

A culture of sound

Product Guide



Technology

At Lynx Pro Audio, all the technology we employ is our very own. We design and program our own DSP systems and control software.

This allows us to work with the latest technology available for DSPs, AD and DA converters, microprocessors etc. Being able to master such technology allows us to add new features to our products guaranteeing that the users of Lynx Pro Audio systems will always have the latest available upgrades.



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.



FLOAT POINT OPERATIONS IN DOUBLE PRECISION

The DSP processing works with double precision in floating point, achieving an internal resolution of 56 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



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.



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.



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.



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.







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.



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.

OCS allows to control each cabinet: You can change the preset, gain, mute and polarity, activate the SOLO mode and the weather compensation.



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.



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.



ETHERNET

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



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.



RAINBOW

Based on polar response measurements, taken meticulously with a 360° vertically and horizontally.

Both coverage, the Rainbow software is reliable to calculate the SPL response including the interaction between them taking into account the magnitude and phase response, in order to enable the user to correct cancellations and even to create them if the acoustical design so requires.

This software is able to import WMF files

OS SERIES

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The DS series offer a full range horn loaded cabinet and a extremely high power sub-bass enclosure, both specifically designed for club and discotheque installs.

LYL

Manufactured as standard with premium birch plywood and finished with highresistant water based black paint it can also be manufactured in any colour or finish to compliment any install design.

The DS cabinets are designed to not only be pleasing to the eye but also to the ear.



DS SERIES

High Output, hornloaded, two-way cabinet. Consists of a 12" (64mm aluminium voice coil) transducer and a 1.4" neodymium compression driver with titanium diaphragm mounted on a special GFK/ Sandwich 60° x 40° horn.

Bi-amplified delivering AES 60W (HF) and AES 500W (LF/ MF), 133dB SPL.



Specs

Components	LF/MF 1×12" + 1.4" titanium diaphragm HF driver	Crossover	1450 Hz
		Nominal Impedance	Low/Mid: 8 Ohm High: 8 Ohm
Frequency range	130 Hz – 20 KHz	Shape	Trapezoidal
Frequency Response	150 Hz – 18 KHz (± 3 dB)	Connectors	2 x Neurtik Speakon NL4MP
Max. SPL	130 dB / 133 dB peak	Construction	15mm Premium birch plywood
Coverage angle	60° H x 40° V	Finish	Different colours and finishing options
Rated Power	Low/Mid: 500W High: 60W	Dimensions	649 x 499 x 482 mm (H x W x D)
Program Power	Low/Mid: 1000W High: 120W	Weight	32 kg (70 lbs)

DS-12





DS SERIES

High output, direct radiation sub bass cabinet.

Consists of one 18" (4" DUO voice coil) low frequency transducer with aluminium demodulating ring. 136dB SPL, (2800W program).



Specs

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Components	LF 1×18"	Coverage	360° single unit
Frequency range	30 Hz – 250 Hz	Nominal Impedance	8 Ohms
Frequency Response	35 Hz – 200 Hz (± 3 dB)	Construction	18 mm Premium Birch plywood
Max. SPL	133 dB / 136 dB peak	Finish	Different colours and finishing options
Rated Power RMS	1400 W	Dimensions	639 x 585 x 733 mm (H x W x D)
Program Power	2800 W	Weight	42 kg (92 lbs)



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The technical specifications described in this catalogue can vary without previous notification.

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