

## Overview

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The CHR15 is a 2-way loudspeaker, equipped with a 15-inch woofer and a 1.4-inch HF driver, and perfect for use as a main speaker. Combining carefully selected and customized transducers with the same plywood construction found on Yamaha's high-end CZR Series, the CHR15 offers best-in-class sound quality and durability.



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## Features

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- Featuring a plywood cabinet that delivers a clear sound with minimal vibration
- Plywood enclosure with a polyurea coating for a robust, scratch resistant surface
- Compact size despite the 15-inch LF driver that provides excellent low frequency response
- Dual-angle pole sockets offer both 0° or a -7° down tilt
- Rigging points for use with eye bolts
- Yamaha DSP equipped amplifiers or other compatible signal processors have dedicated speaker processor tuning settings to maximize system performance

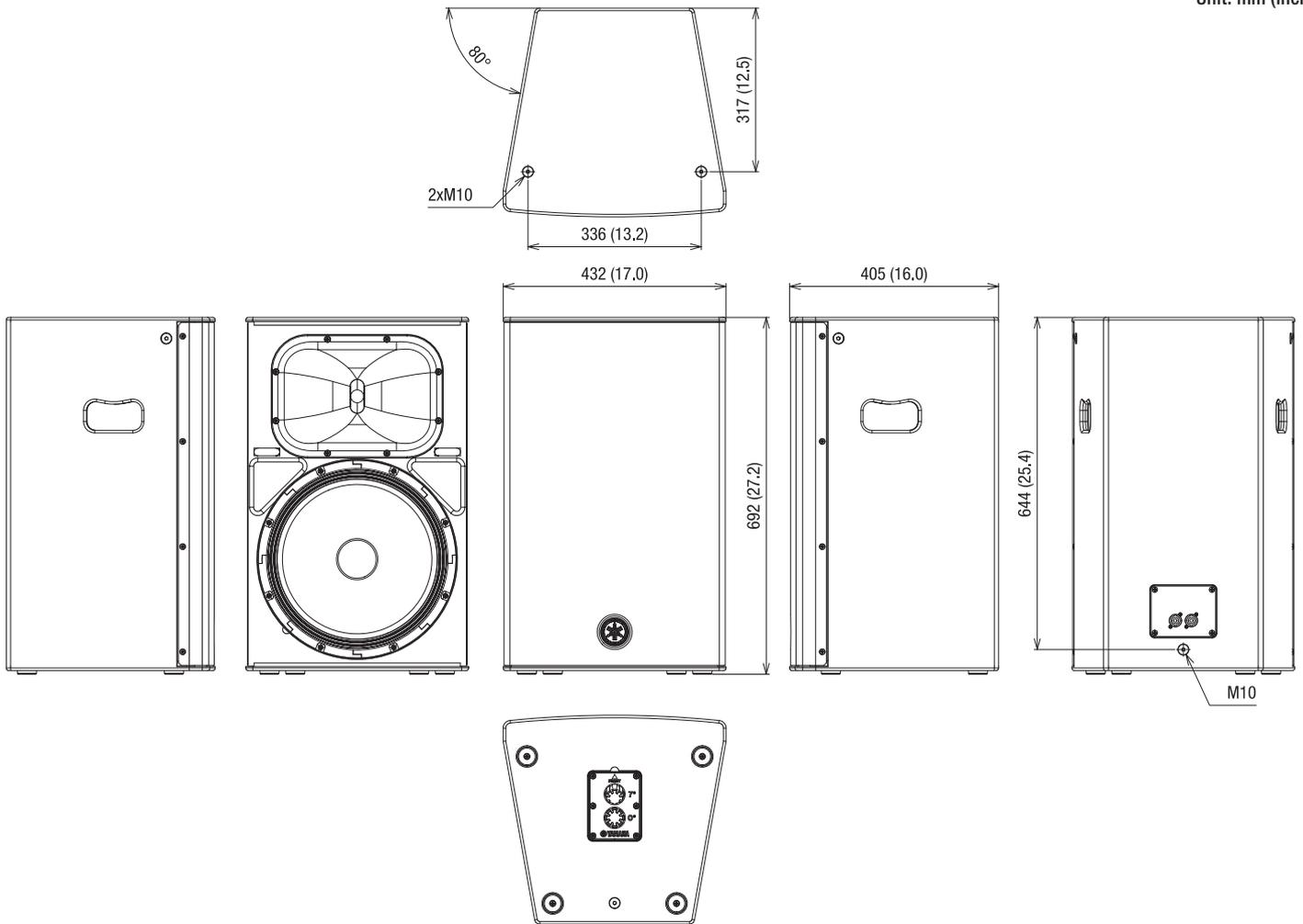
## Specifications

### General Specifications

System Type		2-way Speaker, Bass-reflex
Components	LF	Diameter: 15" cone, Voice Coil: 2.5", Magnet: Ferrite
	HF	Diaphragm: 1.4", Type: 1" throat compression driver, Magnet: Ferrite
Frequency Range (-10 dB)		49 Hz - 20 kHz
Crossover		2.0 kHz
Coverage Angle (Horizontal x Vertical)		H90° x V60°
Nominal Impedance		8 Ω
SPL	Sensitivity (1 W; 1 m on axis)	95 dB SPL
	Peak (Calculated)	125 dB SPL
Power Rating	NOISE	250 W
	PGM	500 W
	PEAK	1,000 W
I/O Connectors		SpeakON NL4MP x 2 (Parallel)
Cabinet Material		Plywood
Finish		Durable Polyurea Painting, Black
Handle		Side x 2
Pole Socket		Ø35 mm x 2 (Bottom, 0° or -7°)
Rigging		Top x 2, Rear x 1 (Fit for M10 x 30 - 50 mm Eyebolts)
Floor Monitor Angle		-
Dimensions (W x H x D) (with rubber feet)		432 mm x 692 mm x 405 mm (17.0" x 27.2" x 15.9")
Net Weight		22.0 kg (48.5 lbs)

## Dimensions

Unit: mm (inch)

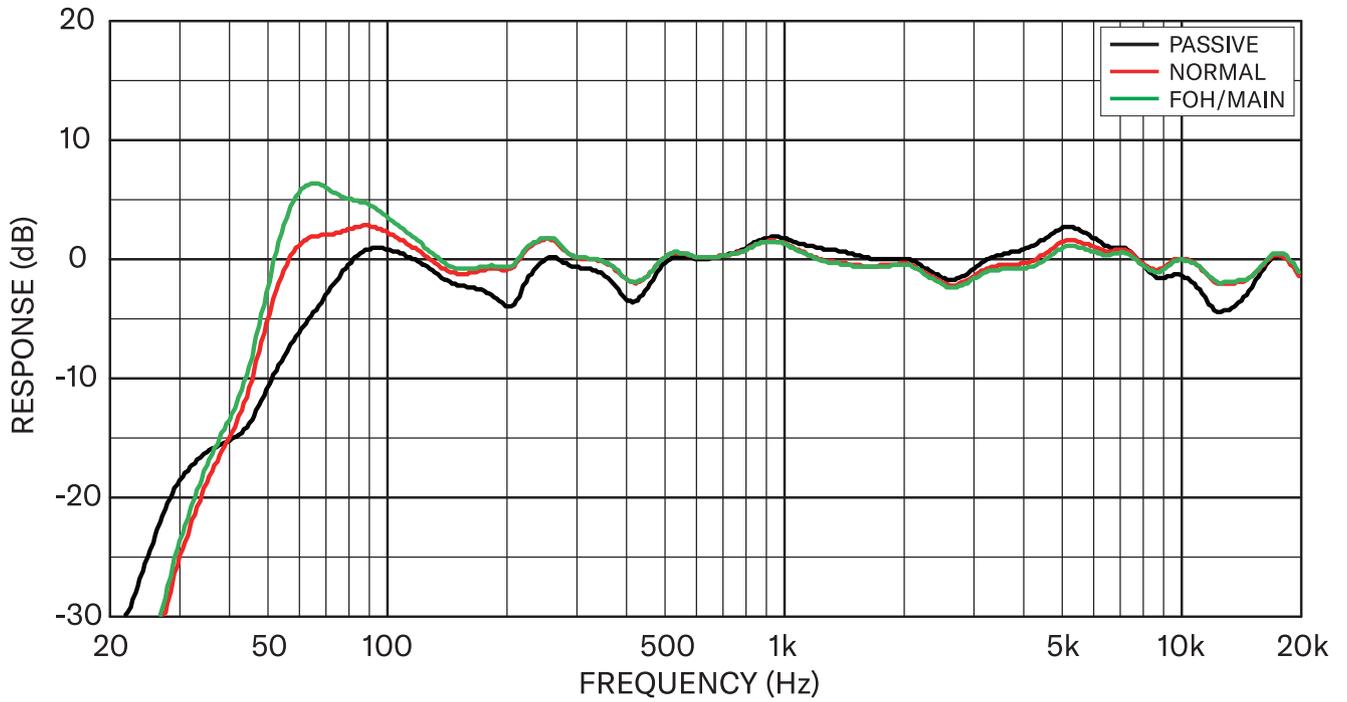


## Architectural and Engineering Specifications

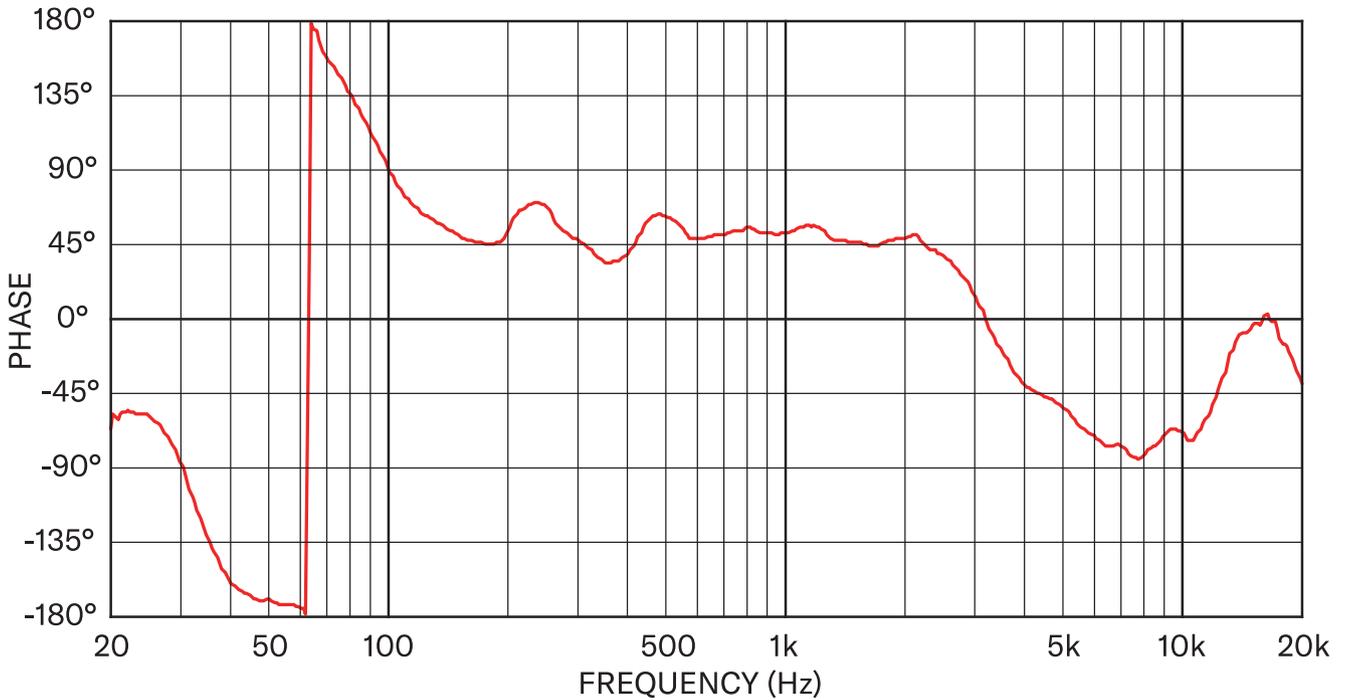
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The Yamaha CHR15 Speaker System shall be a two-way bass-reflex type full-range loudspeaker system having a single 15" cone driver with a 2.5" voice coil for the low frequencies and a 1.4" compression driver for the high frequencies. The CHR15 Loudspeaker shall meet the following performance criteria: Sensitivity shall be 95 dB SPL at 1 watt/1 meter, maximum SPL shall be 125 dB at 1 meter, frequency response shall be 49 Hz to 20 kHz at 10 dB below rated sensitivity, crossover frequency shall be 2.0 kHz, and nominal coverage angle shall be 90° horizontal and 60° vertical via a constant directivity horn. Maximum power ratings shall be 250 watts noise, 500 watts program, and 1000 watts peak into 8 ohms. The loudspeaker shall have two parallel connected SPEAKON (Neutrik NL4) connectors for input. The cabinet shall be constructed of wood with a durable black Polyurea coating. The cabinet shall have two side handles and threaded mounting points for M10 eyebolts (top x 2, rear x 1). Two 35 mm pole sockets shall be provided, one for normal vertical mounting and one that allows the speaker to be angled downward by 7 degrees. Dimensions shall be 432 (W) x 692 (H) x 405 (D) mm. Weight shall be 22 kg.

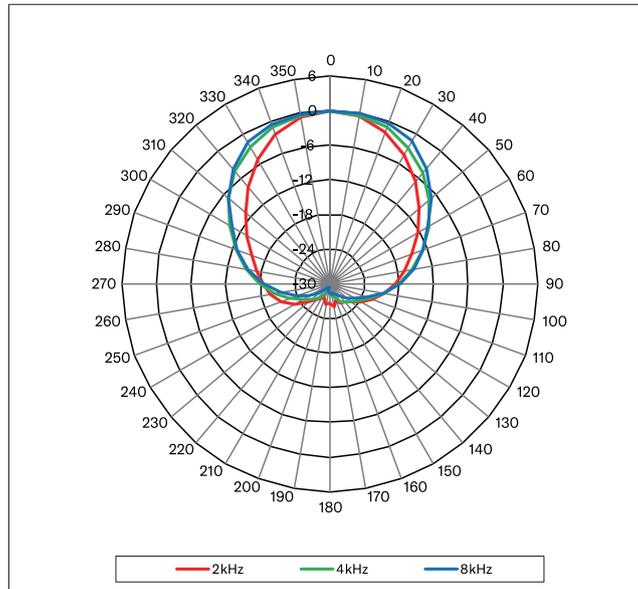
### Frequency Response



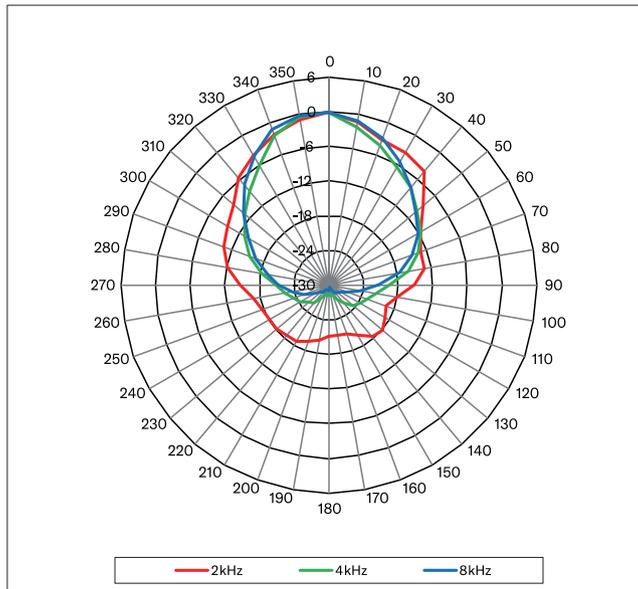
### Phase Response



## Horizontal Polar Plots



## Vertical Polar Plots



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