XW118

2500 W 1x 18" SELF-POWERED SUBWOOFER

XCELLENCE

Dante™

Act+ve

New look, starts on the inside.

Advanced technology 18" active subwoofer that gets even lower bass notes; keeps a harmonious design combining highly efficient perforation gradient speaker grilles and visible laminar ports.

KEY FEATURES

TRANSDUCER TECHNOLOGY

Active subwoofer comprising a direct radiating 4-inch voice coil, neodymium magnet, 18" loudspeaker 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 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.

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.

M6 rigging points for easy flying (with KRW118 accessory).

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amate audio

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)	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)	133 dB musical program, 136 dB peak
Built-in DSP	64-bit processing unit. Includes factory presets
AD/DA converters	24 bit – 48 kHz
Standby mode consumption	8 W
Adjustable delay line	294 ms / 100 m
Crossover frequency	80 Hz / 90 Hz / 100 Hz
Frequency Response (-10dB)	30 Hz – 140 Hz (LPF100)
Components (LF)	18" neodymium woofer (4" voice coil)
Directivity (-6dB)	Omnidirectional
Directivity factor (Q)	1
Directivity index (DI)	0 dB
Weight	56.8 Kg
Dimensions (HxWxD)	555 x 740 x 748 mm
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating
Grille	2 mm powder coated steel with grey micro-foam cloth
Rigging	M6 points
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 Xcellence enclosure coupling)
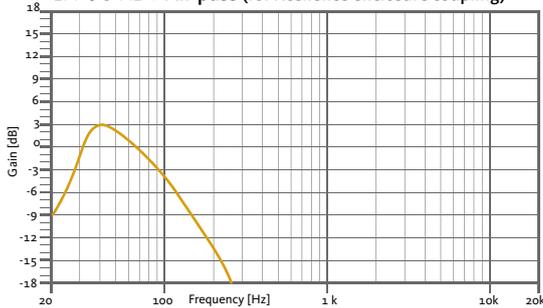
LPF80
LPF 80 Hz
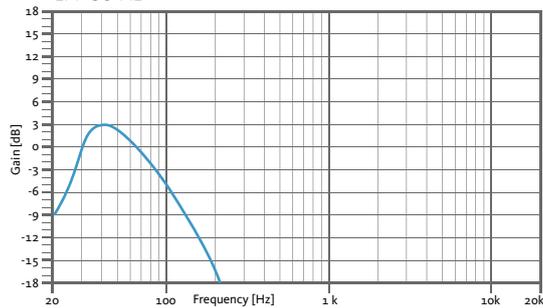
### LPF90
LPF 90 Hz
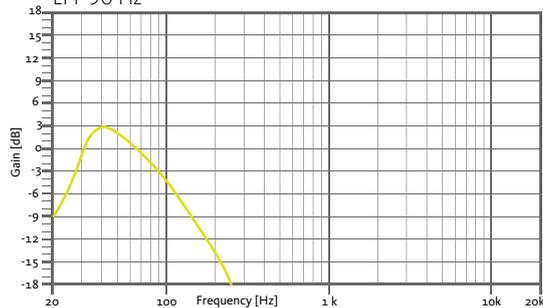
LPF100
LPF 100 Hz
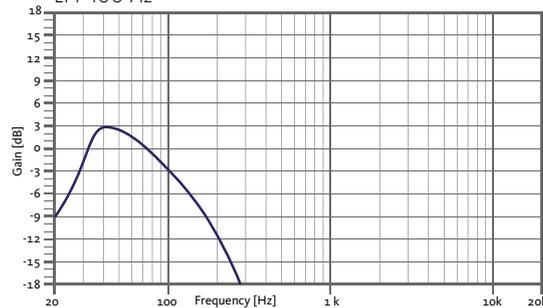
FREQUENCY RESPONSE 1w/1m (LPF100 PRESET)
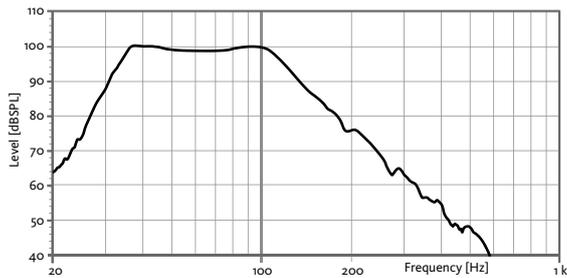
CAD DRAWING SCHEME

555 mm

748 mm

740 mm
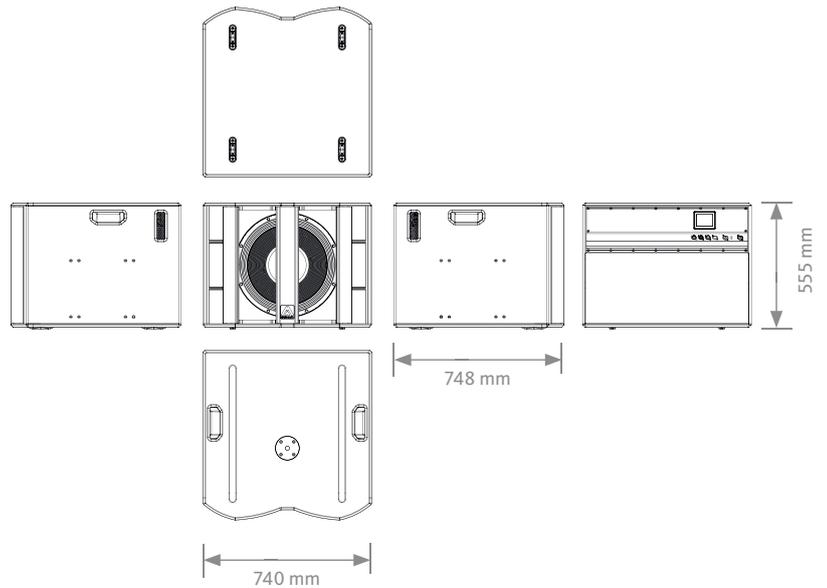
EASY CARDIOID CONFIGURATION THROUGH DEDICATED PRESETS

63 Hz
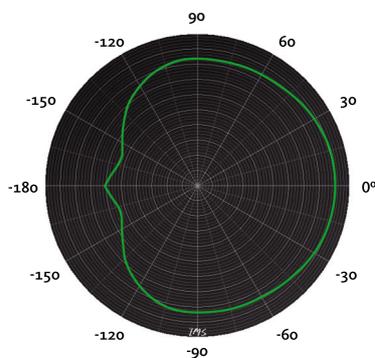
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ACCESSORIES

FLYING HARDWARE KRW118
For flying XW118

BUMPER BRWX
For flying XW118

STACKING FRAME STAX
For XA211 over XW118

TROLLEY TR-XW118
Wooden plate with reinforced wheels

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

PROTECTION COVER
NC-XW118

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

PC VERSION

MAC VERSION
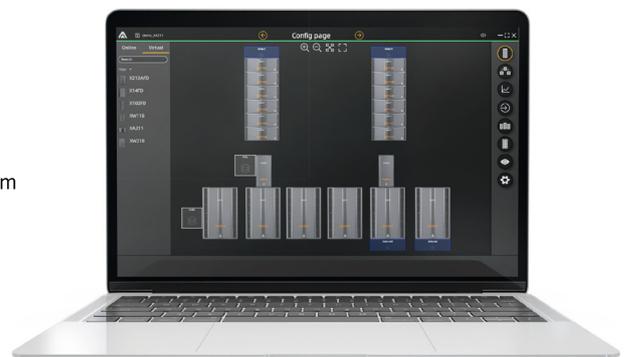
Download it from our website: *www.amateaudio.com*