XW218

5000 W 2x 18" SELF-POWERED SUBWOOFER

XCELLENCE

amate audio

Dante™

Act+ve

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 efficency (>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.

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- **DSP STUDIO** CONTROL FOR WINDOWS
- **LIGHT NEODYMIUM COMPONENTS** (Nd)
- **> 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

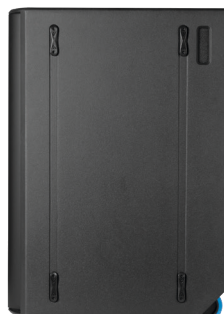|	
Amplifier (program power)	5000 W Class D
Analog input	Nominal: +2 dBu. Max: +20dBu. Impedance: 20 kΩ Balanced
Audio networking	Dante™ audio networking input, 1 channel, 48kHz
Mains	Universal Switch Mode Power Supply 85-265 V / 45-65 Hz
Average current draw	9.4 A (Heavy duty musical program)
SPL (1m)	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

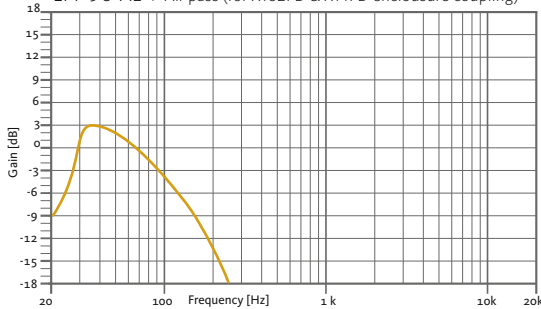CONNECTION PANEL VIEW

FRONTAL VIEW WITHOUT GRILLE

SIDE VIEW

REAR VIEW

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BUILT-IN PRESETS

X-ALIGNED
LPF 90 Hz + All-pass (for X102FD & X14FD enclousure coupling)

With X212AF

LPF80 LPF90 LPF100
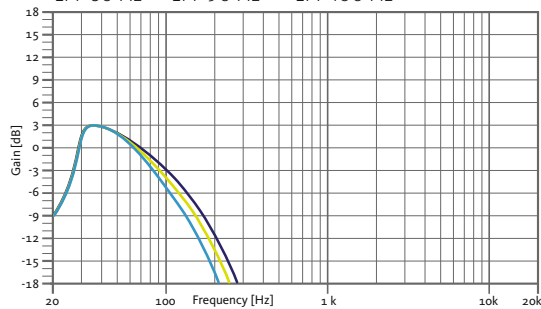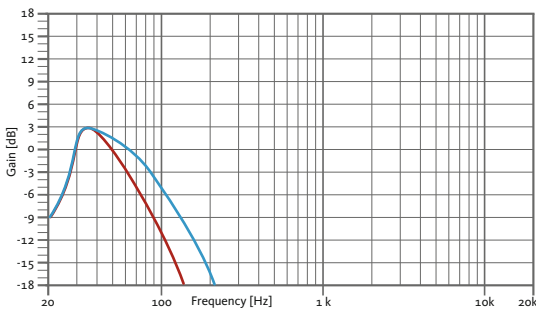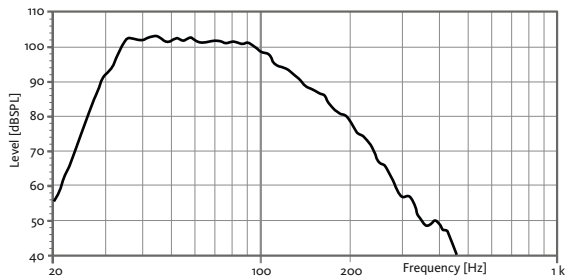LPF 80 Hz   LPF 90 Hz   LPF 100 Hz

LPF60 X212AFD
LPF 60 Hz + All-pass (for X212AFD enclousure coupling)

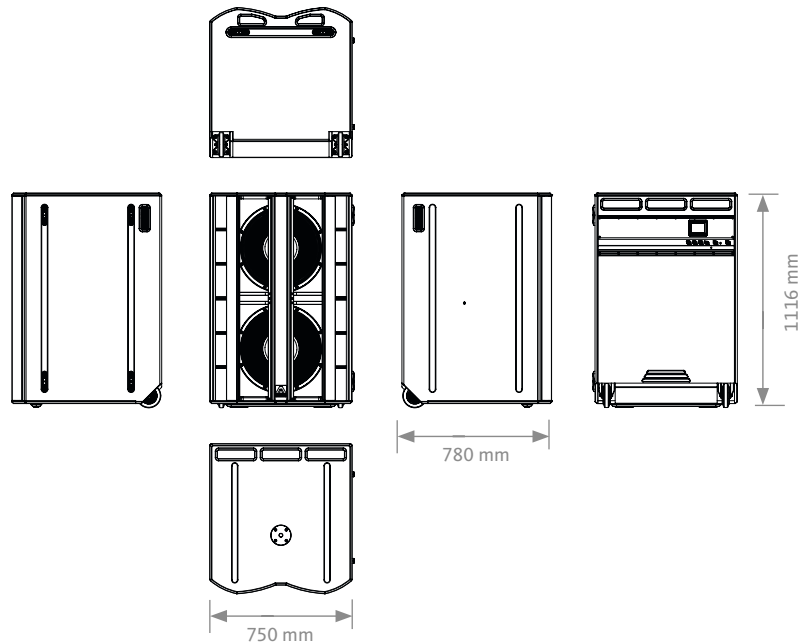**LPF80 X212AFD**
LPF 80 Hz + All-pass (for X212AFD enclousure coupling)
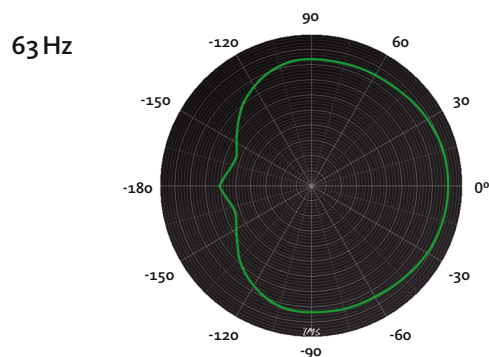

FREQUENCY RESPONSE 1w/1m (LPF100 PRESET)

CAD DRAWING SCHEME

1116 mm
780 mm
750 mm

EASY CARDIOID CONFIGURATION THROUGH DEDICATED PRESETS

63 Hz

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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 3

The application utilises a bespoke control protocol that supports Wi-Fi connectivity (control over IP).

It allows to address the ethernet-enabled amp and DSP modules in the Xcellence series cabinets, affording the user visual feedback on amplifier status and the ability to edit processor values from any spot in the venue.

You can edit parameters such as crossover frequency, gain (per way and separately mutable), limiter, polarity, delay, five custom parametric EQs or an array of filter shapes, can all be adjusted in fine detail, with several elements controllable at the same time using grouping functions.

The app also provides comprehensive information about input and output levels, heat-sink temperature, clip and protection indicators.

"Instant access to outstanding sound"

1 Configure your wifi network

2 Detect loudspeakers

3 Setup audio settings

4 Enjoy the best sound

XC

PC VERSION

Download it from our website: www.amateaudio.com

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