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3D Immersive Sound



2 way surround cinema speaker for 3D immersive systems

A1514F

The A1514F is a surround high-end cinema speaker, designed to reproduce lateral and rear channels within a 3D immersive system.

The A1514F can eventually be assisted with DKaudio bass reinforcement module. Equipped with a low-mid frequencies 15" (38 cm) loudspeaker, and a 1.4" high frequency driver with a linear directivity horn.

The A1514F only requires a single amp channel and performs with or without additional processor.

The A1514F can be assisted with DKaudio extra-thin bass reinforcement modules: R212 (17 cm depth) or either R18EXP (34 cm depth), R18 or R218.

Musicality, precision and dynamics are merged with an excellent performance and a wide range of allowable power. This allows A1514F 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 $\pm 55^\circ$ horizontal tilt and $\pm 23^\circ$ vertical tilt.

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 2° horizontal.

▶ TECHNICAL SPECIFICATIONS

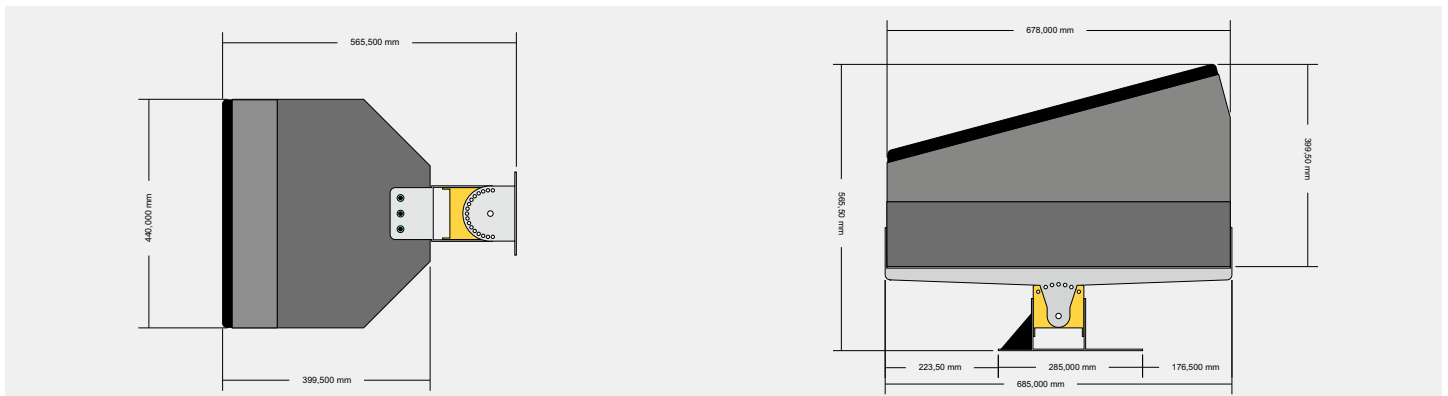
Frequency response ($\pm 3\text{dB}$): **80 Hz - 21 kHz**
 Usable bandwidth (-10dB): **65 Hz - 22 kHz**
 Efficiency (2,83 Vrms @1m): **103.5 dB**
 AES power capacity: **615 W**
 RMS power capacity: **590 W**
 Advisable amplification: **150 to 1000 W**
 Maximum calculated SPL: **131 dB**
 Peak calculated SPL: **137 dB**
 Impedance: **8 Ω**
 Directivity (-6dB): **90° x 50°**
 Filtering: **800 Hz passive**

▶ PHYSICAL SPECIFICATIONS

Dimensions HxWxD (mm): **707 x 440 x 405**
 Dimensions with bracket (mm): **714 x 440 x 558,5**
 Material: **16mm medium wood**
 Finishing: **Black textured paint**
 Connectors: **Universal terminal block**
 Hanging/Tilting: **3-parts fully tiltable bracket $\pm 57^\circ$ horizontal, $\pm 23^\circ$ vertical**
 Additional anchors: **No**
 Front mask: **Black textile (Jersey) on wooden frame**
 Tiltable bracket: **30/10 steel, black satin oven-baked paint**
 Weight: **35.25 Kg (excl. bracket)**
 Bracket weight: **5.80 Kg**
 Aluminium bracket weight: **2.45 Kg (quotation on demand)**

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**
 R18: **18" bass reinforcement**
 R218: **Twin 18" bass reinforcement**
 SUPA1214: **Tiltable wall mount (X and Y)**

▶ ACOUSTIC EQUIPMENT

Low/Mid frequency speaker: **1 x 15" with a 3" coil, edge-winding copper wire, ferrite magnet.**
 Mid/High frequency driver: **1 x 1,4" with a 2.87" coil, edge-winding flat aluminium wire, titanium membrane, ferrite magnet**
 Horn: **90° x 50° with a constant profile**
 Passive filter: **Epoxy printed circuit board, plastic-film capacitors, high-quality iron and air chokes, non-inductive wound resistors.**