# **X**212**AFD**

XCELLENCE







2x 12" THREE-WAY ACTIVE LINE

ARRAY SPEAKER SYSTEM

The X212AFD is the flagship of the Xcellence series and the epitome of audio perfection performance. Breakthrough technologies, cutting-edge acoustic design, the highest quality, precision-engineered, in-built DSP with F.I.R. filters, taylor-made components and materials and Dante networking.

### **KEY FEATURES**

### **TRANSDUCER TECHNOLOGY**

Three-way line array active speaker system composed by two direct radiating 3-inch voice coil, neodymium magnet 12" loudspeakers, four 1.5-inch voice coil, neodymium magnet 6" loudspeakers mounted on two mid frequency phase plugs and two 3-inch voice coil, titanium diaphragm, neodymium magnet compression drivers coupled to a 100° x 8° exclusive high performance waveguide.

### AMPLIFICATION

4000 W 3rd generation Class D built-in amplifier controlled by a dedicated multichannel DSP.

90% efficiency amplifier SMPS (switching mode power supply), allowing maximum power delivery with minimum consumption in an extremely low-weight and reduced size.

Rear connections and control panel with touch screen to display the different settings, presets, volume and adjustments done by the user.

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 low power consumption mode (EcoMode) available, when no signal present at the input.

Double PowerCon (input link)

Maximum 1 cabinet linked.

### DSP & CONTROL

Internal DSP with all necessary signal processing (crossovers, EQ's, delay, limiters, gain control, mute) as well as several useful presets to adjust the X212AFD to different requirements.

Advanced signal processing using F.I.R. (Finite Impulse Response) filters.

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

Double Ethernet connection with integrated Ethernet switch. Wireless control available through external hardware CWK-D: the system can be monitored from any spot in the room.

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.

Dante™ Input available at both RJ-45 ports. The unit can be connected directly to Dante sources over a wired Ethernet network

#### **DESIGN & ACCESSORIES**

Several accessories allow easy flying and stacking.

Connectors are placed on an inclined plane to increase protection against rain or moisture.

Ergonomic handles for an easy and comfortable transport.

1.5 mm speaker grilles with grey micro-foam cloth, exclusively designed with an optimum perforation gradient and attractive appearance.

Multilayer baltic birch plywood cabinet with Polyurea® coating, offering maximum reliability and strength for touring as well as for high demanding applications.

# **X**212**AFD**

MAC

DSP STUDIO CONTROL APP FOR WINDOWS AND

EXCLUSIVE HIGH PERFORMANCE WAVEGUIDE

EXCLUSIVE MID PHASE PLUG

> 250 V OVERVOLTAGE PROTECTION

LIGHT NEODYMIUM COMPONENTS

MULTIPLE PRESETS AVAILABLE

HIGH RESISTANT POLYUREA® PAINT

ACCESSORIES FOR EASY INSTALLATIONS

## 2x12" THREE-WAY ACTIVE LINE ARRAY SPEAKER SYSTEM





### **TECHNICAL FEATURES**

Amplifier (program power)	2000 W (LF) + 1000 W (MF) + 1000 W (HF) Class D Tri-amplified
Analog input	Nominal: +8dBu. Max: +20dBu. Impedance: 20kΩ 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	3.7 A (Heavy duty musical program)
SPL (1 m)	141 dB continuous 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	< 5 W
Adjustable delay line	294 ms / 100 m
Crossover frequency	200 Hz / 1 kHz
Frequency response (-10 dB)	42 Hz – 18 kHz
Components LF	2x 12" neodymium woofers (3" voice coil)
MF	4x 6" neodymium woofers (1.5" voice coil
HF	2x 3" titanium diaphragm, neodymium magnet compression drivers
Directivity (-6dB)	100° (H) x 8° (V)
Directivity factor (Q)	64
Directivity index (DI)	18 dB
Weight	64.6 kg
Dimensions (HxWxD)	372 x 1100 x 657 mm
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating
Grille	1.5 mm 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® lin / 1 x EtherCon® RJ45 input / 1 x EtherCon® RJ45 link



SIDE VIEW





FRONTAL VIEW WITHOUT GRILLES



REAR VIEW

TOP VIEW

www.amateaudio.com



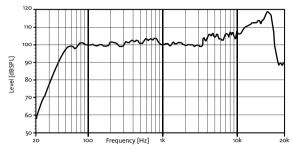
## 2x12" THREE-WAY ACTIVE LINE ARRAY SPEAKER SYSTEM

# XCELLENCE

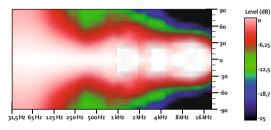


### FREQUENCY RESPONSE 1w/1m (HP60\_FLAT PRESET) ONE CABINET

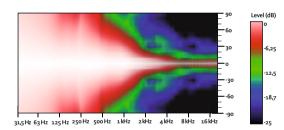




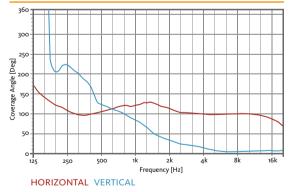
### HORIZONTAL COVERAGE



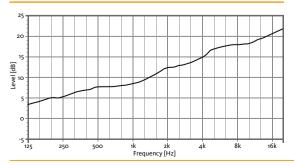
### **VERTICAL COVERAGE**

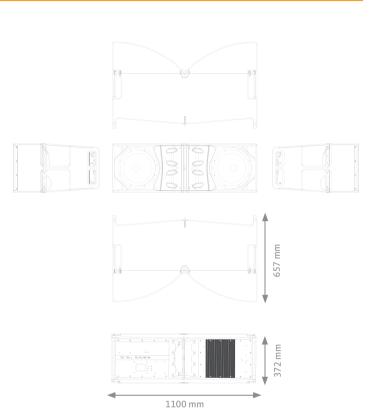


### HORIZONTAL & VERTICAL BEAMWIDTH (-6dB point)



### **DIRECTIVITY INDEX (DI)**





### **CONTROL PANEL**





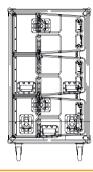
### 2x12" THREE-WAY ACTIVE LINE ARRAY SPEAKER SYSTEM



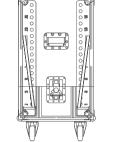


### ACCESSORIES

FLIGHT CASE FC-X212AF For three units of X212AFD



FLIGHT CASE FC-TAX212 For two units of TA-X212

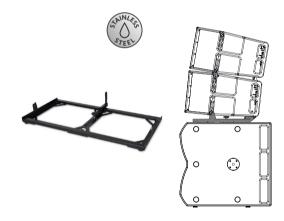


TROLLEY TR-X212 For four units of X212AFD. Includes protection cover FRAME ADAPTOR FA-X210/212 For X210 underneath X212AFD





STACKING FRAME FR-X212 For X212AFD over X218WFD



### **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.

**TOURING BUMPER TA-X212** 

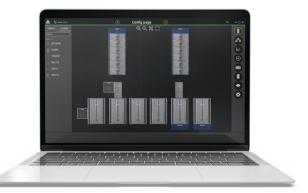
For flying of X212AFD

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