



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.



ETHERNET

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

This ensures the end user always has all the improvements developed by our R & D department available for their system.



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



GXR SERIES

Both compact and powerful, the GXR Series is our latest solution for portable, light weight, powered speakers. Designed as a more economical solution to the ADP Series, the GXR series retains all the features and delivers all the power of a truly first class touring series.

The series incorporates a new compact line array, the top enclosure GXR-LA10A offering 2 x 10" and two options for the LF. Furthermore the series offer three full range (two-way) models including 12", 15", dual 15" and one 18" subwoofer. All models are self-powered (Class D) with switching power supply and 1400W of amplification each. The integrated amplification far exceeds the transducers' needs thus resulting in high output, high damping factor and extremely low levels of distortion. The high efficiency modules also include PFC, guaranteeing reliability and consistency in all operating conditions and low power consumption (less than 0.55W in standby).

All GXR Series cabinets are controlled by the latest generation of Digital Signal Processing with a DSP integrated in to each cabinet. This DSP, with 56bit internal processing and double dynamics optimizes all the system components and electronics, providing maximum system efficiency and total protection whilst significantly and noticeably lowering distortion. They also utilize linear phase FIR filters.

All the cabinets are finished in rugged, premium birch plywood, coated with water-based black paint and 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.



GXR SERIES

GXR-LA10A

High output line array, self powered (class D switch mode power supply with PFC) Bi-amp, two-way.

Consists of dual 10" transducers (2" voice coil) with a 1.4" compression driver (3" voice coil and titanium diaphragm) coupled to a waveguide (100°H x 10°V). DSP (FIR filters) controlled with 1400W amplification, 135 dB SPL



Specs

Components	LF: 10", 2" voice coil, Malt Cross Cooling System	Processing	48 KHz / 56 bit double precision DSP with FIR filters
	HF: 1.4" Exit throat, 3" voice coil with titanium diaphragm	Control	User control interface with LCD
Frequency Range	60Hz - 20 KHz (-10dB)	Control Connections	USB (DSP programming) / Ethernet (OCS) optional
Frequency Response	68Hz - 18 KHz (± 3dB)	AC Power	90 – 264V. 50/60 Hz with PFC
Max. SPL	135dB	AC Connections	16A Neutrik powerCon TRUE1 with looping output
Coverage Angle	100° H x 10° V	Finish	Polyurea coating, black colour
Power	1400 W Class D with switching power supply & PFC	Material	15mm Premium birch plywood
LF Amplifier	1 x 800 W	Dimensions	298 x 790 x 436 mm
HF Amplifier	1 x 600 W	Weight	31 Kg (68.2 lbs)



GXR-GSKIT
Ground Stack



FC-GXRLA10A
Flight case



FD-1GXRLA10ANL
Rain cover



BALL-PSR6
Ball pin



SV-GXR
Flying frame

Accessories



GXR-D15A



GXR SERIES



High output subwoofer, self powered (class D switch mode power supply with PFC) Bi-amp.

Consists of dual 15" neodymium low frequencies transducers (4" voice coil), direct radiation configuration. DSP controlled with 2400W amplification, 134 dB SPL



Specs

Components	LF: 2 x 15" (4" voice coil), neodymium magnetic assembly	Processing	48 KHz / 56 bit double precision DSP
		Control	User control interface with LCD
Frequency Range	30Hz - 140Hz (-10dB)	Control Connections	USB (DSP programming) / Ethernet (OCS) optional
Frequency Response	35 Hz - 125 Hz (± 3dB) processed	AC Power	90 – 264V. 50/60 Hz with PFC
Max. SPL	134 dB	AC Connections	16A Neutrik powerCon TRUE1 with looping output
Coverage Angle	Omnidirectional	Finish	Polyurea coating, black colour
Power	2400 W Class D with switching power supply & PFC	Material	18mm Premium birch plywood
LF Amplifier	2 x 1200 W	Dimensions	505 x 790 x 690 mm
		Weight	63 Kg (139 lbs)

Accessories



FD-1GXRD15A
Rain cover



BALL-PSR6
Ball pin



SV-GXR
Flying frame



GXR SERIES

GXR-D18A

High output subwoofer, self powered (class D switch mode power supply with PFC) Bi-amp.

Consists of dual 18" neodymium low frequencies transducers (4" voice coil), direct radiation configuration. DSP controlled with 2400W amplification, 134 dB SPL



Specs

Components	LF: 2 x 18" (4" voice coil), neodymium magnetic assembly	Processing	48 KHz / 56 bit double precision DSP
		Control	User control interface with LCD
Frequency Range	30 Hz - 120 Hz (-10dB) processed	Control Connections	USB (DSP programming) / Ethernet (OCS) optional
Frequency Response	35 Hz - 100 Hz (± 3dB) processed	AC Power	90 - 264V. 50/60 Hz with PFC
Max. SPL	134 dB	AC Connections	16 A Neutrik powerCON TRUE1 with looping output
Coverage Angle	Omnidirectional.	Finish	Polyurea coating, black colour
Power	2400 W Class D with switching power supply & PFC	Material	18mm Premium birch plywood
LF Amplifier	2 x 1200 W	Dimensions	605 x 1100 x 750 mm
		Weight	92 Kg (202 lbs)

Accessories



GR-18WKIT
Wheel Kit



FD-1GXRD18A
Rain cover



GXR-15



GXR SERIES



High Output, self powered (class D switch mode power supply with PFC), two-way cabinet.

Consists of a 15" (2.5" voice coil) transducer with a 1" compression driver with a polyimide diaphragm mounted on a 90°H x 40°V precise directivity horn. DSP (FIR Filters) controlled with 1400W amplification, 128dB SPL



Specs

Components	LF: 15" 2,5" voice coil, Malt Cross Cooling System	Processing	48 KHz / 56 bit double precision DSP with FIR filters
	HF: 1" Exit compression Driver , 1,7" aluminium voice coil	Control	User control interface with LCD
Frequency Range	60Hz - 20KHz (-10dB)	Control Connections	USB (DSP programming)
Frequency Response	66Hz - 18KHz (± 3dB)	AC Power	90 – 264V. 50/60 Hz with PFC
Max. SPL	128 dB	AC Connections	16 A Neutrik powerCON TRUE1 with looping output
Coverage Angle	90° x 40° constant directivity horn. Rotatable.	Finish	High resistant water-based black paint
Power	1400 W Class D with switching power supply & PFC	Material	15mm Premium birch plywood
LF Amplifier	1 x 800 W	Dimensions	730 x 444 x 433 mm (H x W x D)
HF Amplifier	1 x 600 W	Weight	28.5 Kg (62.8 lbs)

Accessories



AGR-10
Eye bolt



WB-03
Wall bracket



TU-C01
Connecting pole



TU-C02
M20 pole



SB-02
Stand



FD-GXR15
Nylon protection



FC-GXR15X2
Flight case



GXR SERIES

GXR-12

High Output, self powered (class D switch mode power supply with PFC), two-way cabinet.

Consists of a 12" (2.5" voice coil) transducer with a 1" compression driver with a polyimide diaphragm mounted on a 90°H x 40°V precise directivity horn. DSP (FIR Filters) controlled with 1400W amplification, 127dB SPL



Specs

Components	LF: 12", 2.5" voice coil, Malt Cross Cooling System	Processing	96 KHz / 64 bit double precision DSP with FIR filters
	HF: 1" Exit compression Driver , 1,75" aluminium voice coil	Control	User control interface with LCD
Frequency Range	60Hz - 20KHz (-10dB)	Control Connections	USB (DSP programming)
Frequency Response	66Hz-18KHz (± 3dB)	AC Power	90 – 264V. 50/60 Hz with PFC
Max. SPL	127 dB	AC Connections	16 A Neutrik powerCON TRUE1 with looping output
Coverage Angle	90° x 40° constant directivity horn. Rotatable.	Finish	High resistant water-based black paint
Power	1400 W Class D with switching power supply & PFC	Material	15mm Premium birch plywood
LF Amplifier	1 x 800 W	Dimensions	639 x 370 x 386 mm (H x W x D)
HF Amplifier	1 x 600 W	Weight	23.5 Kg (51.7 lbs)



FC-GXR12X2
Flight case



FD-GXR12
Nylon protection



SB-02
Stand



TU-C02
M20 pole



TU-C01
connecting pole



WB-03
Wall bracket



AGR-10
Eye bolt

Accessories



High output, self powered (class D switch mode power supply with PFC), direct radiation sub bass cabinet.

Consists of a 18" (3" voice coil) transducer with triple roll surround. DSP controlled with 1400W amplification, 132dB SPL.



Specs

Components	LF: 1 x 18", 3" voice coil,	Control	User control interface with LCD
Frequency Range	38Hz - 140Hz (-10dB)	Control Connections	USB (DSP programming)
Frequency Response	44Hz - 125Hz (± 3dB)	AC Power	85 – 270V, 50/60 Hz with PFC
Max. SPL	132 dB	AC Connections	16 A Neutrik powerCON TRUE1 with looping output
Coverage Angle	Omnidirectional	Finish	High resistant water-based black paint
Power	1400 W Class D with switching power supply & PFC	Material	18mm Premium birch plywood
LF Amplifier	1 x 1400 W	Dimensions	505 x 505 x 700.5 mm (H x W x D)
Processing	48 KHz / 56 bit double precision DSP	Weight	41 Kg (90 lbs)

Accessories



GR-18WKIT
Wheel kit



FD-GXR18S
Nylon protection



GXR SERIES

High Output, self powered (class D switch mode power supply with PFC), two-way cabinet.

Consists of dual 15" (2.5" voice coil) transducers with a 1.4" compression driver with a PM4 polymer diaphragm mounted on a 60°H x 50°V constant directivity horn. DSP (FIR Filters) controlled with 1400W amplification, 131dB SPL

GXR-215



Specs

Components	LF: 2 x 15" 2,5" voice coil, Malt Cross Cooling System	Processing	48 KHz / 56 bit double precision DSP with FIR filters
	HF: 1'4" Exit compression Driver , 1,75" aluminium voice coil	Control	User control interface with LCD
Frequency Range	55Hz - 20 KHz (-10dB)	Control Connections	USB (DSP programming)
Frequency Response	60Hz - 18 KHz (± 3dB)	AC Power	85 – 270V. 50/60 Hz with PFC
Max. SPL	131dB	AC Connections	16 A Neutrik powerCON TRUE1 with looping output
Coverage Angle	60° H x 50° V constant directivity horn.	Finish	High resistant water-based black paint
Power	1400 W Class D with switching power supply & PFC	Material	15mm Premium birch plywood
LF Amplifier	1 x 800 W	Dimensions	1140 x 444 x 486 mm (H x W x D)
HF Amplifier	1 x 350 W @ 8 ohm	Weight	45 Kg (99 lbs)

Accessories



FD-GXR215
Nylon protection



AGR-10
Eye bolt

You can find us in all these social media:



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

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info@lynxproaudio.com

