CPS-210P (64/96)

CPS SERIES DATASHEET

TWO MODELS: 60x40 or 90x60

Extremely compact & powerful, bi-amplified coaxial point source element. Dual high power 10” neodymium transducers and a unique 1.4” Exit throat (HF 2” voice coil/ MF 3” voice coil) coaxial neodymium compression driver. Two models depending on rotatable horn: CPS-210P/64 (60°H x 40°V) or CPS-210P/96 (90°H x 60°V).

Key features

- Extraordinary power-to-size ratio
- Three way bi-amplified system
- 1.4” dual diaphragm compression driver
- Two models depending on coverage
- Ergonomic design in premium birch plywood & finished in polyurea

Applications

- Outdoor events
- Medium sized stadiums
- Houses of worship
- Clubs
- Theatres
- Auditoriums

General description & specifications

The CPS-210 is a high-output extremely compact and extremely powerful 3-way, bi-amplifiedl Coaxial Point Source element designed for medium sized touring & fixed installations.

It uses two low distortion 10” (3” DUO double layer voice coil) speakers for the low frequencies with exclusive Malt Cross cooling technology, FEA optimized neodymium magnet circuit, aluminium demodulating ring and weatherproof cone.

For the mid/high frequencies it uses an ultra light weight 1.4” dual diaphragm coaxial compression. The unique voice coil technology employs a light weight copper clad aluminium wire, wound inside and out of the Kapton former to improve heat dissipation, dramatically increasing the acoustic output and reliability of the driver while minimizes the power compression.

The larger annular midrange diaphragm covers the frequency range between 300Hz and 7KHz with a smooth, linear response. The ultra light annular diaphragm for the high frequencies offers exceptional transient response with very high efficiency from 4KHz to 22Khz. With two subsystems in one each driver covers a smaller frequency range for increased power handling, high dynamic and extremely low distortion and delivers excellent phase coherence & perfect time alignment without problems of multi-source interference.

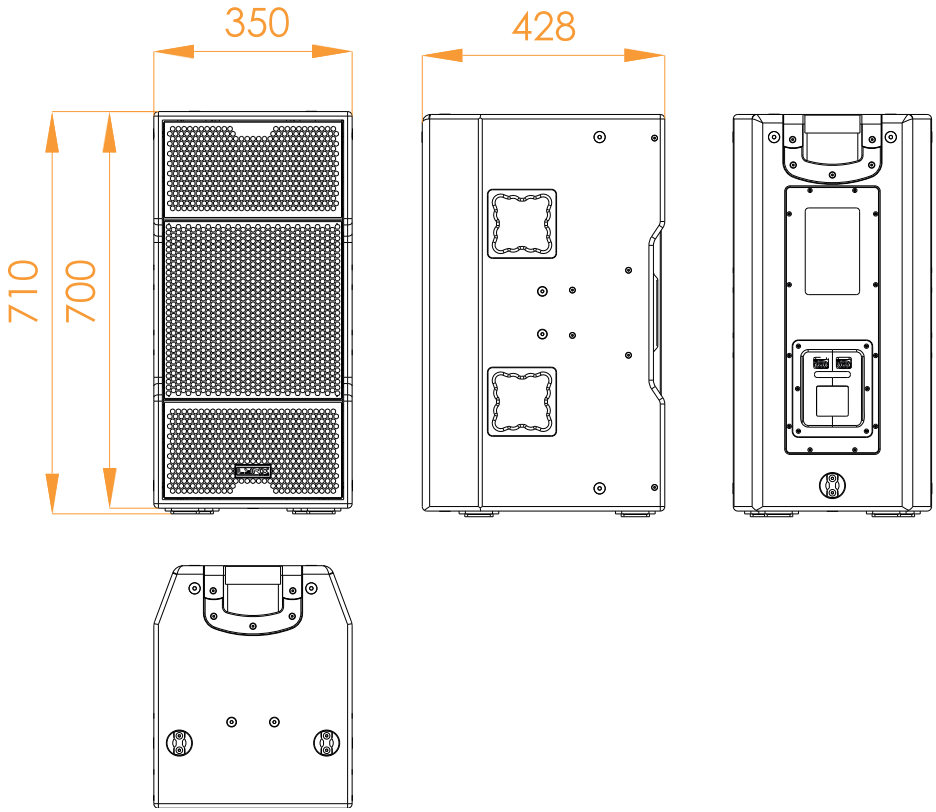
The enclosure is made from premium grade birch plywood and finished with a polyurea coating for longer durability & weather protection.

Technical Data

Components	
• LF:	LF: 2 x 10” (3” voice coil), neodymium magnet, 1400W (AES).
• MF/HF:	MF: 3” (76mm) voice coil, 90W (AES). HF: 2” (51 mm) voice coil, 50W (AES)
Frequency range	63 Hz - 20 KHz (-6dB)
Coverage	Rotatable 60°H x 40°V / 90°H x 60°V
Max SPL*	Low: 130.5 dB / 136.5 dB - Mid/High: 131 dB / 137 dB
Sensitivity	LF: 103 dB MF/HF: 113 dB
Impedance	Low section: 8 Ω Mid/high section: 16 Ω
Crossover	Mid/high: 4500Hz Low/mid: 600 Hz
Speakon connection	NL4MP +1/-1 Low, +2/-2 Mid/high
Finish	Polyurea coating, high grade resistant paint
Material	15 mm Premium birch plywood
Dimensions	710 x 350 x 428 mm (H x W x D)
Weight	33 Kg (72.75 lbs)

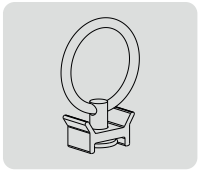
*Calculated maximum SPL based on rated peak power and measured sensitivity.

Dimensions

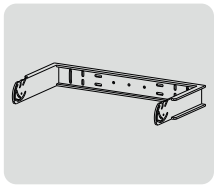


Accessories

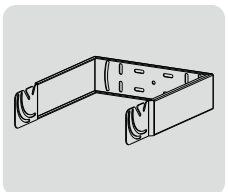
AGR-10
Eye bolt for CPS-214, CPS-210 and CPS-14



SC-FC1
Lightweight install stud for CPS-214, CPS-210 and CPS-14

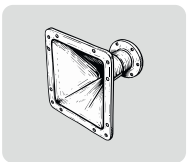


UBR-HCPS210
Horizontal U bracket for CPS-214, CPS-210 or CPS-14

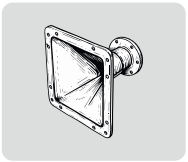


UBR-VCPS210
Vertical U bracket for CPS-214, CPS-210 or CPS-14

FD-CPS210
Nylon protection for CPS-214



DI-1464C
Rotatable horn for CPS-210/64 or CPS-14/64 (60° x 40°)



DI-1496C
Rotatable horn for CPS-210/96 or CPS-14/96 (90° x 60°)