

2025

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## S-Series

# S1

### Compact passive 3.5-way speaker system.

It consists of folded horn-loaded 10" neodymium magnet cone driver, two side-firing reflex tuned 6.5" cone drivers, 6.5" neodymium magnet cone driver loaded with a multi-path waveguide coaxially mounted with two 1" exit compression drivers loaded with dual exit waveguides.

Horn-loaded 10" driver and side-firing 6.5" drivers create cardioid polar pattern utilising patented Passive End Fire Technology. This is due to carefully matching the sound wave travel distances between side-firing drivers to the internal propagation delay of the horn sound paths. This arrangement of the two bands overlapping also increases the sound pressure level at low frequencies.

The heart of S1 is M6 mid frequency driver consisting of 6.5" neodymium magnet cone driver loaded with patented multi-path waveguide. This waveguide technology increase the sensitivity while it also helps to cancel harmonic distortion. Coaxially mounted HF section combined with the M6 waveguide with wide horizontal and narrow vertical beam width helps when creating arrays of multiple S1 enclosures with very precise directivity character and high MF cut off frequency of 3kHz makes it possible to use small diaphragm lightweight compression drivers for high frequencies for increased sensitivity and HF resolution.

S1 is powered by Aura Audio D80DSP or D100DSP powered controllers, two or three units per channel accordingly. Bespoke rigging and pole mount adapters enable easy and safe deployment from single unit on top of a subwoofer to a larger flown arrays.



#### APPLICATIONS

Front of house systems  
High quality night clubs  
Medium size touring and installations  
Music reinforcement with subwoofer

#### DRIVERS

LF: (1) x 10" neodymium magnet cone driver, horn-loaded  
LF Side: (2) x 6.5" cone driver, reflex-loaded  
MF: (1) x 6.5" neodymium magnet cone driver, horn-loaded  
HF: (2) x 1" exit compression driver, dual exit waveguide coaxially mounted to MF horn

#### SPECIFICATIONS

Frequency Response (+3 dB): 85–20000 Hz  
Horizontal Coverage (-6 dB): 80 degrees  
Vertical Coverage (-6 dB): 10 degrees  
Max peak SPL : 138 dB (free space)  
Sensitivity 1w/1m: 107 dB (free space)  
Crossover: 250Hz-400Hz-3kHz passive  
Power handling LF: 300 W rms, 1200 W peak  
Recommended HP-filter: 90 Hz, 12dB/oct  
Nominal impedance: 8 ohms

#### ENCLOSURE

Enclosure material: Finnish birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, textured black paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: link  
Dimensions: 550 mm x 430 mm x 450 mm  
Weight: 34 kg



## S-Series

# S1D

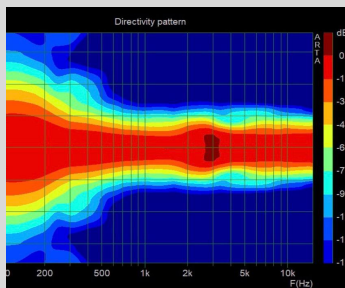
### Compact passive 3.5-way speaker system.

It consists of folded horn-loaded 10" neodymium magnet cone driver, two side-firing reflex tuned 6.5" cone drivers, 6.5" neodymium magnet cone driver loaded with a multi-path waveguide and a single 1" exit compression drivers loaded with constant directivity waveguides.

Horn-loaded 10" driver and side-firing 6.5" drivers create cardioid polar pattern utilising patented Passive End Fire Technology. This is due to carefully matching the sound wave travel distances between side-firing drivers to the internal propagation delay of the horn sound paths. This arrangement of the two bands overlapping increases the sound pressure level at low frequencies.

S1D features multiple rotatable CD-horns for HF section: 120x40, 90x60 or 60x40 degrees with wide or narrow vertical or horizontal beam width for almost endless possibilities and high MF cut off frequency of 3kHz makes it possible to use small diaphragm lightweight compression driver for high frequencies for increased sensitivity and HF resolution.

S1D is powered by Aura Audio D80DSP powered controllers. Bespoke rigging and pole mount adapters enable easy and safe deployment from single unit on top of a subwoofer to a larger flown arrays.



### APPLICATIONS

Front of house systems  
High quality night clubs  
Medium size touring and installations  
Music reinforcement with subwoofer

### SPECIFICATIONS

Frequency Response (-6 dB): 85 Hz–20000 Hz  
Horizontal Coverage (-6 dB): 60/90/120 degrees  
Vertical Coverage (-6 dB): 40/60 degrees  
Max SPL: 138 dB (half space)  
Sensitivity, 1w/1m: 107 dB (half space)  
Impedance: 8 ohms  
Recommended HP-filter 90hz, 12dB/oct  
Power handling: 300 W(rms) 1200W(peak)

### DRIVERS

LF: (1) 10" horn-loaded cone driver  
LF Side: (2) 6.5" reflex-loaded cone drivers  
MF: (1) 6.5" horn-loaded cone driver  
HF: (1) 1" exit horn-loaded compression driver

### ENCLOSURE

Enclosure material: Birch plywood,  
textured black paint finish  
Grille: Steel grille, black paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: link  
Dimensions: 500 mm x 430 mm x 450 mm  
Weight: 32 kg



## S-Series

# S2

### Compact passive 3.5-way line source speaker.

It consists of folded horn-loaded 10" neodymium magnet cone driver, two side-firing reflex tuned 6.5" cone drivers, 6.5" neodymium magnet cone driver loaded with a multi-path waveguide coaxially mounted with two 1" exit compression drivers loaded with dual exit waveguides.

Horn-loaded 10" driver and side-firing 6.5" drivers create cardioid polar pattern utilising patented Passive End Fire Technology. This is due to carefully matching the sound wave travel distances between side-firing drivers to the internal propagation delay of the horn sound paths. This arrangement of the two bands overlapping also increases the sound pressure level at low frequencies.

The heart of S2 is M6 mid frequency driver consisting of 6.5" neodymium magnet cone driver loaded with patented multi-path waveguide. This waveguide technology increase the sensitivity while it also helps to cancel harmonic distortion. Coaxially mounted HF section combined with the M6 waveguide with wide horizontal and planar vertical wavefront creates continuous line source when multiple S2 enclosures are used with very precise directivity character and high MF cut off frequency of 3kHz makes it possible to use small diaphragm lightweight compression drivers for high frequencies for increased sensitivity and HF resolution.

S2 is powered by Aura Audio D80DSP or D100DSP powered controllers, two or three units per channel accordingly. Integrated rigging hardware enable easy and safe deployment from two unit on top of a subwoofer to a larger flown arrays.



#### APPLICATIONS

Front of house systems  
High quality night clubs  
Medium size touring and installations  
Music reinforcement with subwoofer

#### DRIVERS

LF: (1) x 10" neodymium magnet cone driver, horn-loaded  
LF Side: (2) x 6.5" cone driver, reflex-loaded  
MF: (1) x 6.5" neodymium magnet cone driver, horn-loaded  
HF: (2) x 1" exit compression driver, dual exit waveguide coaxially mounted to MF horn

#### SPECIFICATIONS

Frequency Response (+/-3 dB): 95–20000 Hz  
Horizontal Coverage (-6 dB): 80 degrees  
Vertical Coverage (-6 dB): 10 degrees  
Max peak SPL : 140 dB (free space)  
Sensitivity 1w/1m: 108 dB (free space)  
Crossover: 250Hz-400Hz-3kHz passive  
Power handling LF: 300 W rms, 1200 W peak  
Recommended HP-filter: 90 Hz, 12dB/oct  
Nominal impedance: 8 ohms

#### ENCLOSURE

Enclosure material: Finnish birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, textured black paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: link  
Dimensions: 600 mm x 350 mm x 560 mm  
Weight: 34 kg





## S-Series

# S28

**Passive cardioid subwoofer featuring Passive End Fire Technology.**

Main features:

Low frequency directivity control with only one amplifier channel required

Patented Passive End Fire Technology hybrid enclosure design

Extremely accurate and dynamic low frequency reproduction

Double long excursion 18" neodymium cone drivers

Rugged birch plywood construction

Textured semi-matt black paint finish



### APPLICATIONS

Noise sensitive installations

Medium to large scale touring

High end installations from night clubs to live music venues

Low frequency extension for all S-series tops

### DRIVERS

Front: (1) x 18" neodymium magnet cone driver, 4" voice coil

Rear: (1) x 18" neodymium magnet cone driver, 4" voice coil

### SPECIFICATIONS

Frequency Response (-6 dB): 30 Hz – 250 Hz

Horizontal Coverage (-6 dB): 150 degrees

Vertical Coverage (-6 dB): 150 degrees

Max SPL : 134/140 dB (free space)

Sensitivity, 1w/1m: 101 dB (free space)

Impedance: 4 ohms

Crossover: 80 Hz – 100 Hz active

Power handling: 2400 W(rms), 10000 W(peak)

Recommended HP-filter: 30 Hz, 12 dB/octave



### ENCLOSURE

Enclosure material: Birch plywood, textured black paint finish

Grille: Cold rolled steel grille, black paint finish

Connectors: (2) x NL4, +/-1: Input, +/-2: Linked

Dimensions: 1200 mm x 520 mm x 800 mm (930 w/wheels)

Weight: 78 kg (64 kg S28i w/o wheels)



## S-Series

# S18C

### Cardioid Subwoofer

S18C is an all-in-one cardioid subwoofer featuring patented Passive End Fire Technology. No additional delays or processing is needed so only one amplifier channel is enough to drive the whole subwoofer!

The way it works: horn-loaded 18" driver at the front side has the same phase behavior as the reflex-loaded 12" driver facing back. The internal propagation time of the horn compensates the time difference of the sound wave coming from the rear facing 12" driver arriving to the front. Looking at the back of the enclosure the same time difference

S18C is driven with Aura Audio D-series controller amplifiers.



#### FEATURES

Low frequency directivity control without DSP  
Patented Passive End Fire Technology hybrid-enclosure design in one enclosure  
Front facing 18" and rear facing 12" long excursion neodymium magnet drivers

#### APPLICATIONS

Low frequency extension for all S-series tops  
Noise sensitive installations  
Medium to large-scale touring

#### S18C – SPECIFICATIONS

Frequency Response (-6 dB): 35 Hz – 250 Hz  
Horizontal Coverage (-6 dB): 150 degrees  
Vertical Coverage (-6 dB): 150 degrees  
Max SPL : 132/138 dB (free space)  
Sensitivity, 1w/1m: 99 dB (free space)  
Impedance: 6 ohms  
Crossover: 80 Hz – 120 Hz active  
Power handling: 2000 W(AES), 8000 W(peak)  
Recommended HP-filter: 33 Hz, 12 dB/octave

#### DRIVERS

S18C Front: (1) x 18" neodymium driver, 4" VC  
S18C Rear: (1) x 12" neodymium driver, 4" VC

#### ENCLOSURE

Enclosure material: Birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, black paint finish  
Connectors: (2) x NL4, +/-1: Input  
Dimensions: 600 mm x 500 mm x 1030 mm (1160 w/wheels)  
Weight: 63 kg (55 kg S18Ci w/o wheels)





## S-Series

# S18F / S18R

**Passive cardioid subwoofer featuring Passive End Fire Technology.**

S18 is unique combination of a horn-loaded S18F subwoofer and reflex-loaded counterpart S18R working together as a dual 18" passive cardioid subwoofer featuring Passive End Fire Technology.

Low frequency directivity control with only one amplifier channel required

Patented Passive End Fire Technology hybrid enclosure design

Extremely accurate and dynamic low frequency reproduction



### APPLICATIONS

Noise sensitive installations

Medium to large scale touring

High end installations from night clubs to live music venues

Low frequency extension for all S-series tops

### DRIVERS

S18F: (1) x 18" neodymium magnet cone driver, 4" voice coil

S18R: (1) x 18" neodymium magnet cone driver, 4" voice coil

### SPECIFICATIONS as a S18F + S18R system

Frequency Response (-6 dB): 30 Hz – 250 Hz

Horizontal Coverage (-6 dB): 150 degrees

Vertical Coverage (-6 dB): 150 degrees

Max SPL : 134/140 dB (free space)

Sensitivity, 1w/1m: 101 dB (free space)

Impedance: 4 ohms

Crossover: 80 Hz – 100 Hz active

Power handling: 2400 W(rms), 10000 W(peak)

Recommended HP-filter: 30 Hz, 12 dB/octave

### ENCLOSURE

Enclosure material: Birch plywood, textured black paint finish

Grille: Cold rolled steel grille, black paint finish

Connectors: (2) x NL4, +/-1: Input, +/-2: Linked

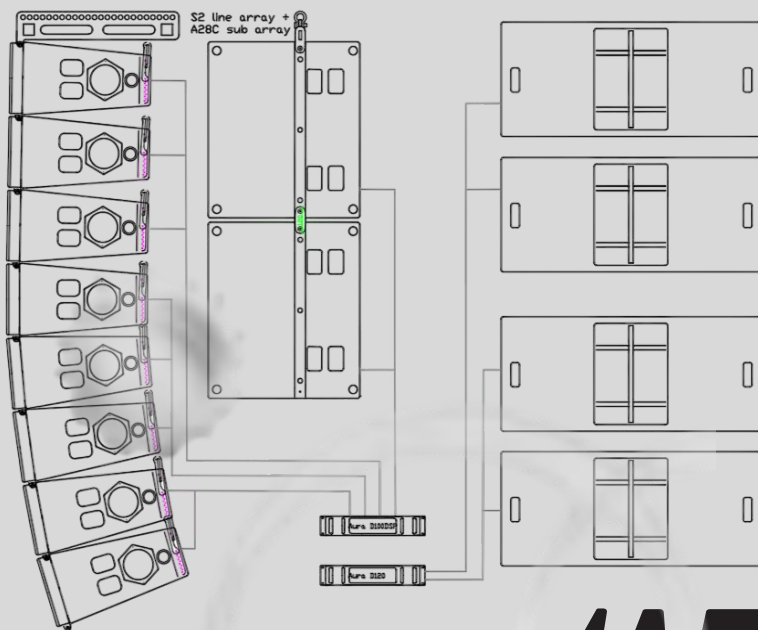
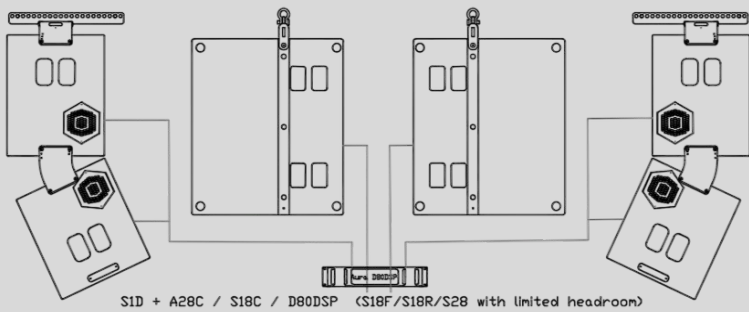
Dimensions: 600 mm x 500 mm x 800 mm (930 w/wheels)

Weight: 40 kg



  
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## XD-Series

# XD10

**XD-series is a range of next generation subwoofers.**

Featuring US-patented enclosure design, a combination of asymmetric horn combined with band-pass loading gives the subwoofer high efficiency, speed and extremely low distortion figures while minimizing the off-band problems common to bass reflex and direct radiating designs. The usable frequency range also increases compared to common designs together with detail and transient output through out the whole usable bass region. the extremely accurate cone control due to three acoustically tuned segments make a huge difference to how the smallest nuances are performed. The reduced Xmax will also maximize the life of the driver.

All these features in a compact size box with no need for complicated reinforcement structures in the enclosure makes the units even lighter weight and easier to handle. All XD-series enclosure feature rigid birch plywood construction and weather proof semi-matt paint finish.

### FEATURES

- unique patented design
- extremely accurate and dynamic low frequency reproduction
- light weight 10" cone driver
- extreme power to size ratio
- rugged birch plywood construction
- textured semi-matt black paint finish



### APPLICATIONS

- Small to medium size installations
- Night clubs
- Low frequency extension for A- and i-series
- High-end home theaters

### DRIVERS

LF: (1) x 10" cone driver, 2.5" voice coil

### SPECIFICATIONS

- Frequency Response (-6 dB): 40 Hz – 120 Hz
- Horizontal Coverage (-6 dB): 360 degrees
- Vertical Coverage (-6 dB): 360 degrees
- Max SPL : 123/129 dB (half space)
- Sensitivity, 1w/1m: 99 dB (half space)
- Impedance: 4 ohms or 16 ohms (optional)
- Power handling: 250 W

### ENCLOSURE

- Enclosure material: Finnish birch plywood, textured black paint finish
- Grille: Cold rolled steel grille, textured black paint finish
- Connectors: (2) x NL4, +/-1: Input, +/-2: link
- Dimensions: 550 mm x 300 mm x 550 mm
- Weight: 20 kg



## XD-Series

# XD12

**XD-series is a range of next generation subwoofers.**

Featuring US-patented enclosure design, a combination of asymmetric horn combined with band-pass loading gives the subwoofer high efficiency, speed and extremely low distortion figures while minimizing the off-band problems common to bass reflex and direct radiating designs. The usable frequency range also increases compared to common designs together with detail and transient output through out the whole usable bass region. the extremely accurate cone control due to three acoustically tuned segments make a huge difference to how the smallest nuances are performed. The reduced Xmax will also maximize the life of the driver.

All these features in a compact size box with no need for complicated reinforcement structures in the enclosure makes the units even lighter weight and easier to handle. All XD-series enclosure feature rigid birch plywood construction and weather proof semi-matt paint finish.

### FEATURES

- unique patented design
- extremely accurate and dynamic low frequency reproduction
- light weight 12" cone driver
- extreme power to size ratio
- rugged birch plywood construction
- textured semi-matt black paint finish



### APPLICATIONS

- Small to medium size installations
- Night clubs
- Low frequency extension for A-, C- and i-series
- High-end home theaters

### DRIVERS

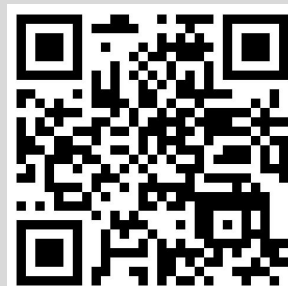
LF: (1) x 12" cone driver, 3" voice coil

### SPECIFICATIONS

- Frequency Response (-6 dB): 40 Hz – 120 Hz
- Horizontal Coverage (-6 dB): 360 degrees
- Vertical Coverage (-6 dB): 360 degrees
- Max SPL : 130/136 dB (half space)
- Sensitivity, 1w/1m: 103 dB (half space)
- Impedance: 8 ohms
- Power handling: 500 W

### ENCLOSURE

- Enclosure material: Finnish birch plywood, textured black paint finish
- Grille: Cold rolled steel grille, textured black paint finish
- Connectors: (2) x NL4, +/-1: Input, +/-2: link
- Dimensions: 700 mm x 400 mm x 600 mm
- Weight: 33 kg





## XD-Series

# XD18i

**XD-series is a range of next generation subwoofers.**

Featuring US-patented enclosure design, a combination of asymmetric horn combined with band-pass loading gives the subwoofer high efficiency, speed and extremely low distortion figures while minimizing the off-band problems common to bass reflex and direct radiating designs. The usable frequency range also increases compared to common designs together with detail and transient output through out the whole usable bass region. The extremely accurate cone control due to three acoustically tuned segments make a huge difference to how the smallest nuances are performed. The reduced Xmax will also maximize the life of the driver.

All these features in a compact size box with no need for complicated reinforcement structures in the enclosure makes the units even lighter weight and easier to handle. All XD-series enclosure feature rigid birch plywood construction and weather proof semi-matt paint finish.

XD18 is driven with Aura Audio D-series controller amplifiers featuring flexible speaker specific filtering, limiting and ultra high quality class-D output stage powered by high-efficiency switch-mode power supply.



### APPLICATIONS

medium and large size installations  
night clubs and live music venues  
low frequency extension for A-, C- and i-series

### DRIVERS

LF: (1) x 18" cone driver, 4" voice coil

### SPECIFICATIONS

Frequency Response (-6 dB): 39 Hz – 150 Hz  
Horizontal Coverage (-6 dB): 360 degrees  
Vertical Coverage (-6 dB): 360 degrees  
Max SPL: 131/137 dB (free space)  
Sensitivity, 1w/1m: 100 dB (free space)  
Impedance: 8 ohms  
Power handling: 1200 W(rms)

### ENCLOSURE

Enclosure material: Birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, textured black paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: Linked  
Dimensions: 900 mm x 550 mm x 800 mm (940 w/ wheels)  
Weight: 75 kg



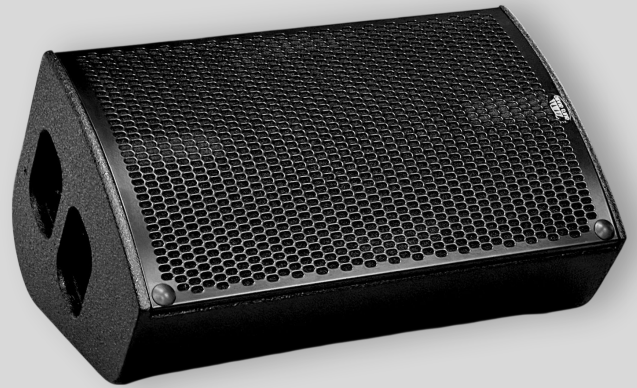
## C-Series

# C10

### Versatile passive two-way compact loudspeaker.

The C10 consists of coaxially mounted 10" + 1" drivers. The 100 x 100 degree symmetric dispersion allows controlled coverage of larger areas from a single source. The extended LF response, down to 65Hz (-6dB), makes it a truly full-range loudspeaker. An ultra light fibre-class- plywood composite enclosure, with CNC machined handles, makes the C10 easy to handle and a pleasure to use.

30 degree low profile enclosure means the C10 offers a discrete solution for stage monitoring applications. And the high power to weight ratio makes it extremely useful for small PA applications too.



#### APPLICATIONS

Medium SPL stage monitors  
Front of house for small size touring  
Medium size installations  
Speech reinforcement  
Music reinforcement with or without subwoofer

#### DRIVERS

LF: (1) x 10" cone driver, reflex-tuned  
HF: (1) x 1" compression driver, coaxial

#### SPECIFICATIONS

Frequency Response (-6 dB): 65 Hz – 20 kHz  
Horizontal Coverage (-6 dB): 100 degrees  
Vertical Coverage (-6 dB): 100 degrees  
Max SPL : 122/128 dB (free space)  
Sensitivity, 1w/1m: 98 dB (free space)  
Impedance: 8 ohms  
Crossover: 2.8 kHz passive  
Power handling: 250 W cont, 1000 W peak  
Recommended HP-filter: 65 Hz, 24 dB/octave

#### ENCLOSURE

Enclosure material: Bended birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, textured black paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: Linked  
Dimensions: 500 mm x 310 mm x 260 mm  
Weight: 12 kg





## C-Series

# C12

### Compact, high power, passive two-way loudspeaker.

Similar to its smaller sibling, the C10, the C12 offers versatility in a compact and light weight enclosure. At just 15Kg this passive 2-way design packs an enormous punch for its size. Used as a wedge monitor its low, 30 degree, profile makes it inconspicuous on stage. The integrated 35mm stand adaptor and optional M8 mounting points make it a flexible PA speaker.

The high power coaxial 12" + 1" neodymium driver includes a separate horn for the HF section. With a 80 x 60 degree dispersion a performer can move around freely and still continue to have even coverage across the stage. 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.

Details such as the CNC machined handles, with integrated stand adaptor, ultra lightweight composite enclosure and small footprint make this a truly adaptable and multi-purpose speaker.



#### APPLICATIONS

High SPL stage monitors  
Front of house for small to medium size touring  
Medium size installations  
Speech reinforcement  
Music reinforcement with subwoofer

#### DRIVERS

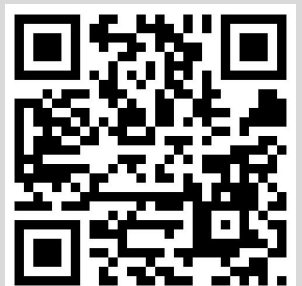
LF: (1) x 12" neodymium magnet cone driver, reflex-tuned  
HF: (1) x 1" compression driver, coaxial, high directivity waveguide

#### SPECIFICATIONS

Frequency Response (-6 dB): 85 Hz – 20 kHz  
Horizontal Coverage (-6 dB): 80 degrees  
Vertical Coverage (-6 dB): 60 degrees  
Max SPL : 126/132 dB (free space)  
Sensitivity, 1w/1m: 99 dB (free space)  
Impedance: 8 ohms Crossover: 1.8 kHz passive  
Power handling: 500 W cont, 2000 W peak  
Recommended HP-filter: 65 Hz, 24 dB/octave

#### ENCLOSURE

Enclosure material: Bended birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, textured black paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: Linked  
Dimensions: 585 mm x 430 mm x 295 mm  
Weight: 15 kg



## C-Series

# C15

**Compact, high power, passive two-way loudspeaker.**

Similar to its smaller brother, the C12, it is built from an ultra lightweight composite material and incorporates a 35mm stand adaptor and optional 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" + 1" neodymium driver, the high frequency section includes a separate directivity horn. Delivering a symmetric 50 x 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.



### APPLICATIONS

High SPL stage monitors  
Front of house for small to medium size touring  
Medium size installations  
Speech reinforcement  
Music reinforcement with subwoofer

### DRIVERS

LF: (1) x 15" neodymium magnet cone driver, reflex-tuned  
HF: (1) x 1" compression driver, coaxial, high directivity waveguide

### SPECIFICATIONS

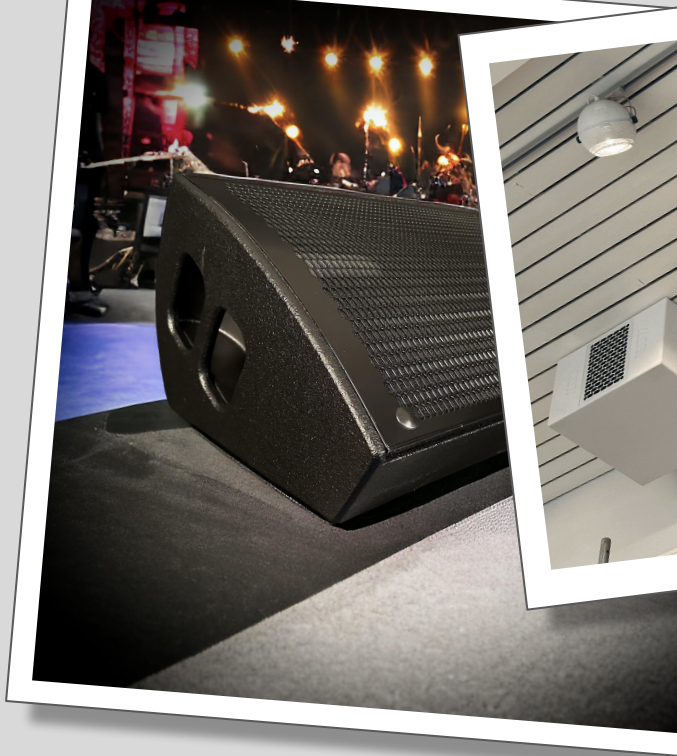
Frequency Response (-6 dB): 80 Hz – 20 kHz  
Horizontal Coverage (-6 dB): 50 degrees  
Vertical Coverage (-6 dB): 50 degrees  
Max SPL : 127/133 dB (free space)  
Sensitivity, 1w/1m: 100 dB (free space)  
Impedance: 8 ohms Crossover: 2.5 kHz passive  
Power handling: 500 W cont, 2000 W peak  
Recommended HP-filter: 50 Hz, 24 dB/octave

### ENCLOSURE

Enclosure material: Bended birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, textured black paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: Linked  
Dimensions: 585 mm x 430 mm x 360 mm  
Weight: 18 kg

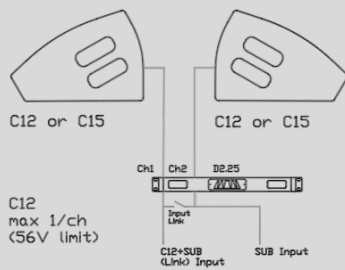




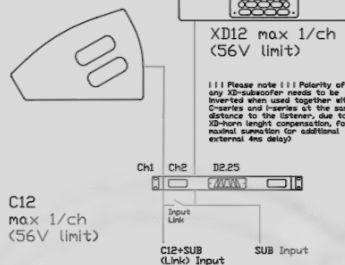


C-series with  
D2-series

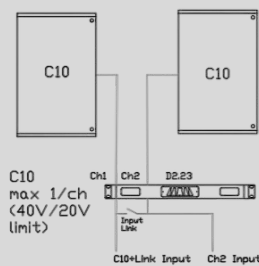
D2.25



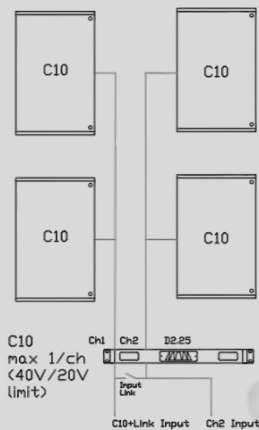
D2.25



D2.23



D2.25



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## i-Series

# i3

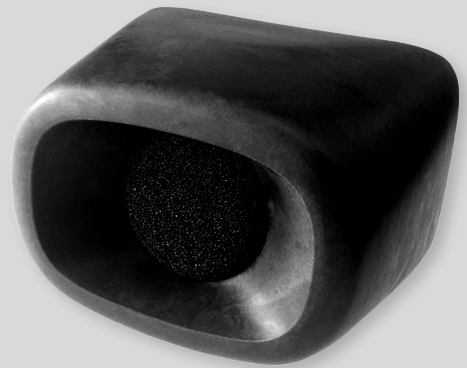
### Ultra compact passive loudspeaker.

It consists of single 3" cone driver. Proprietary acoustic waveguide design increases mid and high frequency efficiency and directivity character. 100x60 degree dispersion makes the loudspeaker easy to adjust according to installation and also vertical columns of two to six units are possible. This feature makes i3 a real all-around work horse with almost limitless possibilities!

Design and modeling concept of the enclosure is done by designer Mr Stefan Lindfors, known for his variety of work around the world. The injection-molded enclosure also features UPM Formi next generation bio-based material. This gives i3 not only unique and timeless look but rigid, lightweight and resonance free features.

i3 does not feature a crossover and reflex tuning, which leads to fully flat phase response and most accurate transient response with no decay and common tuning related problems. As a dedicated installation enclosure i3 features 5mm rigging points and array accessories.

i3 is driven with Aura Audio D-series controller amplifiers featuring flexible speaker specific filtering, limiting and ultra high quality class-D output stage powered by high-efficiency switch-mode power supply.



#### APPLICATIONS

Small to medium installations  
Night clubs and music bars  
Speech reinforcement  
Delay lines and 100V distributed lines  
Music reinforcement with XD10 subwoofer  
RAL color options

#### FEATURES

100 x 60 degree coverage pattern  
Unique high sensitivity 3" driver  
Natural uncoloured sound quality  
Dedicated rigging system option  
Ultra lite but rigid injection-molded  
UPM Formi enclosure  
Black, white or custom color options

#### SPECIFICATIONS

Frequency Response (-10 dB): 120 Hz–16 kHz  
Horizontal Coverage (-6 dB): 100 degrees  
Vertical Coverage (-6 dB): 60 degrees  
Max SPL(cont/peak): 105/112 dB (free space)  
Sensitivity 1w/1m: 92 dB (free space)  
Impedance: 16 ohms  
Crossover: -  
Power handling: 20 W cont, 100 W peak  
Recommended HP-filter: 120 Hz, 12 dB/octave

#### DRIVERS

LF/HF: (1) x 3" neodymium magnet driver

#### ENCLOSURE

Enclosure material: UPM Formi and steel plate  
Grille: Cold rolled steel grille, black foam  
Connectors: spring-loaded  
Dimensions: 185 mm x 126 mm x 130 mm  
Weight: 0.8 kg





## i-Series

# i3PR

### Ultra compact passive loudspeaker.

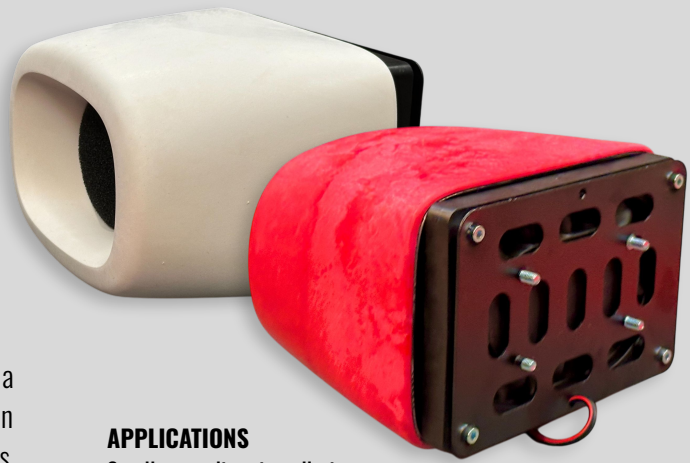
The i3PR has the same unique aesthetic as the i3 and is a collaboration between award winning Finnish designer Mr Stefan Lindfors and the acoustic engineers at Aura Audio. Together this brings a timeless and elegant look and amazing acoustic performance into one speaker.

The key difference between the i3 and i3PR is the addition of a passive radiator. This unique acoustic approach increases the low frequency response down to an incredible 65Hz.

The i3PR utilises the same 3" high sensitivity cone driver as the i3, matched to the same proprietary acoustic waveguide. This design increases mid and high frequency efficiency and also the directivity characteristics. A 100 x 60 degree dispersion pattern helps keep sound where you want it. Using the dedicated hardware the i3PR can be mounted individually or in vertical columns of up to six units. Allowing increased coverage and power to match the space.

Unlike most other installation loudspeakers i3PR does not feature a crossover or reflex tuning. The positive impact these design decisions have on the sound quality is all important. The i3PR delivers a fully flat phase response and most accurate transient response with no decay or common tuning related problems.

Utilising a next generation bio-composite material the injection moulded enclosure is rigid and resonance free, while also being lightweight. The combination of natural uncoloured sound and novel design make the i3PR a real all round work horse, with almost limitless potential.



#### APPLICATIONS

Small to medium installations  
Night clubs and music bars  
Speech reinforcement  
Delay lines and 100V distributed lines  
Music reinforcement with XD10 subwoofer  
RAL color options

#### FEATURES

100 x 60 degree coverage pattern  
Unique high sensitivity 3" driver  
Passive radiator  
Natural uncoloured sound quality  
Dedicated rigging system option  
Ultra lite but rigid injection-molded UPM Formi enclosure  
Black, white or custom color options

#### SPECIFICATIONS

Frequency Response (-10 dB): 65 Hz – 20 kHz  
Horizontal Coverage (-6 dB): 100 degrees  
Vertical Coverage (-6 dB): 60 degrees  
Max SPL(cont/peak): 105/112 dB (free space)  
Sensitivity 1w/1m: 92 dB (free space)  
Impedance: 16 ohms  
Crossover: -  
Power handling: 20 W cont, 100 W peak  
Recommended HP-filter: 120 Hz, 12 dB/octave

#### DRIVERS

LF/HF: (1) x 3" neodymium magnet driver  
Passive radiator

#### ENCLOSURE

Enclosure material: UPM Formi and steel plate  
Grille: Cold rolled steel grille, black foam  
Connectors: spring-loaded  
Dimensions: 185 mm x 126 mm x 150 mm  
Weight: 1kg





i3 array as a DJ-monitor in The Goods In, Manchester



## i-Series

# i8

### Compact passive 2-way loudspeaker.

It consists of 8" cone driver and 1" exit compression driver with passive 2nd order cross-over network. Proprietary acoustic waveguide design increases high frequency efficiency and directivity character. 100x90 degree dispersion makes the loudspeaker suit most applications regardless of the shape of the space, and either vertical or horizontal orientation with similar coverage results.

i8 features fixed wall or ceiling mounting bracket with multiple connection points.

i8 is driven with Aura Audio D-series controller amplifiers featuring flexible speaker specific filtering, limiting and ultra high-quality class-D output stage powered by high-efficiency switch-mode power supply.



#### APPLICATIONS

Small to medium installations  
Night clubs and music bars  
Speech reinforcement  
Music reinforcement with i8Sub, XD10 or XD12 subwoofer

#### DRIVERS

LF: (1) x 8" cone driver  
HF: (1) x 1" exit compression driver

#### SPECIFICATIONS

Frequency Response (-5 dB): 80 Hz – 20 kHz  
Frequency Response (-10 dB): 60 Hz – 18 kHz  
Horizontal Coverage (-6 dB): 100 degrees  
Vertical Coverage (-6 dB): 90 degrees  
Max SPL(cont/peak): 115/121 dB (free space)  
Sensitivity 1w/1m: 95 dB (free space)  
Impedance: 8 ohms  
Crossover: 3kHz  
Power handling: 100 W cont, 400 W peak  
Recommended HP-filter: 80 Hz, 12 dB/octave

#### ENCLOSURE

Enclosure material: Birch plywood, textured black paint finish  
Grille: Cold rolled steel grille, black paint finish  
Connectors: (2) x NL4  
Dimensions: 440 mm x 260 mm x 270 mm / 350mm with bracket  
Weight: 7 kg

Black or white color options



## i-Series

# i10

***"a true full range - no filters required"***

i10 is a compact passive 2-way full range loudspeaker. It consists of 10" long excursion cone driver and 1" exit compression driver with passive 2nd order cross-over network. As a true full range speaker i10 is totally fine on it's own without a additional subwoofer unlike most speakers similar size.

Proprietary acoustic waveguide design increases high frequency efficiency and HF directivity. 100x90 degree dispersion makes the loudspeaker suit most applications regardless of the shape of the space, and either vertical or horizontal orientation with similar coverage results.

i10 features a handle on the rear wall and 35mm pole mounting point. Optional mounting bracket with multiple connection points can be used for safe mounting to a wall or ceiling, or to a truss using a standard clamp.

i10 is driven with Aura Audio D-series controller amplifiers featuring flexible speaker specific filtering, limiting and ultra high-quality class-D output stage powered by high-efficiency switch-mode power supply.



### APPLICATIONS

Small to medium installations  
Night clubs and music bars  
Speech reinforcement  
Home cinema and production studios

### DRIVERS

LF: (1) x 10" cone driver, reflex-loaded  
HF: (1) x 1" exit compression driver

### SPECIFICATIONS

Frequency response (-6 dB): 65–20kHz (-10dB @ 50Hz)  
Horizontal coverage (-6 dB): 100 degrees  
Vertical coverage (-6 dB): 90 degrees  
Max peak SPL : 122 dB (free space)  
Sensitivity 1w/1m: 92 dB (free space)  
Crossover: 3.2kHz  
Impedance: 8 ohms  
Power handling: 250 W rms, 1000 W peak  
Recommended HP-filter: 33 Hz, 12dB/oct

### ENCLOSURE

Enclosure material: Finnish birch plywood,  
textured black PU-paint finish  
Connectors: (2) x NL4, +/-1: Input, +/-2: link  
Dimensions (H/W/D): 510 mm x 310 mm x 330 mm  
Weight: 14 kg



## i-Series

# i12

### Compact passive 2-way loudspeaker.

It consists of 12" cone driver and 1" exit compression driver with passive 2nd order cross-over network. Proprietary acoustic waveguide design increases high frequency efficiency and directivity character. 100x90 degree dispersion makes the loudspeaker suit most applications regardless of the shape of the space, and either vertical or horizontal orientation with similar coverage results.

i12 features fixed wall or ceiling mounting bracket with multiple connection points and standard 35mm pole mount adapter for touring applications.

i12 is driven with Aura Audio D-series controller amplifiers featuring flexible speaker specific filtering, limiting and ultra high-quality class-D output stage powered by high-efficiency switch-mode power supply.



### APPLICATIONS

Small to medium installations  
Night clubs and music bars  
Speech reinforcement  
Music reinforcement with XD10 or XD12 subwoofer

### SPECIFICATIONS

Frequency Response (-6 dB): 50–20kHz  
Horizontal Coverage (-6 dB): 100 degrees  
Vertical Coverage (-6 dB): 90 degrees  
Max peak SPL : 127 dB (free space)  
Sensitivity 1w/1m: 98 dB (free space)  
Crossover: 3.4kHz passive  
Impedance: 8 ohms  
Power handling: 200 W rms, 800 W pk  
Recommended HP-filter: 50 Hz, 12dB/oct

### DRIVERS

LF: (1) x 12" cone driver, reflex-loaded  
HF: (1) x 1" exit compression driver

### ENCLOSURE

Enclosure material: Finnish birch plywood,  
textured black paint finish  
Connectors: (1) x NL4, +/-1: Input, +/-2: link  
Dimensions: 540 mm x 360 mm x 370 mm  
Weight: 17 kg



  
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## i-Series

# i8SUB

### Ultra compact subwoofer.

i8SUB is complimenting the other i-Series products and extending the low frequency response of the systems. Designed to be discrete and low profile without compromising audio quality the i8SUB can be hidden inside structures, such as architectural features or anywhere space is limited.

Consisting of single 8" low frequency driver loaded with dual 4th order band-pass enclosure. The i8SUB delivers low frequencies down to an incredible 35Hz. Bringing true full range natural and uncoloured sound too any installation application.

The i8SUB is driven with the Aura Audio D2 powered controller. Up to 8 units can be driven from a single D2 amplifier making this combination very cost efficient without compromising sound quality.

Multiple colour options are available as a custom order, such as white and grey. Also a side-firing port option that can be used together with ceiling structures to hide the subwoofer completely.



#### APPLICATIONS

Subwoofer for restaurants  
Low frequency extension for i-series  
Home cinema subwoofer

#### DRIVERS

LF: (1) x 8" cone driver, band-pass loaded

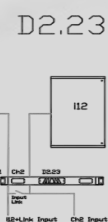
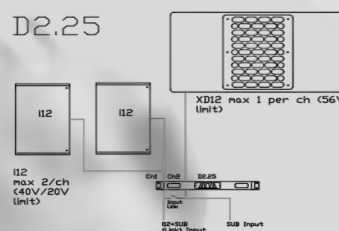
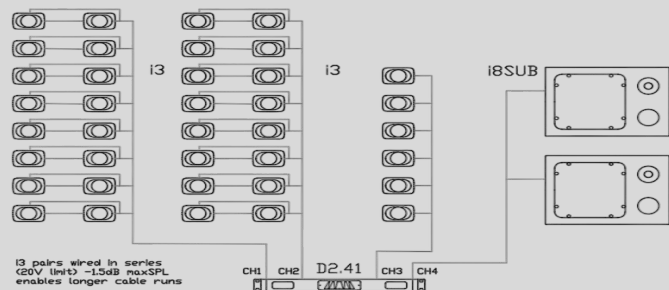
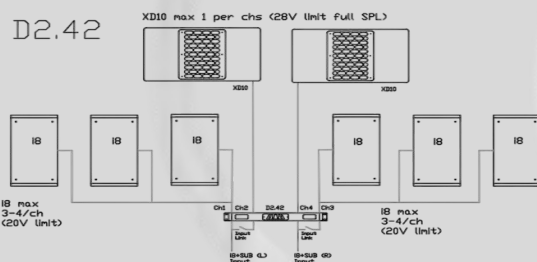
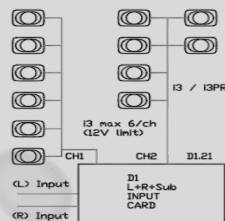
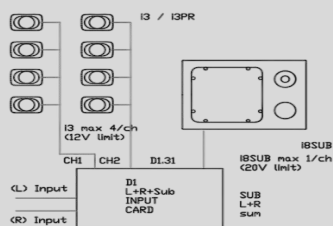
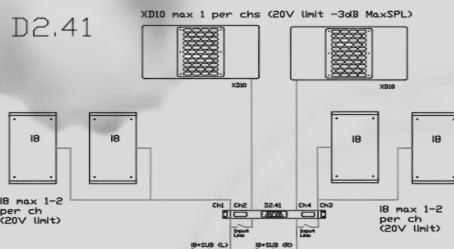
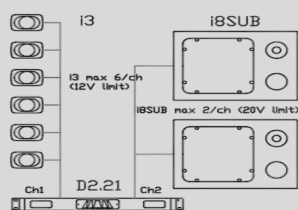
#### SPECIFICATIONS

Frequency Response (-6 dB): 35–120 Hz  
Horizontal Coverage (-6 dB): 360 degrees  
Vertical Coverage (-6 dB): 360 degrees  
Max peak SPL : 113 dB (free space)  
Sensitivity 1w/1m: 90 dB (free space)  
Crossover: 75-100Hz active  
Power handling: 50 W rms, 200 W pk  
Recommended HP-filter: 36 Hz, 12dB/oct

#### ENCLOSURE

Enclosure material: Finnish birch plywood,  
textured black paint finish  
Connectors: (1) x NL4, +/-1: LF, +/-2: -  
Dimensions: 430 mm x 350 mm x 250 mm  
Weight: 10 kg





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# F-Series

## F2

**High-end monitor speaker with lowest possible colorations.**

It features a unique combination of high output, high directivity, extremely well defined stereo image and low distortion levels.

It consists of four (4) 3" cone driver loaded with dedicated high directivity horn without crossover. This means wider phase-shift-free frequency band and even higher directivity. With 60x10 degree nominal dispersion F2 makes it easy to cover only a specific area according to installation with lowest possible room coloration.

F2 is driven with Aura Audio D2 amplifiers featuring Class-D amplifier. F2 requires no signal processing for optimal full range audio performance but in case even more bass power is needed F2 can be combined with recommended sub extension FSUB.



### APPLICATIONS

Full Range bi-amp or passive options  
Recording and mastering studios  
High-end home theater  
Small to medium high-end installations

### DRIVERS

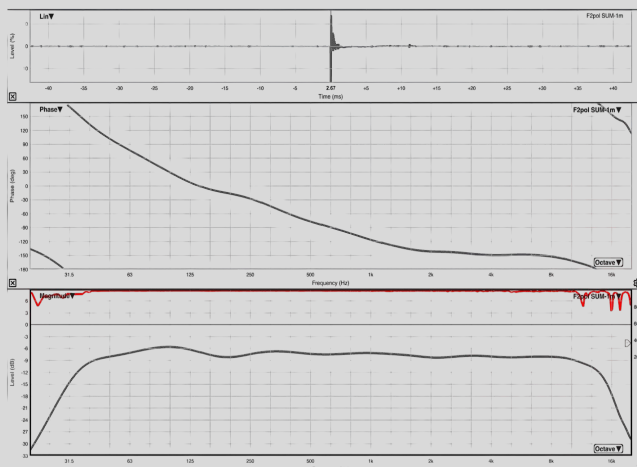
LF: (2) x 6" long excursion cone driver  
HF: (4) x 3" long excursion cone driver

### SPECIFICATIONS

Frequency Response (-6 dB): 30 Hz – 18kHz  
Max SPL (bi-amp): 117/124 dB (cont/pk, free space)  
Max SPL (passive): 108/114 dB (cont/pk, free space)  
Nominal Impedance: 3 ohms

### ENCLOSURE

Enclosure material: Birch plywood, textured black or white paint finish  
Dimensions: 530mm x 530cm x 280mm  
Weight: 20kg





# F-Series

# F2 Home Edition

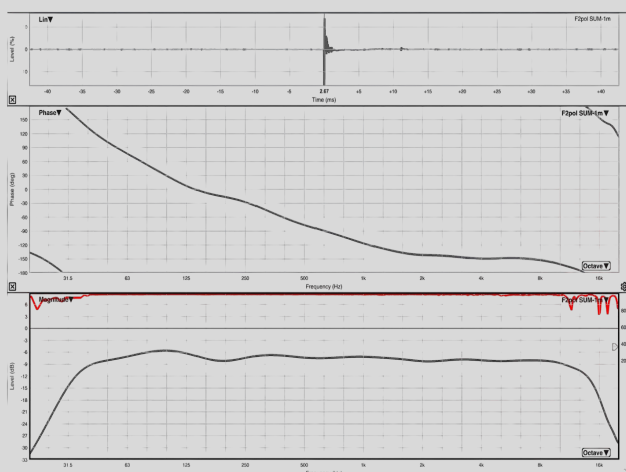
**High-end monitor speaker with lowest possible colorations.**

It features a unique combination of high output, high directivity, extremely well defined stereo image and low distortion levels.

It consists of four (4) 3" cone driver loaded with dedicated high directivity horn and two 6" long excursion bass drivers joined together with low order crossover. Low crossover point of 250Hz means wider phase-shift-free frequency band and even higher directivity. With 60x15 degree nominal dispersion F2 makes it easy to cover only a specific area according to installation with lowest possible room interference.

F2 comes in two different shapes, square classic monitor shape for stand or in-wall placement or towering Home Edition with multiple colour and feet options.

F2 is driven with Aura Audio D2 amplifiers featuring Class-D amplifier. F2 requires no signal processing for optimal full range audio performance but in case even more bass power is needed F2 can be combined with recommended sub extension FSUB.



## APPLICATIONS

Full Range bi-amp or passive options  
Recording and mastering studios  
High-end home theater  
Small to medium high-end installations

## DRIVERS

LF: (2) x 6" long excursion cone driver  
HF: (4) x 3" long excursion cone driver

## SPECIFICATIONS

Frequency Response (-6 dB): 30 Hz – 18kHz  
Max SPL (bi-amp): 117/124 dB (cont/pk, free space)  
Max SPL (passive): 108/114 dB (cont/pk, free space)  
Nominal Impedance: 3 ohms

## ENCLOSURE

Enclosure material: Birch plywood, textured black or white paint finish  
Dimensions: 1020mm x 330cm x 330mm  
Weight: 22kg



## D-Series

# D1

### D1 AMPLIFIERS with “ASP”

D1 amplifiers are Class-D High Efficiency Power Amplifiers with fixed Loudspeaker Management included. D1-series features latest technology in Class-D amplifier design including extremely high fidelity sound with frequency-independent harmonic distortion performance, high efficiency design and very low total weight. Speaker preset filters are done in analog domain (ASP = Analog Signal Processing) resulting in zero latency, wide bandwidth and natural transparency.

All D1 amplifiers are fitted with user variable speaker specific presets for specific loudspeaker including high-pass and low-pass filters, parametric EQ and very transparent optical limiter circuit. Filters can also be bypassed if additional DSP is used such as aux outputs of D80DSP.

All models are powered by auto mains voltage sensing switch-mode power supply with over current and over voltage protection system and optimized cooling system.

#### FEATURES

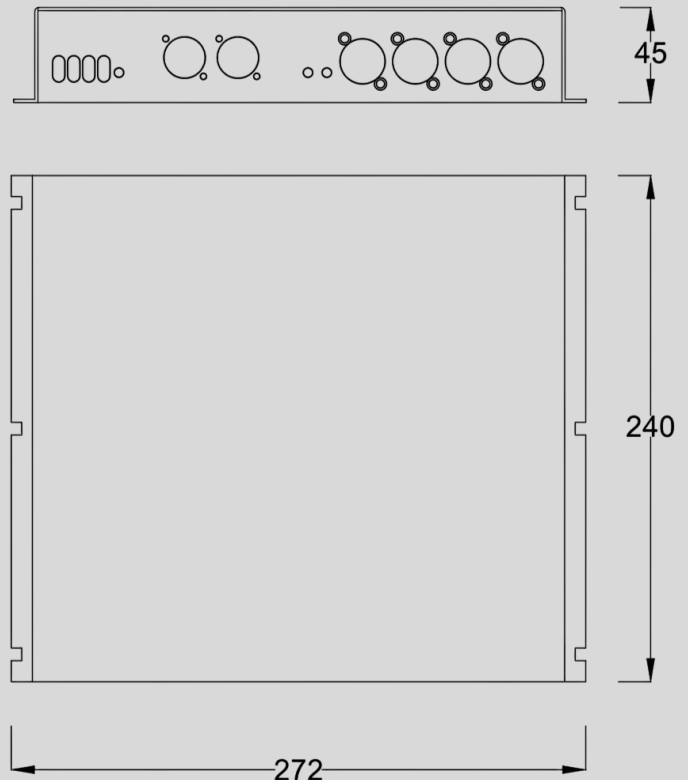
- Analog signal path with optical limiter
- Class-D amplifiers with switch-mode power supply
- Preconfigured loudspeaker management for i-series, F-series and subs
- 90% total efficiency

#### SPECIFICATIONS

- D1.21 2 x 125W/4 ohms (250W/8 ohms bridged), 2 x ASP
- D1.22 2 x 250W/4 ohms (500W/8 ohms bridged), 2 x ASP
- D1.31 3 x 100W/4 ohms (no bridge mode), 2 x ASP
- D1.32 2 x 200W/4 ohms + 1 x 100W/4 ohms (no bridge mode), 2 x ASP
- Frequency response: 15Hz-30kHz -1dB
- THD+N at -3dB <0.05% (50Hz - 20kHz)
- THD+N at +10dB limit <0.5% (1kHz)
- Input connectors: 2 x XLR
- Output connectors: 2-3 x Speakon NL4
- Mains connector: Powercon

#### DIMENSIONS

272mm x 45mm x 240mm  
Weight: 3kg



D1 MODELS



**D-Series**

**D2**



### **D2 AMPLIFIERS with “ASP”**

D2 amplifiers are Class-D High Efficiency Power Amplifiers with Loudspeaker Management included. D2-series features latest technology in Class-D amplifier design including extremely high fidelity sound with frequency-independent harmonic distortion performance, high efficiency design and very low total weight. Speaker preset filters are done in analog domain (ASP = Analog Signal Processing) resulting in zero latency, wide bandwidth and natural transparency.

All D2 amplifiers are fitted with user variable speaker specific presets for specific loudspeaker including high-pass and low-pass filters, parametric EQ and very transparent optical limiter circuit. Filters can also be bypassed if additional DSP is used such as aux outputs of D80DSP.

All models are powered by auto mains voltage sensing switch-mode power supply with over current and over voltage protection system and optimized low noise cooling system.

### **FEATURES**

High-end analog signal path with optical dynamics processing  
High fidelity class-D amplifier  
Switch-mode power supply  
Extremely low, frequency-independent THD performance  
ASP loudspeaker management  
90% total efficiency

### **DIMENSIONS:(mm)**

483mm(19") x 44mm(2u) x 400mm  
Weight: 5/6kg  
Shipping box: 540 x 85 x 510 (mm)  
Shipping weight: 6/7kg

### **SPECIFICATIONS**

D2.41 Output Power (4) 125W/4ohms  
D2.42 Output Power (4) 250W/4ohms  
D2.23 Output Power (2) 250W/8ohms  
D2.25 Output Power (2) 500W/8ohms  
Frequency response: 15Hz-30kHz -1dB  
THD+N at -3dB <0.05% (20Hz - 20kHz)  
THD+N at +10dB limit <0.5% (1kHz)  
Input connectors: 2 / 4 XLR  
Output connectors: 2 / 4 Speakon NL4  
Input Link 1&2 or 3&4: bi-amp and parallel options  
Mains connector: Powercon





# D-Series

# D80DSP



D80DSP is a combination of signal processing and amplifier channels with aux DSP outputs.

Easy access control via front panel is combined with PC and iPad remote controls and wall panel for installation use.

High fidelity, high efficiency class-D power amplifier stages are powered by a switch-mode power supply.

The build-in speaker preset library for all Aura Audio speaker models with highest definition DSP processing.



## Audiocore

Developed by XTA Electronics, AudioCore software gives you instant and intuitive control over all the parameters of D80DSP and D100DSP processing amplifiers.

Click on any unit's function blocks and the parameters for that function are immediately available and adjustable. All parameters can be adjusted via mouse or keyboard. Every aspect of a network of amplifiers can be controlled and monitored wirelessly.

## SPECIFICATIONS

Number of amplifier channels: 4

Output Power: (per channel)

8 ohms 1000W

4 ohms 2000W

2.7 ohms 2200W

2 ohms 2000W

Output Power: (bridged)

8 ohms 4000W

4 ohms 4000W

Processing: 24bit (ADC and DAC)

Internal sample rate: 96kHz

System THD: <0.08% (2kW, 1k)

Freq. resp.: 3Hz-30kHz -3dB

Gain; Delay; Polarity; IIR EQ (PEQ, shelving, variQ, all pass, phase, notch, band pass) for each input and output (4 per output, 8 per input)

## CONNECTIONS

Input connectors: 4 x XLR (two for AES)

Output connectors: 4 x Speakon

AUX DSP outputs: 4 XLR

Mains connector: PowerCon

Remote Control: USB (front panel)

Rear Panel: RS485 bus, Direct Ethernet, GPIO Port Dante Audio Network (optional) Up to 32 units can be connected into a closed control network

## DIMENSIONS:(mm)

Amplifier 2U/88(h) x 482(w) x 428(d)

Weight: 10kg

Shipping weight 12kg

Shipping box: 250 x 610 x 600



# D-Series

# D100DSP

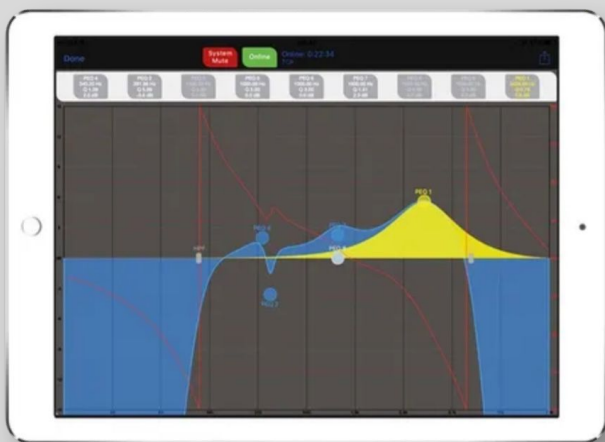


D100DSP is a combination of signal processing and amplifier channels with aux DSP outputs.

Easy access control via front panel is combined with PC and iPad remote controls and wall panel for installation use.

High fidelity, high efficiency class-D power amplifier stages are powered by a switch-mode power supply.

The build-in speaker preset library for all Aura Audio speaker models with highest definition DSP processing.



## DeltaDirect for i-Pad

DeltaDirect connects to your WiFi network and to D80DSP and D100DSP amplifiers via a wireless router. Once connected the app lets you adjust all vital tuning parameters such as gain, delay and EQ for all inputs and outputs. You can also choose signal sources, matrix, mutes and name the channels along grouping of large number of functions.



## SPECIFICATIONS

Number of amplifier channels: 4

Output Power: (per channel)

8 ohms 1400W

4 ohms 2700W

2.7 ohms 3700W

Output Power: (bridged)

8 ohms 5400W

4 ohms 7000W

Frequency response: 20Hz-20kHz (+/-0.5dB)

THD+N at -1dB <0.1% (20Hz-20kHz)

Input CMRR: >60dB

Damping Factor: >400 (8 ohms/1kHz)

## CONNECTIONS

Input connectors: 4 x XLR (two for AES)

Output connectors: 4 x Speakon

AUX DSP outputs: 4 XLR

Mains connector: PowerCon

Remote Control: USB (front panel)

Rear Panel: RS485 bus, Direct Ethernet, GPIO Port Dante Audio Network (optional) Up to 32 units can be connected into a closed control network

## DIMENSIONS:(mm)

483 (19") x 88 (2u) x 428 (mm)

Weight: 10.8kg

SHIPPING BOX 600 x 250 x 610 (mm)

Shipping weight: 12.3kg



## D-Series

# D80/100/120



D80, D100 and D120 are a range of high power amplifiers to complement D80DSP and D100DSP processing amplifiers.

A rear panel switch allows the amplifier to accept either four channels of analogue audio or pick up four channels of networked audio, via Dante, which is then converted using 24 bit 96kHz DACs.

Connect to a Delta DSP amplifier using a single CAT5 cable to realise a stereo 4 way system with no further external processing required. Switch back to analogue to use as a powerful traditional quad channel amplifier.

Run bridged channel pairs or link adjacent inputs for total flexibility in either analogue or digital mode.

### SPECIFICATION (shared)

Input connectors: 4 x XLR (two for AES)  
Output connectors: 4 x Speakon (2 / D120)  
System THD: <0.08% (2kW, 1k)  
Mains connector: PowerCon  
Freq. resp.: 3Hz-30kHz -3dB  
Rear Panel: Powercon, Speakon and XLR connectors,  
Dante Audio Network (optional)  
Dimensions: 2U/88(h) x 482(w) x 428(d)  
Weight: 10kg (13kg D100/120)  
Shipping weight 12kg/15kg  
Shipping box: 250 x 610 x 600

### SPECIFICATIONS D80

Number of amplifier channels: 4  
Output Power: (per channel)  
8 ohms 1000W  
4 ohms 2000W  
2.7 ohms 2200W  
2 ohms 2000W  
Output Power: (bridged)  
8 ohms 4000W  
4 ohms 4000W

### SPECIFICATIONS D100

Number of amplifier channels: 4  
Output Power: (per channel)  
8 ohms 1400W  
4 ohms 2700W  
2.7 ohms 3700W  
2 ohms 3500W  
Output Power: (bridged)  
8 ohms 5400W  
4 ohms 7000W

### SPECIFICATIONS D120

Number of amplifier channels: 2  
Output Power: (per channel)  
8 ohms 2400W  
4 ohms 4600W  
2.7 ohms 6250W  
2 ohms 6800W









Custom colored i3 in Cafe Fontana, Turku