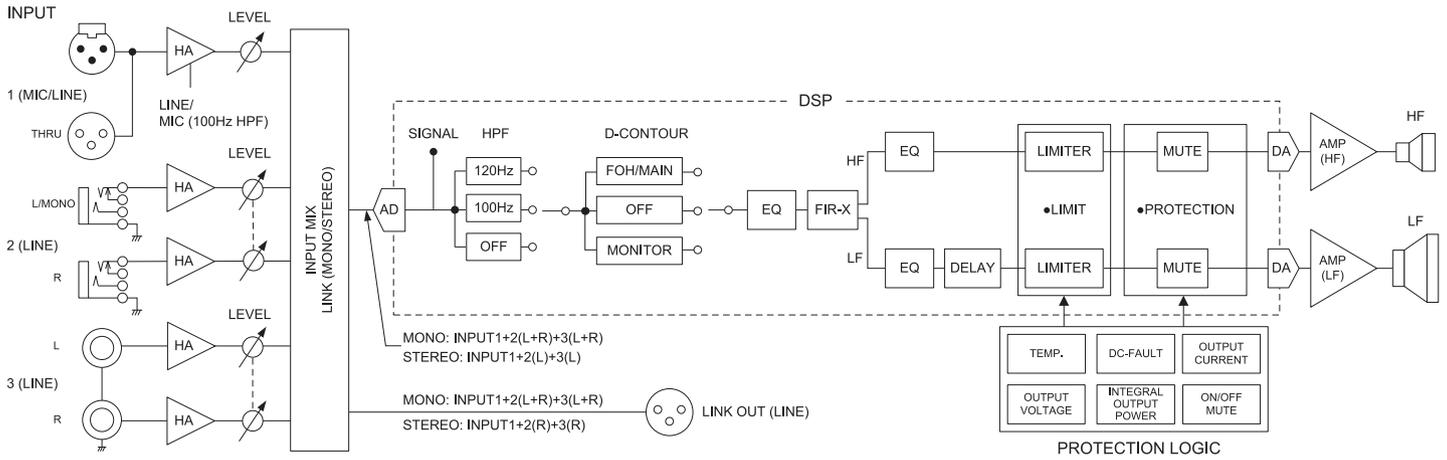
The Yamaha DXR8 Powered Loudspeaker shall be a two-way bass-reflex full-range loudspeaker system. The DXR8 shall incorporate a single 8" cone with a 2" voice coil for the low frequencies, and a 1.4" compression driver with a 1" throat for the high frequencies.

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.

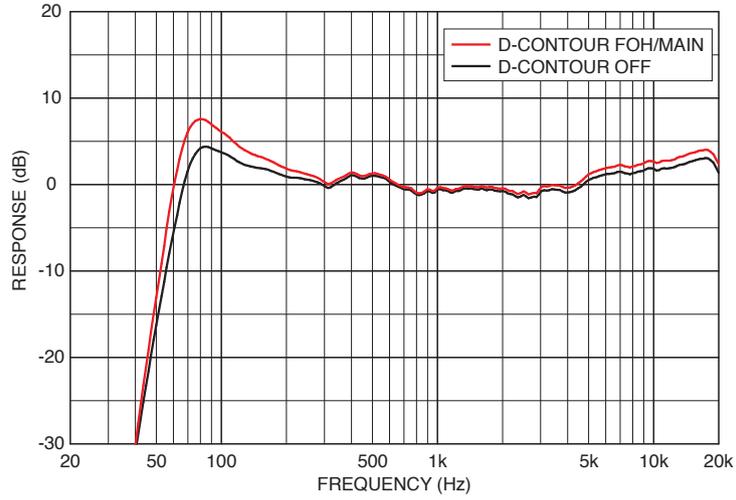
The DXR8 Powered Loudspeaker shall meet the following performance criteria: Maximum SPL shall be 129 dB SPL at 1 meter, frequency response shall be 57 Hz to 20 kHz at 10 dB below rated sensitivity, the frequency dividing network shall have a crossover frequency of 2.4 kHz, and the nominal coverage angle 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-DXR8 U-Brackets shall be available for rigging. Dimensions shall be 280 (W) x 458 (H) x 280 (D) mm. Weight shall be no more than 13.5 kg.

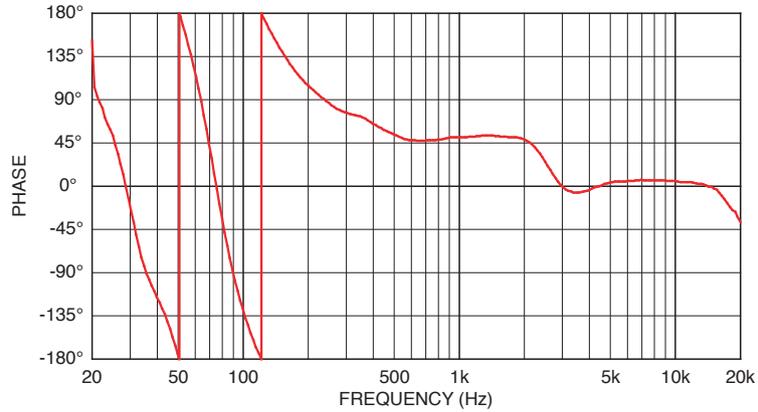
Block Diagrams



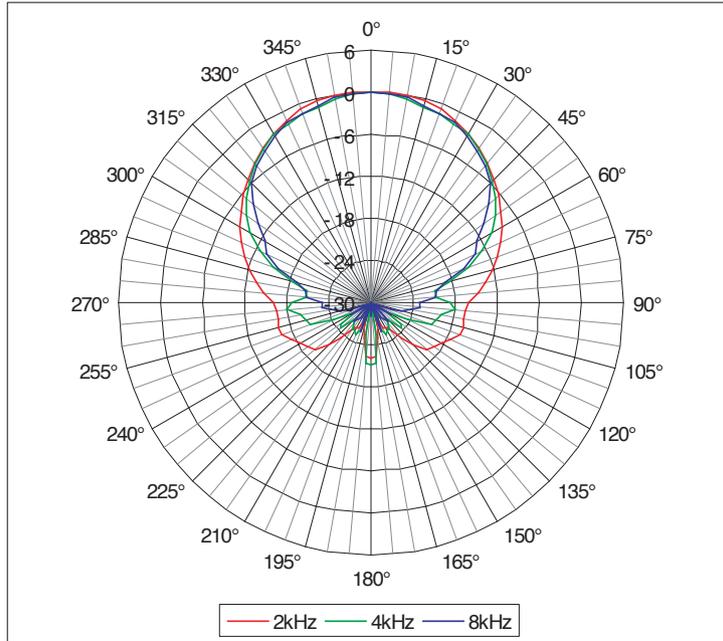
Frequency Response



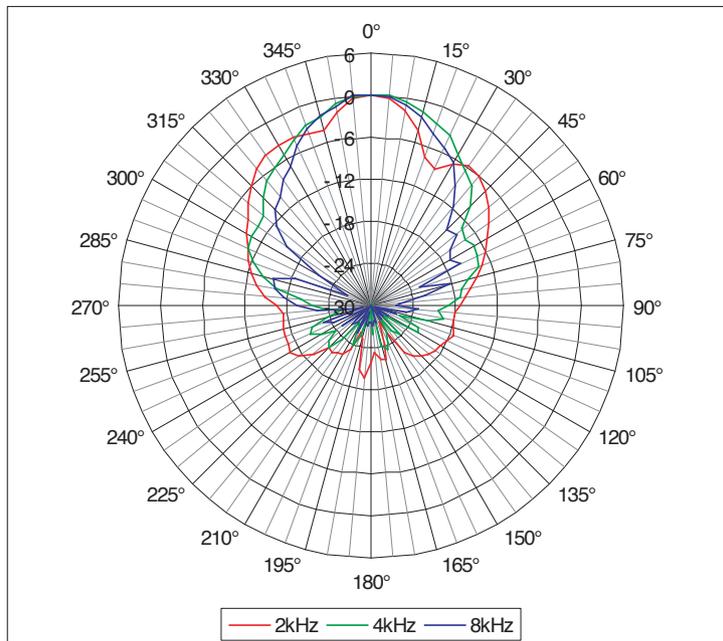
Phase Response



Horizontal Polar Plots



Vertical Polar Plots



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Created in March, 2017

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