SW212A

Dual 12" (305mm), High Output, Powered, CORE Processed, Bandpass Subwoofer

KEY FEATURES

- Band-Pass/Bass-Reflex Active Subwoofer
- Two 12" Neodymium woofers with 3.5" voice coil
- Water repellent cone
- Very compact enclosure
- Very good output-to-weight ratio
- 2800 Watt Class D amplifier with PFC Switch Mode Power Supply
- 40 bit floating point CORE processing
- Optimized presets for use in combination with AX16/8CL line array modules
- Fully networkable with PRONET AX remote control software
- 18mm birch plywood enclosure

APPLICATIONS

- Live sound reinforcement
- Theatre
- Corporate & A/V
- Live music venues
- House of Worship
- Leisure and Fitness
- Nightclubs and Bars

TECHNICAL SPECIFICATIONS

SYSTEM	
System's Acoustic Principle	Band-pass / bass-reflex
Frequency Response (-6dB)	38 Hz - 220 Hz (Processed)
Maximum (peak) SPL	133dB SPL @ 1m
TRANSDUCERS	
Type	Two 12" Neodymium magnet woofer, 3.5" (88mm) VC
Cone	High stiffness, water repellent
Voice Coil Type	Aluminium with ventilated gap
Suspension	Triple-roll
ELECTRICAL	
Input Impedance	20 kΩ balanced, 10 kΩ unbalanced
Input Sensitivity	+4dBu / 1.25 V
Signal Processing	CORE2 processing, 40bit floating point SHARC DSP, 24 bit AD/DA converters
Direct access Controls	4 Presets (2 x AX16CL / 4 x AX16CL / 1 x AX16CL / User), Network Termination, GND Link
Remote Controls	PRONET AX control software
Network protocol	CANBUS
Amplifier Type	Class D with SMPS and PFC
Output Power	1400W + 1400W (Out1: SW212A - Out2: AX16/8CL or other AXIOM loudspeakers)
Mains Voltage Range (Vac)	100 - 240 V AC 50/60 Hz
IN / OUT Connectors	Neutrik XLR-M / XLR-F
IN / OUT Network Connectors	ETHERCON®(NE8FAV)
Mains Connector	PowerCon® TRUE 1 (NAC3PXTOP)
Cooling	Variable speed DC fan
ENCLOSURE & CONSTRUCTION	
Dimensions (W x H x D)	710 mm (27.9") x 354 mm (13.9") x 700 mm (27.6")
Enclosure Material	18mm, reinforced phenolic birch
Enclosure Finish	High resistance, water based paint
Transport	4 handles
Net Weight	43.5 Kg (95.9 lbs)

SW212A

Dual 12" (305mm), High Output, Powered, CORE Processed, Bandpass Subwoofer

DESCRIPTION

The SW212A is a very compact Band-Pass/Bass-Reflex subwoofer providing high output and extended low frequency response.

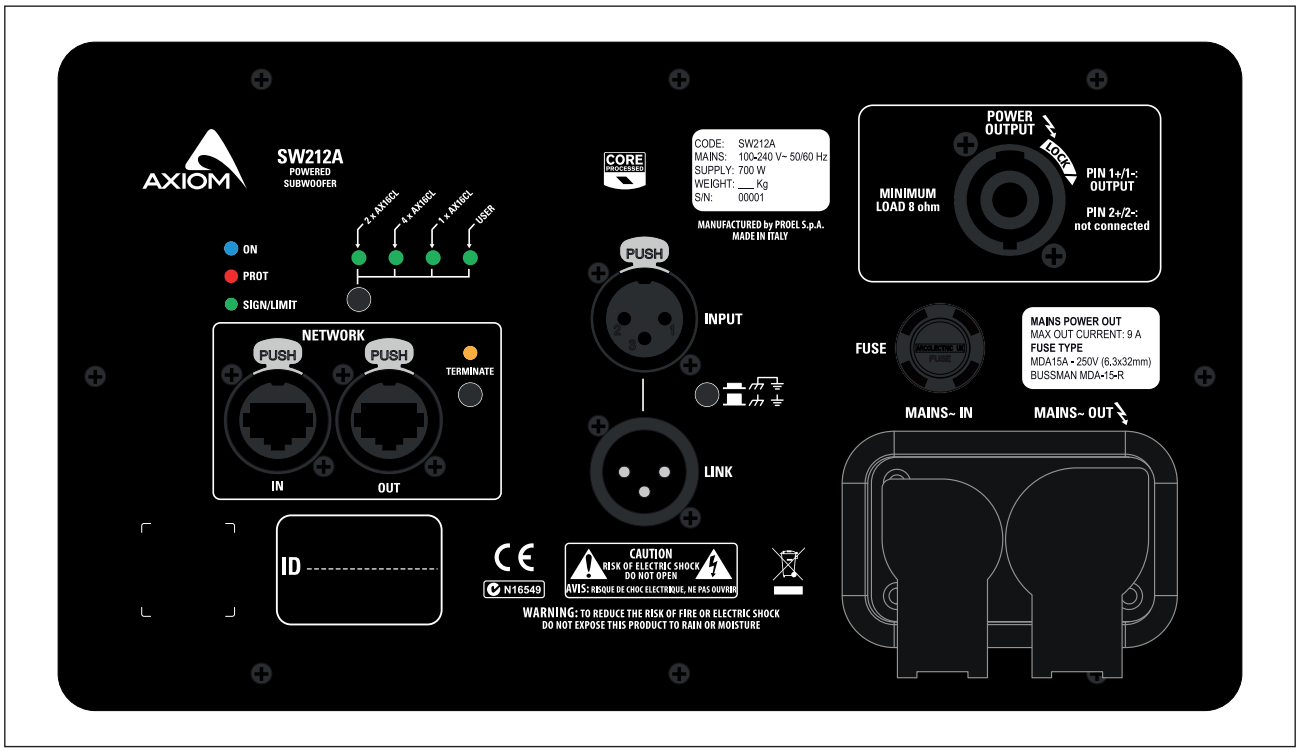
It is equipped with a two 12" neodymium transducers with a 3.5" aluminium voice coil, large displacement suspension system, and water repellent cone, able to provide clean and undistorted LF reproduction at very high SPL .

The system processing is based on the CORE2 DSP platform designed by the PROEL R&D Laboratories using one of the most advanced SHARC DSP for audio applications. It features 40bit floating point resolution and top-quality 24bit AD/DA converters, for a perfect signal integrity, dynamic range in excess of 110dB, and superior sonic performance. Thanks to its massive processing power, the CORE2 platform is capable of providing the most sophisticated algorithms for speaker processing, together with remote control and networking capability.

The PRONET AX control software, working on a solid and reliable CANBUS based network protocol, provides an intuitive interface for the remote control of the whole system, with the possibility of EQing, delaying, managing the protection functions, and monitoring the status of the amplifier.

The SW212A is powered by a new generation of CLASS D power amplifier with digitally-controlled SMPS. The innovative technology used for these amplifiers offers performance at the top of the range, such as superior sound definition at any audio frequency, very high dynamics for low level signals, and very low distortion even at maximum power. The amplifier's superior sound quality can be compared with top-of-the-range AB-class analog systems, while it features higher dynamic range, very compact size, light weight, and efficiency above 90%.

The amplifier module employed in the SW212A features also PFC (Power Factor Correction), a technology able to guarantee always the highest level of power regardless of any eventual fluctuations of the power supply, and to reduce power consumption (less than 0.9W in standby) while enhancing reliability and consistency in all operating conditions. It delivers in an ultra-compact package 1400W from each of its two channels: one channel is used to drive the two 12" woofers, the other, through an output SPEAKON connector, can power AX16/8CL line array modules or other AXIOM speakers.



SW212A

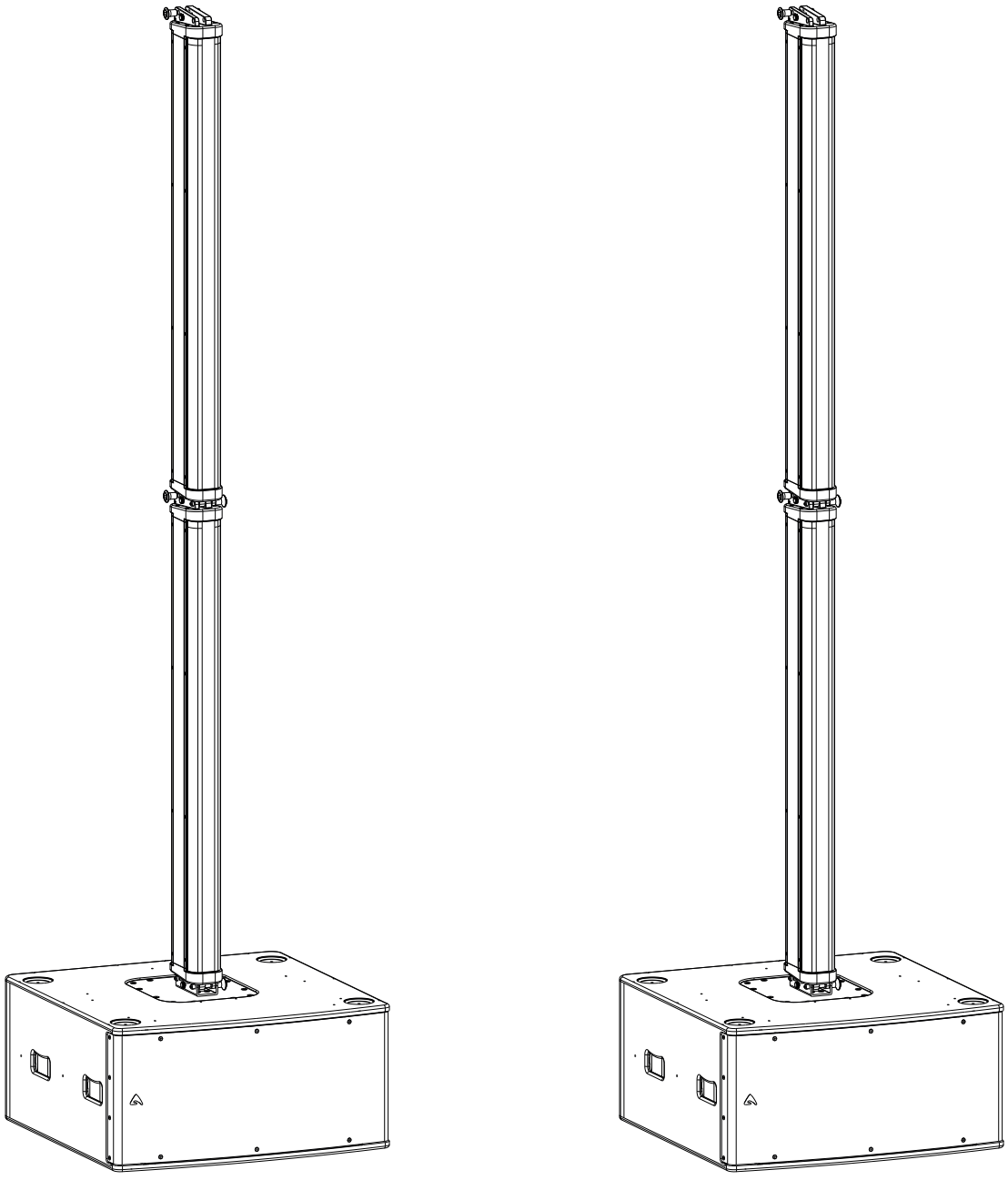
Dual 12" (305mm), High Output, Powered, CORE Processed, Bandpass Subwoofer

THE SYSTEM

The SW212A has been mainly designed to provide the optimal low frequency extension to the AX16/8CL line array modules. The built-in power module can provide 1400W to power up to four AX16CL line array modules connected to the output SPEAKON. The built-in CORE DSP provides 4 presets for different combinations: 2, 4 or 1 columns plus 1 user preset (additional presets for processing other AXIOM speakers are also available).

The SW212A features on the top panel a special metal plate and it comes with a dedicated bracket for fast coupling with the AX16/8CL's rigging hardware. Using this simple system, up to two AX16CL or four AX8CL modules can be easily installed on an SW212A.

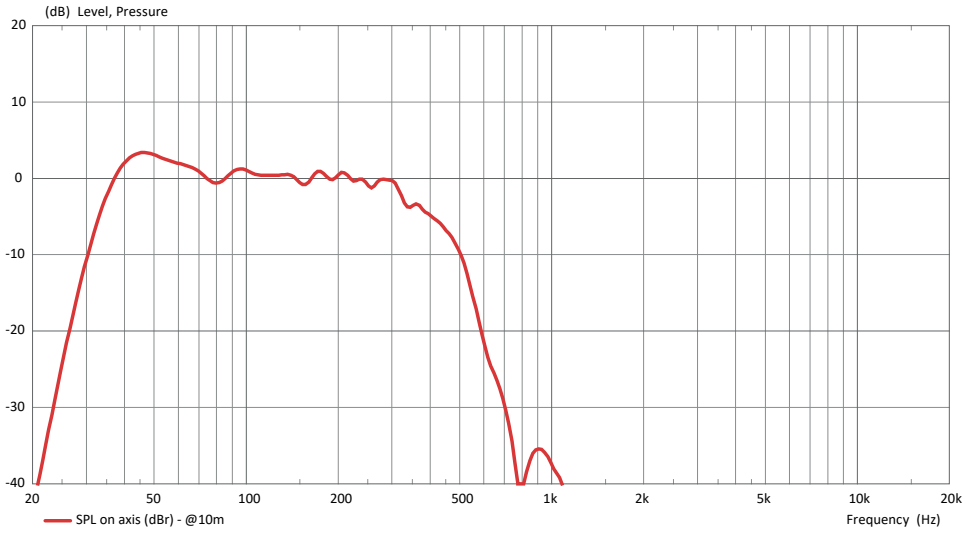
The standard system, composed of four AX16CL line array modules and two SW212A subwoofers, features 5600W of total power and a line-array dispersion pattern, making it the perfect solution for high-performance portable sound reinforcement applications.



SW212A

Dual 12" (305mm), High Output, Powered, CORE Processed, Bandpass Subwoofer

SW212A frequency response



ENGINEERING DRAWING