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3D Immersive Sound - Ceiling



2 way surround cinema coaxial speaker for 3D immersive systems

P12C

The P12C is a surround high-end cinema speaker, designed to reproduce overhead (ceiling) channels within a 3D immersive system. It can eventually be assisted with DKaudio bass reinforcement module.

The P12C is equipped with a low-mid frequencies 12" (31 cm) loudspeaker, and a 2" high frequency coaxial driver.

The P12C only requires a single amplification channel and performs with or without additional processor.

The use of a coaxial loudspeaker allows to reduce as much as possible the height of the enclosure and to have a wide circular and homogeneous directivity, near 100°.

The P10C can be assisted with DKaudio extra-thin bass reinforcement modules: R212 (17cm depth) or R18EXP (34 cm depth).

Musicality, precision and dynamics are merged with an excellent performance and a wide range of allowable power. This allows P12C to easily reproduce the most sophisticated and constraining sound messages with a studio audio quality.

Its design and ergonomics fits with the immersive 3D audio whitepapers, and thus offers a constant height under ceiling, whatever the vertical inclination.

The top of the loudspeaker, strictly perpendicular to its front, allows the use of a laser pointer for a very accurate orientation.

Orientation pitch: 2.5° vertical and 3° horizontal.

The use of neodymium magnet reduces the speaker weight.



TECHNICAL SPECIFICATIONS

Frequency response ($\pm 3\text{dB}$) : **55 Hz - 21 kHz**
Usable bandwidth (-10dB) : **45 Hz - 22 kHz**
Efficiency (2,83 Vrms @1m) : **101 dB**
AES power capacity: **465 W**
RMS power capacity: **440 W**
Advisable amplification: **150 to 1000 W**
Maximum calculated SPL: **127 dB**
Peak calculated SPL: **133 dB**
Impedance: **8 Ω**
Directivity (-6dB) : **95° conical**
Filtering: **800 Hz passive**

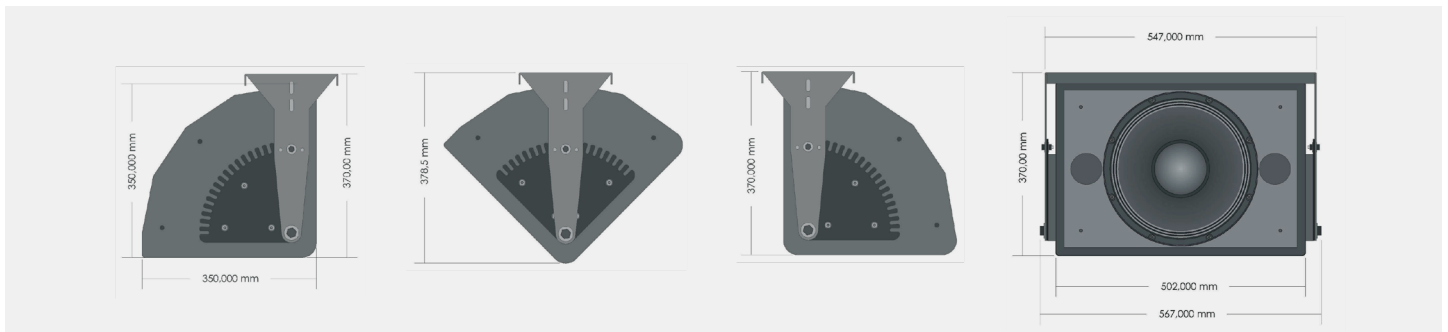


PHYSICAL SPECIFICATIONS

Dimensions HxWxD (mm): **350 x 502 x 350**
Dimensions with bracket (mm): **370 x 567 x 394**
Material: **16mm medium wood**
Finishing: **Black textured paint**
Connectors: **Universal terminal block**
Lifting sytem: **Tiltable bracket**
Additional anchors: **6 x M8 secure anchor points**
Front mask: **Black textile (Jersey) on wooden frame**
Tiltable bracket: **30/10 steel, black satin oven-baked paint**
Weight: **21.70 Kg (excl. bracket system)**

Compatible with DOLBY® ATMOS and Barco® Auro 11.1

SHAPE DRAWINGS



COMPLEMENTS AND ACCESSORIES

R212: **Twin 12" extra thin (17cm) bass reinforcement**
R18EXP: **18" very thin (34 cm) bass reinforcement**
PLP12C: **Rectangular mounting plate for ceiling suspension - Steel**
LYP12C : **P12C tiltable bracket - Steel**
LYP12CAL : **P12C tiltable bracket - Aluminium**



ACOUSTIC EQUIPMENT

Low/Mid frequency speaker: **1 x 12" with 4" coil, edge-winding flat aluminium wire, neodymium magnet**
Mid/High frequency driver: **1 x 2" with 2,87" coil, edge-winding flat aluminium wire, titanium membrane, neodymium magnet**
Horn: **Low frequency speaker cone**
Passive filter: **Epoxy printed circuit board, plastic-film capacitors, high-quality iron and air chokes, non-inductive wound resistors**