





The X102FD has been developed as a powerful and compact, more efficient point source alternative to line arrays in medium size application environments. The design objective was to optimally achieve the highest quality sound at the highest possible output levels from the most compact enclosure possible.

KEY FEATURES

TRANSDUCERS TECHNOLOGY

Two-way full range active speaker system composed by two direct radiating 2-inch long excursion dual voice coil, neodymium magnet 10" loudspeakers mounted on two mid frequency phase plugs and one 3-inch voice coil, titanium diaphragm, neodymium magnet compression driver loaded to a 80° x 60° rotatable horn.

AMPLIFICATION

3000 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.

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).

DSP & CONTROL

ACTIVE+ DSP technology with all necessary signal processing (crossovers, EQ's, delay, limiters, gain control, mute) as well as several useful presets to adjust the X102FD to different requirements.

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

Rear connections and control panel with 3.5" TFT colour touch screen to display the different settings, presets, volume and adjustments done by the user.

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

M8 rigging points for easy flying.

Ergonomic handles for an easy and comfortable transport.

1.5mm speaker grille 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.

35mm diameter pole mount socket mounted on the bottom side for a standard tripod.

Protective rubber profiles.



DSP STUDIO CONTROL
APP FOR WINDOWS AND
MAC



**EXCLUSIVE HIGH
PERFORMANCE
ROTATABLE HORN**



**EXCLUSIVE LOW
FREQUENCY PHASE
PLUG**



**LIGHT NEODYMIUM
COMPONENTS**



**>250 V
OVERVOLTAGE
PROTECTION**



**MULTIPLE PRESETS
AVAILABLE**



**HIGH RESISTANT
POLYUREA® PAINT**



**ACCESSORIES FOR
EASY INSTALLATIONS**

TECHNICAL FEATURES

Amplifier (program power)	2500 W (LF) + 500 W (HF) Class D Bi-amplified
Analog input	Nominal: +8 dBu. Max: +20 dBu. 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	3.3 A (Heavy duty musical program)
SPL (1 m)	136 dB continuous musical program, 139 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	850 Hz
Frequency response (-10 dB)	58 Hz – 19 kHz
Components	
LF	2x 10" neodymium woofers (2" long excursion dual voice coil)
HF	1x 3" titanium diaphragm, neodymium magnet compression driver
Directivity (HxV)	80° x 60° / 60° x 80° (rotated horn)
Directivity factor (Q)	12.6
Directivity index (DI)	11 dB
Weight	28 Kg
Dimensions (HxWxD)	704 x 330 x 460 mm
Finish	Multilayer baltic birch plywood with high resistant black Polyurea® coating and protective rubber profiles
Grille	1.5 mm steel with grey micro-foam cloth
Rigging	M8 points
Connectors	1x XLR input / 1x XLR link / 1x AC PowerCon® input / 1x AC PowerCon® link / 1x EtherCon® RJ45 input / 1x EtherCon® RJ45 link



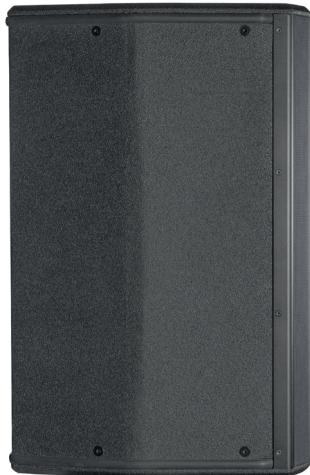
TOP VIEW



BOTTOM VIEW



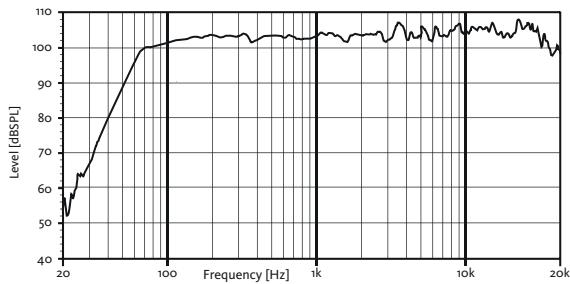
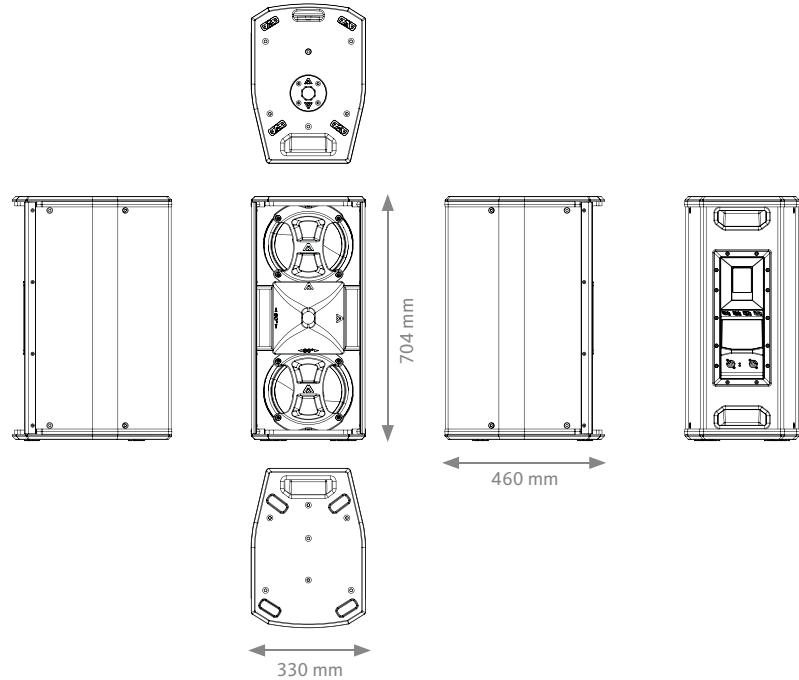
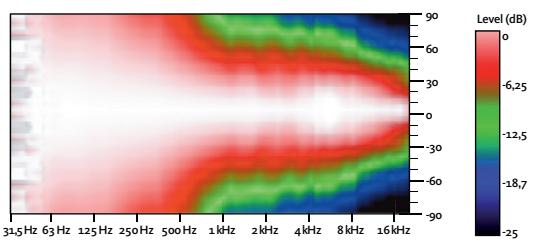
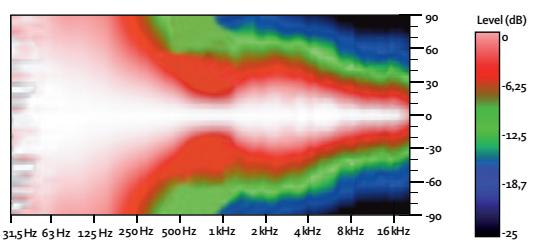
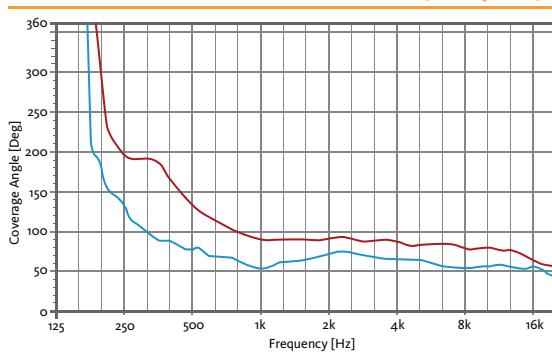
FRONTAL VIEW
WITHOUT GRILLE



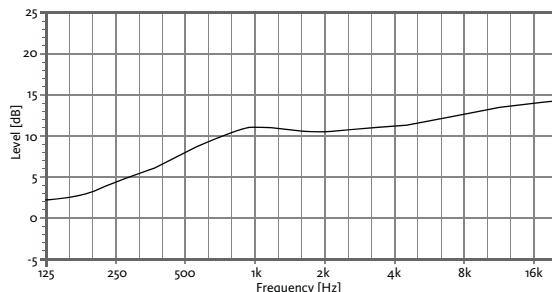
SIDE VIEW



REAR VIEW

FREQUENCY RESPONSE 1w/1m (FLAT PRESET)**CAD DRAWING SCHEME****HORIZONTAL COVERAGE****VERTICAL COVERAGE****HORIZONTAL & VERTICAL BEAMWIDTH (-6dB point)**

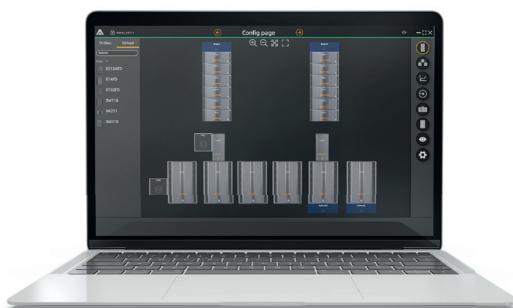
HORIZONTAL VERTICAL

DIRECTIVITY INDEX (DI)**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

ACCESSORIES

FLIGHT CASE **FC-X102FD**
for two units of X102FD



PROTECTIVE COVER
NC-X102FD
for one unit of X102FD



FLYING BAR WITH HOOK
RB-L/GT



FLYING BAR
RB-L1082 for two cabinets



TELESCOPIC DISTANCE ROD
SP-CRTL

Ø: 35 mm
Length: 55 cm ~ 90 cm
Thread: M20



SAFETY SLING
SC-15



WALL-MOUNT
BRACKET
SP-WHR



M8 RIGGING EYEBOLT
ACR-M8



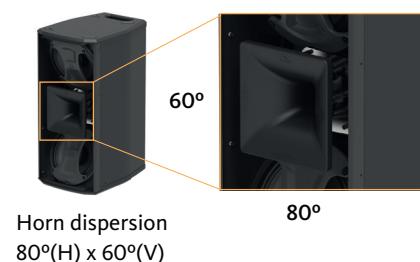
FLYING BAR
RB-L

**REAR CONTROL PANEL TOUCHSCREEN****SMART ROTATABLE HORN**

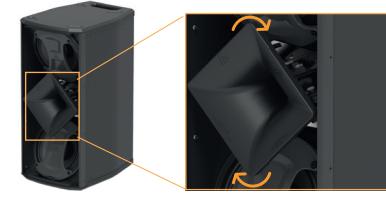
A truly multifunctional system, the X102FD is enabled for use in both vertical and horizontal planes, with the rotatable horn being a simple 'pull, rotate and return' solution; no tools required.

VERTICAL PLANE

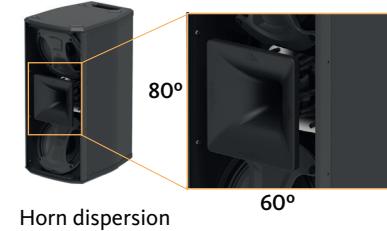
80°(H) x 60°(V) to 60°(H) x 80°(V)



Horn dispersion
80°(H) x 60°(V)



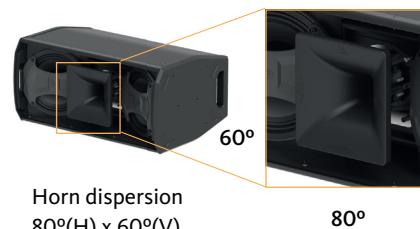
Smart rotatable horn.



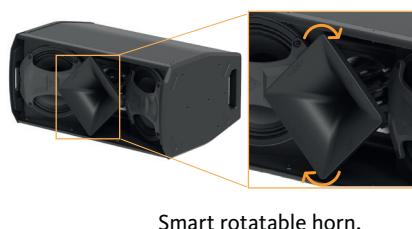
Horn dispersion
60°(H) x 80°(V)

HORIZONTAL PLANE

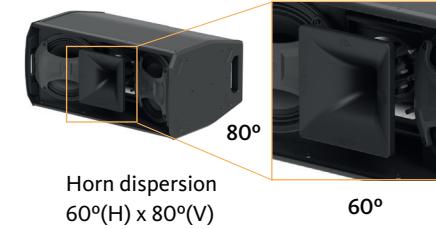
80°(H) x 60°(V) to 60°(H) x 80°(V)



Horn dispersion
80°(H) x 60°(V)



Smart rotatable horn.



Horn dispersion
60°(H) x 80°(V)