

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!

TABLE OF CONTENTS

| | | |
|----|---------------------------------------|---|
| 1. | Safety Instructions | 1 |
| 2. | Introduction | 2 |
| 3. | Aiming and directivity | 3 |
| 4. | Directivity measurements | 4 |
| 5. | C15 system diagram with D2 amplifiers | 5 |
| 6. | Specifications & Dimensions | 6 |
| 7. | Declaration of Conformity | 7 |



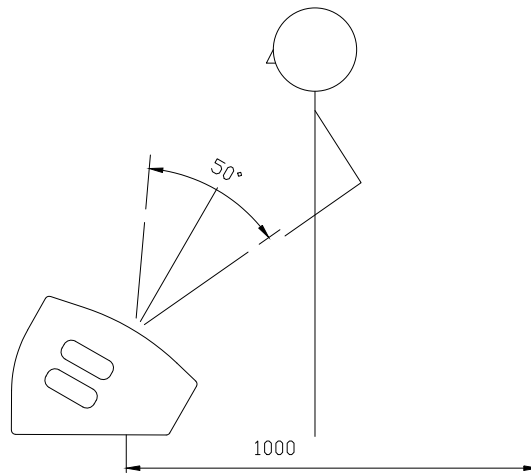
C15 is a compact, high power, passive two-way loudspeaker. Similar to its smaller brother, the C12, it is built from an ultra lightweight plywood fiberglass composite material and incorporates a 35mm stand adaptor and M8 mounting points, making it a flexible and powerful PA speaker. As with all the C-series models the C15 also sports a low profile 30 degree cabinet angle when used as a stage monitor. It is discrete but able to deliver high SPL. The rugged handles and total weight of 18kg make it a pleasure manoeuvre.

Using a unique coaxial 15" (3" voice coil) + 1" (1.75" voice coil) neodymium driver, the high frequency section includes a separate directivity horn. Delivering a symmetric 50 degree dispersion and enabling tighter control of high frequencies in both stage monitor and PA applications, compared to traditional coaxial drivers. The custom designed, internal passive crossover includes a phase alignment and EQ network. Which together with the coaxial driver ensures a seamless and phase coherent transition between the low and high frequency bands. Increasing coherency, intelligibility and gain before feedback.

As a multifunctional enclosure the C15 can be used for many different applications, both on stage and off. It is an extremely flexible addition to any inventory.

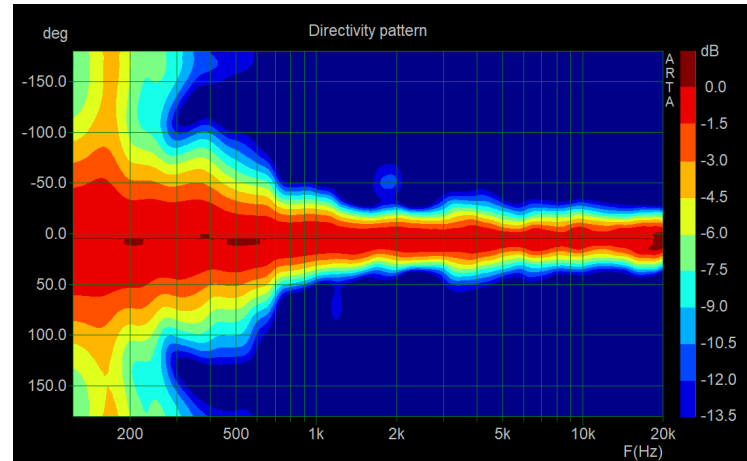
C15W speaker offers wider 90 degree directivity pattern to standard C15 version.

AIMING TIPS AND DIRECTIVITY

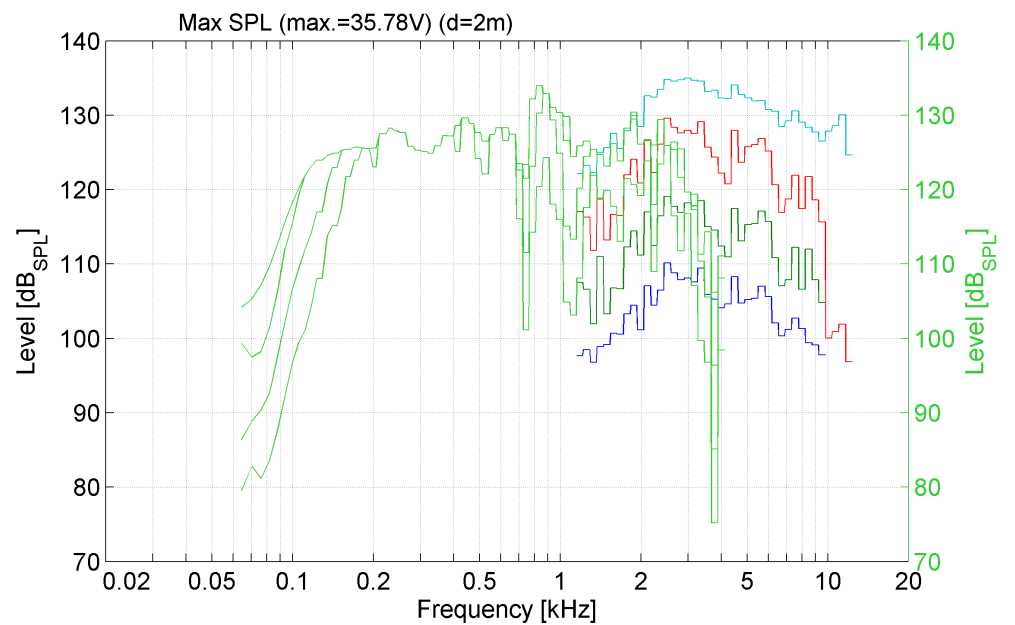


C15 vertical aiming principle

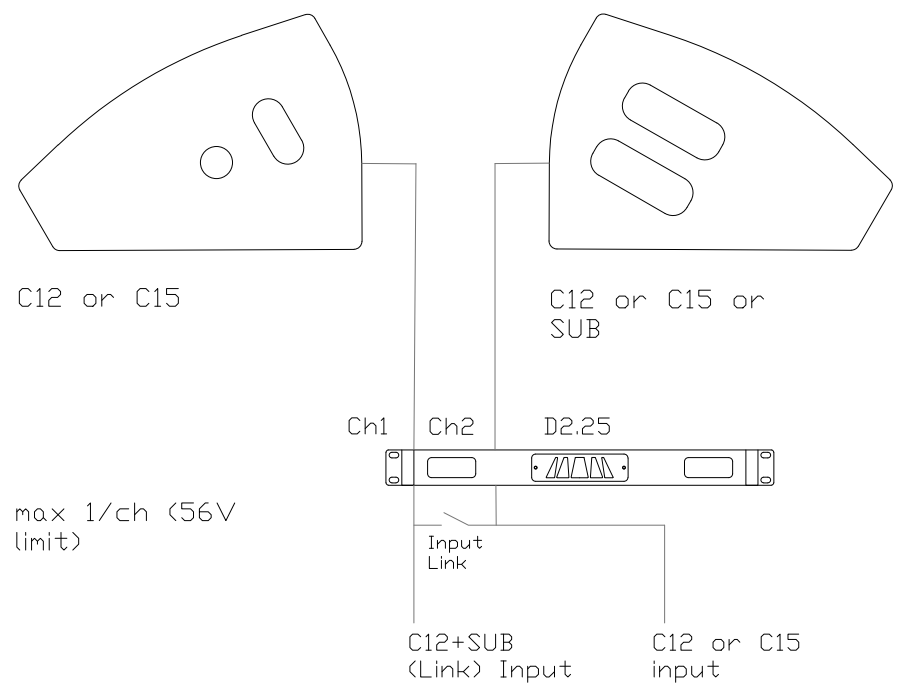
C15 DIRECTIVITY & SPL vs THD MEASUREMENTS



C15 symmetric 50deg beamwidth



C15 continuous SPL vs THD (1%, 3%, 10% and limit)
measured in bi-amp high-power-mode



Example diagram of C15 stereo system with D2.25 amplifier

SPECIFICATIONS

Frequency Response (-6 dB): 80 Hz – 20 kHz

Horizontal Coverage (-6 dB): 50 degrees

Vertical Coverage (-6 dB): 50 degrees

Max SPL(cont/peak): 127/133 dB (free space)

Sensitivity 1w/1m: 100 dB (free space)

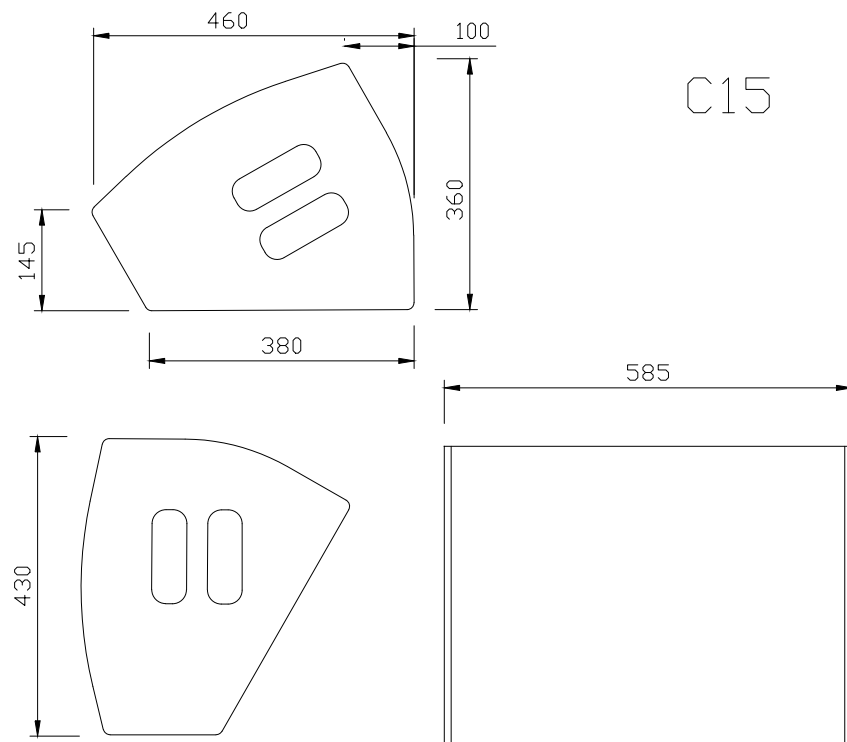
Impedance: 8 ohms

Crossover: passive at 2500Hz

Power handling: 500 W cont, 2000 W peak

Recommended HP-filter: 50-80Hz

DIMENSIONS



DRIVERS

LF: (1) x 15" long-excursion cone driver, reflex-tuned

HF: (1) x 1" exit neodymium magnet annular compression driver, horn-loaded, coaxial

ENCLOSURE

Enclosure material: Plywood, fiberglass

Grille: Steel grill, black powder coat

Connectors: Speakon NL4

Dimensions: 585 mm x 430 mm x 360 mm

Weight: 18 kg

EC declaration of conformity Manufacturer:

Aura Audio Oy
Pääskykalliontie 3
21420 Lieto
Finland

We declare the under our sole responsibility the following product models:

A-Series,
C-series,
F-Series,
XD-series,
XQ-series,
i-series and

S-series products are intended to be used as loudspeakers and are in conformity with the following EC Directives, including all amendments, and with national legislation implementing these directives:

BS EN 60065:2002

BS EN 55103-1/-2

March 2024

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke extending to the right.

Mika Isotalo
Managing Director