

SAFETY INSTRUCTIONS

Read this user manual and keep it with the product.

Always follow all safety instructions and local security regulations.

Never use accessories not manufactured or approved by Aura Audio with Aura Audio products.

Make sure no audience or crew member is too close to loudspeakers when operating with high sound pressure levels (SPL). Professional loudspeaker systems are capable of producing sound pressure levels high enough to cause permanent hearing damage even at exposure times less than couple of minutes.

Please check the Aura Audio website on a regular basis for latest downloads and updates.

In case of any questions please don't hesitate to contact us for more information via info@auraaudio.fi

We also welcome all comments and system pics from you!

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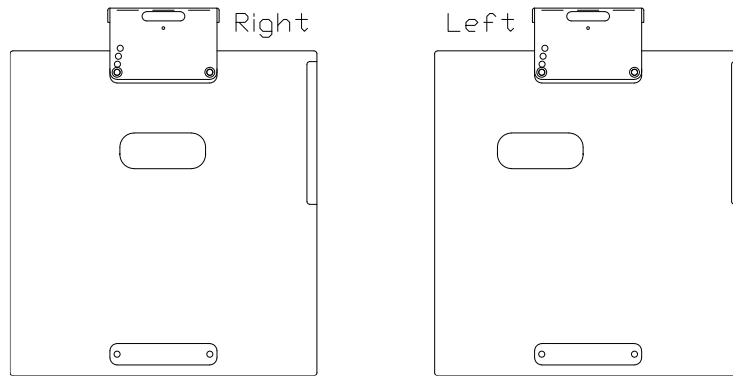


INTRODUCTION

AI is a compact actively driven passive 3-way speaker system. It consists of 15" neodymium magnet low frequency driver, 6.5" cone driver loaded multi-path waveguide and two 0.65" exit compression drivers loaded with dual exit waveguides.

15" low frequency driver is loaded with narrow-Q band-pass horn for extra sensitivity which actually equals two front loaded 15" drivers in upper bass region. With an enclosure not more than the size of single 15" driver this design sets a new benchmark for SPL to size ratio to compact full range speakers.

The heart of AI is M6 mid frequency driver consisting of 6.5" neodymium magnet cone driver loaded with internationally patented multi-path waveguide. Not only does this technology increase the sensitivity 10dB but M6 sound channels also cancel harmonics making distortion levels between 10-20dB lower than standard speaker systems equal size. M6 also features wide horizontal beam width and high cut off frequency of 4kHz making it possible to use small diaphragm lightweight compression drivers for high frequencies for increased sensitivity and detail.



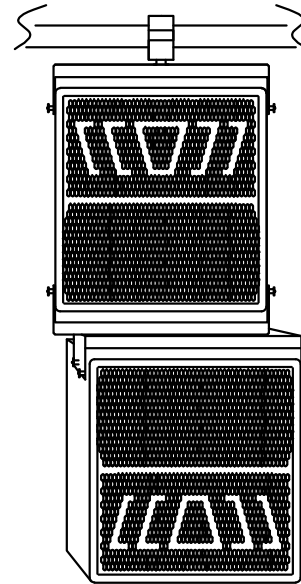
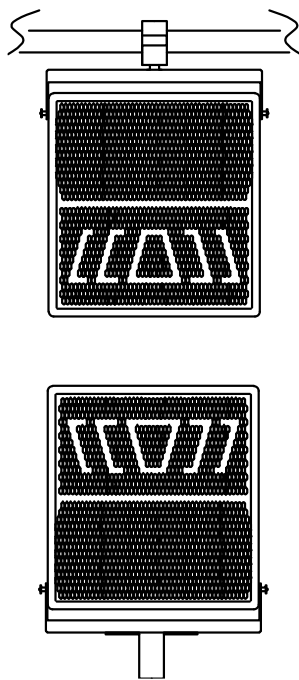
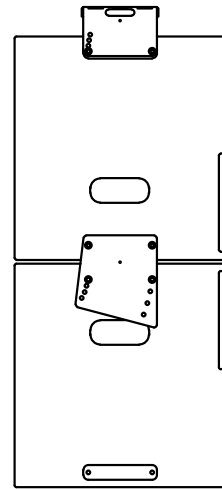
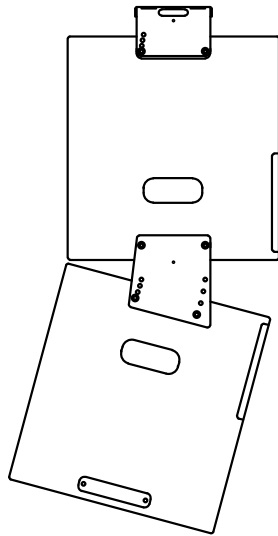
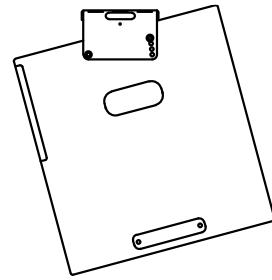
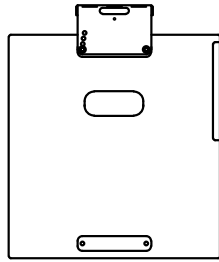
AI is shipped in pairs of left and right.

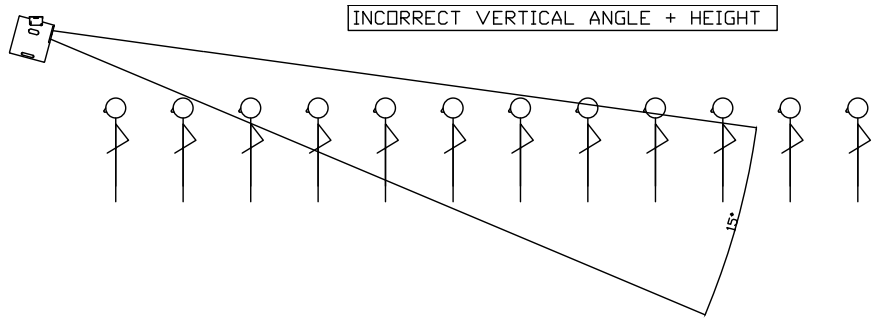
AI is driven with Aura Audio D2w.AI or other Aura Audio approved powered controllers. D2w.AI features 2 in 4 out matrix with analog filtering, optical limiters and ultra high quality class-D amplifiers powered by high efficiency switch-mode power supply.

CREATING ARRAYS WITH AIR AND AIRA

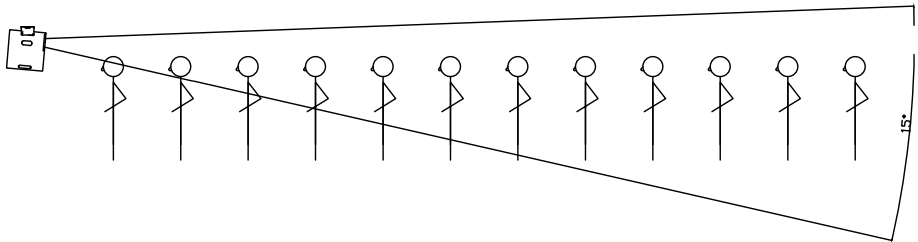
AI is designed to meet many different applications from simple stand mounting in compact touring to larger scale arrays up to three units per side. AIR is used in all applications except when AI is simply placed on top of a subwoofer or other platform for ground stacking. AIR is equipped with large number of fixing holes and can be used with pole mount adaptor such as K&M 24528, K&M 24521 and K&M 24281 Screw-on adapters.

When double or multiple AI's are used in arrays AIRA should be used. When two units are used the AI's work as one speaker when other unit is placed upside down. It is important use both left and right models when placing hi-mid-sections together (logos in grilles are further apart). That way asymmetrically placed hi and mid horns create two continuous columns and one single line source.

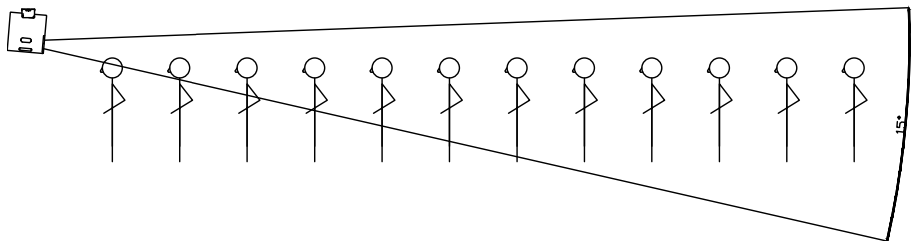




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FIXED INSTALLATION WITH AIRi AND AIRAi

Both AIR and AIRA are also available as AIRi and AIRAi. These models are intended to fixed installations and feature more economical M8 bolt connection replacing quick release pins found in standard models. Note that when used with "I" models AI must also be ordered as AIi or modified M8 thread

AI - SPECIFICATIONS

Frequency Response (+-3 dB): 85–22000 Hza

Horizontal Coverage (-6 dB): 90 degrees

Vertical Coverage (-6 dB): 15 degrees

Max peak SPL : 137 dB (free space)

Sensitivity LF, 1w/1m: 103 dB (free space)

Sensitivity HF, 1w/1m: 110 dB (free space)

Crossover: 300Hz active, 3.5kHz passive

Power handling LF: 500 W rms, 2000 W pk

Power handling HF: 125 W rms, 500 W pk

Recommended HP-filter: 76 Hz, 24dB/oct

DRIVERS

LF: (1) x 15" neodymium magnet cone driver, band-pass horn loaded

MF: (1) x 6.5" neodymium magnet cone driver, horn-loaded

HF: (2) x 0.65" exit compression driver, dual exit waveguide

ENCLOSURE

Enclosure material: Finnish birch plywood,

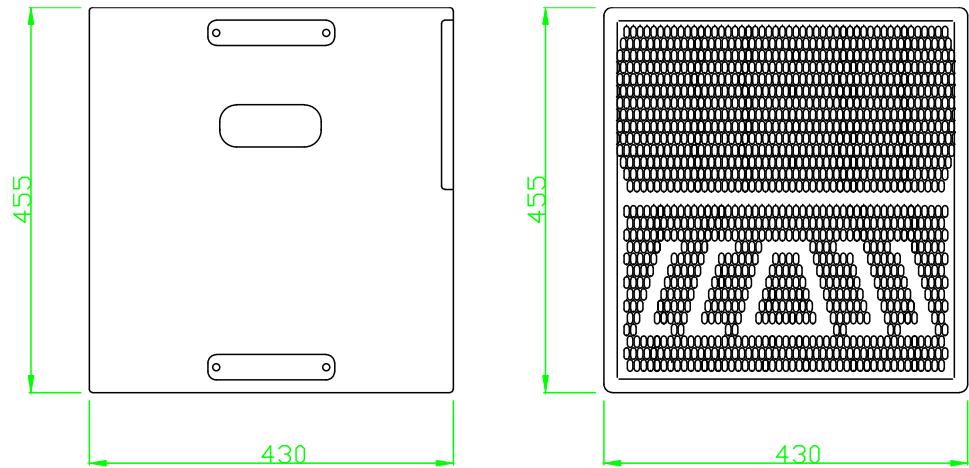
textured black paint finish

Grille: Cold rolled steel grille, textured black paint finish

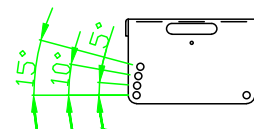
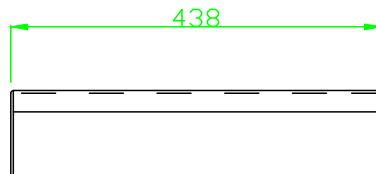
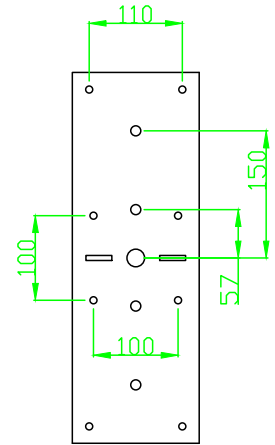
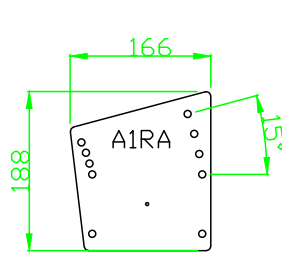
Connectors: (2) x NL4, +/-1: LF, +/-2: HF

Dimensions: 455 mm x 430 mm x 430 mm

Weight: 24 kg



A1
A1R
A1RA





EC DECLARATION OF CONFIRMITY (CE symbol)



Aura Audio Oy
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21420 Lieto
Finland

States that the following product:

D05k, D1k, D2w, D2k, D5k, F1A and F10A amplifiers

Is in conformity with the provisions of the respective EC directives including all applicable amendments:

2006/95/EC: Low Voltage Directive
2004/108/EC: Electro-Magnetic Compatibility Directive
2011/65/EU: ROHS2 directive

List of tests and standards applied:

Radiated Emissions / EN 61000-6-3
EN 55022B

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Radiated RF Immunity / EN 61000-6-1
10V/m / IEC 61000-4-3

Conducted RF Immunity / EN 61000-6-1
3V / IEC 61000-4-6

Electrical Fast Transient Immunity (EFT) / EN 61000-6-1
1,0/0,5kV / IEC 61000-4-4

Surge Immunity / EN 61000-6-1
1,0/2,0kV / IEC 61000-4-5

Electrostatic Discharge Immunity / EN 61000-6-1
6kV Contact / 8kV Air Discharge / IEC 61000-4-2

Established at Lieto, Finland, November 20, 2013

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