GXR SERIES **CATALOGUE**

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 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.

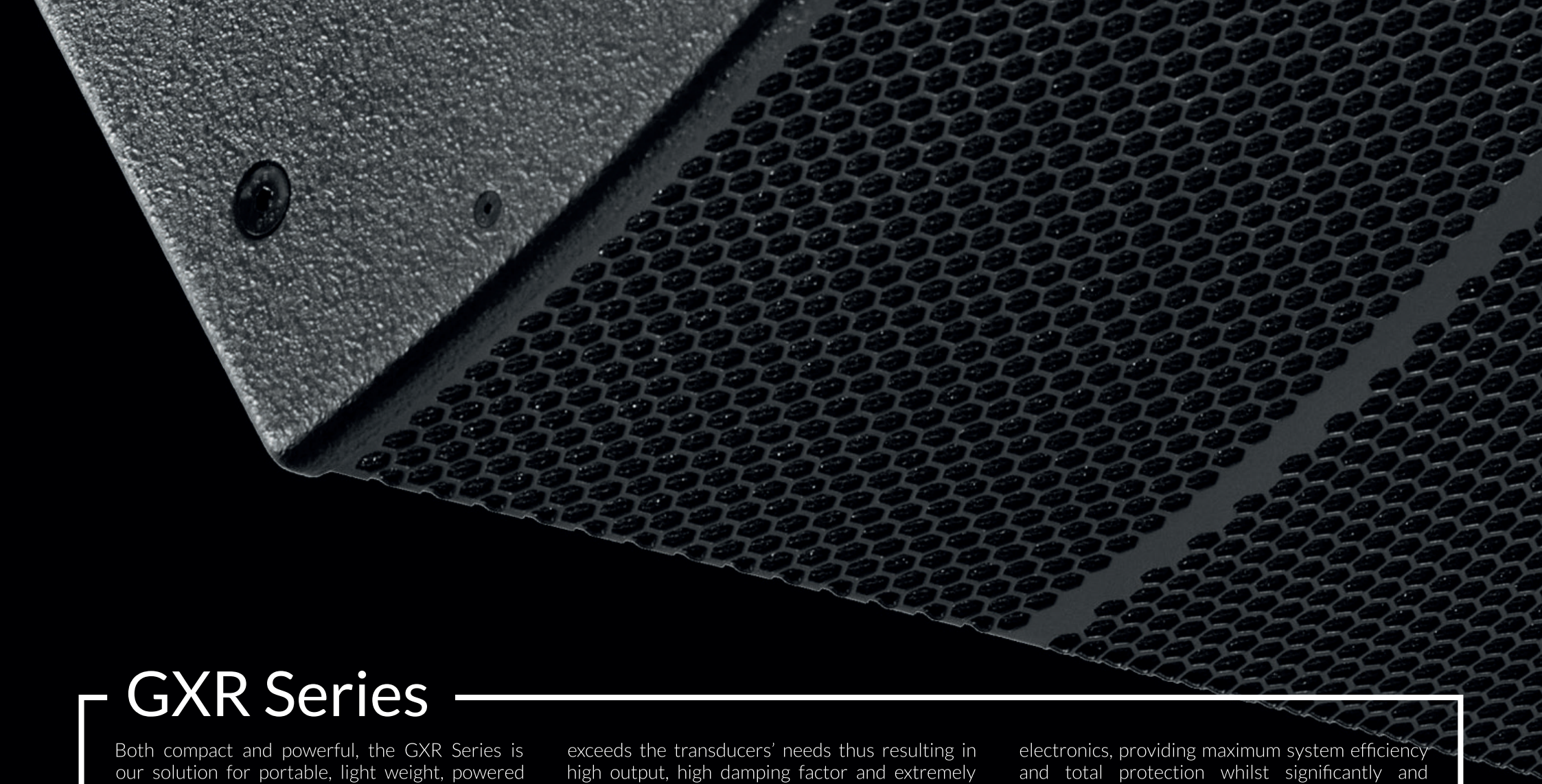
CABINET UPDATER

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.



GXR Series

Both compact and powerful, the GXR Series is our solution for portable, light weight, powered speakers. This series has been designed to offer first class portable systems as economically as possible without compromising at all on quality. The series incorporates one line array module (dual 10") three full range, two-way models (12", 15", dual 15") and three subwoofers (18", dual 15" & dual 18").

All models are self-powered (Class D) with switching power supply. 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 also 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 polyurea 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-LA10A

The GXR-LA10A is the ideal solution for both install projects and live events where a compact but powerful line array is required.

Bi-amplified, two-way, class D enclosure that delivers high power levels from a very compact format. It incorporates two 10” (2” coil) Low/Mid speakers whilst the high frequencies have a 1.4” output compression driver coupled to a waveguide offering 100 ° H x 10 ° V coverage.

This cabinet offers very easy to use rigging hardware which is both quick and reliable. The system is very easy to use and control without the need for any external amps. To extend the low frequency response there are 2 options. The GXRD15A is designed to be flown or stacked in perfect combination with the GXR-LA10A units and when extreme low frequencies are required the GXR-D18A is recommended.

GXR-LA210A

Technical Data

- Class D Powered (bi-amplified)
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- Digital inclinometer system
- FIR linear phase filtering
- Online monitoring available
- Two way active system

The GXR-LA210A is a self-powered (Class D), two-way enclosure that delivers high power levels from a very compact format. It uses two 10" (2"coil) speakers for the Low/Mid frequencies. For the high frequencies it uses a 1.4" output compression driver coupled to a waveguide offering 100° H x 10° V coverage.

DSP (FIR filters) controlled with 1400W amplification, 135 dB SPL.

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

	GXR-LA210A
Components	LF: 2 x 10", 2" voice coil, Malt Cross Cooling System HF: 1.4" Exit throat, 3" voice coil with titanium diaphragm
Frequency Range	60 Hz - 20 KHz (-10dB)
Frequency Response	68 Hz – 18 KHz (± 3 dB)
Max. SPL	135 dB
Coverage Angle	100° H x 10° V
Power	1400 W Class D with switching power supply & PFC
LF Amplifier	1 x 800 W RMS, 1600 W peak
HF Amplifier	1 x 600 W RMS, 1200 W peak
Processing	96 KHz / 64 bit double-precision, DSP with FIR filter linear phase
Control	User control interface with 2.8" IPS screen
Control Connections	Ethernet (OCS) / USB (DSP updating)
AC Power	90 – 264V. 50/60 Hz with PFC
AC Connections	16A Neutrik powerCon TRUE1 with looping
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	298 x 790 x 436 mm (H x W x D)
Weight	31 Kg (68.2 lbs)

GXR Series

GXR-D15A

Technical Data

- Class D Powered
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- Online monitoring available

	GXR-D15A
Components	LF: 2 x 15" (4" voice coil), neodymium magnetic assembly
Frequency Range	30Hz - 140Hz (-10dB) processed
Frequency Response	35 Hz – 125 Hz (± 3dB) processed
Max. SPL	134 dB / 140 dB peak
Coverage Angle	Omnidirectional
Power	3000W Class D with switching power supply & PFC
LF Amplifier	1 x 3000 W
Processing	96 KHz / 64 bit double-precision, DSP with FIR filter linear phase
Control	User control interface with 2.8" IPS screen
Control Connections	USB (DSP updating) / Ethernet (OCS)
Input	Analog / AES3 optional
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	505 x 790 x 690 mm (H x W x D)
Weight	63 Kg (139 lbs)

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

The GXR-D15A can be flown together with the GXR-LA10A.

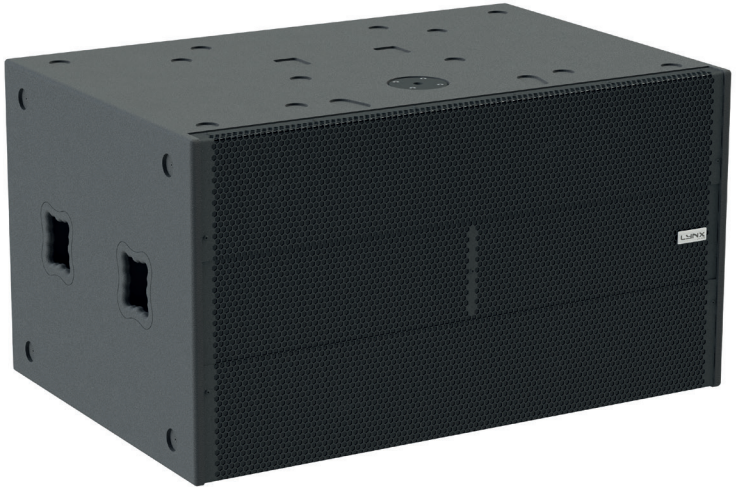
Consists of dual 15" neodymium low frequencies transducers (4" voice coil), direct radiation configuration. DSP controlled with 2400W amplification, 134 dB SPL.

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

GXR Series

GXR-D18A

Technical Data



- Class D Powered
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- Online monitoring available

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.

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

	GXR-D15A
Components	LF: 2 x 18", 4" voice coil, neodymium magnetic assembly
Frequency Range	30 Hz – 120 Hz (-10dB)
Frequency Response	35 Hz - 100 Hz (± 3dB)
Max. SPL	135 dB / 141 dB peak
Coverage Angle	Omnidirectional
Power	3000W Class D with switching power supply & PFC
LF Amplifier	1 x 3000 W
Processing	96 KHz / 64 bit double-precision, DSP with FIR filter linear phase
Control	User control interface with 2.8" IPS screen
Control Connections	USB (DSP updating) / Ethernet (OCS)
Input	Analog / AES3 optional
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	605 x 1100 x 750 mm (H x W x D)
Weight	92 kg (202 lbs)

GXR-215

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

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.

Applications: theatres & auditoriums, houses of worship, small/ middle sized clubs & disco, smaller live stages / events, front fill / side fill reinforcement and portable sound reinforcement..

GXR Series

Technical Data

	GXR-215
Components	LF: 2 x 15" 2,5" voice coil, Malt Cross Cooling System HF: 1'4" Exit compression Driver , 1,75" aluminium voice coil
Frequency Range	55Hz - 20 KHz (-10dB)
Frequency Response	60Hz - 18 KHz (± 3dB)
Max. SPL	131 dB
Coverage Angle	60° H x 50° V constant directivity horn.
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	85 – 270V. 50/60 Hz with PFC
AC Connections	16 A Neutrik powerCON TRUE1 with looping output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	1140 x 444 x 486 mm (H x W x D)
Weight	45 Kg (99 lbs)

GXR-15

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

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.

Applications: theatres & auditoriums, houses of worship, small/ middle sized clubs & disco, smaller live stages / events, front fill / side fill reinforcement and portable sound reinforcement..

Technical Data

	GXR-15
Components	LF: 15" 2,5" voice coil, Malt Cross Cooling System HF: 1" Exit compression Driver , 1,7" aluminium voice coil
Frequency Range	60Hz - 20KHz (-10dB)
Frequency Response	66Hz - 18KHz (± 3dB)
Max. SPL	128 dB
Coverage Angle	90° x 40° constant directivity horn. Rotatable.
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	16 A Neutrik powerCON TRUE1 with looping output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	730 x 444 x 433 mm (H x W x D)
Weight	28.5 Kg (62.8 lbs)

GXR-12

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

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.

Applications: theatres & auditoriums, houses of worship, small/ middle sized clubs & disco, smaller live stages / events, front fill / side fill reinforcement and portable sound reinforcement..

Technical Data

	GXR-12
Components	LF: 12". 2,5" voice coil, Malt Cross Cooling System HF: 1" Exit compression Driver , 1,75" aluminium voice coil
Frequency Range	60Hz - 20KHz (-10dB)
Frequency Response	66Hz - 18KHz (± 3dB)
Max. SPL	127 dB
Coverage Angle	90° x 40° constant directivity horn. Rotatable.
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	16 A Neutrik powerCON TRUE1 with looping output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	639 x 370 x 386 mm (H x W x D)
Weight	23.5 Kg (51.7 lbs)

GXR-18S

- Class D Powered
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- Online monitoring available
- Three way active system

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

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

Applications: theatres & auditoriums, houses of worship, small/ middle sized clubs & disco, smaller live stages / events, front fill / side fill reinforcement and portable sound reinforcement.

Technical Data

	GXR-18S
Components	LF: 1 x 18". 3" voice coil
Frequency Range	38Hz - 140 Hz (-10dB)
Frequency Response	44Hz - 125 Hz (± 3dB)
Max. SPL	132 dB
Coverage Angle	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	85 – 270V. 50/60 Hz with PFC
AC Connections	16 A Neutrik powerCON TRUE1 with looping output
Finish	Polyurea coating high grade resistant paint
Material	18 mm Premium birch plywood
Dimensions	505 x 505 x 700 mm (H x W x D)
Weight	41 Kg (90 lbs)

Super Penguin Celebrity Game in Shanghai, China

This event brings together entertainment celebrities and professional basketball players and is one of the most watched. 32 LX-V12 and 16 GXR-LA10A were flown at the stadium.

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