

XA209

2 × 8" TWO-WAY SELF-POWERED
LINE ARRAY SPEAKER SYSTEM

XCELLENCE



Dante™

Act+ve

A new milestone in compact line array design, the XA209 is engineered with the latest acoustic technologies from the XCELLENCE series, delivering signature clarity, definition and control in a streamlined enclosure. Precision-crafted for impactful sound in any environment.

KEY FEATURES

TRANSDUCER TECHNOLOGY

Two-way full-range active line array speaker system composed by two direct radiating 2-inch long excursion dual voice coil, neodymium magnet 8" loudspeakers and two 1.7-inch voice coil, HT polymer diaphragm, neodymium magnet compression drivers coupled to a 95° x 10° exclusive high performance waveguide.

AMPLIFICATION

Onboard 3000 W 3rd generation Class D amplification.

Universal switch mode power supply (SMPS) with Power Factor Correction (PFC), allowing constant power delivery from 85 to 265 VAC input and high efficiency (>90%), with extremely compact lightweight form factor.

Exclusive and unique Overvoltage Protection which continuously monitors line voltage and instantly disconnects the system if the line voltage exceeds the maximum permissible level.

Automatic EcoMode low power consumption mode when no signal input present.

Connectors mounted on an inclined, recessed moulded connector plate for improved security and environmental protection.

Double PowerCon® connectors (input & link).

ADVANCED DSP SYSTEM CONTROL

Onboard 64-bit precision DSP loudspeaker system control manages amplifier gain and cross-over settings, peak and thermal limiters and mutes. Includes adjustable 294 ms / 100 m delay line for extensive alignment delay and 5-band fully configurable parametric EQ.

High-order FIR filtering ensures fully phase coherent PEQ adjustment and absolute phase alignment of common cabinet couplings.

Extensively R&D'd factory presets provide instantaneous system configuration for common applications.

Operation and monitoring of system parameters, presets and user-adjustments is via Amate Audio's unique rear-panel 3.5" TFT colour touchscreen GUI.

Automatic input overload prevention circuit: prevents overloading the A/D converter input.

Double Ethernet connection with integrated Ethernet switch and Dante™ audio networking protocol that uses standard IP networks to receive high-quality, uncompressed audio with near-zero latency.

New DSPStudio® control software capable of adjusting and setting-up even the finest details and monitoring key parameters of the amplifier: input and output levels, limiter engagement, amplifier temperature and status, and network connection status.

DESIGN & ACCESSORIES

Recessed ergonomic carry handles.

Exclusive 1.5mm grey micro-foam cloth speaker grilles with optimum perforation gradient and aesthetic appearance.

Multilayer birch plywood cabinet with Polyurea® coating, providing maximum robustness and strength for touring, events production, venue installation and other highly demanding applications.

Several accessories allow easy flying and stacking.

Integrated stainless-steel rigging system.

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DSP STUDIO CONTROL
APP FOR WINDOWS AND
MAC



LIGHT NEODYMIUM
COMPONENTS



EXCLUSIVE HIGH
PERFORMANCE
WAVEGUIDE



> 250 V
OVERVOLTAGE
PROTECTION



INTEGRATED POWER &
CONTROL WITH MULTIPLE
PRESETS



REAR PANEL
TOUCHSCREEN GUI
OPERATION



HIGH RESISTANCE
POLYUREA® FINISH



EASY INSTALLATION
ACCESSORIES

TECHNICAL FEATURES

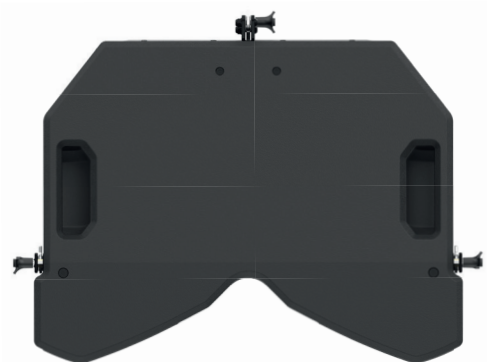
Amplifier (program power)	2500 W (LF) + 500 W (HF) Class D Bi-amplified
Analog input	Nominal: +8 dBu. Max: +20dBu. Impedance: 20 kΩ Balanced
Audio networking	Dante™ audio networking input, 1 channel, 48kHz
Mains	Universal Switch Mode Power Supply 85-265 V / 45-65 Hz
Average current draw	3.3 A (Heavy duty musical program)
SPL (1m)	135 dB musical program, 138 dB peak
Built-in DSP	64-bit processing unit. Includes factory presets
AD/DA converters	24 bit – 48 kHz
Standby mode consumption	8 W @230VAC
Adjustable delay line	294 ms / 100 m
Crossover frequency	1k Hz
Frequency Response (-10dB)	70 Hz – 18 kHz
Components	LF-MF 2 × 8" neodymium woofers (2" long excursion dual voice coil) HF 2 × 1.7" HT polymer diaphragm, neodymium magnet compression drivers
Directivity (-6dB)	95° (H) × 10° (V)
Directivity factor (Q)	50
Directivity index (DI)	17 dB
Weight	26.7 Kg (XA209) / 24 Kg (XA209P)
Dimensions (HxWxD)	245 × 680 × 550 mm (pins not included)
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating
Grille	1.5 mm powder coated steel with grey micro-foam cloth
Rigging	Stainless-steel black painted integrated rigging bars
Connectors	1x XLR input / 1x XLR link / 1x AC PowerCon® input / 1x AC PowerCon® link / 1 x EtherCon® RJ45 input / 1 x EtherCon® RJ45 link



SIDE VIEW



FRONTAL VIEW WITHOUT GRILLE



TOP VIEW



REAR VIEW

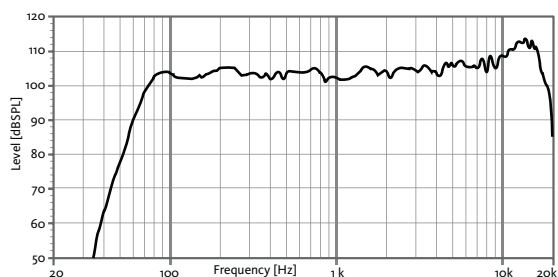
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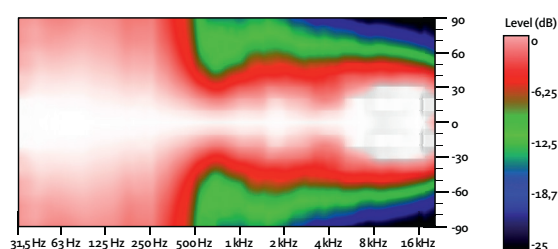
XCELLENCE



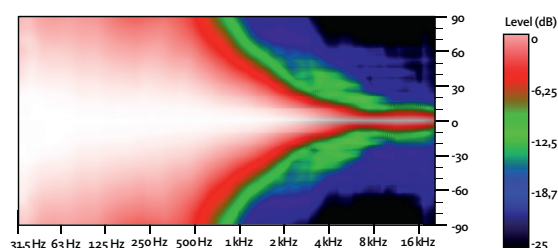
FREQUENCY RESPONSE 1w/1m (FLAT PRESET)



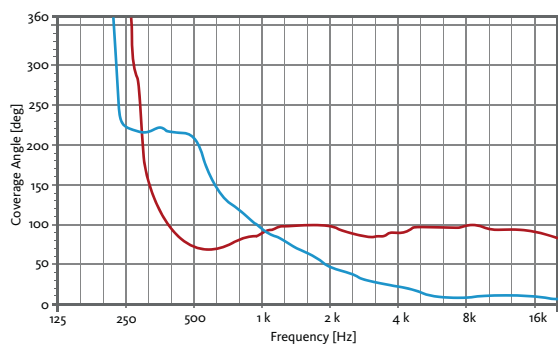
HORIZONTAL COVERAGE



VERTICAL COVERAGE

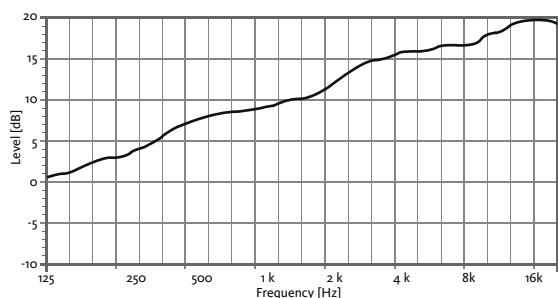


HORIZONTAL & VERTICAL BEAMWIDTH (-6dB point)



HORIZONTAL VERTICAL

DIRECTIVITY INDEX (DI)



XA209 SET

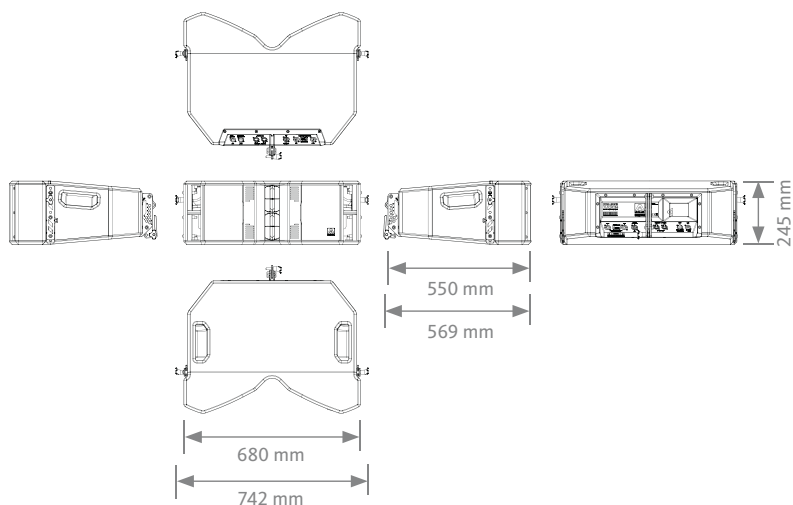
1 × XA209 (active)
1 × XA209P (passive)

XA209 ACTIVE MODEL



XA209P PASSIVE MODEL

CAD DRAWING SCHEME



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ACCESSORIES

FLIGHT CASE FC-XA209

For six units of XA209 + BRAX bumper



STACKING FRAME STAX

For XA209 over XW118/XW218



TOURING BUMPER BRAX

For flying XA209



DSP STUDIO 4 CONTROL SOFTWARE

The 4th generation of the DSPStudio software allows the remote control and monitoring of the device via Ethernet. Ready for both Windows and MacOS, and also touchscreen friendly, the software allows the control of several devices associated in arrays and groups. An offline mode is also available, so you can create your project without the need of a live connection with the devices.

Three different views are available:

- **Config Page:** add your devices in the desktop, assign names and organise them in arrays, groups and views.
- **Tuning Page:** ready to use when tuning the system. Assign individual or global gain, PEQ or delays to the devices, groups or arrays
- **Live Page:** Monitor constantly the status of the system. Limiters, temperature and mains voltage



Download it from our website: www.amateaudio.com