

Product Overview

January 2024

501
YEARS
BARCELONA
1972-2022

Made in Barcelona since 1972

At Amate Audio we have been designing and manufacturing professional audio equipment in Barcelona for more than 50 years.

Throughout that time we have been at the forefront of innovation in professional sound, pioneering the use of numerous new technologies and creating groundbreaking designs. Our current portfolio of

advanced sound reinforcement systems offers the very highest standards of performance and functionality for use in the most demanding application environments.

Juan Amate, the founder of our company, began this legacy in 1972. His vision was to design and build innovative power amplifiers and PA loudspeaker cabinets. Amate Audio is now a second-generation



family company under the leadership of Juan's sons, Joan, as President and Chief Technical Officer, and Jordi, as International Sales Manager, continue to drive the company forward, upholding our commitment to innovation and quality. Joan Amate leads R&D and engineering teams; their collective endeavour is the design and development of speaker systems that exceed the performance expectations.

“Our focus has always been on continuous learning, adapting to new technologies, and meeting industry needs.”

Our approach to product design reflects a deep understanding of the intricacies of sound. We strive to combine high-quality electroacoustic components with advanced power and control technologies, all within acoustically engineered enclosures. This meticulous attention to detail is evident in our tightly controlled manufacturing process. Our integrated facilities, equipped with modern anechoic chambers, are pivotal in maintaining our high standards of quality and performance.

Amate Audio's first 50 years have been distinguished by a succession of industry innovations and firsts. These include early implementation of signal processing in active loudspeaker systems and power amplifiers, and the first example of integrated computer control and monitoring in a line-array; the company's very first design of the type.

Today our product portfolio encompasses the full spectrum of professional sound reinforcement applications with industry leading designs in every product class; from proprietary injection-mould commercial audio loudspeakers to stadium filling line arrays. The range includes both self-powered, active systems and passive systems, powered and controlled by our range of outboard lightweight, high efficiency amplifiers and powerful DSP controllers.

“With over 50 years of experience, the history of the company is marked by being always at the forefront of innovation.”

With a history spanning decades, Amate Audio is poised to continue our tradition of excellence. Our history is not just a record of past achievements but a foundation for future advancements. We are committed to providing sound solutions that not only meet but anticipate the needs of our clients. With user-friendly digital controls and networking capabilities, our advanced loudspeaker systems are designed to deliver superior audio experiences, today and into the future.

Over five decades of achievement

1972

A new era of sound:

In 1972 Juan Amate transformed his passion for designing and building PA systems into a commercial enterprise. At the same time new bipolar transistor circuits were enabling development of far more efficient, higher power, higher performing power amplifiers, allowing the design of bigger, better sound systems.

90's

Self-powered PA and signal processing power amps:

First Amate Audio active self-powered PA systems (AT350 - A400SW). World's first power amplifier series with mains 400 VAC electronic overvoltage protection and selectable signal processing cards for different loudspeaker systems (DPU series).

80's

Onboard electronics:

Amate Audio designs the first power amplifiers with integrated anti-clip limiters (AD series), introducing a new feature that would soon become a standard. World's first 3-channel (2.1) power amplifier with built-in active signal processing and crossover (Triphonic).

"I had developed a passion to do something to enable the beauty, power and nuance of a musical performance to be heard in a more perfect, natural way"

- Juan Amate
CEO & Founder
1972

MD cluster array (90's)





XA211 line array speaker system (2023)

00's

Beyond active:

The rise of high efficiency, higher rated self-powered active PA systems with Class D amplification, like the Amate Audio MA210, the world's first line array with onboard digital signal processing (DSP) and computer remote control (MA series).

10's

The Xcellence years:

Xcellence, a new premium series of active self-powered, sound reinforcement systems with onboard DSP, Ethernet / Wi-Fi control, offering unparalleled levels of quality, performance and operational efficiency.

20's

Xcellence, Nítid, Active+ and the next decade:

New implementations of our unique touchscreen power & control technologies provide higher orders of system management, feature intelligent pre-set 'sound design' capabilities that automate manually intensive processes by systematically configuring amplifier gain, crossover and limiter settings according to application. Together with high-order FIR filtering, for absolute phase coherent PEQ adjustment and cabinet and delay line alignment, and digital audio networking, these ensure superior resultant performance and massively reduced deployment time, and are revolutionising the roles of system engineer and installer.

Combined with the continuous evaluation and optimisation of electro-acoustic components, within proprietary wooden and injection-mould enclosures, we continuously achieve ever better performance from ever more compact, aesthetic designs.

Driven by technology, defined by innovation

At Amate Audio, we understand that the synergy of research, collaboration, and advanced technology is fundamental to our success.

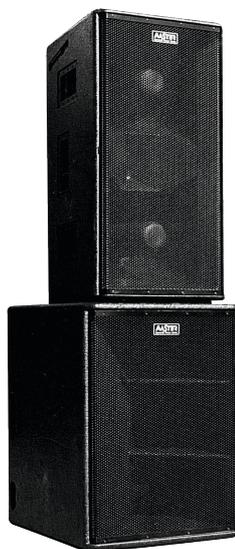
In our Research and Development department, a team of engineers and researchers painstakingly works towards perfecting our sound systems; integrating the latest processing technologies and acoustic components, in designs that provide innovative solutions and exceed performance expectations.



Cámara de Comercio
Premio a la Innovación 2009



Cámara de Comercio
Premio a la Innovación 2017



MD212 and MD218 processed speaker system (1993)



X102FD point source system (2019)

Our leading-edge testing laboratory is at the forefront of our innovation, where new design concepts are born and undergo rigorous quality control and product analysis. Our facilities are equipped with two anechoic chambers, ensuring that we consistently achieve the highest standards of performance. One chamber is devoted to meticulous quality control, while the other is a hub of research, recognized as one of the most advanced in Europe. Its size, automation, and control systems have won us the Innovation Award from the Terrassa Chamber of Commerce in both 2009 and 2017.

We have also been recognised as “Innovative SME” by the Spanish government.



INNOVATIVE SME



Science and Technology Park of Terrassa

Amate Audio's dedication to pioneering new methods and technologies has been officially acknowledged as “Innovative SME”, a distinction reserved only to companies that demonstrate the highest level of innovation in their projects. This recognition, awarded by the Spanish government, reaffirms our relentless pursuit of excellence and our ambition to lead the industry as innovators.



X212AFD line array speaker system (2019)

The R&D 400m³ anechoic chamber



Product design

At Amate Audio we are in constant contact with sound technicians and engineers. Listening to their advice, opinions and aspirations, we are cognizant of the requirements of their craft and the ways in which these are constantly evolving, throughout the process of realizing each new design concept.

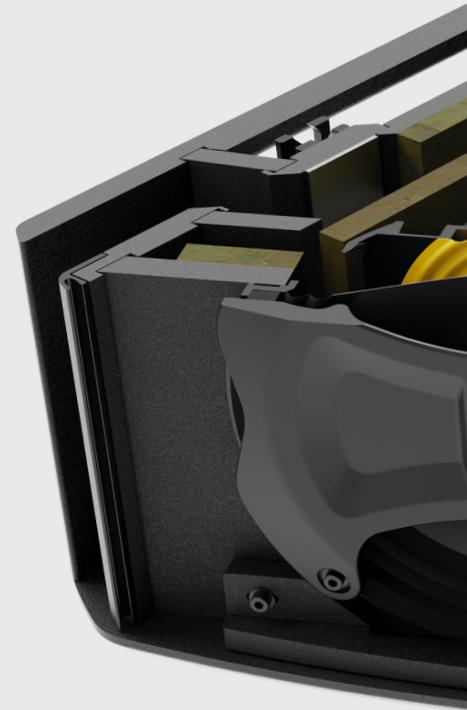
We evaluate every performance and operational parameter, every response characteristic, the ergonomics of handling and usability, strength and reliability – in withstanding the most severe conditions and extreme handling – and the suitability, sourcing and sustainability of different materials.

In developing exceptional sound reinforcement systems, our aim is to fulfil the demands and expectations of all who will use or be entertained by them; engineers and technicians, artists and audiences, dinners and clubbers, theatre goers, festival and stadium crowds. Our mission is to wow them all.

Day-to-day R&D activity involves constant trials and testing of the application of materials and components, to determine the highest possible levels of electronic and acoustic performance, within pro audio specific application design requirements.

Smart design is key for us

The realisation process for a design project sees the product concept rendered in 3D modelling and the construction of several prototypes to be comprehensively tested under all applicable circumstances.



Nítid S rear-panel touchscreen (2022)





Only when we are fully satisfied that a product meets the very highest standards of performance and operational capability will it finally go into production.

The same meticulous process is applied to the development of our market leading design features, be it our proprietary HF waveguides, touchscreen technology, or advanced digital signal processing platform.

We collaborate closely with experts from local universities and technology centres in many

fields of engineering development, allowing us to continually acquire knowledge of the latest experimental research in acoustics, electronics and design. And, thanks to its in-company product development skills, Amate Audio also offers consultancy and product customisation for specific client applications.

Our products must deliver optimal acoustic performance while simultaneously enabling the greatest possible ease of use and successful application.

XCELLENCE

Xcellence means combining the latest available technologies, an extreme care for the finest details and a user friendly design, in order to create a product that meets the most demanding markets and applications with excellent performance.

Xcellence is the response of Amate Audio to the challenge of creating high-end products, a compromise to deliver our best and share with you our passion, the search for the best sound.

CONTROL SOFTWARE DSP STUDIO®
PC & MacOS version available.



 **Dante™**

 **Act+ve**



All XCELLENCE products feature our original > 400 Volt overvoltage protection.



Our exclusive waveguides: unrivalled performance

Amate Audio's engineering team has successfully achieved waveguide designs with consistent amplitude and exceptional long throw. The isophasic waveguide assembly, loaded with multiple Neodymium drivers, has been designed exclusively for our line array systems.

As a result, we acquire unsurpassed performance levels with side lobe-free vertical dispersion and crystal clear response at high frequencies.

DSP Studio® control software

Provides remote control of parameters; gain (per way), limiter, polarity, delay and custom parametric EQs can all be managed from your device (DSP Studio® is available for PC and MacOS). Several elements can be controlled at the same time using grouping functions.

The software also gives complete information about the amplifier status: input and output levels, heat-sink temperature, clip and protection indications.

Design in every detail

We have invested in and applied the very best knowledge, materials and technology to deliver the ultimate product. Features such as precision-made ergonomic handles and metallic finish grilles speak for themselves.

Not only do they contribute to an appealing look, but they also allow comfortable handling and protection against moisture, rain and dust.

Premium custom components

Xcellence series has been precision engineered with customised components that optimise the acoustic properties of each cabinet design. Customising transducers, control circuits, user interfaces, horns and waveguides, allows us to achieve the highest attainable levels of system performance.



New Touchscreen Interface



Point Source / Stage Monitor

X14FD

Self-powered

14" COAXIAL ACTIVE SELF-POWERED
BI-AMPLIFIED. 1500W

64-bit DSP with FIR filters.

Ethernet connectivity · Built-in DSP – Presets –
Touchscreen – Neodymium coaxial woofer



Amplifier Program Power : 1000 W (LF) + 500 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 48 Hz - 20 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 129 dB (musical program)

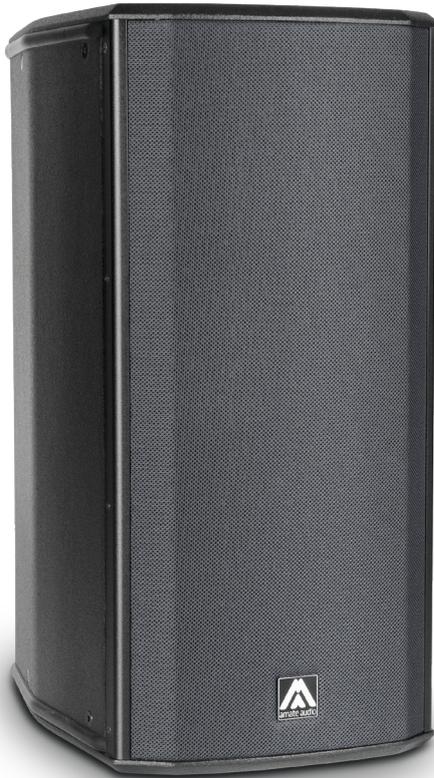
Directivity (-6dB) : 80° (H) x 80° (V)

Dimensions (HxWxD) : 623 x 402 x 430 mm

Weight : 22.6 kg



High Performance Point Source



X102FD

Self-powered

2x 10" ACTIVE SELF-POWERED
BI-AMPLIFIED. 3000W

64-bit DSP with FIR filters.

Ethernet connectivity · Built-in DSP – Presets –
Touchscreen



Amplifier Program Power : 2500 W (LF) + 500 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 58 Hz - 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 136 dB (musical program)

Directivity (-6dB) : 80° (H) x 60° (V) rotatable horn

Dimensions (HxWxD) : 704 x 330 x 460 mm

Weight : 32 kg



Line array

NEW PRODUCT



XA211

Self-powered

2x 10" ACTIVE SELF-POWERED BI-AMPLIFIED. 3000 W

64-bit DSP with FIR filters.

Ethernet connectivity. Built-in DSP – Presets – Touchscreen



Amplifier Program Power : 2500 W (LF) + 500 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 65 Hz - 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 136 dB (musical program)

Directivity (-6dB) : 95° (H) x 10° (V)

Dimensions (HxWxD) : 294 x 740 x 566 mm

Weight : 37.4 kg



Line array

NEW PRODUCT

XA211P

2x 10" TWO-WAY LINE ARRAY MODULE FOR EXTERNAL DSP + BI-AMPLIFICATION. 1700 W or slave module to XA211



Program Power : 1450 W (LF) + 250 W (HF)

Frequency Response (-10dB) : 65 Hz - 2 kHz (LF) / 800 Hz - 19 kHz (HF)

Sensitivity (1W/1m) : 105 dB (LF) / 112 dB (HF)

Maximum SPL (1m) : 136 dB (LF) / 135 dB (HF) (musical program)

Directivity (-6dB) : 95° (H) x 10° (V)

Dimensions (HxWxD) : 294 x 740 x 566 mm

Weight : 35 kg



Standard configuration one XA211 powers one unit of XA211P.

Line array



X212AFD

Self-powered

2x 12" + 4x6" + 2x3" ACTIVE SELF-POWERED TRI-AMPLIFIED. 4000 W

64-bit DSP with FIR filters.

Ethernet connectivity. Built-in DSP – Presets – Touchscreen



Amplifier Program Power : 2000 W (LF) + 1000 W (MF) + 1000 W (HF)
Class D Tri-amplified

Frequency Response (-10dB) : 42 Hz - 18 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 141 dB (musical program)

Directivity (-6dB) : 100° (H) x 8° (V)

Dimensions (HxWxD) : 372 x 1100 x 657 mm

Weight : 64.6 kg



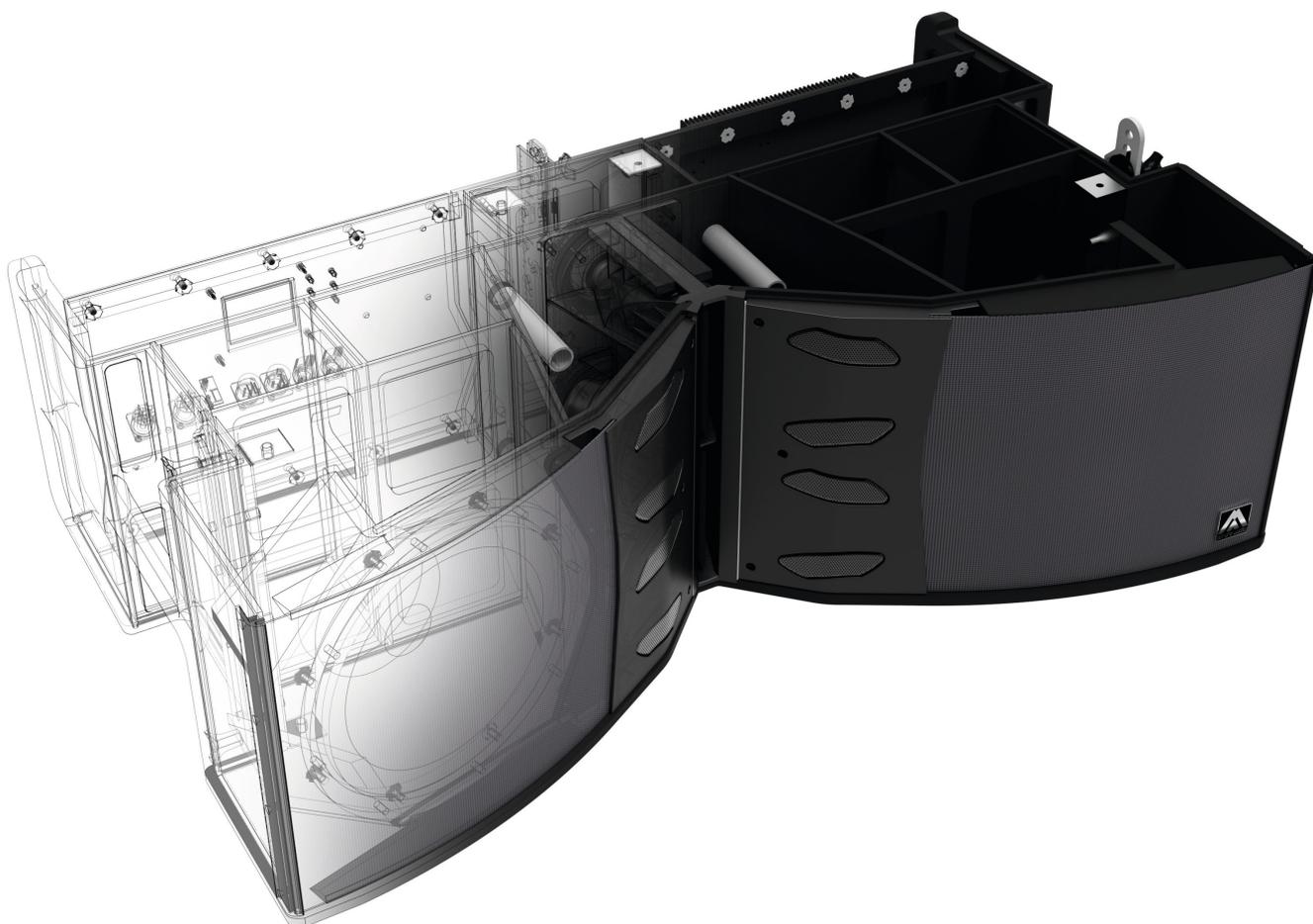


Technology and innovation

The Xcellence series flagship system —the X212AFD— represents an evolutionary apex of line array design. Breakthrough technologies, advanced precision acoustic engineering, touchscreen control, Amate Audio's next-generation ACTIVE +™ integrated power and control platform, and Dante® AoIP; these are just some of the top-line features of this phase linear, 2x 12" (LF), full range line array.

Power and precision

The distinctive V-shape cabinet geometry and 3-way active transducer configuration have been optimised throughout an extensive R&D program by our design team, to attain astounding levels of performance that include 100° horizontal and 8° vertical coverage, with constant directivity in the horizontal plane, and exceptional SPL. The 2x 12" LF, 4x 6" MF and dual 3" HF transducer pairings are discretely enclosed, independently powered and protected due to separate limiter settings with differing time constants.



Subwoofer

XW118

Self-powered

18" ACTIVE SELF-POWERED SUBWOOFER. 2500 W

64-bit DSP with FIR filters.

Ethernet connectivity. Built-in DSP – Presets – Touchscreen

Cardiod presets included.



Amplifier Program Power : 2500 W Class D

Frequency Response (-10dB) : 30 Hz - 140 Hz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 133 dB (musical program)

Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 555 x 740 x 748 mm

Weight : 56.8 kg



Subwoofer



XW218

Self-powered

2x 18" ACTIVE SELF-POWERED SUBWOOFER. 5000 W

64-bit DSP with FIR filters.

Ethernet connectivity. Built-in DSP – Presets – Touchscreen

Cardiod presets included.



Amplifier Program Power : 5000 W Class D

Frequency Response (-10dB) : 25 Hz - 130 Hz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 141 dB (musical program)

Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 1116 x 750 x 780 mm

Weight : 106 kg



NEW SOFTWARE

DSP STUDIO 4

REMOTE CONTROL SOFTWARE



Enjoyable from scratch

Prepare your projects offline and effortlessly connect to your setup when on-site, ensuring a flawless transition to live performance. Modern, user-friendly interface designed for intuitive system setup. The new version of DSP Studio makes system configuration even smoother, featuring auto-detection and seamless cabinet integration.

Intuitive and organised

Organising and controlling multiple cabinets is now more intuitive. Now compatible with MAC OS and enhanced for touchscreen interaction, the interface offers a natural and responsive setup process. Link identical cabinets or group various models and use different EQ and tuning parameters for each one thanks to an optimised layout grid, suitable for any project size.

Get full control

Comprehensive control over every aspect of your sound system. Detailed feedback on input and output levels, amplifier temperature, and protection indicators are all at your disposal. Fine-tune parameters with precision: gain, limiter threshold, delay, polarity and parametric EQs for each individual cabinet or for each group or array.

Unprecedented flexibility

Bespoke control protocol offering adjustments from anywhere in the venue. The software's three working modes —Configuration, Tuning, and Live— provide tailored functionality. Configure devices, assign IPs, and organize your layouts. Adjust your system's sound with selectable presets, filters, delays and gains. Monitor your devices in real-time, with temperature/VAC readings, limiter activity, and VU meters.



DSP Studio 4

Get instant access to outstanding sound

1

Configure

Add cabinets to the layout and build your project

2

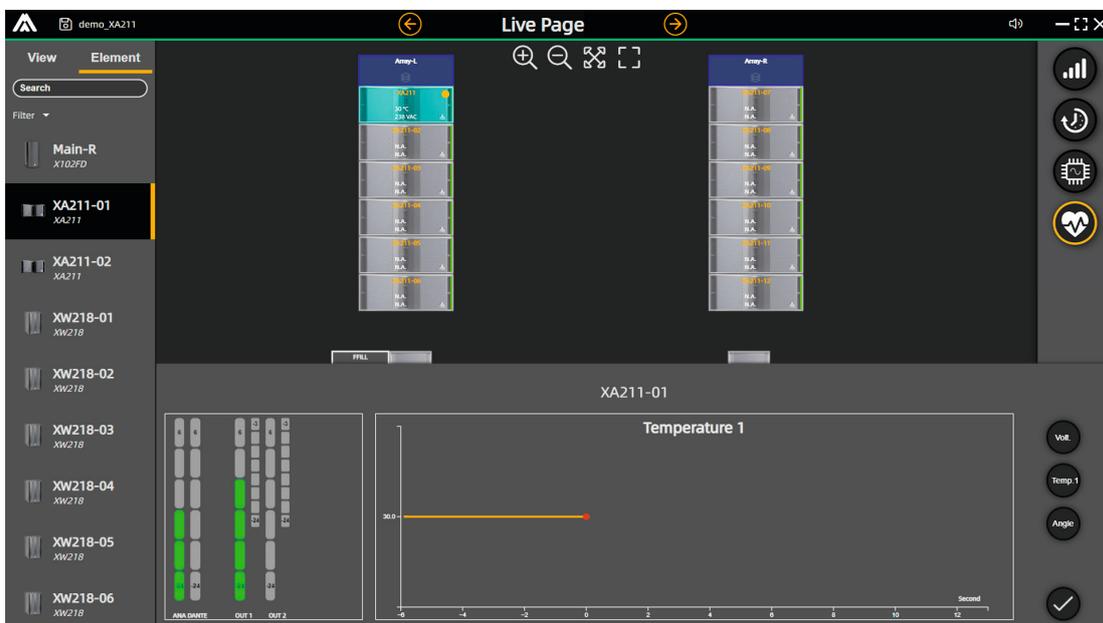
Tuning

Create groups, assign views and set audio parameters

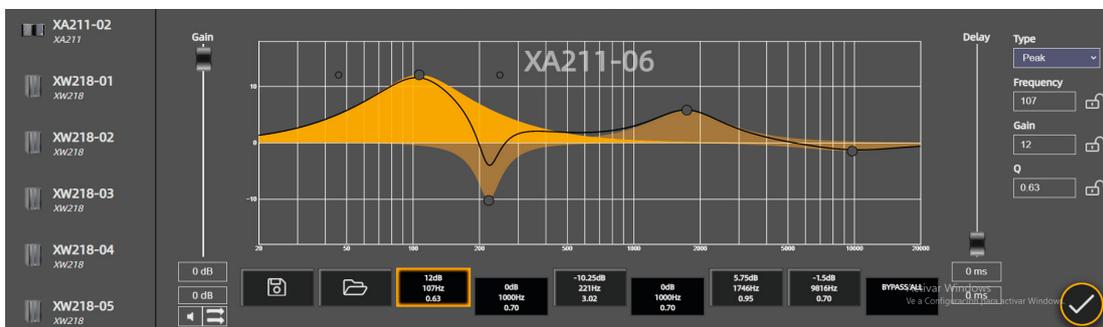
3

Live

Monitor the devices in real time



Live Page



Advanced parameters setup

Available for:
 X14FD, X102FD, XA211, X212AFD,
 XW118, XW218

Xcellence Accessories



Flight case

FC-X14FD	for 2 units of X14FD
FC-X102FD	for 2 units of X102FD
FC-XA211	for 4 units of XA211 with bumper
FC-TAX212	for 2 units of TA-X212



Trolley

TR- X212	transport frame up to 4 units of X212AFD
TR- XW118	wooden plate with reinforced wheels for XW118



Protective cover

NC-X102FD	for X102FD + power cable
NC-XW118	for XW118
NC-XW218	for XW218
NC-X212 / 4U	for X212AFD + TR-X212



Cable Tester

The ultimate tool for checking the health of your cables.
Supports SpeakON, XLR and RJ45

Cables



PCS-1

XLR + PowerCon male to XLR + PowerCon female – 1 m



PCS-2

XLR + PowerCon male to XLR + PowerCon female – 2 m



MP/QBS Power/signal balanced cable

For active acoustic systems – 3x 2 mm² POWER (Mains)
4x 0.22 mm² SIGNAL (high isolation quad balanced) – **100 m reel**



CS-100 Balanced signal cable

2x 0.22 mm² Double shielded for balanced signal – **100 m reel**

SPC-4B Speaker cable for bi-amplified systems

2x 4 mm² + 2x 2,5 mm² SUPERFLEX – **100 m reel**

Ethernet cables



ECRJ45-80

Ethernet cable with metal housing both ends – 0.8 m

ECRJ45-130

Ethernet cable with metal housing both ends – 1.3 m

ECRJ45-200

Ethernet cable with metal housing both ends – 2 m

ECRJ45-500

Ethernet cable with metal housing both ends – 5 m

ECRJ45-1200

Ethernet cable with metal housing both ends – 12 m

M8 rigging eyebolt Stainless steel



ACR-M8

for X14FD / X102FD

Safety sling With accessories – Stainless steel



SC-15

Safety sling



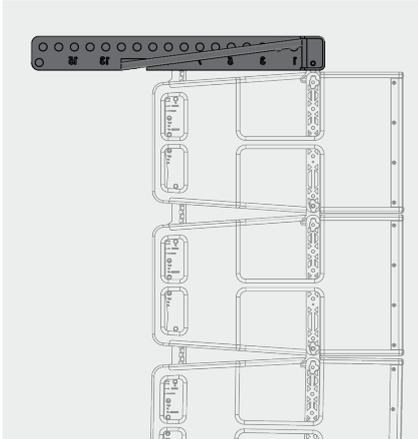
BL-8

Ball-lock safety pin

Xcellence Accessories

Stainless steel

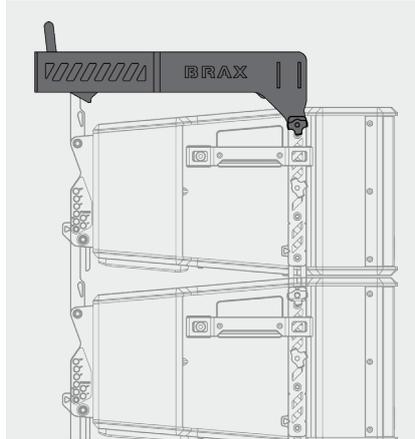
Touring bumper



TA-X212 for X212AFD

Loading 6 cabinets with 10:1 safety ratio
Loading 12 cabinets with 5:1 safety ratio

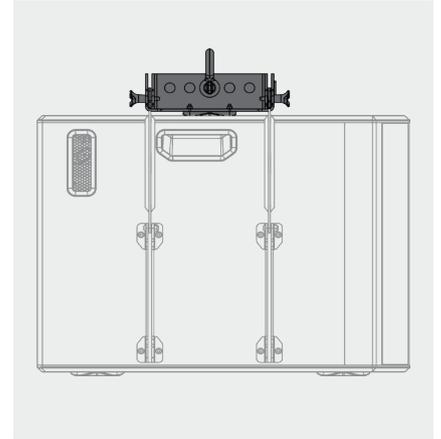
Touring bumper



BRAX for XA211

Loading 8 cabinets with 10:1 safety ratio
Loading 16 cabinets with 5:1 safety ratio

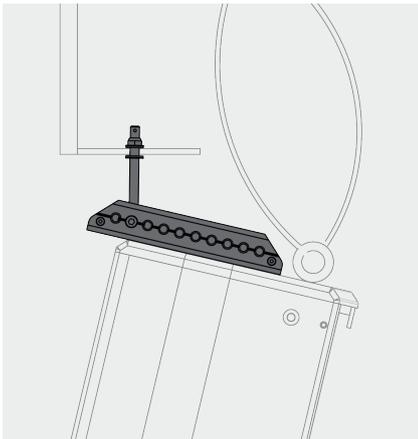
Touring bumper



BRWX for XW118

Loading 4 cabinets with 10:1 safety ratio

Flying bar



RB-L

for X14FD / X102FD
Rigging bar

Flying bar



RB-L/GT

for X14FD / X102FD
Rigging bar with 50 mm hook

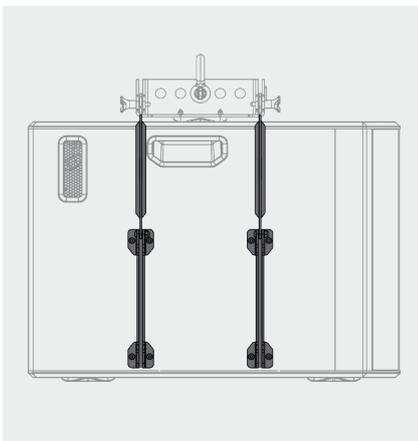
Flying bar



HR-L102

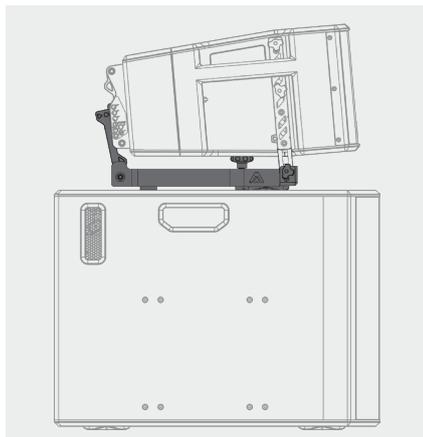
for two units X102FD
Vertical rigging bar with 3 pins

Flying hardware



KRW118 for XW118

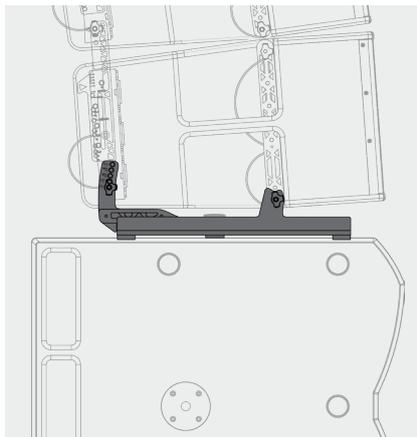
Stacking



STAX

for XA211 / XW118

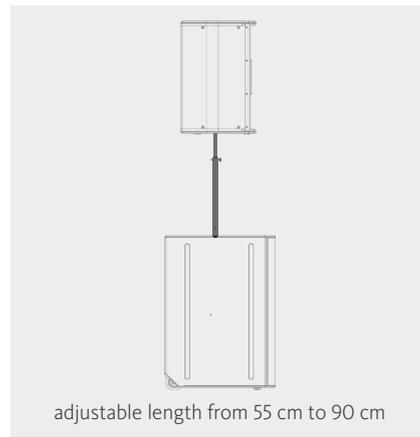
Stacking



FR-X212

for X212AFD / XW218

Hardware



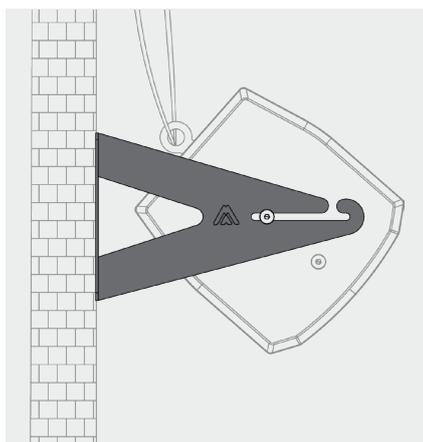
adjustable length from 55 cm to 90 cm

SP/CRTL

for X14FD / X102FD / XW118 / XW218

Ø 35 mm - length 55 cm ~ 90 cm - thread M20

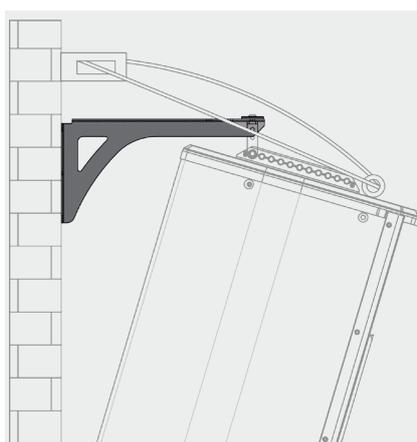
Wall mount bracket



UB-L

for X14FD

Wall mount bracket



SP-WHR

for X14FD, X102FD

NÍTiD-S

Nítid S is Amate Audio's new series of upgraded, active, compact fixed installation and portable PA loudspeakers.

Now in its second generation, **Nítid S** deploys the company's latest developments in amplification and control technology in symbiosis with our advanced acoustic design and engineering, to achieve exceptional levels of performance from ultra-compact loudspeaker systems.

Nítid - from the Latin *nitidus*, meaning bright, glistening or lustrous, clear, and *nitere*, to shine.



Evolution

Design looking for better performance. New S-series models build on the success, innovation and best-in-class performance of the original Nítid designs with improved features including a recessed moulded connector plate, more highly stylised form factor and improved robustness of the world's most acoustically transparent pro-audio speaker grille.

High-class performance

Nítid's onboard integrated 'plug & play' power and control platform now includes advanced high-order FIR filtering for full phase coherent PEQ adjustment and absolute phase alignment of common cabinet couplings. The control DSP manages the relevant amplifier gain, limiting, cross-over settings and alignment delays, providing previously unattainable levels of system performance every time – in an instant.

Touchscreen control

Amate Audio's latest generation DSP system management is integrated with 3rd generation Class D amplification. Colour touchscreen operation and monitoring of DSP system includes access to powerful presets – engineered by Amate Audio's R&D team – that instantly configure your Nítid loudspeaker for the majority of common application environments within seconds, prior to rigging or installation.

The perfect balance

An ongoing programme of research and development ensures that Nítid series loudspeakers continue to achieve the highest levels of output and performance from the most compact-sized designs, in an unrivalled synthesis of engineering and aesthetic form.



Point Source

NEW PRODUCT



S6L Active DSP Self-powered



6" TWO-WAY ACTIVE SELF-POWERED
FULL-RANGE – 250 W

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 200 W (LF) + 50 W (HF) Class d Bi-amp

Frequency Response (-10dB) : 62 Hz - 20 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 115 dB (musical program)

Directivity (-6dB) : 70° (H) x 70° (V)

Dimensions (HxWxD) : 400 x 230 x 250 mm **Weight :** 7.2 kg

S6LP

6" TWO-WAY PASSIVE SPEAKER
FULL-RANGE – 200 W

S6P/8 Nominal impedance: 8Ω
S6P/16 Nominal impedance: 16Ω

Program Power : 200 W

Frequency Response (-10dB) : 63 Hz - 20 kHz

Sensitivity (1W/1m) : 92 dB

Maximum SPL (1m) : 115 dB (musical program)

Directivity (-6dB) : 70° (H) x 70° (V)

Dimensions (HxWxD) : 400 x 230 x 250 mm **Weight :** 6.4 kg



Point Source



S26 Active DSP Self-powered

Control Touchscreen 

2x 6" TWO-WAY ACTIVE SELF-POWERED FULL-RANGE – 450 W

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 400 W (LF) + 50 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 58 Hz - 20 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 121 dB (musical program)

Directivity (-6dB) : 70° (H) x 70° (V)

Dimensions (HxWxD) : 572 x 230 x 250 mm

Weight : 10.6 kg

S26P

2x 6" TWO-WAY PASSIVE SPEAKER FULL-RANGE – 400 W

S26P/8 Nominal impedance: 8Ω
S26P/16 Nominal impedance: 16Ω

Program Power : 400 W

Frequency Response (-10dB) : 62 Hz - 20 kHz

Sensitivity (1W/1m) : 95 dB

Maximum SPL (1m) : 121 dB (musical program)

Directivity (-6dB) : 70° (H) x 70° (V)

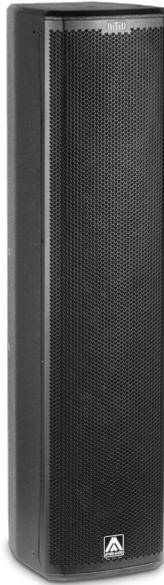
Dimensions (HxWxD) : 572 x 230 x 250 mm

Weight : 9.3 kg



Column Array

NEW PRODUCT



S46 Active DSP Self-powered Control Touchscreen

4x 6" TWO-WAY ACTIVE SELF-POWERED FULL-RANGE – 700 W

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 600 W (LF) + 100 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 50 Hz - 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 125 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 1056 x 250 x 274 mm **Weight :** 20.3 kg

S46P

4x 6" TWO-WAY PASSIVE SPEAKER FULL-RANGE – 600 W

Nominal impedance: 8Ω

Program Power : 600 W

Frequency Response (-10dB) : 50 Hz - 19 kHz

Sensitivity (1W/1m) : 97 dB

Maximum SPL (1m) : 125 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 1056 x 250 x 274 mm **Weight :** 19.7 kg



Point Source / Stage Monitor



S10 Active DSP Self-powered



S10P

**10" TWO-WAY ACTIVE SELF-POWERED
FULL-RANGE – 600 W**

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 500 W (LF) + 100 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 55 Hz - 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 125 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 543 x 313 x 358 mm

Weight : 15 kg

**10" TWO-WAY PASSIVE SPEAKER
FULL-RANGE – 500 W**

Nominal impedance: 8Ω

Program Power : 500W

Frequency Response (-10dB) : 55 Hz - 19 kHz

Sensitivity (1W/1m) : 96 dB

Maximum SPL (1m) : 123 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 543 x 313 x 358 mm

Weight : 15.3 kg



Point Source / Stage Monitor



S12 Active DSP Self-powered

Control
Touchscreen 

**12" TWO-WAY ACTIVE SELF-POWERED
FULL-RANGE – 1000 W**

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 800 W (LF) + 200 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 52 Hz – 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 128 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 623 x 363 x 398 mm

Weight : 19.9 kg

S12P

**12" TWO-WAY PASSIVE SPEAKER
FULL-RANGE – 800 W**

Nominal impedance: 8Ω

Program Power : 800 W

Frequency Response (-10dB) : 53 Hz – 19 kHz

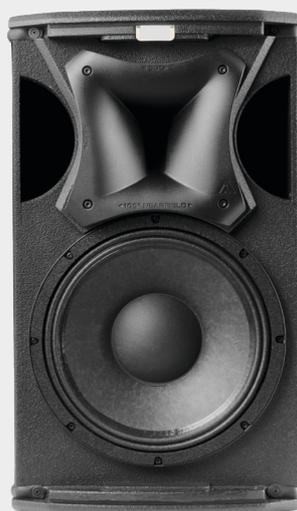
Sensitivity (1W/1m) : 98 dB

Maximum SPL (1m) : 127 dB (musical program)

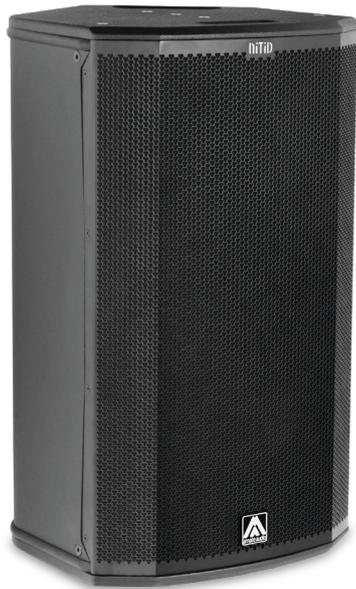
Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 623 x 363 x 398 mm

Weight : 21.7 kg



Point Source / Stage Monitor



S15 Active DSP Self-powered



S15P

**15" TWO-WAY ACTIVE SELF-POWERED
FULL-RANGE – 1000 W**

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 800 W (LF) + 200 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 50 Hz - 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 128 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 733 x 423 x 460 mm

Weight : 23.8 kg

**15" TWO-WAY PASSIVE SPEAKER
FULL-RANGE – 800 W**

Nominal impedance: 8Ω

Program Power : 800 W

Frequency Response (-10dB) : 50 Hz - 19 kHz

Sensitivity (1W/1m) : 99 dB

Maximum SPL (1m) : 128 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 733 x 423 x 460 mm

Weight : 24.8 kg



Stage Monitor / Point Source

NEW PRODUCT



S12SM Active DSP
Self-powered

Control
Touchscreen 

**12" TWO-WAY ACTIVE SELF-POWERED
FULL-RANGE – 1000 W**

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 800 W (LF) + 200 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 58 Hz – 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 128 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 440 x 364 x 623 mm

Weight : 19.6 kg



Three way Full Range Main PA Sidefill/ Drumfill

An integrated three-way system covering the full range of frequencies with a 3200 W total power. Two S318 cabinets allow having a complete system which needs no installation, making it easy to be used either as a main PA or drumfill/sidefill in only a few seconds.

S318 Active DSP Self-powered **Control Touchscreen** 

18" LF + 12" MF + 1.4" HF THREE-WAY ACTIVE SELF-POWERED. FULL-RANGE - 3200 W

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 2400 W (LF) + 800 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 35 Hz – 19 kHz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 133 dB (musical program)

Directivity (-6dB) : 60° (H) x 50° (V)

Dimensions (HxWxD) : 1230 x 520 x 540 mm

Weight : 63 kg



Subwoofer



S12W Active DSP Self-powered Touchscreen

12" ACTIVE SELF-POWERED SUBWOOFER – 1000 W

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 1000 W Class D

Frequency Response (-10dB) : 38 Hz - 130 Hz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 126 dB (musical program)

Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 384 x 520 x 582 mm **Weight :** 26.7 kg

S12WP

12" SUBWOOFER FOR EXTERNAL ACTIVE AMPLIFICATION – 1000 W

Nominal impedance: 8Ω

Program Power : 1000 W

Frequency Response (-10dB) : 38 Hz - 130 Hz (with external DSP)

Sensitivity (1W/1m) : 96 dB

Maximum SPL (1m) : 126 dB (musical program)

Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 384 x 520 x 582 mm **Weight :** 24.9 kg



Subwoofer



S18W Active DSP Self-powered Touchscreen Control

18" ACTIVE SELF-POWERED SUBWOOFER – 2500 W

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 2500 W Class D

Frequency Response (-10dB) : 33 Hz – 140 Hz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 132 dB (musical program)

Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 555 x 740 x 748 mm

Weight : 60 kg

S18WP

18" SUBWOOFER FOR EXTERNAL ACTIVE AMPLIFICATION – 2400 W

Nominal impedance: 8Ω

Program Power : 2400 W

Frequency Response (-10dB) : 33 Hz – 140 Hz (with external DSP)

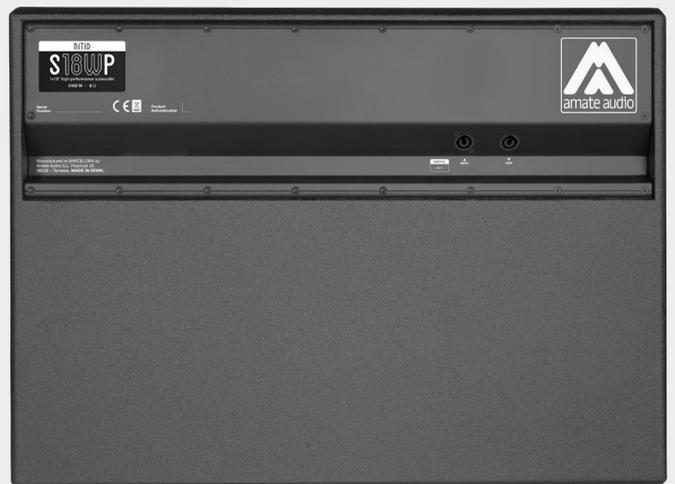
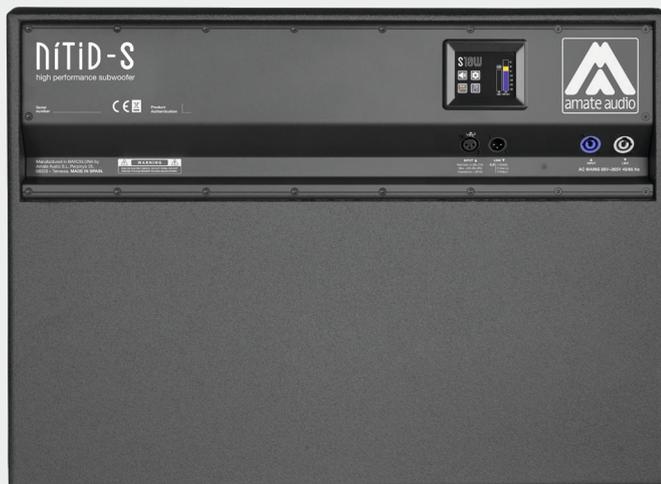
Sensitivity (1W/1m) : 98 dB

Maximum SPL (1m) : 132 dB (musical program)

Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 555 x 740 x 748 mm

Weight : 58 kg



Subwoofer



S218W Active DSP Self-powered Colour Touchscreen

2x 18" ACTIVE SELF-POWERED SUBWOOFER – 2500 W

Colour Touchscreen. 64-bit DSP
Built-in presets, FIR filters

Amplifier Program Power : 2500 W Class D

Frequency Response (-10dB) : 30 Hz – 130 Hz

Built-in DSP : 64-bit processing unit

Maximum SPL (1m) : 137 dB (musical program)

Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 1116 x 750 x 780 mm **Weight :** 110 kg

S218WP

2x 18" SUBWOOFER FOR EXTERNAL ACTIVE AMPLIFICATION – 4800 W

Nominal impedance: 4Ω

Program Power : 4800 W

Frequency Response (-10dB) : 30 Hz – 130 Hz (with external DSP)

Sensitivity (1W/1m) : 102 dB

Maximum SPL (1m) : 139 dB (musical program)

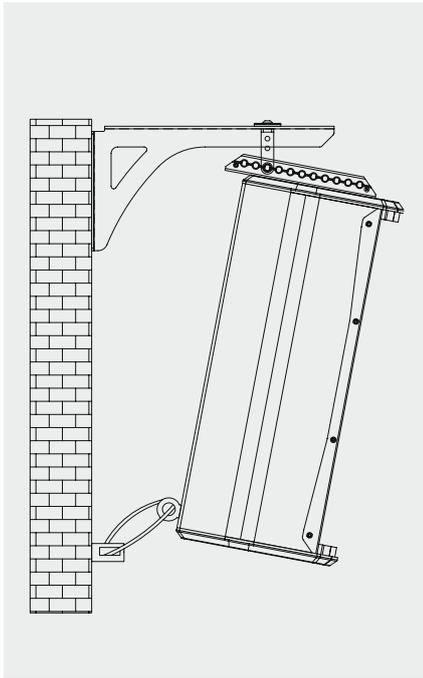
Directivity (-6dB) : Omnidirectional

Dimensions (HxWxD) : 1116 x 750 x 780 mm **Weight :** 111 kg

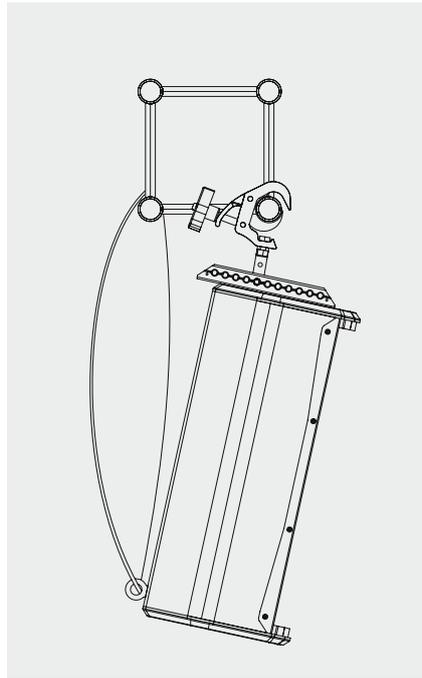


Nítid-S Configurations

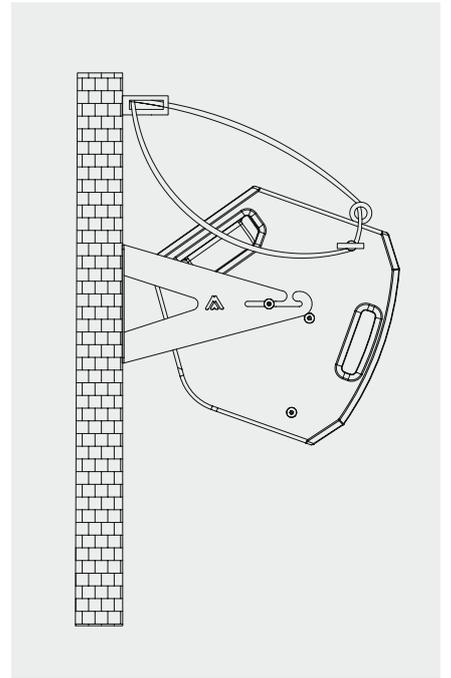
Flying Hardware



S26 + SP-WHR + RB-S

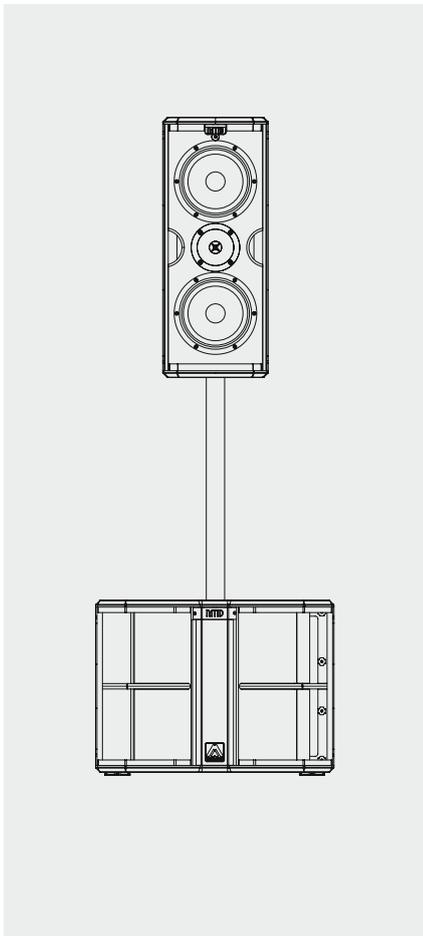


S26 + RB-S/GT

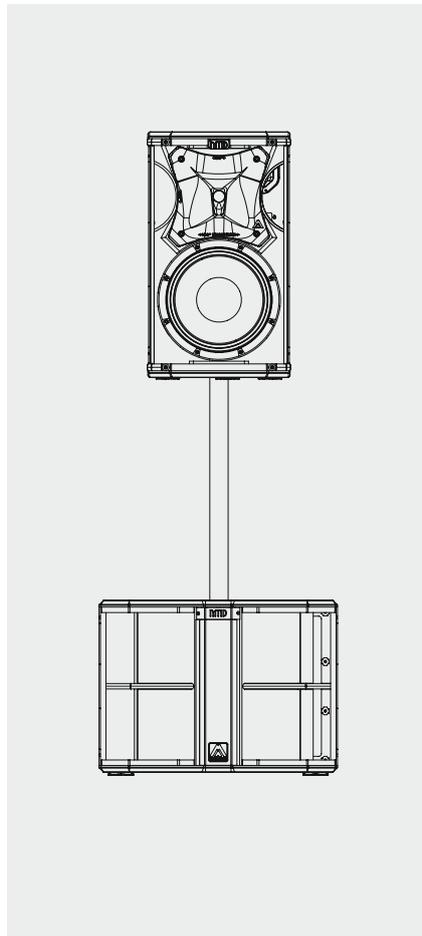


S12 + UBL

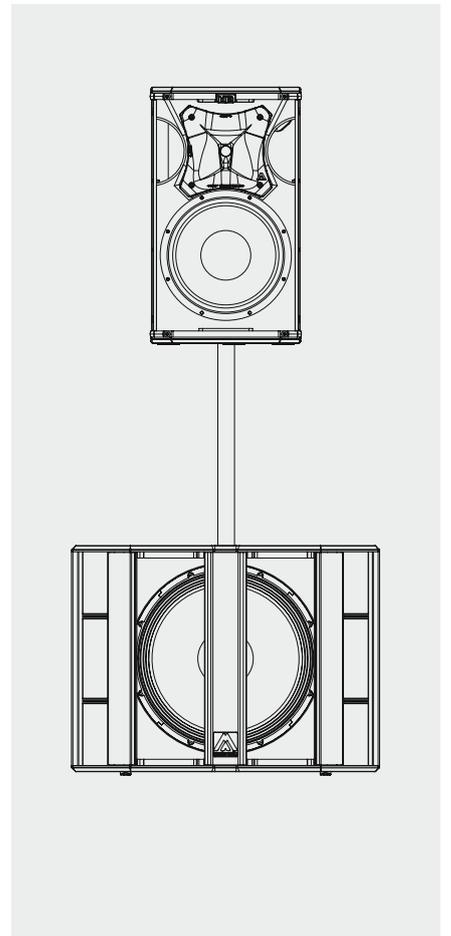
Stacking Hardware



S26 + S12W + SP/CRTL



S10 + S12W + SP/CRTL



S12 + S18W + SP/CRTL

NÍTiD - N

Nítid is the origin that led the way to our new Nítid S series. After years of investigation and product development, the resulting range of active systems became a turning point in acoustic research and sound reproduction.

Nítid's success provided our R&D team with the right tools to keep developing new products that make it a priority to meet Amate Audio's sound quality standards.



Unique design

Distinguishing details include the speaker grille, exclusively designed for an attractive appearance, maximum protection, and the best perforation coefficient, for improved sound quality. The Polyurea® finish offers durable protection for the birch-ply cabinet, and electronic circuits and controls are smartly protected against moisture. A wide range of accessories is provided for whatever your application is.

Control panel

Our digital signal processing (DSP) is integrated with 3rd generation Class D amplification and operated via our dedicated SensitiveTouch™ keypad technology. With no mechanical components or moving parts, the SensitiveTouch™ capacitive sensor keypad is highly responsive, weatherproof and durable compared with conventional electronic controls, in addition to being effectively failsafe.

Amazing performance

The integrated 'plug & play' active power and control system includes DSP presets for easy setup and amazing sound, and the comprehensive control interface includes instantly recallable presets for setting up the Nítid. The accurate match between transducers, DSP and amplifiers provides a fully optimised system for the most demanding applications.

The value of form-function

Nítid series is the culmination of an intensive program of research, development and optimisation, to achieve the greatest possible power and performance from the most compact-sized cabinet. Every aspect of its form factor has resulted from the examination and consideration of optimum acoustic response, ergonomics, construction and appearance.

*With the **SensitiveTouch™** keypad and display, you can configure your Nítid for use on-stage in just a few seconds.*



Point Source / Stage Monitor



N12A6 Active DSP Self-powered

**12" TWO-WAY ACTIVE SELF-POWERED
FULL-RANGE – 600 W**

DSP with SensitiveTouch panel
Built-in presets

Amplifier Program Power : 500 W (LF) + 100 W (HF) Class D Bi-amp

Frequency Response (-10dB) : 52 Hz – 19 kHz

Built-in DSP : 48-bit processing unit

Maximum SPL (1m) : 126 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 623 x 360 x 390 mm

Weight : 20 kg

N12P7

**12" TWO-WAY PASSIVE SPEAKER
FULL-RANGE – 700 W**

Nominal impedance: 8Ω

Program Power : 700 W

Frequency Response (-10dB) : 52 Hz – 19 kHz

Sensitivity (1W/1m) : 98 dB

Maximum SPL (1m) : 127 dB (musical program)

Directivity (-6dB) : 50° to 100° (H) x 55° (V) asymmetrical horn

Dimensions (HxWxD) : 623 x 360 x 390 mm

Weight : 19.2 kg



Line array



Standard configuration
one N208 powers one N208P

N208 Active DSP Self-powered

2x 8" TWO-WAY ACTIVE SELF-POWERED
LINE ARRAY - 1500W

DSP with SensitiveTouch panel
Built-in presets

Amplifier Program Power : 1000 W (LF) + 500 W (HF) Class D Biamp

Frequency Response (-10dB) : 78 Hz - 18 kHz

Built-in DSP : 48-bit processing unit

Maximum SPL (1m) : 129 dB (musical program)

Directivity (-6dB) : 110° (H) x 11° (V)

Dimensions (HxWxD) : 279 x 684 x 522 mm

Weight : 23 kg

N208P

2x 8" TWO-WAY LINE ARRAY MODULE FOR EXTERNAL
ACTIVE BI-AMPLIFICATION - 1200 W
Slave module to N208

Program Power : 1000 W (LF) + 200 W (HF)

Frequency Response (-10dB) : 78 Hz - 2k2Hz (LF) / 1k2Hz - 18kHz (HF)

Sensitivity (1W/1m) : 100 dB (LF) / 108 dB (HF)

Maximum SPL (1m) : 130 dB (LF) / 131 dB (HF) (musical program)

Directivity (-6dB) : 110° (H) x 11° (V)

Dimensions (HxWxD) : 279 x 684 x 522 mm

Weight : 21 kg



Nítid Accessories

Flight Case



FC-S26 for 4 units of S26, S26P

FC-S10 for 2 units of S10, S10P

FC-S12 for 2 units of S12, S12P, N12A6, N12P7

FC-S15 for 2 units of S15, S15P

FC-S12SM for 2 units of S12SM

FC-S12W for 2 units of S12W, S12WP

FC-N208 for 4 units of N208

Trolley



TR-XW118 wooden plate with reinforced wheels for S18W and S18WP

Transport / protection cover



NC-S26 for S26, S26P

NC-S46 for S46, S46P

NC-S10 for S10, S10P

NC-S12 for S12, S12P

NC-S12W for S12W, S12WP

NC-S318 for S318

NC-XW118 for S18W, S18WP

NC-XW218 for S218W, S218WP





M8 rigging eyebolt Stainless steel

ACR-M8 for S6L, S6LP, S26, S26P, S46, S46P, S10, S10P, S12, S12P, N12A6, N12P7, S15, S15P, S318



Safety sling With accessories – Stainless steel

SC-15 for S6L, S6LP, S26, S26P, S46, S46P, S10, S10P, S12, S12P, N12A6, N12P7, S15, S15P



Cable Tester

The ultimate tool for checking the health of your cables.
Supports SpeakON, XLR and RJ45

Cables

PCS-1

XLR + PowerCon male to XLR + PowerCon female – 1 m



PCS-2

XLR + PowerCon male to XLR + PowerCon female – 2 m



MP/QBS Power/signal balanced cable

For active acoustic systems
3x 2 mm² POWER (Mains)
4x 0,22 mm² SIGNAL (high isolation quad balanced) – **100 m reel**



CS-100 Balanced signal cable

2x 0,22 mm² Double shielded for balanced signal – **100 m reel**



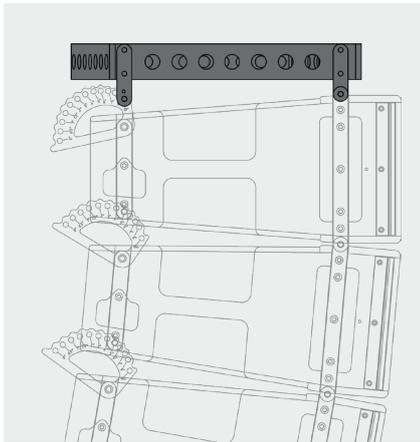
SPC-4B Speaker cable for bi-amplified systems

2x 4 mm² + 2x 2,5 mm² SUPERFLEX – **100 m reel**

Nítid Accessories

Stainless steel

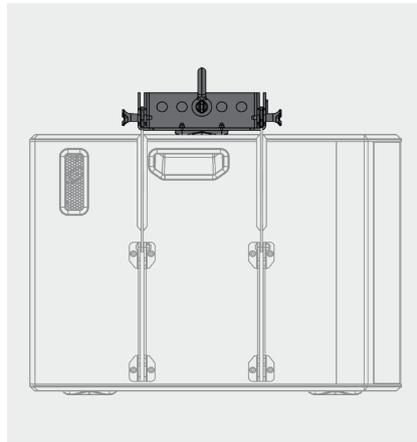
Touring bumper



TA-X208R

for flying N208

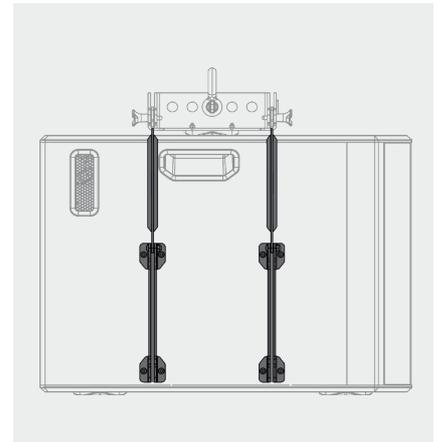
Touring bumper



BRWX

for flying S18W, S18WP

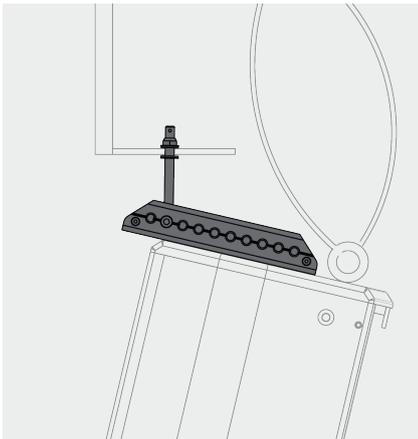
Flying hardware



KRW118

for flying S18W, S18WP

Flying bar



Rigging bar

RB-S

for S6L, S6LP, S26, S26P, S46, S46P, S10, S10P, N12A6, N12P7

RB-L

for S12, S12P, S15, S15P

Flying bar



Rigging bar with 50mm hook

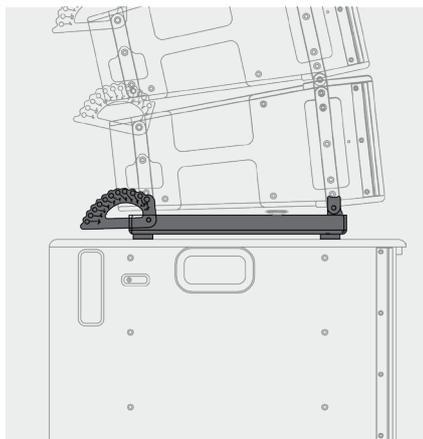
RB-S/GT

for S6L, S6LP, S26, S26P, S46, S46P, S10, S10P, N12A6, N12P7

RB-L/GT

for S12, S12P, S15, S15P

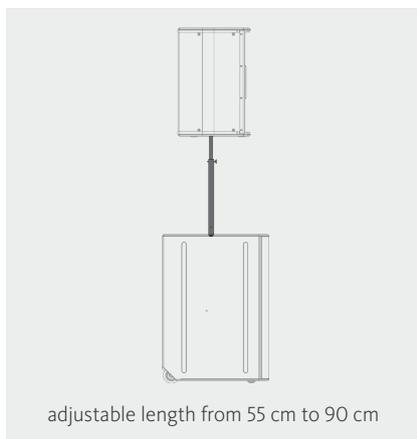
Stacking frame



FR-208R

for N208 over S218W, S218WP, S18W, S18WP

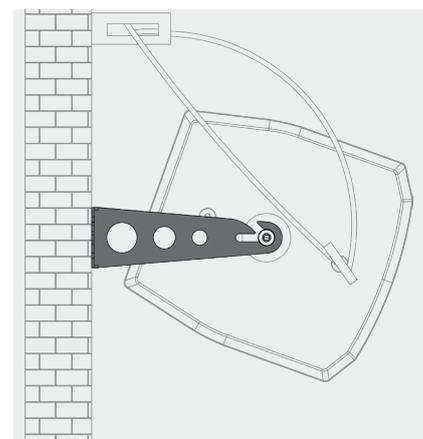
Hardware



SP/CRTL

for all models
 Ø 35 mm - length 55 cm ~ 90 cm - thread M20

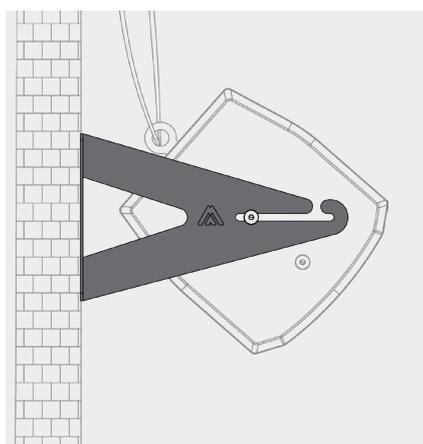
Wall mount bracket



SP-S26

for S26, S26P

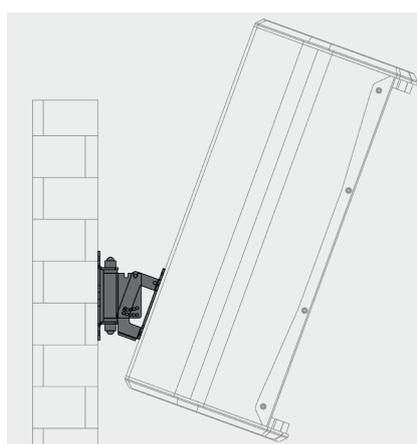
Wall mount bracket



UB-L

for S26, S26P, S10, S10P, S12, S12P, N12A6, N12P7, S15, S15P

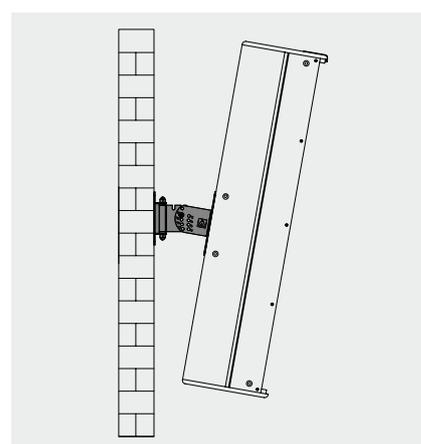
Wall mount bracket



SP-6N

for S6L, S6LP, S26, S26P, G7

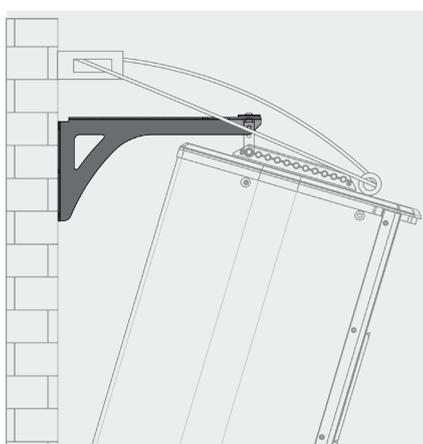
Wall mount bracket



SP-46N

for S46, S46P

Wall mount bracket



SP-WHR

for S6L, S6LP, S26, S26P, S46, S46P, S10, S10P, S12, S12P, N12A6, N12P7, S15, S15P

Multipoint PA Solutions



G7



T-G7

Available in white, black, titanium and anthracite.

Two-way passive full-range speaker system
6.5" woofer with carbon fiber cone
1" titanium diaphragm neodymium tweeter

Nominal impedance: 16 Ω

Program power : 120 W

Sensitivity (1W/1m) : 91 dB

Maximum SPL (1m) : 112dB (musical program)

Directivity : 80° conical

Frequency Response (-10dB) : 60 Hz - 20 kHz

Dimensions (HxWxD) : 296 x 209 x 218 mm

Weight : 3.6 kg

100V Transformer kit for G7

Specifications: 100V Line transformer with selector.
250 Ω (40 W), 500 Ω (20 W), 1000 Ω (10 W), 2000 Ω (5 W) Direct 16 Ω (120 W)



SP-6N **not** included



U-Bracket included



CS7

Two-way passive high performance coaxial ceiling speaker
 6.5" woofer with polypropylene cone and butyl rubber surround
 1" titanium diaphragm neodymium tweeter

Nominal impedance: 16 Ω

Program Power : 60 W

Sensitivity (1W/1m) : 91 dB

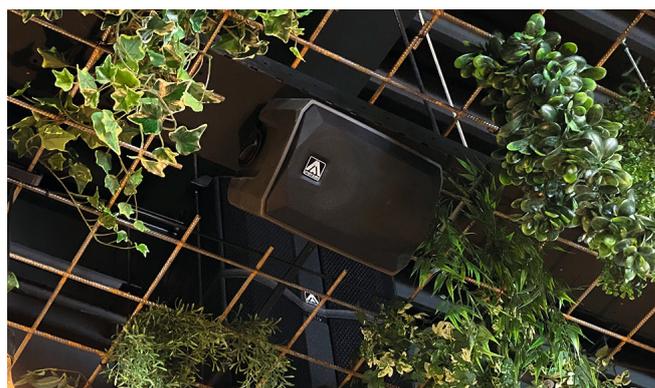
Frequency Response (-10 dB) : 60 Hz - 20 kHz

Dimensions (ØExt / ØInt x D) : 238 mm / 203 mm x 96mm

Weight : 1.4 kg

TF-100

100 V line transformer
 5W-10W-20W-40W



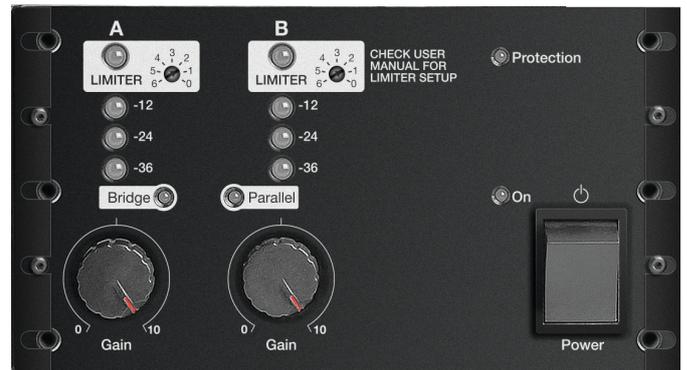
Power Amplifiers

HD series

The HD series consists of three models with a power output ranging from 350 W/8 Ω per channel, to 4000 W/4 Ω (bridged), all in a 19"/2U format, ideal for long-term fixed installations.

HD Series technology combines Class AB for HD1200, with Class H for the more powerful units HD3200 & HD4000. All models are based on our proven High Dynamic Power technology, which means higher dynamic headroom for an outstanding hearing experience.

They incorporate the soft-start circuit with gradual volume increase, clip limiters and special protection features such as temperature control, overcurrent, DC output and short circuit on the outputs.



Detachable front panel gives access to a limiter threshold adjust.

HD1200	2x 600 W/4 Ω - 2x 350 W / 8 Ω – 15 kg
HD3200	2x 1750 W/4 Ω - 2x 1000 W / 8 Ω – 21 kg
HD4000	2x 1200 W/4 Ω - 4000 W / 4 Ω BRIDGE – 21 kg



Rear view HD4000

High dynamic Class H amplifiers · Linear power supply · High reliability, best for installation · 2 U 19" rack. Soft Start · Balanced XLR inputs · Speakon and binding post outputs · Clip-Limiter · Bridge mode/Parallel switch 2 Ω stable · Forced cooling · Protections: DC, Short Circuit, Temperature, Breaker.

TPD3K 2.1 AMPLIFIER • 64-bit DSP

The original TP concept (which stands for **TriPhonic**), a **3-channel processing amplifier** was first released back in 1988 by Amate Audio. Its unique 3-in-1 topology allowed making subwoofer plus satellite installations for small and medium-sized clubs very easy to set up and use, giving exceptional results only comparable with much more complex and expensive systems. One single device united one stereo amplifier for satellites, another channel for subwoofer and the active signal processing to drive the speaker systems. TPD... a step ahead!

TPD3K 2000W (SUB) + 750+750W (L - R)

Sensitivity: 1.5 V **Input Impedance :** 20 kΩ

Output Power L & R : 400 + 400 W @ 8 Ω / 750 + 750 W @ 4 Ω **Subwoofer :** 1500 W @ 8 Ω / 2000 W @ 4 Ω

Frequency Response L & R (adjustable DSP) : 70 Hz - 20 kHz (-3 dB) **Subwoofer :** 30 Hz - 200 Hz (-3 dB)

Dimensions (HxWxD) : 88 x 482 x 370 mm (2U Rack 19") **Weight :** 9 kg

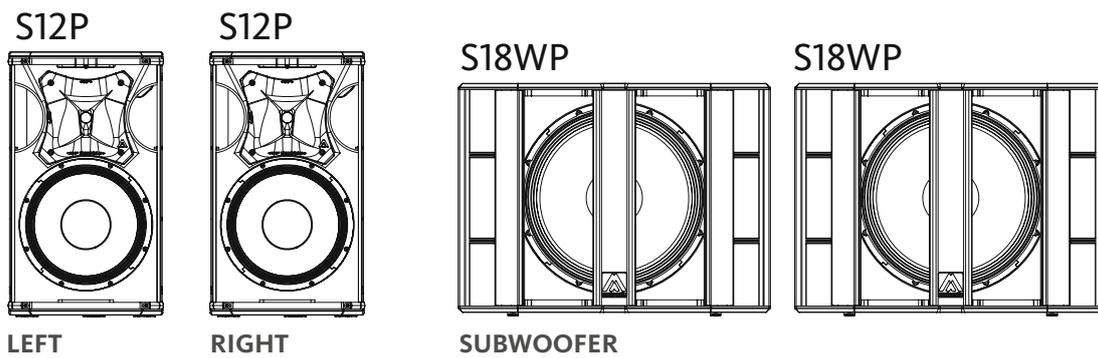


Front view TPD3K



Rear view TPD3K

Typical Installation



Signal Processing

LMS206

Digital loudspeaker management systems

Fully configurable by its front panel keypad/ LCD screen or by PC (Windows / MacOS).

For each input/output: 10 parametrical EQ, 2 seconds delay, limiter, crossover and polarity control. 64-bits architecture.



LMS206

Inputs : 2 (XLR)

Outputs : 6 (XLR)

Input Dynamic Range : 110 dB

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

A/D Converters : 24-bit, 48 kHz

Dimensions (HxWxD) : 1U 19" Rack 44 x 483 x 165 mm **Weight :** 2.3 kg



Rear view

LMS608



LMS608

Ethernet control

Inputs : 4 (XLR) + 2 AES/EBU (1x XLR)

Outputs : 8 (XLR)

Input Dynamic Range : > 116 dB(A)

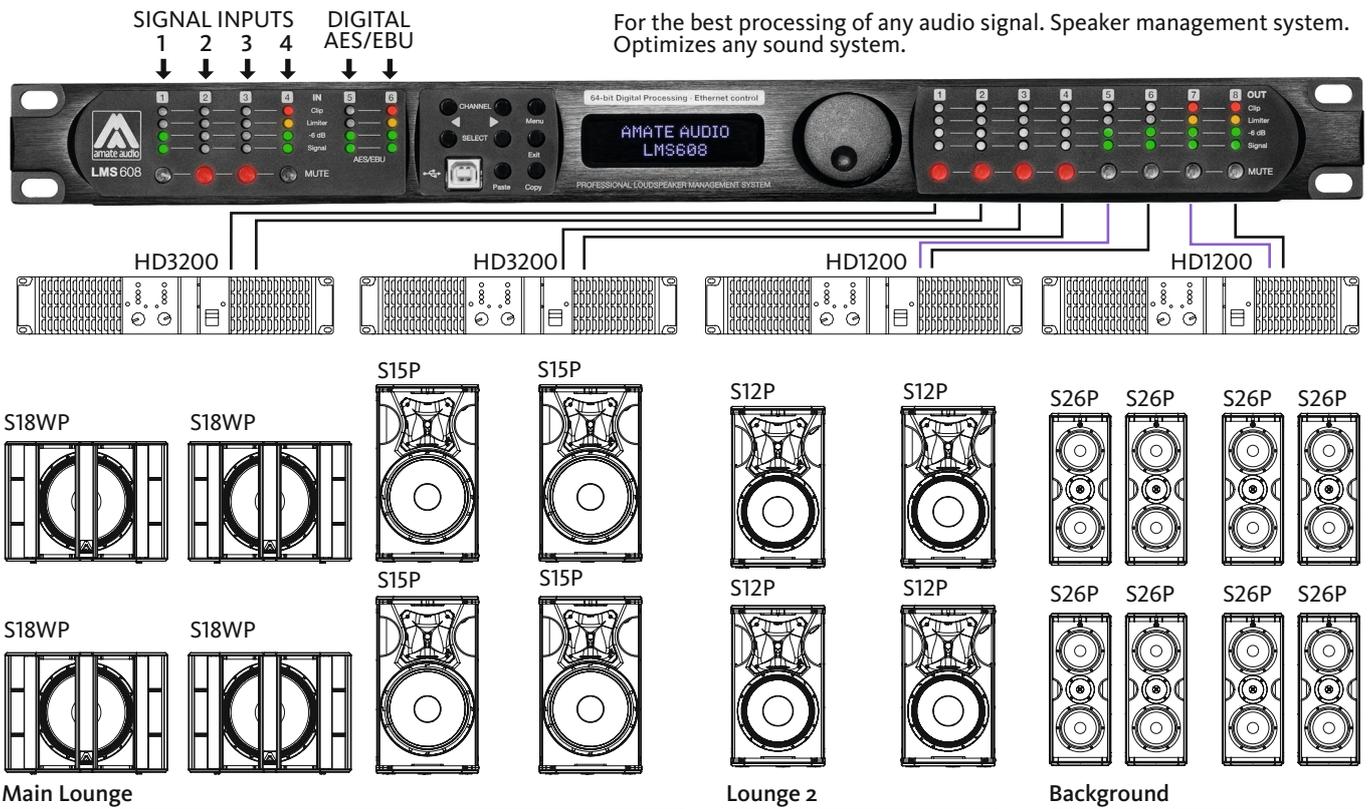
Frequency Response : 20 Hz - 20 kHz (+/- 0.5 dB)

A/D Converters : 24-bit, 96 kHz

Dimensions (HxWxD) : 1U 19" Rack, 44 x 483 x 165 mm **Weight :** 2.5 kg

Typical Installation

For the best processing of any audio signal. Speaker management system. Optimizes any sound system.





We are growing, we are expanding

Amate Audio is an international company recognised around the world. Nowadays, more than 90% of the products manufactured at our factory in Terrassa, Barcelona, are sent abroad.

From the vibrant nightlife of Mediterranean dance clubs to the echoing calls from mosques in Indonesia, Amate Audio's sound systems resonate around the world. Our technology enhances experiences in clubs, festivals, theatres, and auditoriums globally, including stadiums across the Netherlands, Spain, France, or Turkey. We have equipped vast churches in South Korea and brought to life two of the world's largest synchronized music fountains in Barcelona's Montjuic and Goyang, South Korea. Our reach extends to amusement parks in Germany, educational institutions in Latin America, as well as numerous other commercial, hospitality and enterprise environments. Our ambition is boundless, our scope limitless.

More than 90% of the products manufactured at our factory are sent abroad

Special mention must also be made of the many rental companies who operate their businesses based on the trust they place in Amate Audio products.

We love what we do... Just like you!

**You who work, sing,
perform, listen and
– above all – enjoy**



Amate Audio crew

Vision

To make high quality sound reinforcement accessible to audio professionals worldwide, setting a new standard in audio excellence and ensuring that superior sound experiences become a universal reality.

Mission

To create high performance, price competitive professional sound solutions, through advanced design and smart technology, delivering an exceptional user experience.

Product Overview

January 2024



5101
YEARS
BARCELONA
1972-2022

Amate Audio S.L.

Main Office

Perpinyà, 25
Polígon Industrial Nord
08226 - Terrassa
Barcelona - SPAIN

R&D and Factory

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Due to our continuous research and development, pictures and product specifications are subject to change without prior notice.

www.amateaudio.com