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## 3D Immersive Sound



2 way surround cinema speaker for 3D immersive systems

### **A1214B - A1214F - A1210**

The A12 is a surround high-end cinema speaker, designed to reproduce lateral and rear channels within a 3D immersive system.

The A12 can eventually be assisted with DKaudio bass reinforcement module. It is quipped with a low-mid frequencies 12" (31 cm) loudspeaker, and a 1.4" (or 1" depending on the A12 version) high frequency driver with a linear directivity horn.

The A12 only requires a single amp channel and performs with or without additional processor.

**The A12 can be assisted with DKaudio extra-thin bass reinforcement modules: R212 (17 cm depth) or either R18EXP (34 cm depth).**

Musicality, precision and dynamics are merged with an excellent performance and a wide range of allowable power. This allows A12 to easily reproduce the most sophisticated and constraining sound messages with a studio audio quality.

Its design and ergonomoy 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:  $2.5^\circ$  vertical and  $2^\circ$  horizontal.

# 3 versions: A1214B, A1214F and A1210



## TECHNICAL SPECIFICATIONS **A1214B**

Frequency response ( $\pm 3\text{dB}$ ): **70 Hz - 20 kHz**

Usable bandwidth (-10dB): **60 Hz - 21 kHz**

Efficiency (2,83 Vrms @1m): **100 dB**

AES power capacity: **485 W**

RMS power capacity: **450 W**

Advisable amplification: **150 to 1000 W**

Maximum calculated SPL: **126 dB**

Peak calculated SPL: **132 dB**

Impedance: **8  $\Omega$**

Directivity (-6dB): **90° x 50°**

Filtering: **800 Hz passive**

## TECHNICAL SPECIFICATIONS **A1214F**

Frequency response ( $\pm 3\text{dB}$ ): **70 Hz - 20 kHz**

Usable bandwidth (-10dB): **60 Hz - 21 kHz**

Efficiency (2,83 Vrms @1m): **101.5 dB**

AES power capacity: **510 W**

RMS power capacity: **522 W**

Advisable amplification: **150 to 1000 W**

Maximum calculated SPL: **128.5 dB**

Peak calculated SPL: **134.5 dB**

Impedance: **8  $\Omega$**

Directivity (-6dB): **90° x 50°**

Filtering: **800 Hz passive**





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#### TECHNICAL SPECIFICATIONS **A1210**

Frequency response ( $\pm 3$ dB): **70 Hz - 21 kHz**

Usable bandwidth (-10dB): **60 Hz - 22 kHz**

Efficiency (2,83 Vrms @1m): **99 dB**

AES power capacity: **430 W**

RMS power capacity: **400 W**

Advisable amplification: **50 to 500 W**

Maximum calculated SPL: **123 dB**

Peak calculated SPL: **129 dB**

Impedance: **8  $\Omega$**

Directivity (-6dB): **90° x 50°**

Filtering: **1 kHz passive**

#### PHYSICAL SPECIFICATIONS

Dimensions HxWxD (mm): **632 x 370 x 343.5**

Dimensions with bracket (mm): **639 x 370 x 497**

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**

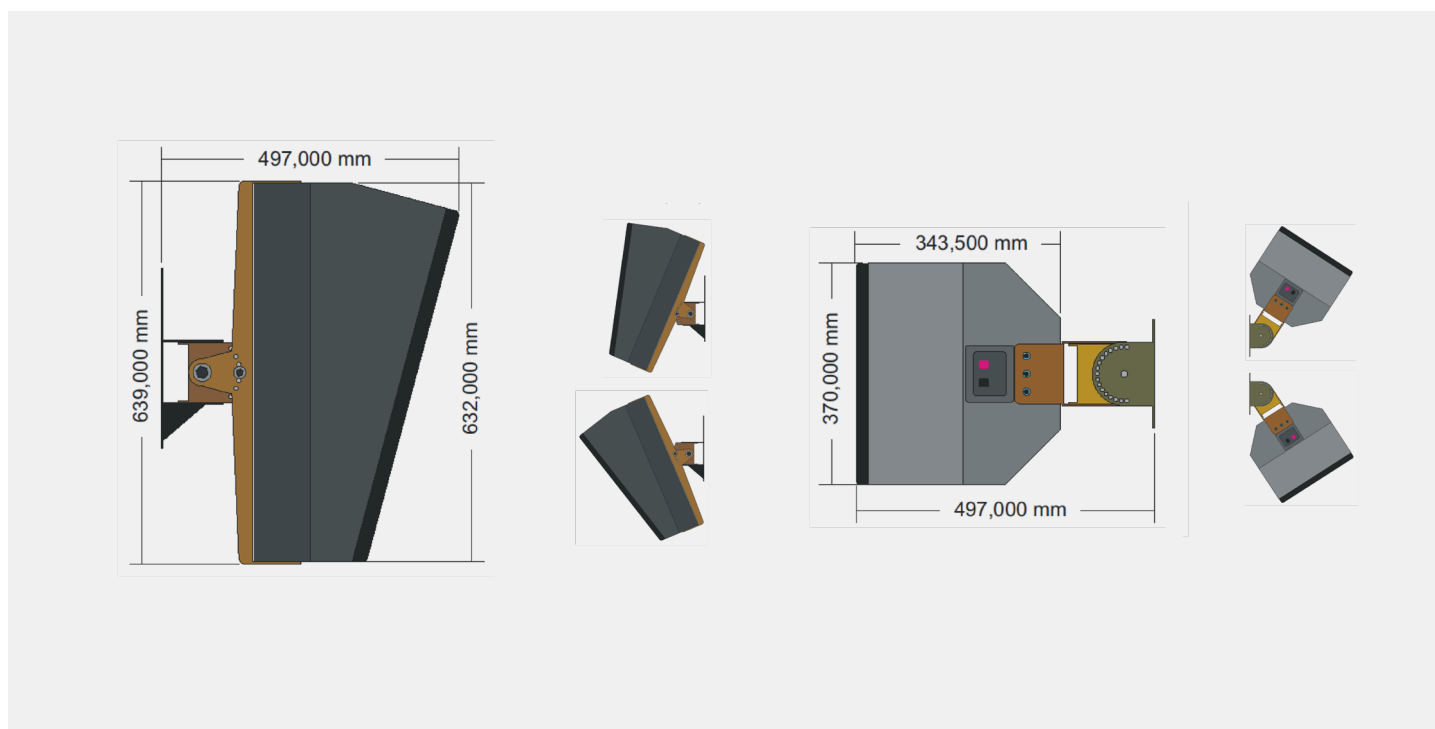
Tiltable bracket: **30/10 steel, black satin oven-baked paint**

A1214B weight: **20.90 Kg (excl. bracket)**

A1214F weight: **25.20 Kg (excl. bracket)**

A1210 weight: **19.75 Kg (excl. bracket)**

## SHAPE DRAWINGS



### COMPLEMENTS AND ACCESSORIES

- R212 : Twin 12" extra thin (17cm) bass reinforcement
- R18EXP : 18" very thin (34 cm) bass reinforcement
- SUPA1214 : Tilttable wall mount (X and Y)



Wall mount



Tilttable wall mount



Bracket

### ACOUSTIC EQUIPMENT

Low/Mid frequency speaker: 1x12" with a 3" coil, edge-winding copper wire, ferrite magnet.

Mid/High frequency driver A1214B and A1214F: 1 x 1.4" with a 2.87" coil, edge-winding flat aluminium wire, titanium membrane, ferrite magnet.

Mid/High frequency driver A1210: 1 x 1" with a 2.87" coil, edge-winding flat aluminium wire, titanium membrane, ferrite magnet

A1214B and A1214F horn: 1.4" with constant directivity, 90° x 50°.

A1210 horn: 1" with constant directivity, 90° x 50°.

Passive filter: Epoxy printed circuit board, plastic-film capacitors, high-quality iron and air chokes, non-inductive wound resistors.