



CXA SERIES **CATALOGUE**

Latest edition

Proudly designed, engineered and
manufactured in SPAIN



CULTURE OF SOUND

OUR TECHNOLOGY

These are the technological features of our cabinets that you will find on each product card:



DIGITAL PROCESSING

Latest generation 24bit/96Khz digital processor which optimizes the system components.

It includes 2 channel processing electronics with functions for phase correction, driver protection, gain control, equalization, classic crossover and linear phase filtering.



FIR POWERED

In-house engineered FIR filter algorithms allow Lynx systems to deliver outstanding sound quality and phase compatibility within all the DSP powered product range whilst maintaining very low latency.



AES / EBU

For self-powered Lynx Pro Audio cabinets that have this option, enabling digital audio input signal via AES / EBU protocol, accepting signals up to 24 bits and 192 kHz whilst with the software being able to choose if you want to use the input L, R or L + R.



POWER FACTOR CORRECTION

PFC is a measure of how efficiently the load current is being converted into a more useful output current. With PFC the power supply regulates itself when AC mains change, so the amp power output will not change with mains swinging.

This system is also very environmentally friendly with a reduction of approximately 40% of current draw. It transforms the power consumed in to "useful power" producing less hum and distortion.



NEODYMIUM

Lynx Pro Audio cabinets that use neodymium magnet group components benefit from special characteristics such as improved driver performance and of course the saving in overall system weight.



ATMOSPHERIC

Air absorption compensation is an algorithm that compensates for the loss of pressure caused by weather conditions and the distance to the listener's ear from the sound system.

By introducing three parameters (temperature, relative humidity and distance) the algorithm calculates the losses and compensates for this loss so they are not apparent in the listening zone.



DIGITAL INCLINOMETER

Automatic function to calculate cabinet splay angles. The inclinometer data can be viewed and controlled from the cabinet LCD display either manually or automatically.

The inclinometer automatically communicates with the DSP and modifies the equalization algorithms. According to the splay angle of the inclinometer the DSP compensates for atmospheric loss.

The result is a more efficient performance and a flat response, even at long distances.



IMPORT DATA

This feature of our control software allows us to add the electro-acoustic response of the system we want to adjust to our processing chain, enabling us to see the total system response and not just the electrical one.



FLOAT POINT OPERATIONS IN DOUBLE PRECISION

The DSP processing works with double precision, achieving an internal resolution of 56 bits or 64 bits, one of the largest resolutions available on the market today.



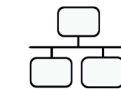
This enables the use of high precision filters with extremely low distortion delivering unbeatable sound clarity and quality.



AMPLIFICATION

The Class D amplifier is characterized by high efficiency (low loss of energy), which results in smaller heat sinks and much smaller total power consumed by reducing the weight and size of the amplifier.

Class D amplifiers achieve about 80% higher efficiency than other amplifiers, whose efficiency is approximately 45%. There are significant advantages, the lower dissipation produces less heat and saves circuit board space.



ETHERNET

This option enables you to connect various devices in a standard Ethernet network and control them remotely through our OCS 'Online Control Software'.



ONLINE CONTROL SYSTEM

OCS is a software to control each cabinet in real time (via Ethernet or pc). It obtains detailed information of the cabinet behaviour: RMS levels, Input clip, compression levels, power module temperature, air absorption compensation and cabinet angulation.



CABINET UPDATER

This software enables you to update your cabinets with the latest presets and firmware. Enclosures are connected via Internet to our servers and automatically detects any updates that might have been made for them. This ensures the end user always has all the improvements developed by our R & D department available for their system.



RAINBOW 3D

Based on polar response measurements, taken meticulously with a 360° sphere in a 3D environment.

The Rainbow 3D software calculates the response from multiple sound sources in a 3D space. In addition, the user can optimize the response using our FIR filtering technology.



CXA Series

The CXA is intended as a flexible solution for both fixed installations and touring where wide coverage is required from as few line array elements as possible.

This line source system can be used as a single element or a combination of a maximum of 4 cabinets in array configuration delivering a 72° coverage in the vertical plane. Our HF Multidriver Waveguide system delivers 100H x 18V precise coverage for a multitude of installations. Thanks to its careful construction it can also be installed for symmetrical HF dispersion.

The CXA Array models are self-powered (Class D) with switching power supply and 1400W of amplification each. They are also controlled by the latest generation of Digital Signal Processing with a DSP integrated in to each cabinet, optimizing all the system components and electronics, providing maximum system efficiency and total protection.



- Class D Powered
- Integrated Digital Processing
- Internal temperature control
- Electronic protections
- FIR linear phase filtering
- Online monitoring available
- Two way active system

High Output, self powered (class D switch mode power supply with PFC), constant curvature line array element.

Consists of a 12" (2.5" voice coil) transducer with special HF Multidriver Waveguide system delivering 100°H x 18°V precise coverage. DSP (FIR technology) controlled with 1400W amplification, 128dB SPL

Made from premium birch plywood and finished with a polyurea coating.

Applications: live events, clubs, houses of worship, theatres, fixed installations and touring.

CXA-12	
Components	LF: 12", 2.5" voice coil, Malt Cross Cooling System HF: Multidriver system with wave guide, 1.4" aluminium voice coil with titanium diaphragm
Frequency Range	60 Hz - 20 KHz (-10dB)
Frequency Response	70 Hz - 18 KHz (± 3dB)
Max. SPL	128 dB
Coverage	100° H x 18° V
Power	1400 W Class D with switching power supply & PFC
LF Amplifier	1 x 800 W
HF Amplifier	1 x 600 W
Processing	48 KHz / 56 bit double precision DSP with FIR filters
Control	User control interface with LCD
Control Connections	USB (DSP programming)
AC Power	90 – 264V. 50/60 Hz with PFC
AC Connections	16A Neutrik powerCON TRUE1 with looping output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	357 x 632 x 484 mm (H x W x D)
Weight	31 Kg (68 lbs)





- Class D Powered
- Integrated Digital Processing
- Internal temperature control
- Electronic protections
- FIR linear phase filtering
- Online monitoring available
- Two way active system

High output, self powered (class D switch mode power supply with PFC), omni-directional subwoofer cabinet.

Consists of a 18" (4" ventilated voice coil) neodymium transducer. DSP controlled with 1400W amplification, 132dB SPL.

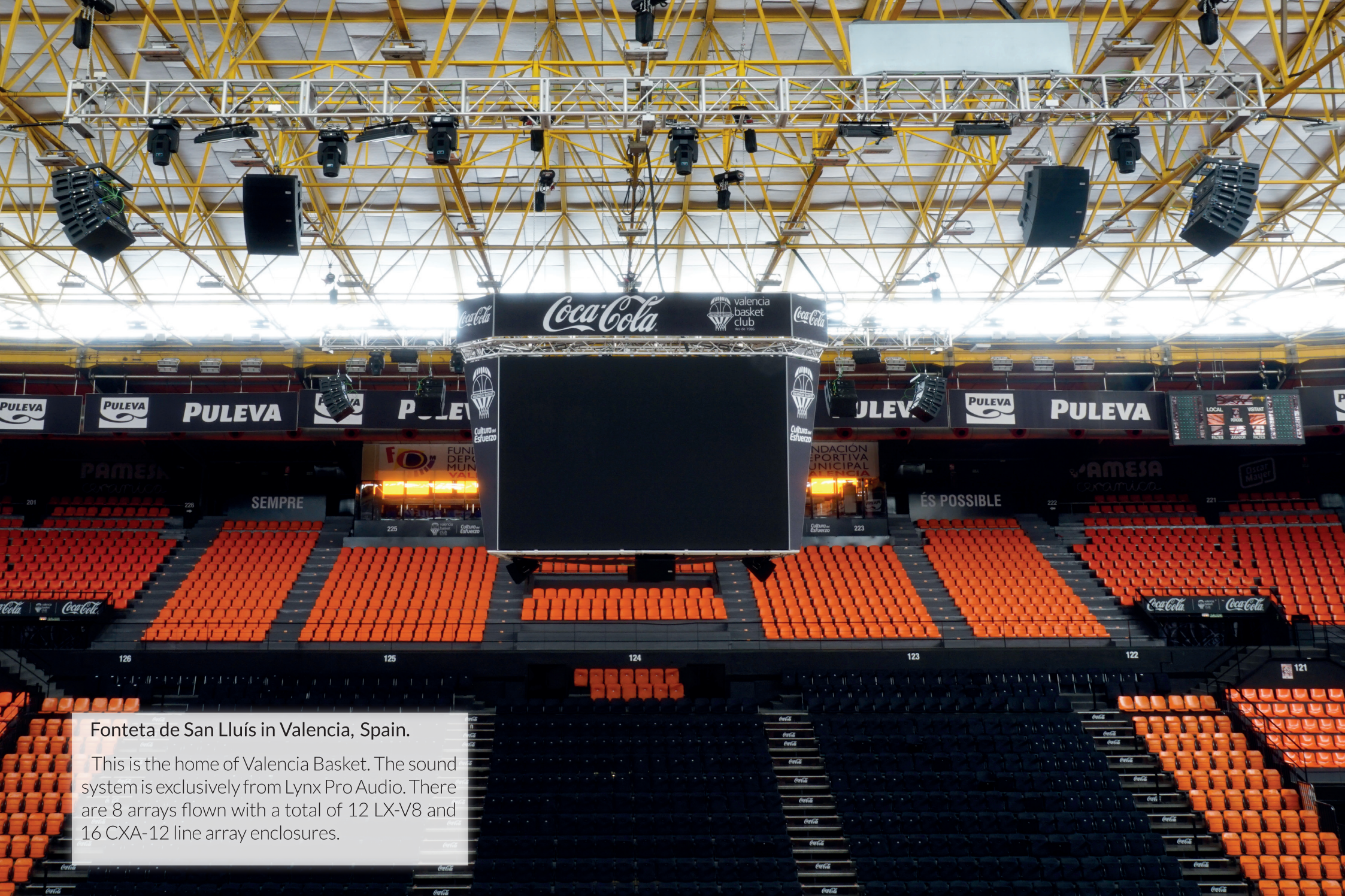
Made from premium birch plywood and finished with a polyurea coating.

Applications: theatres, concert halls and auditoriums, sport stadiums, large discos and outdoor events.

CXA-18S

Components	LF: 18", 4" voice coil, Neodymium magnet assembly
Frequency Range	30 Hz - 140 Hz (-10dB)
Frequency Response	35 Hz - 125 Hz (± 3dB)
Max. SPL	132 dB
Coverage	Omnidirectional
Power	1400 W Class D with switching power supply & PFC
LF Amplifier	1 x 1400 W
Processing	48 KHz / 56 bit double precision DSP
Control	User control interface with LCD
Control Connections	USB (DSP programming)
AC Power	90 – 264V, 50/60 Hz with PFC
AC Connections	16A Neutrik powerCON TRUE1 with looping output
Finish	Polyurea coating high grade resistant paint
Material	18mm Premium birch plywood
Dimensions	556 x 632 x 696 mm (H x W x D)
Weight	45 Kg (99 lbs)





Fonteta de San Lluís in Valencia, Spain.

This is the home of Valencia Basket. The sound system is exclusively from Lynx Pro Audio. There are 8 arrays flown with a total of 12 LX-V8 and 16 CXA-12 line array enclosures.

Follow us on



or visit our website

www.lynxproaudio.com

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