CREATIVE SOUND CONCEPTS

CELLO SERIES CF 12

Compact Design, Massive Impact: Loudspeakers that Deliver

Two-way passive cabinets designed to provide exceptional sound reinforcement from a compact enclosure. Crafted in Baltic Birch ply, these cabinets fit perfectly for installation and mobile use. These have the flexibility to suit even the most difficult applications, owing to their special design. There has been a focus on cabinet size to minimize heat build-up within the cabinet without compromising on transient response. With their un-coloured and transparent timber these are perfect for a pounding nightclub or a critical opera. Crafted in Baltic Birch ply, these are perfectly designed for installation and can double up as a stage monitor for small bands.

CF 12: It features a powerful 12" (300 mm) low frequency driver & a 1" (25mm) compression driver with a 1.7" (44 mm) voice coil mounted on a constant directivity 60° x 50° horn. Depending on the application, the horn can be rotated to be used in either its vertical or horizontal orientation.

For demanding applications, the CSC Maestro MS 26 controller is pre-configured with it's EQ limiter crossover.

KEY FEATURES

- Compact, two-way system
- CF 10 80° x 70° while CF 12/CF15 60° x 50° horn
- Mounting points behind the cabinet
- Large port behind the cabinet
- Can double as a stage monitor & top hat

SYSTEM APPLICATIONS

- A/V applications and presentations
- Live performances
- Clubs reinforcement
- Stage monitoring
- Convention centres
- Auditoriums
- Places of worship
- Ideal for installation and mobile use

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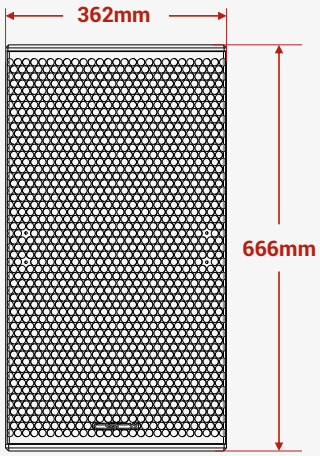
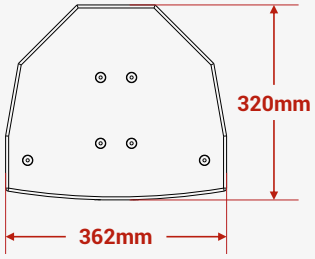
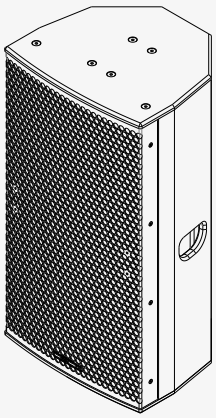
MODEL NO	CF 12
Type	Compact two way full range
Frequency Response (1)	65 Hz-19.5 kHz ± 3 dB
Drivers	LF: 12" (300 mm) with a 3" (77 mm) voice coil, HF: 1" (25 mm) compression driver with a 1.7" (77 mm) voice coil
Recommended Amplifier Upto	1000 watt
Sensitivity (1 W / 1 m)	98 dB
Maximum SPL (9)	124 dB continuous, 130 dB Max
Nominal Impedance	8 ohms
Dispersion	60° x 50°
Crossover	HPF 55 Hz full range / 100 Hz with sub
Enclosure	Baltic birch ply
Finish	Non-toxic Textured black paint
Protective Grill	Perforated steel
Connectors	2 x Neutrik NL4
Pin Connections	Input: ± 1, Link through: ± 2
Standard Colours	Black
Fittings	Rear/ Top standard mounting points, Top hat
Horn	Rotatable
Nominal/ AES Power	500 watts / 60 watts
Maximum/ Continuous/ Program Power	1000 watts / 120 watts
Peak Power	2000 watts / 240 watts
Accessories	Wall / ceiling mount bracket, Extension pipe
Dimensions - Product (in mm)	(W) 362 x (H) 666 x (D) 320
Dimensions - Including packing (in mm)	(W) 430 x (H) 725 x (D) 390
Net Weight (kgs)	27
Shipping Weight (kgs)	29

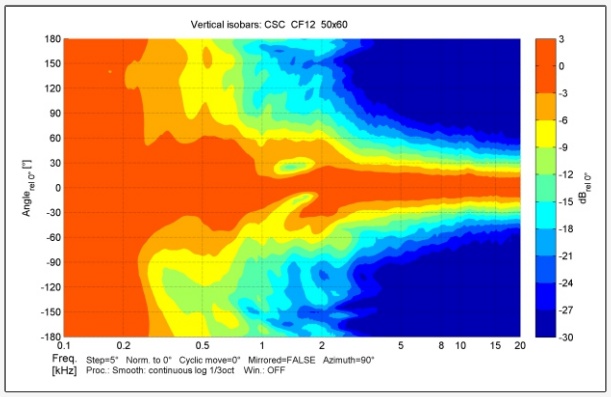
Mid highs measured on-axis in full space @ one watt/1-meter using band-limited pink noise in the en-devour to continuously improve the product with design refinements introduced into existing products. Any current CSC product may differ in some respect from its published description. However, this will 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.

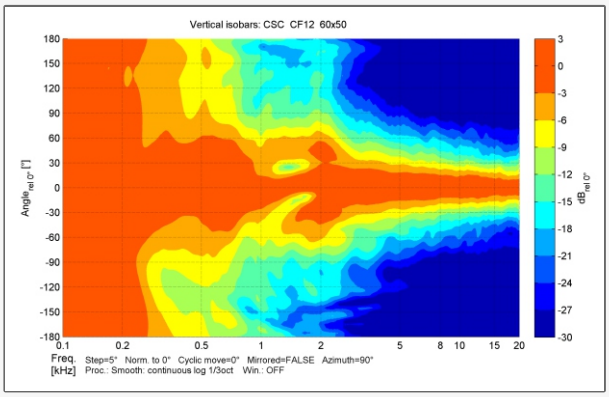






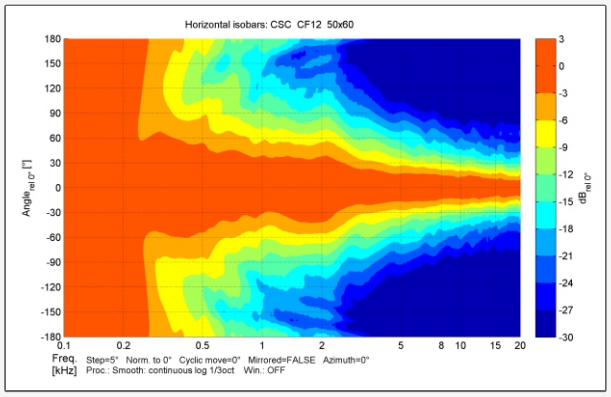
Vertical Polar Coverage (-6 dB)

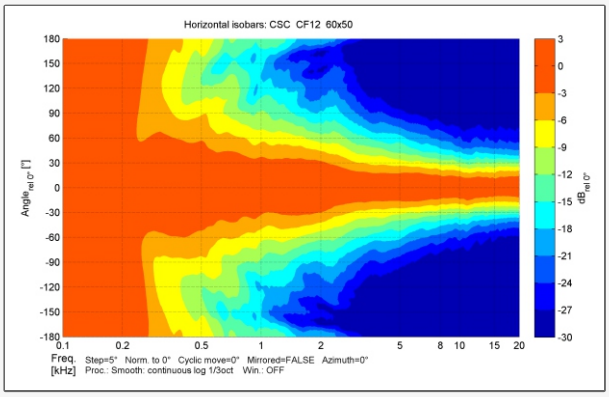




Maintains precise 50-degreevertical control from 1000 Hz onwards.

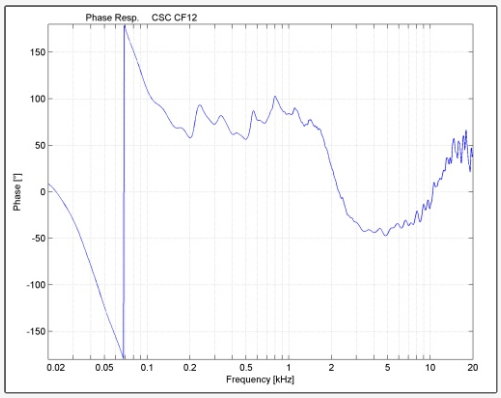
Horizontal Polar Coverage (-6 dB)





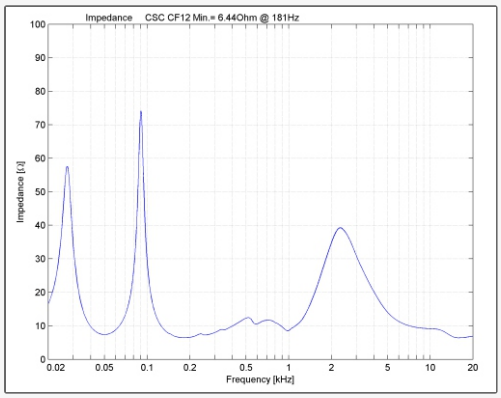
Narrow and smooth horizontal coverage from 500onwards with an average 60 degrees dispersion up to 10KHz.

Phase Response



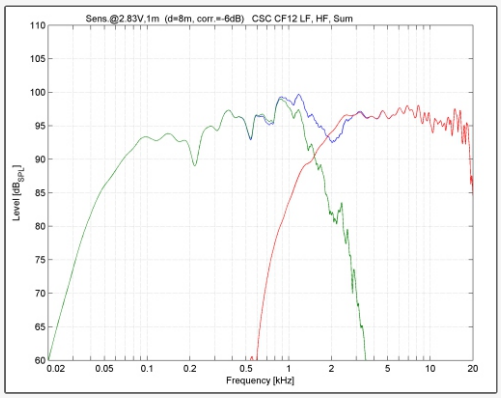
Smooth response yields minimal phase distortion, enhancing clarity for both music and speech.

Impedance Plot



8-ohm impedance supports flexible amplifier configuration and stable load across usage scenarios.

Frequency Response (Crossover Split)



Extended response from 65 Hz to 18.5 kHz with efficient LF-HF crossover transition for impactful delivery.

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	Maximum SPL is up to 124db.
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.