QB SERIES **GUIDE**

Latest edition

Proudly designed, engineered and
manufactured in SPAIN

LYNX pro-audio

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 32 bit/96 KHz 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.

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.

QB Series

The QB series comprises one two-way, passive full range cabinet and one subwoofer and is the smallest series that Lynx Pro Audio offers, designed and intended for background sound reinforcement where the power of the HR or BS 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.

The Full Range cabinet is supplied with high frequency OCPP protection (over current passive protection) whilst the subwoofer model comes with SWR (stationary wave reduction) to reduce internal stationary waves.

Both cabinets are finished in rugged, premium birch plywood with a polyurea coating. The QB-5 is protected by front steel grills and backed with a special dark grey triple layer, acoustical textile which allows greater air flow and reduces heat and humidity.

QB-5

- Ultra- compact Light weight
- Background sound reiforcement
- Line transformer optional
- ARK optimised preset
- White & black colour optional
- Rugged design

	QB-5
Components	LF 1 x 5" transducer HF 1 x 1" tweeter
Frequency Range	65 Hz – 20 KHz (-10 dB)
Frequency Response	75 Hz – 18 KHz (±3 dB)
Sensitivity	88 dB (1W @ 1m)
Max. SPL	107 dB - 113 dB peak
Rated Power (AES)	80 W (160 W program, 320 W peak)
Coverage Angle	90°H x 90°V conic
Impedance	16 Ω
Input Connectors	2 x Neutrik Speakon NL4MP
Material	10 mm DM
Finish	Polyurea coationg paint. Black steel grill with acoustic fabric protection
Dimensions	254 x 167 x 186 mm (H x W x D)
Weight	3 kg (6.6 lbs)

SUB-08

- Ultra- compact Light weight
- Background sound reiforcement
- ARK optimised preset
- White & black colour optional
- High quality component
- It can be used with the QB-5 to extend the low frequency support

	SUB-08
Components	LF 1 x 8" transducer (2 x 50mm voice coil)
Frequency Range	43 Hz – 160 Hz (-10 dB)
Frequency Response	47 Hz – 154 Hz (±3 dB)
Sensitivity	93 dB (1W @ 1m)
Max. SPL	116 dB - 122 dB peak
Rated Power (AES)	200 W (400 W program, 800 W peak)
Coverage Angle	360° single unit
Impedance	2 x 8 Ω
Input Connectors	2 x Neutrik Speakon NL4MP
Material	15mm Premium birch plywood
Finish	Polyurea coationg paint
Dimensions	268 x 641 x 304 mm (H x W x D)
Weight	9 kg (20 lbs)

Àtic Alameda in Valencia, Spain

A gastronomic spot that offers two different experiences in the same space: casual and gourmet. The venue is equipped with QB series cabinets.

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