

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

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

A6 is an ultra compact 2-way line array speaker. It consists of 6.5" low frequency driver and 0.65" exit compression drivers loaded with triple exit waveguide.

The front loaded 6.5" low frequency drivers is loaded with compact reflex-tuned enclosure and wavefront shaping phase-plug.

A6 features wide horizontal beam width and high cut off frequency of 2.5kHz making it possible to use small lightweight diaphragm compression driver for high frequencies for increased sensitivity and detail.

Up to six (12) units can be driven with Aura Audio D2k.A6 powered controller or up to twenty four (24) with Powersoft X4 amplifiers fitted with OEM preset libraries.

APPLICATIONS

Front of house systems

Night clubs

Houses of worship

Small to medium installations

Music reinforcement with subwoofer

SYSTEM OPTIONS

A6 line array speaker

Full range operation down to 80Hz (extended mode)

A6R Flying Frame for A6 array of 1 to 16 units

Powersoft X4 - OEM Presets - max 24 units /Amplifier

Aura Audio D2w.A6 - 4 units of A6 +4 subs /Amplifier

Aura Audio D2k.A6 - 12 units /Amplifier

Music reinforcement with subwoofer:

XD10 ultra compact subwoofer; operation to 40Hz

XD12 compact subwoofer; operation to 40Hz

XD18 high power subwoofer; operation to 33Hz



D2w.A6 System Amplifier



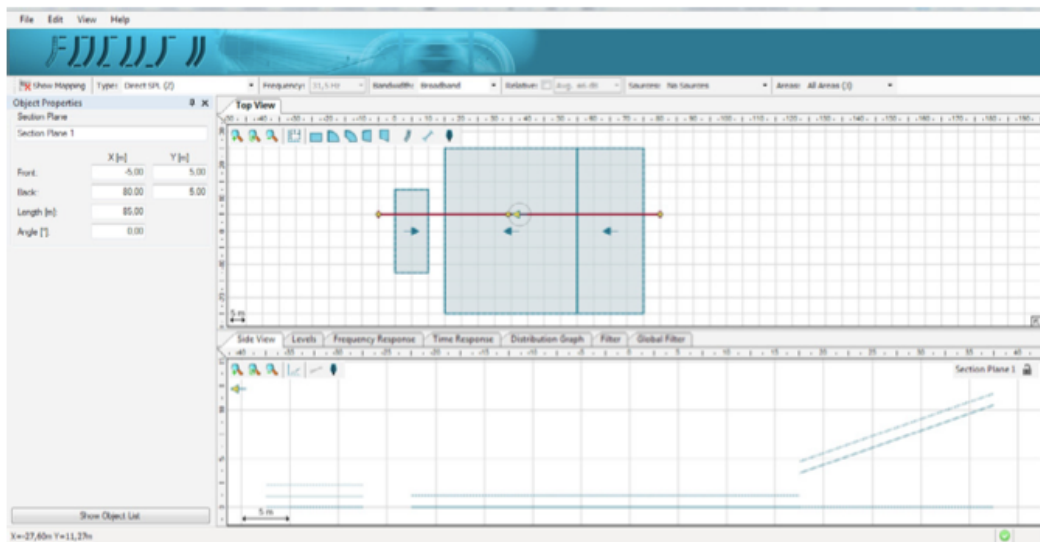
Complimentary subwoofer XD18

PREDICTION WITH EASE Focus 2

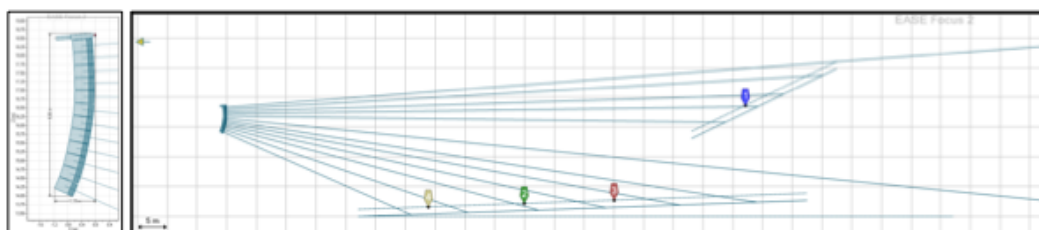
EASE Focus 2 is a system design software developed by AFMG GmbH. Before using the software visit “downloads” section in Aura Audio website to download A6 GLL file and then download EASE Focus 2 software from <http://afmg.eu>

Install the software and import A6 GLL file to your project:
 Edit / Import System Definition File... => Add Sound Source

Please refer to the EASE Focus 2 User Manual for more details or contact Aura Audio user support via email [info\(at\)auraaudio.fi](mailto:info(at)auraaudio.fi)



We recommend you always verify the system performance after the setup is completely ready by measuring frequency response from at least two or three locations (front of house, middle of audience area, balcony etc.) and by listening familiar music material. It is also necessary to time align subwoofers to flown array separate and summed measurements from both subs and tops and adjust delay to one or both groups accordingly.



OPERATION WITH A6R FLYING FRAME

A6 and A6R flying frames are in conformity with UNI EN 13155:2009. The safety factor is equal to 10:1 on the breaking load. However there are wide regulation variations internationally and practices applying to suspension of sound systems in public places. Consequently, users of Aura Audio rigging systems should be prepared to take additional safety assurance measures beyond those outlined in this manual.

!!! WARNING !!! Do not suspend more than 16 A6 with one A6R bumper! WLL for A6/A6R is 120 Kg (264 lb).

In the following three steps we show how to suspend A6R bumper to the top A6 unit of a cluster.



1# Place A6R on top of the first A6 and connect the front quick release pins first. Pull back the pins to make sure they are locked. To release the pin just push the button in the pin and pull back the pin.

2# Connect the angle rod according to Ease Focus simulation. A6 features 4 choices for angles; 1, 3, 6, and 10 degrees. A6R only has same connections for angle rod.

3# Hook the motor chain to A6R bumper (chain option) or attach top clamp to truss (pic). The chain can be connected directly to the A6R using omega shackle(s) not supplied with the system. Now you are ready to lift and connect the next A6 under the top A6 repeating the steps 1# and 2# above.

SPECIFICATIONS

Frequency Response (+-3 dB): 90–22000 Hz

Horizontal Coverage (-6 dB): 90 degrees

Vertical Coverage (-6 dB): 12 degrees

Max peak SPL: 121 dB (free space)

Sensitivity 1w/1m: 94 dB (free space)

Impedance: 16 Ohms

Crossover: 2.5kHz passive

Power handling: 125 W rms, 500 W pk

Recommended HP-filter: 80-95 Hz, 12dB/oct

DRIVERS

LF: (1) x 6.5” neodymium magnet cone driver, reflex-tuned

HF: (1) x 0.65” exit compression driver, triple exit waveguide

ENCLOSURE

Enclosure: Birch plywood, textured black paint finish

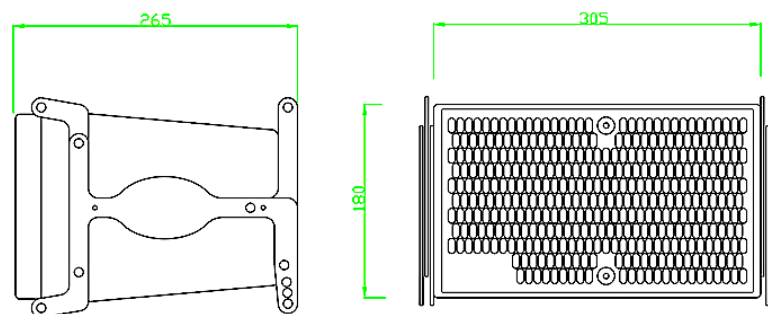
Grille: Cold rolled steel grille, textured black paint finish

Rigging system: Stainless steel, textured black paint finish

Connectors: (2) x NL4, +/-1: IN/LINK, +/-2: linked

Dimensions: 305 mm x 180 mm x 240 mm (w/o rigging)

Weight: 7 kg (w/o rigging)





EC DECLARATION OF CONFIRMITY (CE symbol)



Aura Audio Oy

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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

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

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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