

## Overview

The CHR12 is a 2-way loudspeaker, equipped with a 12-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 CHR12 offers best-in-class sound quality and durability.



## Features

- 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 12-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

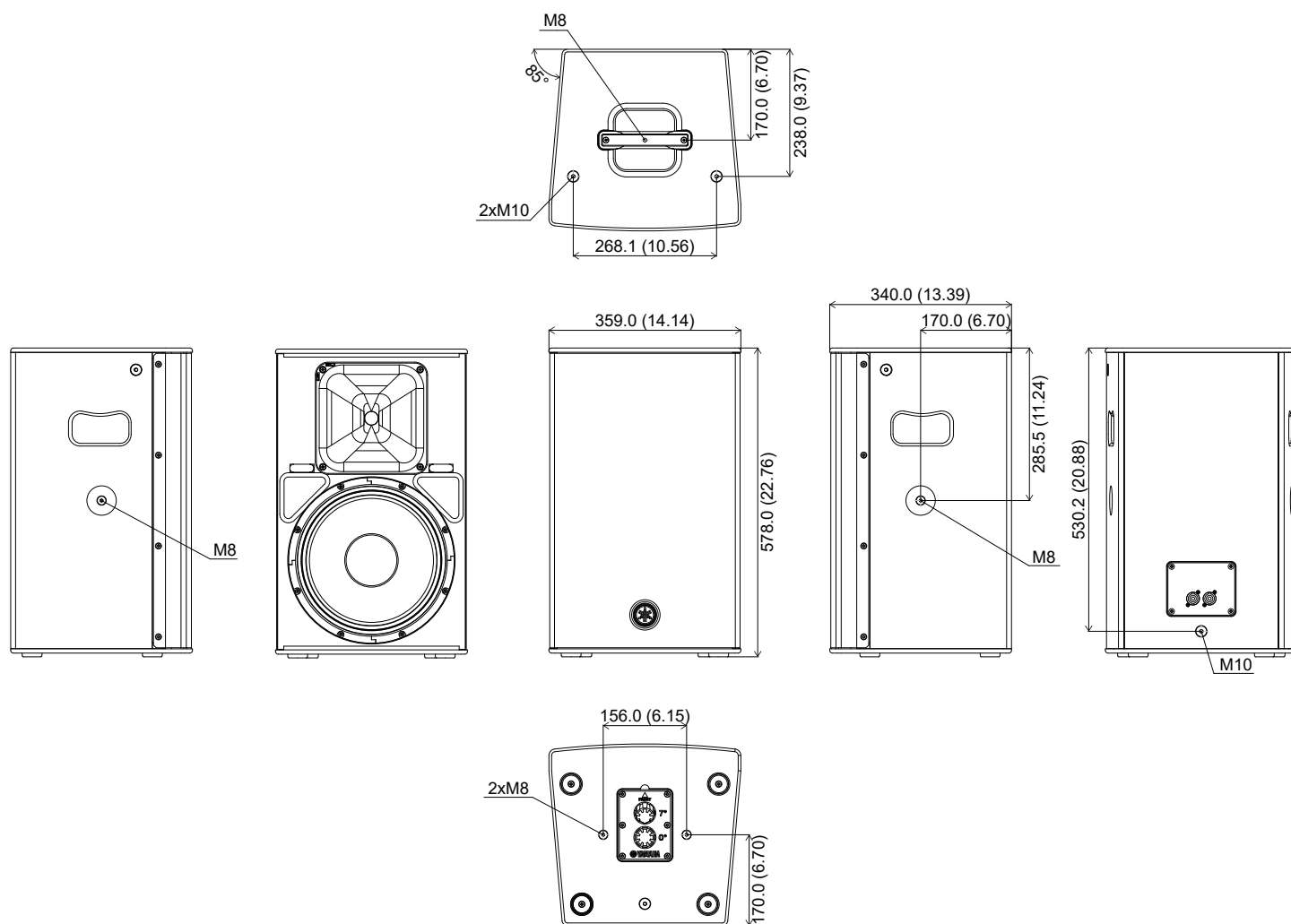
## Specifications

### General Specifications

System Type		2-way Speaker, Bass-reflex
Components	LF	Diameter: 12" cone, Voice Coil: 2.5", Magnet: Ferrite
	HF	Diaphragm: 1.4", Type: 1" throat compression driver, Magnet: Ferrite
Frequency Range (-10dB)		54Hz – 20kHz
Crossover		2.0 kHz
Coverage Angle (Horizontal x Vertical)		H90° x V60° (Rotatable)
Nominal Impedance		8 $\Omega$
SPL	Sensitivity (1W; 1m on axis)	94 dB SPL
	Peak (Calculated)	124 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		Top x1, Side x2
Pole Socket		$\phi$ 35 mm x2 (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)		359 mm x 578 mm x340 mm (14.1" x 22.8" x 13.4")
Net Weight		17.1 kg (37.7 lbs)

## Dimensions

Unit: mm (inch)

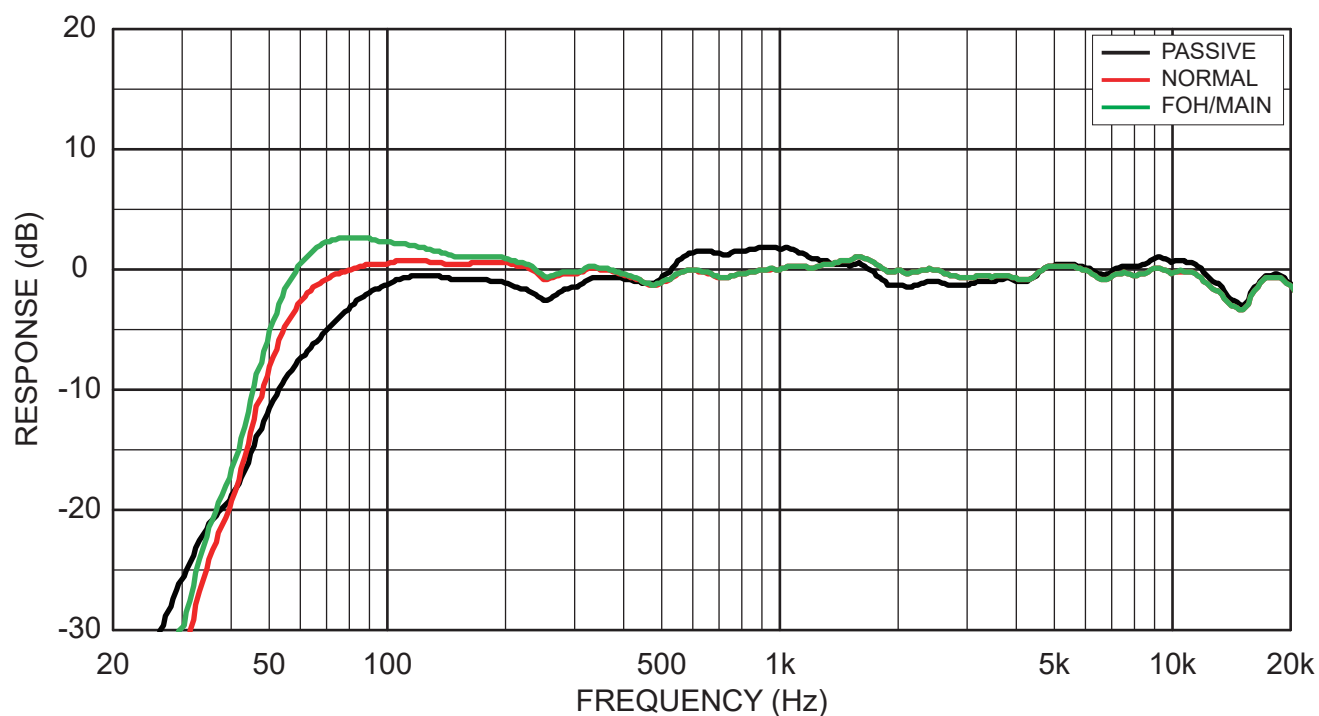


## Architectural and Engineering Specifications

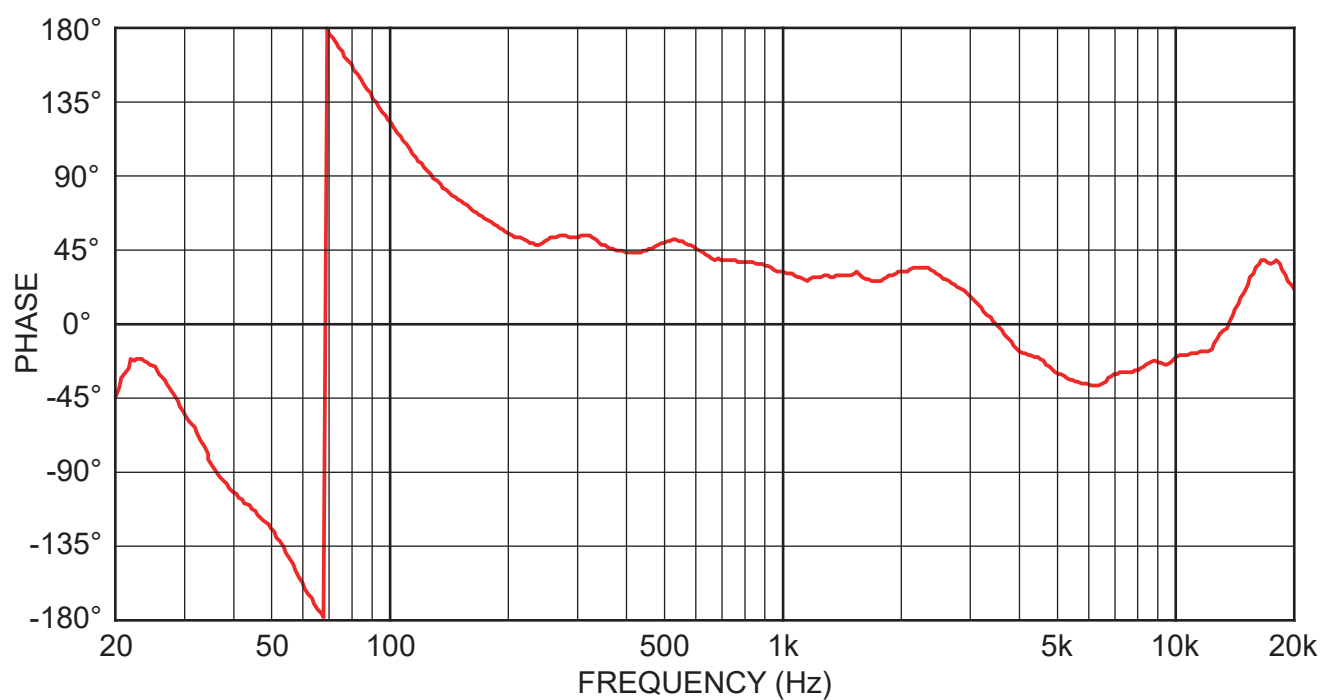
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The Yamaha CHR12 Loudspeaker shall be a two-way bass-reflex type full-range cabinet housing a single 12" cone driver with a 2.5" voice coil for the low frequencies and a 1.4" compression driver for the high frequencies. The CHR12 Loudspeaker shall meet the following performance criteria: Sensitivity shall be 94dB SPL at 1 watt/1 meter, maximum SPL shall be 124dB at 1 meter, frequency response shall be 54Hz to 20kHz at 10dB below rated sensitivity, crossover frequency shall be 2kHz, and nominal coverage angle shall be 90° horizontal and 60° vertical via a rotatable 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 one top handle and two side handles, threaded mounting points for M10 eyebolts (top x 2, rear x 1), and M8 screw holes for installation of an optional U-bracket for direct ceiling or wall mounting. Two 35mm 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 359 (W) x 578 (H) x 340 (D) mm. Weight shall be 17.1kg.

## Frequency Response

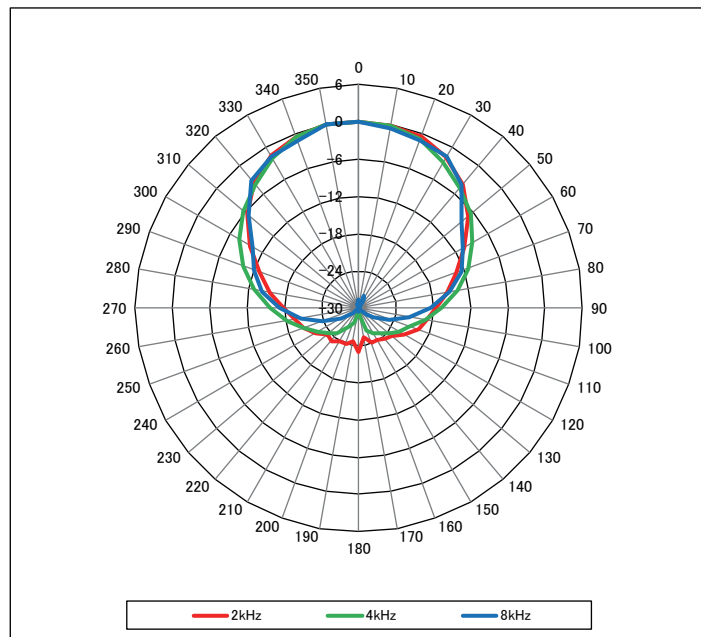


## Phase Response

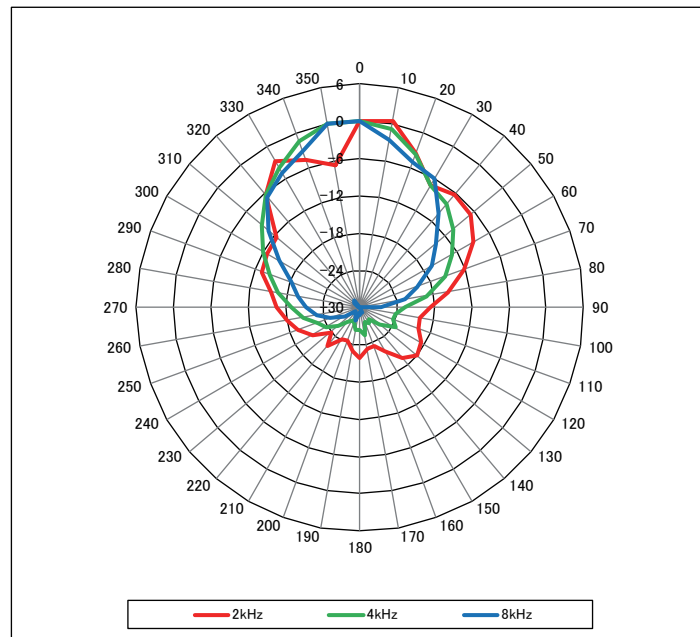


## Polar Plots

Horizontal



Vertical



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