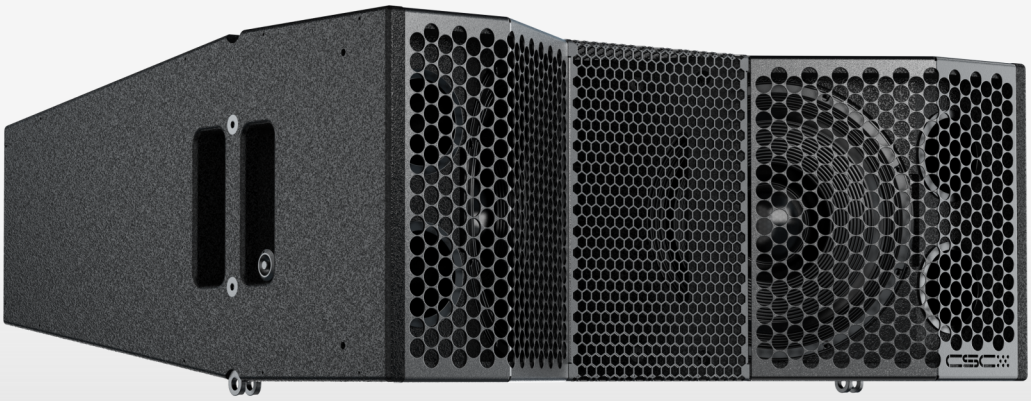


CELLO SERIES HARMONICA 210

Powerful Performance Meets Perfect Dispersion.

The Harmonica 210 is a compact, two-way, bi-amplified line array loudspeaker designed for professional applications, featuring an innovative isophasic horn for precise wavefront control.

The unique design results in an almost seamless connection of the horn openings in the high-frequency response range. This design also makes it possible to centralize the sound sources in the mid-range. Resulting in improved dispersion characteristics delivering exceptional performance, clarity, and versatility for large concerts, clubs, stadiums, and demanding touring or installation environments.

This line array element is engineered to deliver high output and precise coverage for professional sound reinforcement applications. It combines the power and punch of dual 10" low-frequency drivers with the articulate high-frequency reproduction of a large 1.4" exit compression driver with a 77mm voice coil, resulting in a versatile and potent building block for scalable line array systems.

The design of the hardware makes it possible to cover all applications of the line array with minimum effort. A frame can be used for both ground stacking and rigging. Operation is intuitive and simple. This new design language leads to new visual aesthetics and application optimization capabilities. The generous dimensioning of the components leads to many years of unproblematic functionality.

KEY FEATURES

- Precision-engineered waveguide geometry to minimize inter-cabinet interference.
- Perfectly tune diso-phasicwave guide for flat wave front and optimal phase response
- Long wave guide length for wide frequency control
- Extreme directivity control in HF section

SYSTEM APPLICATIONS

- High-end permanent installations
- Demanding touring applications Concert venues
- Theatres
- Auditoriums
- Outdoor events

CREATIVE SOUND CONCEPTS

MODEL NO	Harmonica 210
Type	Two-way bi-amped line array element
Frequency Response (1)	55 Hz - 20 kHz ± 3dB
Drivers	LF: 2 x 10" neodymium drivers with a 3" voice coil HF: 1.4" neodymium compression driver with a 3" voice coil mounted on a iso-phasic waveguide.
Power handling AES	800/1000 watts
Sensitivity (1 W / 1 m)	LF: 101dB, HF: 110 dB
SPL Nominal (single line array element)	LF: 130 dB,
Nominal Impedance	LF: 8 ohms, HF: 8 ohms
Dispersion (H X V)	80° x 15°
Crossover	Depending on the array size (presets available)
Enclosure	Baltic birch ply
Finish	Non-toxic textured black paint
Protective Grill	Treated and coated alloy steel grill with acoustic transparent fabric
Connectors	2x Neutrik NL4
Pin Connections	LF: ± 1, Link through LF: ± 2
AES Power Handling	800 watts
Maximum/ Continuous/ Program Power	1600 watts
Peak Power	3200 watts
Accessories	Flying frame felt waterproof covers, Flying
Wave Guide	Iso-phasic horn
Standard Color	Black
Fittings	All internal hardware
Dimensions - Product (in mm)	(W) 732 x (H) 318 x (D) 655
Dimensions - Including packing (in mm)	(W) 752 x (H) 338 x (D) 675
Net weight(kgs)	35
Shipping Weight(kgs)	42

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.

