



## CELLO SERIES CF 210/CF210-N

Compact Design, Massive Impact: Loudspeakers that Deliver

The Cello CF 210/CF210-N is a versatile, passive two-way loudspeaker Crafted in Baltic Birch. This Dipole arrangement fits perfectly for High SPL installation. There has been a special focus on cabinet size to minimize heat build-up within the cabinet without compromising on transient response.

CF 210/CF210-N is a point source two-way cabinet that houses two powerful 2x10"(250 mm) low-frequency ferrite motors structure and a 1" (25 mm) exit compression driver with a 1.7" (44 mm) voice coil mounted on a constant directivity of CF 210 and 55° X 40° for CF CF 210/CF210-N.

Depending on the application, the cabinet can be installed with its vertical or horizontal orientation. The LF driver has been coupled to the HF horn through its optimally designed crossover.

Cello CF 210/CF210-N cabinet performs perfectly out of the box. For demanding applications, the CSC Maestro MS 26 controller is configured to perform with it's EQ and limiter functions are pre-loaded in the controller. Contrabass CB 215s, CR 218s, RRH 218s, RR 218s, CR 18s, ST 18s, RR 212 and RR 215s are a perfect match for Cello CF 210/CF210-N.

### KEY FEATURES

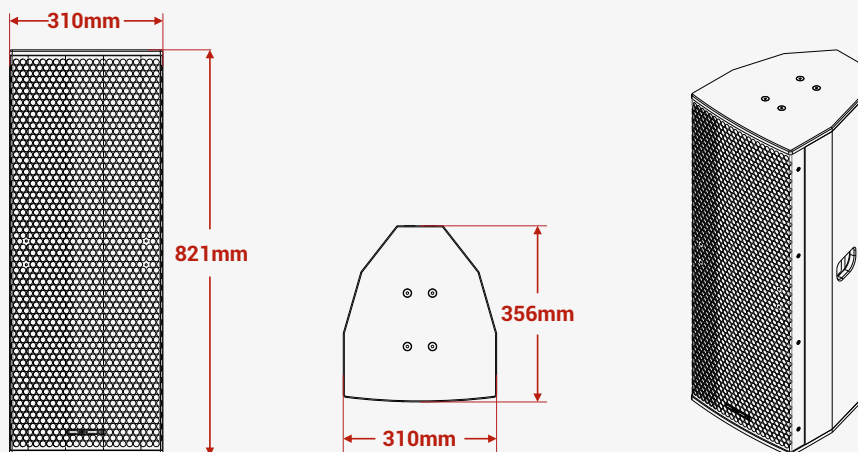
- Compact, two-way system
- Dispersion 80° x 70° horn
- Flexible mounting options with mounting points both on top and behind.
- Ideal for installation and mobile use
- Perforated grill
- Standard black finish
- Rear/Top standard mounting points, Top Hat

### SYSTEM APPLICATIONS

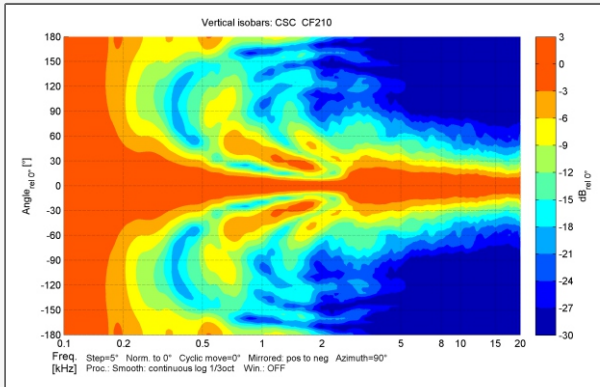
- A/V application and presentations
- Live performances.
- Clubs.
- Auditoriums and large conference rooms
- Bars and lounges
- Places of worship

MODEL NO	CF 210/CF210-N
Type	Two-way passive, full range loudspeaker
Frequency Response (1)	70Hz-20kHz $\pm$ 3dB
Drivers	LF:2x10" (250mm)/ with 3" (with a 75mm voice coil), HF: 1" (with a 44mm voice coil)
Recommended Amplifier Upto	1000 watts
Sensitivity (1 W / 1 m)	101 dB
Maximum SPL (9)	127 dB continuous, 133 dB peak
Nominal Impedance	4 ohms
Dispersion	CF 210: 80° x 70° & CF210-N: 55° x 40°
Crossover	HPF 110Hz
Enclosure	Baltic birch ply
Finish	Non-toxic Textured black paint
Protective Grill	Perforated steel
Connectors	2 x Neutrik NL4
Pin Connections	Input: $\pm$ 1, Link through: $\pm$ 2
Standard Colour	Black
Fittings	Rear / Top standard mounting points, Top hat
Horn	Rotatable
Nominal/ AES Power	600 watts
Maximum/ Continuous/ Program Power	200 watts
Peak Power	2400 watts
Accessories	Caster, Speaker poles, Felted waterproof covers
Dimensions - Product (in mm)	(W) 310 x (H) 821 x (D) 356
Dimensions - Including packing (in mm)	(W) 385 x (H) 900 x (D) 430
Net weight (kgs)	30
Shipping Weight (kgs)	33

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.

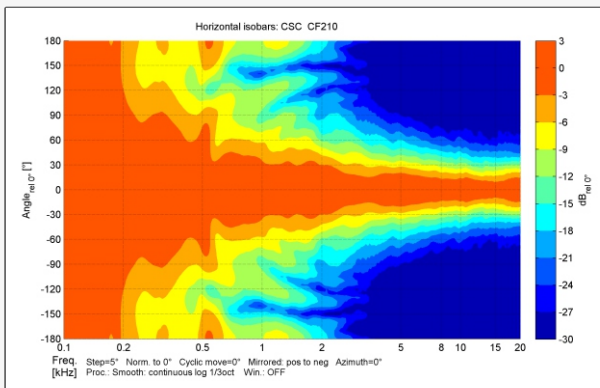


## Vertical Polar Coverage (-6 dB)



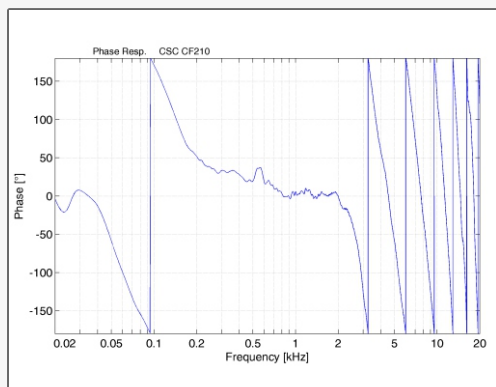
The CF210 is a vertically stacked design with dual 10" drives that provide extended vertical control of plus minus 45 degrees from 500 hz onwards,

## Horizontal Polar Coverage (-6 dB)



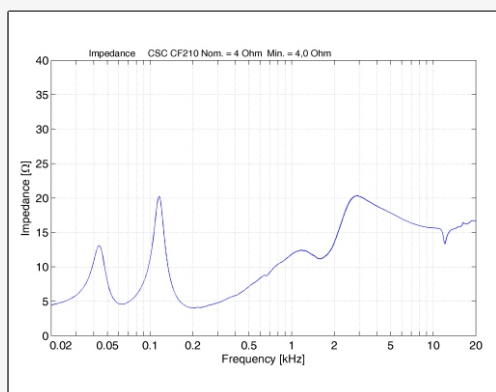
The horn offers smooth 60° horizontal coverage with no hot spots, ensuring controlled dispersion.

## Phase Response



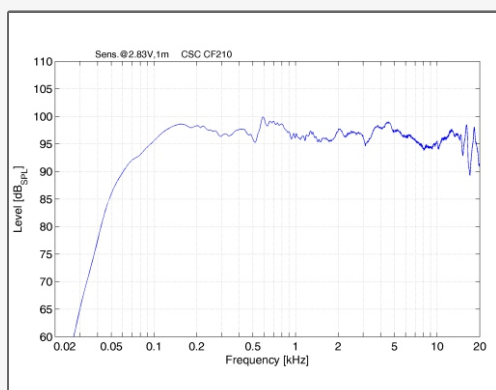
Phase alignment is optimized near crossover for clear projection.

## Impedance Plot



Dual 4-ohm components maintain amplifier compatibility with bi-amp operation or passive full-range use.

## Frequency Response (Crossover Split)



Responsive from 75 Hz to 18.5 kHz, delivering punchy lows and crisp highs with smooth crossover blending.

**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**

Designed for high-output needs, it reaches up to 124 dB SPL with minimal distortion at peak levels.

**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.