CPS-14P (64/96) CPS SERIES DATASHEET

TWO MODELS: 60x40 or 90x60

Extremely compact & powerful, 3-way bi-amplified coaxial point source element. High power 14" neodymium transducer and a unique 1.4" exit dual diaphgram coaxial driver. Two models depending on rotatable horn: CPS-14P/64 (60°H x 40°V) or CPS-14P/96 (90°H x 60°V).

Key features

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

Applications

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

General description & specifications

The CPS-14 is a high-output extremely compact and extremely powerful 3-way bi-amplified Coaxial Point Source element designed for medium sized touring & fixed installations.

It uses a low distortion 14" (4" DUO double layer voice coil) custom 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.

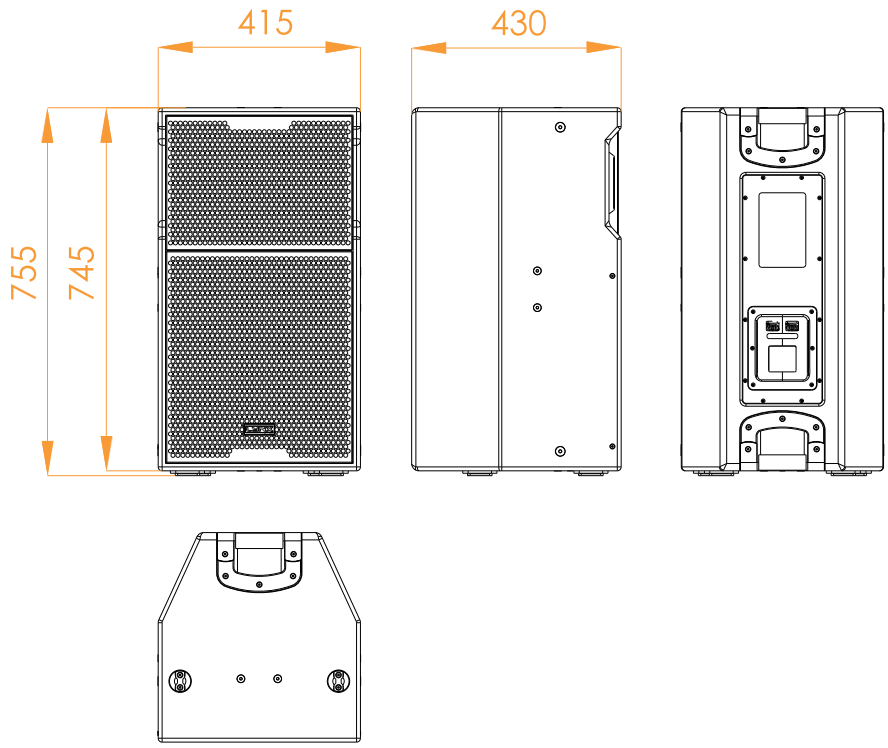
The enclosure is made from premium grade birch plywood and finished with a polyurea coating for longer durability & weather protection.

Technical Data

Components	
• LF:	LF: 1 x 14" (4" voice coil), neodymium magnet
• MF/HF:	1 x 1.4" exit dual diaphragm coaxial driver MF: 3" (76 mm) voice coil, 90 W (AES). HF: 2" (51 mm) voice coil, 50W (AES)
Frequency range	55 Hz - 22 KHz (-6dB)
Coverage	Rotatable 60°H x 40°V / 90°H x 60°V
Max SPL	Low: 130 dB / 136 dB peak Mid/High: 132 dB / 138 dB peak
Sensitive	LF: 100 dB MF/HF/: 113 dB
Impedance	Low section; 8 Ω Mid/HIgh section: 16 Ω
Crossover	Mid/high: 4500 Hz 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	755 x 415 x 430 mm (H x W x D)
Weight	31 Kg (68.3 lbs)

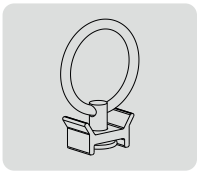
*Calculated maximum SPL based on rated peak power and measured sensitivity.

Dimensions

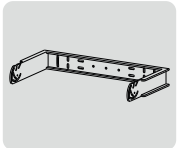


Accessories

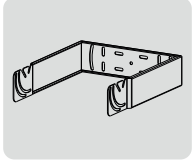
AGR-10
Eye bolt for CPS-214, CPS-210 and CPS-14



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

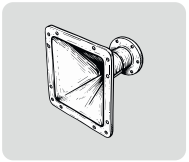


UBR-HCPS214
Horizontal U bracket for CPS-214, CPS-210 or CPS-14

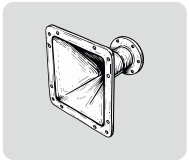


UBR-VCPS214
Vertical U bracket for CPS-214, CPS-210 or CPS-14

FD-CPS14
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°)