LYNX pro-audio

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.

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.

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.

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.

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

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

QB SERIES

The QB series comprises 2 two-way, passive full range cabinets and 2 sub basses, is the smallest series Lynx Pro Audio offers and is designed and intended for back ground sound reinforcement where the power of the HR series is not required.

The components have been carefully selected to offer a lightweight, versatile series, delivering a linear phase response with excellent sound distribution and fidelity for background installations in bars, restaurants, conferences etc

Both QB Series Full Range cabinets are supplied with high frequency OCPP protection (Over Current Passive protection) whilst the Sub-bass models come with SWR (Stationary Wave Reduction) to reduce internal stationary waves.

All the cabinets are finished in rugged, premium birch plywood, coated with water-based black paint with the QB-5 and QB-8 protected by front steel grilles all backed with a special dark grey triple layer, acoustical textile which allows greater air flow and reduces heat and humidity.

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QB-5

Ultra-compact, full range, two way passive cabinet for background sound reinforcement.

It consists of a 5" transducer and a 1" high frequency neodymium tweeter.

It offers 90ºconic dispersion and 113 dB SPL peak (160W program).

QB-8

High performance, ultra-compact, full range, two way passive cabinet.

It consists of a 8" transducer and a 1" high frequency tweeter.

It offers 90º conic dispersion and 120 dB SPL peak (300W program).

Specs

QB-5		QB-8
LF 1 x 5" transducer / HF 1 x 1" tweeter	**Components**	LF 1 x 8" transducer /HF 1 x 1" tweeter
65 Hz – 20 KHz (-10 dB)	**Frequency range**	50 Hz – 22 KHz (-10 dB)
75 Hz – 18 KHz ± 3 dB	**Frequency Response**	60 Hz – 20 KHz ± 3 dB
88 dB (1W @ 1m)	**Sensitivity**	92 dB (1W @ 1m)
107 dB - 113 dB peak	**Max. SPL**	114 dB - 120 dB peak
80 W (160 W program, 320 W peak)	**Rated Power AES**	150 W (300 W program, 600 W peak)
90ºH x 90ºV	**Coverage angle**	90ºH x 90ºV
16 Ohm	**Impedance**	8 Ohm
2 x Neutrik Speakon NL4MP	**Input Connectors**	2 x Neutrik Speakon NL4MP
10mm DM	**Material**	15mm Premium birch plywood
High resistant water-based black paint. black steel grill with acoustic fabric protection	**Finish**	High resistant water-based black paint. black steel grill with acoustic fabric protection
254 x 167 x 186 mm	**Dimensions**	450 x 277 x 275 mm (H x W x D)
3 kg (6.6 lbs)	**Weight**	8.5 kg (18.7 lbs)

Accessories

WB-01 for QB-5 | WB-03 Wall bracket | WB-02 Wall bracket | VSM-V1 Top hat | TV-50 Clamp truss | TU-C02 M20 pole | TU-C01 connecting pole | SB-02 Stand | AGR-6 Eye bolt

SUB-08

Ultra-compact double band pass, passive sub woofer with one 8" transducer with double independent coil and rubber suspension. 122 dB SPL peak (400W program).

DR-N12

Extremelly compact, high power, passive sub-bass cabinet with one 12" low frequency transducer with rubber surround in direct radiation configuration. 130 dB SPL peak (2000W Program).

Specs

SUB-08		DR-N12
LF 1 x 8" transducer (2 x 50mm voice coil)	**Components**	LF 1 x 12" transducer
43 Hz – 160 Hz (-10 dB)	**Frequency range**	34 Hz – 400 Hz (-10 dB)
47 Hz – 154 Hz ± 3 dB	**Frequency Response**	39 Hz – 220 Hz ± 3 dB
93 dB (1W @ 1m)	**Sensitivity**	94 dB (1W @ 1m)
116 dB - 122 dB peak	**Max. SPL**	124 dB - 130 dB SPL peak
200 W (400 W program, 800 W peak)	**Rated power AES**	1000 W (2000 W program, 4000 W peak)
Omnidirectional	**Coverage angle**	Omnidirectional
2 x 8 Ohm	**Impedance**	8 Ohm
2 x Neutrik Speakon NL4MP	**Input Connectors**	2 x Neutrik Speakon NL4MP
15mm Premium birch plywood	**Material**	18mm Premium birch plywood
High resistant water-based black paint	**Finish**	High resistant water-based black paint. black steel grill with acoustic fabric protection
268 x 641 x 304 mm	**Dimensions (H x W x D)**	415 x 590 x 370 mm
9 kg (20 lbs)	**Weight**	28 kg (62 lbs)

Accessories

TU-C01
connecting pole

TU-C02
M20 pole

VSM-V2
pole support

You can find us in all these social media:

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

If you want to recieve the printed version of this catalogue just click here:
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