

XW215 2500 W 2 × 15" SELF-POWERED SUBWOOFER

XCELLENCE



Dante®
Act+ve

The XW215 redefines high-performance subwoofers, delivering high-output, controlled low-frequency performance in a format that a single operator can handle with ease. Purpose-built, highly versatile subwoofer solution for applications where portability and performance must coexist.

KEY FEATURES

TRANSDUCER TECHNOLOGY

Active subwoofer comprising two direct radiating 4-inch voice coil, neodymium magnet, 15" loudspeakers front loaded in a bass-reflex tuned enclosure with laminar ports.

AMPLIFICATION

Onboard 2500 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, including cardioid presets. A default preset perfectly phase aligns the subwoofer with any of the X-series active two-way systems.

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 and wheels for easy handling.

Exclusive 2mm 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.

M20 plate socket provided at the top side for 2-way enclosure coupling.

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DSP STUDIO CONTROL
APP FOR WINDOWS AND
MAC



LIGHT NEODYMIUM
COMPONENTS



> 250 V
OVERVOLTAGE
PROTECTION



INTEGRATED POWER &
CONTROL WITH MULTIPLE
PRESETS



INTEGRATED
CARDIOID
PRESETS



REAR PANEL
TOUCHSCREEN GUI
OPERATION



HIGH RESISTANCE
POLYUREA® FINISH



EASY INSTALLATION
ACCESSORIES

TECHNICAL FEATURES

Amplifier (program power)	2500 W Class D
Analog input	Nominal: +2 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	4.5 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	8.3 W @ 230VAC
Adjustable delay line	294 ms / 100 m
Crossover frequency	80 Hz / 90 Hz / 100 Hz
Frequency Response (-10dB)	32 Hz – 140 Hz (LPF100)
Components (LF)	2 × 15" neodymium woofers (4" voice coil)
Directivity (-6dB)	Omnidirectional
Directivity factor (Q)	1
Directivity index (DI)	0 dB
Weight	65 Kg
Dimensions (HxWxD)	1038 × 630 × 620 mm
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating
Grille	2 mm powder coated steel with grey micro-foam cloth
Rigging	No
Connectors	1x XLR input / 1x XLR link / 1x AC PowerCon® input / 1x AC PowerCon® link / 1x EtherCon® RJ45 input / 1x EtherCon® RJ45 link



TOP VIEW



BOTTOM VIEW



CONNECTION PANEL VIEW



FRONTAL VIEW WITHOUT GRILLE



SIDE VIEW

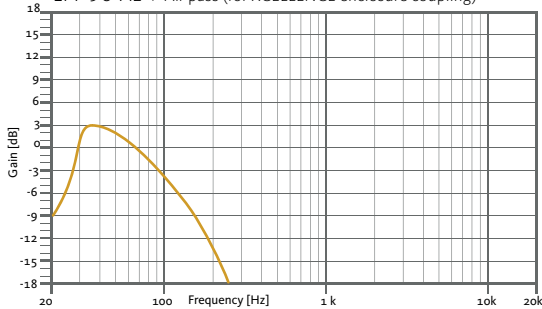


REAR VIEW

BUILT-IN PRESETS

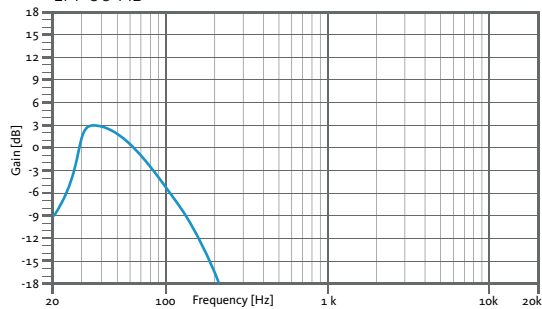
X-ALIGNED

LPF 90 Hz + All-pass (for XCELLENCE enclosure coupling)



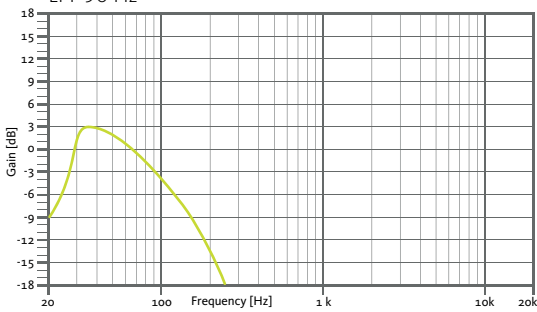
LPF80

LPF 80 Hz



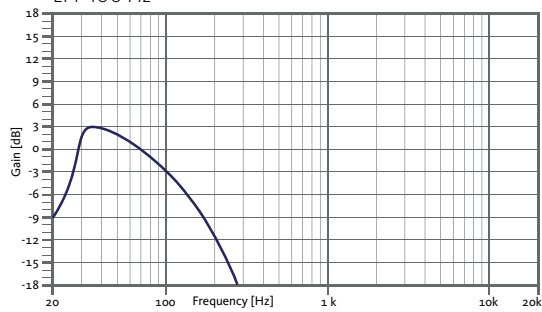
LPF90

LPF 90 Hz

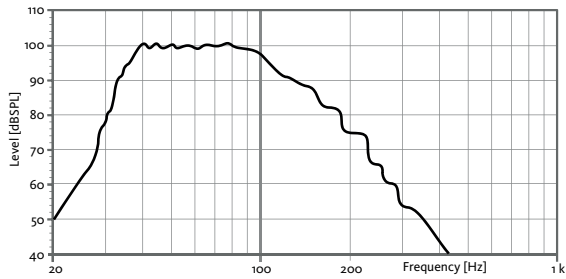


LPF100

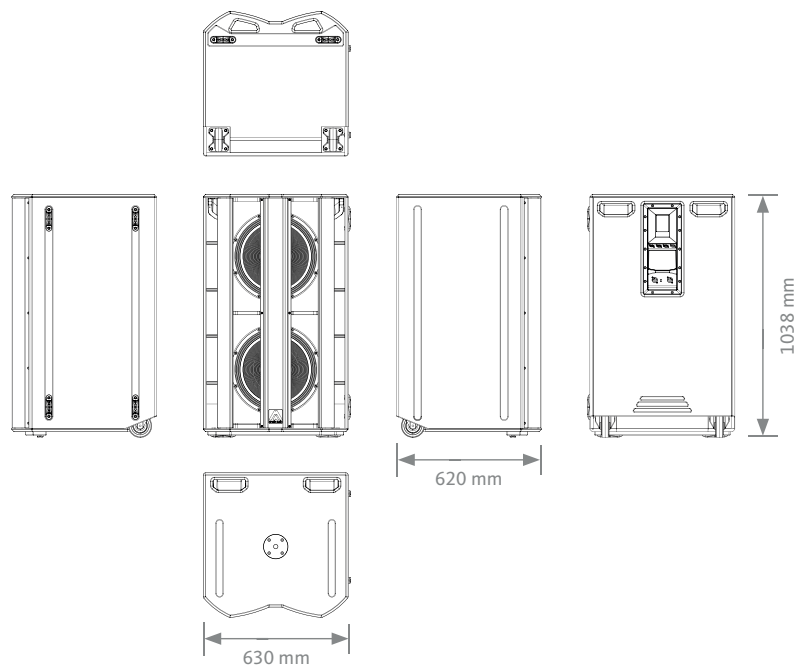
LPF 100 Hz



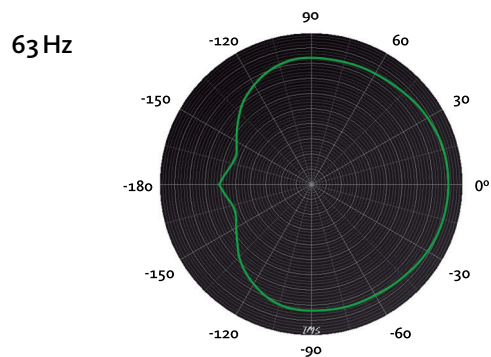
FREQUENCY RESPONSE 1W/1m (LPF100 PRESET)



CAD DRAWING SCHEME



EASY CARDIOID CONFIGURATION THROUGH DEDICATED PRESETS



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ACCESSORIES

STACKING FRAME STAX
For XA209/XA211 over XW215



DISTANCE ROD M20
SP-CRTL
Ø: 35 mm
Length: 55 cm ~ 90 cm
Thread: M20



PROTECTION COVER
NC-XW215

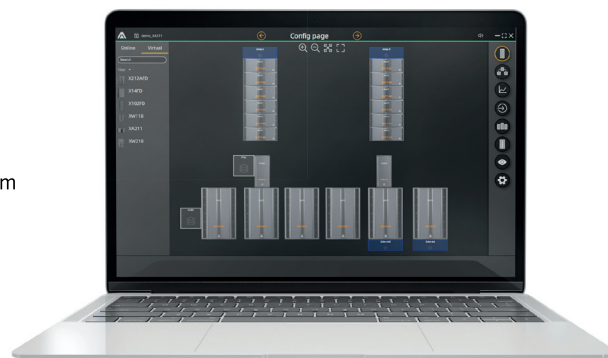


DSP STUDIO 4 CONTROL SOFTWARE

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