



The combination of two 18-inch woofers with 4-inch long excursion voice coil in a carefully designed laminar ports cabinet, 5000 W amplification, in-built DSP with F.I.R filters and Dante networking makes the XW218 one of the most advanced, powerful and easy-to-handle subwoofers. The right choice for high demanding applications.

KEY FEATURES

TRANSDUCER TECHNOLOGY

Active subwoofer comprising two direct radiating 4-inch voice coil, neodymium magnet, 18" loudspeakers front loaded in a bass-reflex tuned enclosure with laminar ports.

AMPLIFICATION

Onboard 5000 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.

M10 thread at the lateral side for X212AFD stacking.

XW218 5000 W 2x 18" SELF-POWERED SUBWOOFER

XCELLENCE



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 RIGGING & INSTALLATION ACCESSORIES

TECHNICAL FEATURES

Amplifier (program power)	5000 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	9.4 A (Heavy duty musical program)
SPL (1m)	141 dB musical program, 144 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	60Hz / 80 Hz / 90 Hz / 100 Hz
Frequency Response (-10dB)	25 Hz – 130 Hz (LPF100)
Components (LF)	2x 18" neodymium woofers (4" voice coil)
Directivity (-6dB)	Omnidirectional
Directivity factor (Q)	1
Directivity index (DI)	0 dB
Weight	106 Kg
Dimensions (HxWxD)	1116 x 750 x 780 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

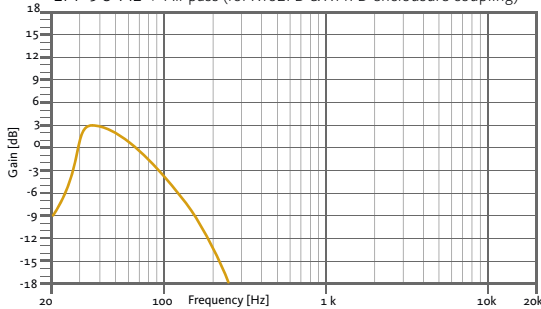


REAR VIEW

BUILT-IN PRESETS

X-ALIGNED

LPF 90 Hz + All-pass (for X102FD & X14FD enclosure coupling)



LPF80

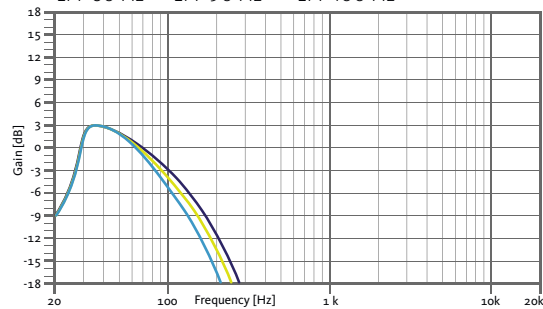
LPF 80 Hz

LPF90

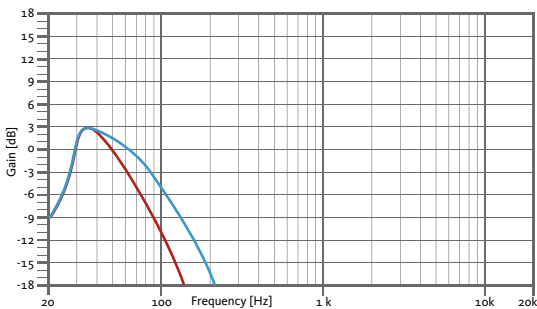
LPF 90 Hz

LPF100

LPF 100 Hz



With X212AF



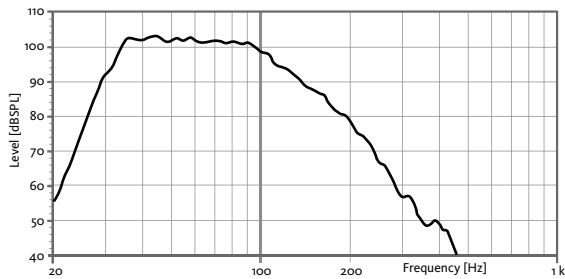
LPF60 X212AFD

LPF 60 Hz + All-pass (for X212AFD enclosure coupling)

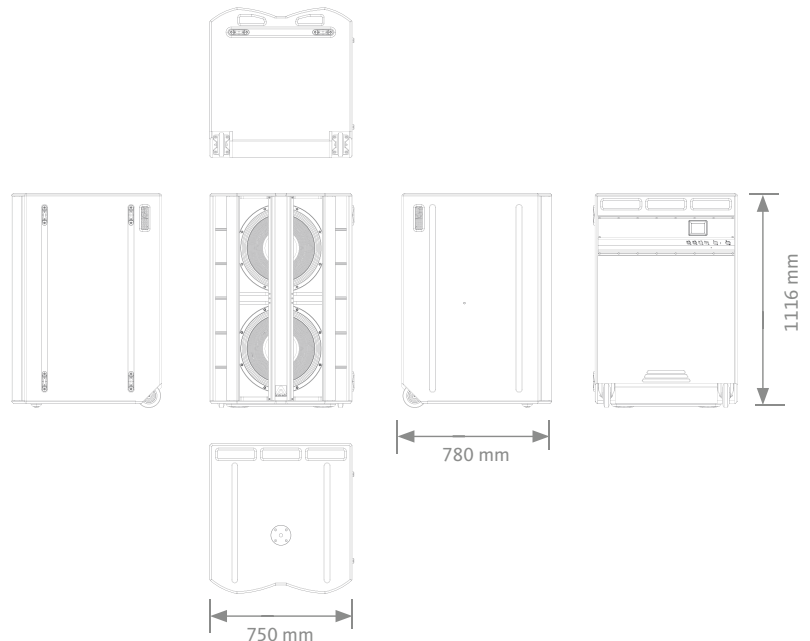
LPF80 X212AFD

LPF 80 Hz + All-pass (for X212AFD enclosure coupling)

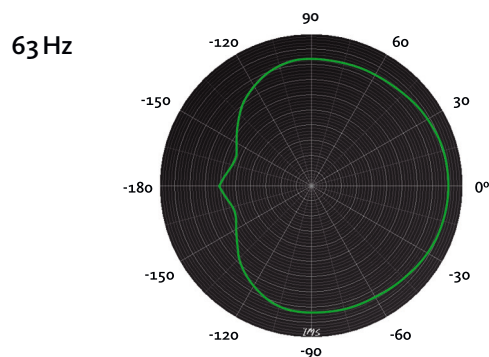
FREQUENCY RESPONSE 1w/1m (LPF100 PRESET)



CAD DRAWING SCHEME



EASY CARDIOID CONFIGURATION THROUGH DEDICATED PRESETS



XW218 5000 W 2x 18" SELF-POWERED SUBWOOFER

XCELLENCE



ACCESSORIES

STACKING FRAME FR-X212
For X212AFD over XW218



STACKING FRAME STAX
For XA211 over XW218



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



PROTECTION COVER
NC-XW218

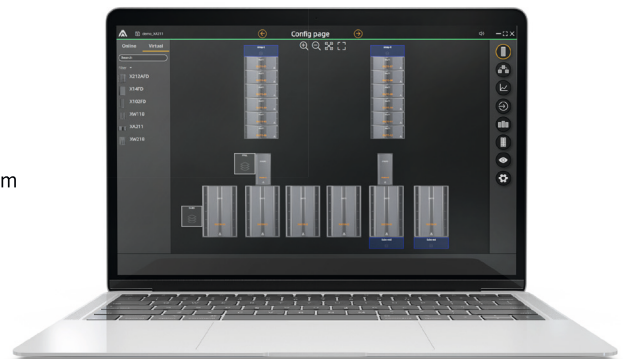


DSP STUDIO 4 CONTROL SOFTWARE

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



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