



CELLO SERIES RR 212h

Compact Design, Massive Impact: Loudspeakers that Deliver

The Cello RR 212h is a bi-amped two-way cabinet designed for power and voice propagation. Its exceptional sound reinforcement uses a pair of customized dual 12" (300 mm) low-frequency transducers with a 3" (77 mm) voice coil. The high-frequency section is reinforced with a powerful 2" (50 mm) compression driver having a 2.5" (65 mm) voice coil. These are mounted on a constant directivity rotatable 60° x 40° horn.

The RR 212h is made of Baltic birch ply and is intended for touring and high-end installations, particularly where serious SPLs are required while keeping vocal propagation in mind. A smart design

with clever construction contributes to its relatively compact size.

The use of a CSC Maestro MS 26 controller is recommended with the RR 212h. This cabinet is perfect for live applications or a nightclub.

The touring RR 212h is a perfect match with the CR 218s, RRH 218s and the RR 218s sub-woofers. CB 215s, RR 212s, RR 215s, Harmonica s, Harmonica 3s Flying rails on its side and behind are standard hardware for ease of mounting. It is available in nontoxic black texture paint with a top hat and rubber feet as standard accessories.

KEY FEATURES

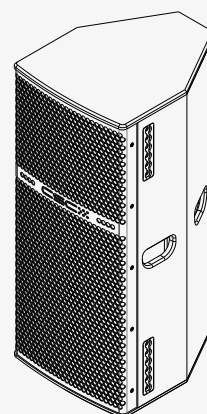
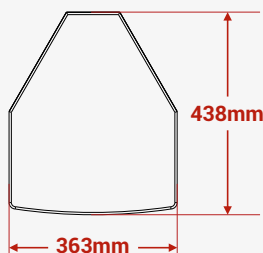
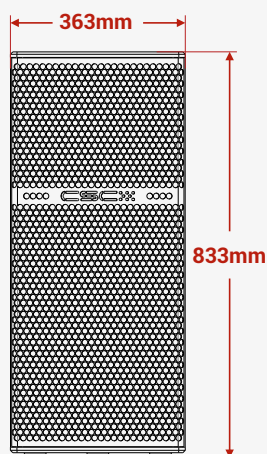
- Compact bi-amped two-way system
- 60° x 40° Dispersion
- Installing rails on its sides & behind

SYSTEM APPLICATIONS

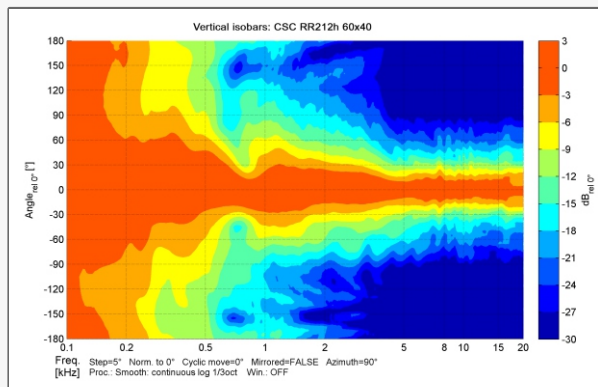
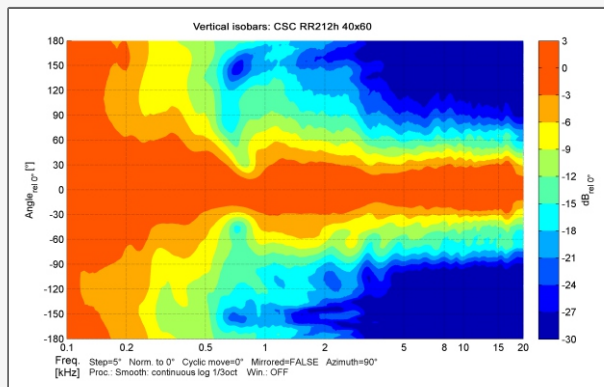
- Concerts & live bands
- Spacious auditoriums
- Worship centers
- Enhancement of club sound
- Main PA for large installations

MODEL NO	RR 212h
Type	Bi-amped two-way medium throw mid high
Frequency Response (1)	65 Hz-17.5 kHz \pm 3 dB
Drivers	LF: 2 x 12" (300 mm) Neo compression driver with a 3" (77 mm) voice coil, HF: 2" (50 mm) compression driver with a 2.5" (65 mm) voice coil
Sensitivity (1W / 1m)	101/109 dB
Maximum SPL (9)	132 dB continuous, 136 dB Max/program
Nominal Impedance	4/8 ohms
Dispersion	60° x 40°
Crossover	HPF 100 Hz
Enclosure	Baltic birch ply
Finish	Non-toxic Textured black paint
Protective Grill	Perforated steel
Connectors	2 x Neutrik NI8
Pin Connections	Input LF: \pm 3, HF: \pm 4; Link through LF: \pm 3, HF: \pm 4
Standard Colours	Black
Fittings	Flying rails, Top hat
Horn	Rotatable
Nominal/ AES Power	1000/80 watts
Maximum/ Continuous/ Program Power	2000/160 watts
Peak Power	4000/320 watts
Accessories	Speaker poles, felted waterproof covers, flying hardware
Dimensions - Product (in mm)	(W) 363x (H) 833 x (D) 438
Dimensions - Including packing (in mm)	(W) 430x (H) 900 x (D) 500
Net Weight (kgs)	33
Shipping Weight (kgs)	37

Mid highs measured on-axis in full space @ one watt/1-meter using band-limited pink noise in the en-devour to continuously improve the product with design refinements introduced into existing products. Any current CSC product may differ in some respect from its published description. However, this will always equal or exceed the original design specifications. Every CSC Product is built to the highest standards and tested to ensure that it meets the performance criteria specified.

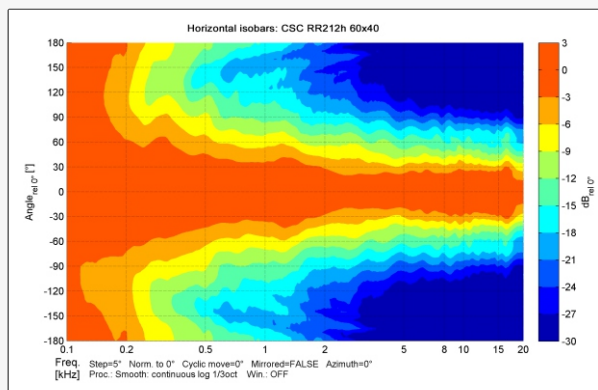
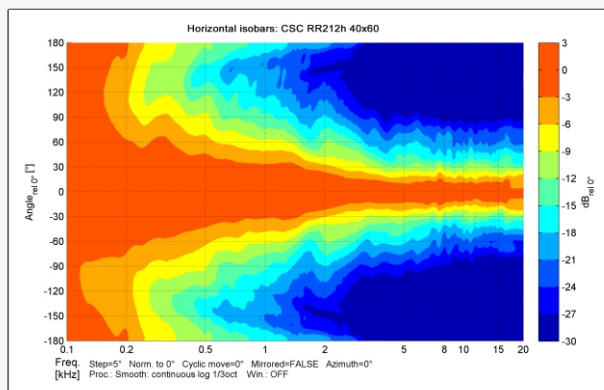


Vertical Polar Coverage (-6 dB)



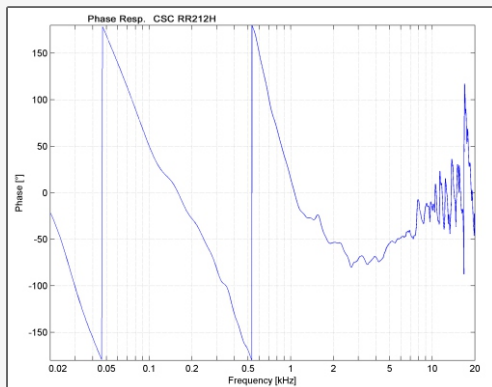
Designed for medium-throw use, the RR 212h despite its MTM design maintains uniform vertical dispersion of 40 degrees. The vertical isobars show a smooth transition as the frequency increases from 500hz to 16 KHz.

Horizontal Polar Coverage (-6 dB)



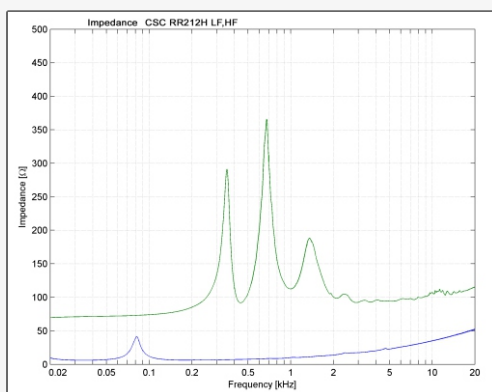
With its smooth and uniform Horizontal dispersion of 60 degrees, it shows a smooth transition as the frequency increases from 500hz to 16 KHz.

Phase Response



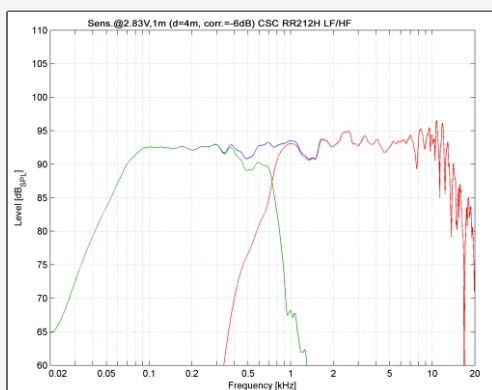
The phase between 2kHz and 8 kHz is under 50 degrees that supports strong vocal clarity and music detail.

Impedance Plot



The Nominal 4-ohm impedance for both LF and HF section simplifies amplifier selection.

Frequency Response (Crossover Split)



Covers 65 Hz to 17.5 kHz cleanly, designed for full range deployment.

Plot/Detail**Why It's Important****Beamwidth vs Frequency Plot**

Shows how coverage narrows or widens across different frequencies, helping optimize speaker placement and aiming in acoustically diverse spaces.

Directivity Index (DI) & Q Factor

Useful for acoustic simulation and modeling; helps predict how focused or diffuse the sound will be in complex installations.

Total Harmonic Distortion (THD)

Indicates how clean and linear the speaker remains under real-world operating power, critical for maintaining clarity at high SPL.

SPL vs Input Voltage

Up to a maximum SPL of 130db.

Sensitivity Graph

Validates the published 98 dB (1W/1m) sensitivity by frequency, ensuring accurate prediction of coverage and level in simulations.

Polars (1/3 Octave)

Provides off-axis response details at 500 Hz, 1 kHz, 2 kHz, 4 kHz, and 8 kHz for more accurate prediction in multi-speaker setups.