



# ADP 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.

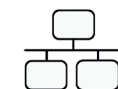
This enables the use of high precision filters with extremely low distortion delivering unbeatable sound clarity and quality.



## 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.





# ADP Series

The ADP range of cabinets is designed for both portable and permanent installations. They offer one of the most technologically advanced sound products available on the market, with a tour-friendly range of powered cabinets designed for quick and easy set-ups and with no need for heavy external amplification racks. The ADP Series offer high levels of SPL and sound clarity whilst maintaining a compact and portable design, with an unbeatable power to size ratio.

All the transducers are custom made with neodymium magnets, being much lighter than a conventional speaker. The ADP units use Class D amplification 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. Furthermore a Digital Signal Processor is integrated in to each cabinet, providing maximum system efficiency and total protection.

Every box comes with 20 presets which include full-range, various crossovers and a flat preset so that the user can adjust the parameters manually. Ethernet capabilities are also available allowing the user to monitor and control the cabinet online. The ADP cabinets offer the utmost sound reinforcement reliability, incorporating the latest acoustical and electronic technology and delivering incredible, dynamic sound.



## ADP-215



- Class D Powered (tri-amplified)
- 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), two-way cabinet.

Consists of two 15" neodymium magnet transducers with nomex cones & suspension and a 1.4" exit compression driver with titanium diaphragm, mounted on a 60°H x 50°V constant directivity horn.

DSP (FIR technology) controlled with 2000W amplification, 143dB SPL.

**Applications:** front fill/ side fill/ reinforcement, smaller clubs or discord, smaller live stages or events, compact voice reinforcement and portable installation.

## Technical Data

**ADP-215**

Components	LF/MF: 2 x 15" neodymium HF: 1.4" titanium diaphragm 3" voice coil compression driver
Frequency Range	40 Hz – 20 KHz (-10 dB)
Frequency Response	45 Hz – 18 KHz (± 3 dB)
Max. SPL	140 dB / 143dB peak
Coverage Angle	60°H x 50°V constant directivity horn
Power Amplifier	2000 W Class D
LF/MF Amplifier	2 x 750 W
HF Amplifier	1 x 500 W
Processing	56 bit Lynx DSPB-22 with FIR filters
Cabinet Adjustment	Back panel LCD
Internal Controls	Temperature sensor, Online Control system, Fan Speed
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	230V / 115V selectable. 50/60 Hz 5A
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	1147 x 489 x 415 mm (H x W x D)
Weight	52 kg (114 lbs)







- Class D Powered (tri-amplified)
- 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), two-way cabinet.

Consists of a 15" neodymium magnet transducer with nomex cones and a 1.4" compression driver with a 2.5" voice coil titanium diaphragm mounted on a 80°H x 50°V constant directivity, rotatable horn.

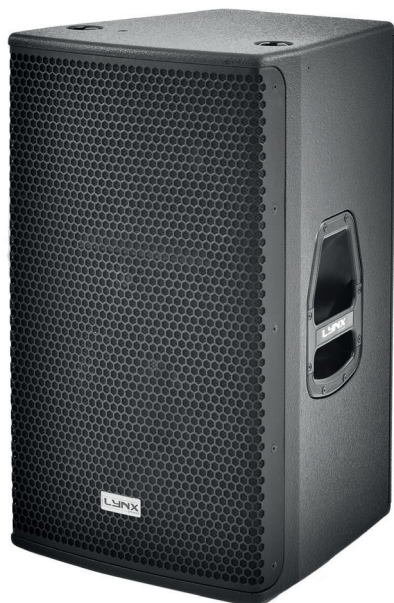
DSP (FIR technology) controlled with 1500W amplification, 136dB SPL.

**Applications:** front fill/ side fill/ reinforcement, smaller clubs or discord, smaller live stages or events, compact voice reinforcement and portable installation.



### ADP-15

Components	LF/MF: 1 x 15" neodymium HF: 1.4" titanium diaphragm 2.5" voice coil
Frequency Range	60 Hz – 20 KHz (-10 dB)
Frequency Response	70 Hz – 18 KHz (± 3 dB)
Max. SPL	133 dB / 136 peak
Coverage Angle	80° H x 50° V rotatable horn
Power Amplifier	1500 W Class D
LF/MF Amplifier	1 x 750 W
HF Amplifier	1 x 750 W
Processing	56 bit Lynx DSPB-22 with FIR filters
Cabinet Adjustment	Back panel LCD
Internal Controls	Temperature sensor, Online Control system, Fan Speed
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	230V / 115V selectable. 50/60 Hz 5A
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	677 x 460 x 431 mm (H x W x D)
Weight	39 Kg (86 lbs)



- Class D Powered (bi-amplified)
- 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), two-way cabinet.

Consists of a 12" (3" voice coil) neodymium magnet transducer with nomex cones and a 1.4" compression driver with a 2.5" voice coil titanium diaphragm mounted on a 80°H x 50°V constant directivity rotatable horn.

DSP (FIR technology) controlled with 1500W amplification, 136dB SPL.

**Applications:** front fill/ side fill/ reinforcement, smaller clubs or discord, smaller live stages or eventes, compact voice reinforcement and portable installation.

### ADP-12

Components	LF/MF: 1 x 12" neodymium (3" Interleaved Sandwich voice coil) HF: 1.4" titanium diaphragm 2.5 voice coil
Frequency Range	60 Hz – 20 KHz (-10 dB)
Frequency Response	65 Hz – 18 KHz (± 3 dB)
Max. SPL	133 dB / 136dB peak
Coverage Angle	80° H x 50° V Rotatable horn
Power Amplifier	1500 W Class D
LF/MF Amplifier	1 x 750 W
HF Amplifier	1 x 750 W
Processing	56 bit Lynx DSPB-22 with FIR filters
Cabinet Adjustment	Back panel LCD
Internal Controls	Temperature sensor, Online Control system, Fan Speed
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	230V / 115V selectable. 50/60 Hz 5A
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	637 x 376 x 411 mm (H x W x D)
Weight	28 kg (62 lbs)







- Class D Powered (bi-amplified)
- 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), two-way cabinet.

Consists of two 6" (1.5" voice coil) neodymium magnet transducers with aluminium demodulating rings and a 1" compression driver with titanium diaphragm, mounted on a 90°H x 60°V rotatable, exponential horn.

DSP (FIR technology) controlled with 1000W amplification, 127dB SPL.

**Applications:** front fill/ side fill/ reinforcement, smaller clubs or discord, smaller live stages or events, compact voice reinforcement and portable installation.



## ADP-26

Components	LF/MF: 2 x 6" neodymium (aluminium demodulating rings) HF: 1" titanium diaphragm compression driver
Frequency Range	65 Hz – 20 KHz (-10 dB)
Frequency Response	75 Hz – 18 KHz (± 3 dB)
Max. SPL	124 dB / 127 peak
Coverage Angle	90° H x 60° V rotatable horn
Power Amplifier	1000 W Class D
LF/MF Amplifier	1 x 500 W
HF Amplifier	1 x 500 W
Processing	56 bit Lynx DSPB-22 with FIR filters
Cabinet Adjustment	Back panel LCD
Internal Controls	Temperature sensor, Online Control system, Fan Speed
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	230V / 115V selectable. 50/60 Hz 5A
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	530 x 222 x 269 mm (H x W x D)
Weight	13kg (28 lbs)

## ADP-212M



- Class D Powered (bi-amplified)
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- FIR linear phase filtering
- Online control available

High output, self powered (class D switch mode power supply) with PFC (Power Factor Correction), two-way stage monitor.

Consists of two 12" transducers with aluminium voice coil and a compression driver with 1.4" titanium diaphragm with 55° conic dispersion.

DSP (FIR technology) controlled with 2250W amplification, 139dB SPL.

**Applications:** reinforcement, stage monitor, portable installation and voice reinforcement.



## Technical Data

## ADP-212M

Components	LF/MF: 2x12" HF: 1.4" titanium diaphragm driver
Frequency Range	55 Hz – 20 KHz (-10 dB)
Frequency Response	60 Hz – 18 KHz (± 3 dB)
Max. SPL	136 dB / 139 dB peak
Coverage Angle	55° H x 55° V
Power Amplifier	2250 W Class D
LF/MF Amplifier	1 x 1500 W
HF Amplifier	1 x 750 W
Processing	56 bit Lynx DSPB-22 with FIR filters
Cabinet Adjustment	Side panel LCD
Internal Controls	Temperature sensor, Online Control system, Fan Speed
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	85V – 270V. 50/60 Hz with PFC 3A
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	445 x 688 x 655 mm (H x W x D)
Weight	42 kg (92 lbs)





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

High output, self powered (Class D switch mode power supply), two-way stage monitor.

Consists of a 12" (3" voice coil) coaxial transducer with demodulating rings and a 3" VC compression driver with a titanium diaphragm and a 40°H x 60°V dispersion horn.

DSP (FIR technology) controlled with 1500W amplification, 132dB SPL.

Applications: reinforcement, stage monitor, portable installation and compact voice reinforcement.

ADP-12M

Components	LF/MF: 1 x 12" coaxial neodymium HF: 3" VC compression driver
Frequency Range	60 Hz – 20 KHz (-10 dB)
Frequency Response	75 Hz – 18 KHz (± 3 dB)
Max. SPL	129 dB / 132 dB peak
Coverage Angle	40° H x 60° V
Power Amplifier	1500 W Class D
LF/MF Amplifier	1 x 750 W
HF Amplifier	1 x 750 W
Processing	56 bit Lynx DSPB-22 with FIR filters
Cabinet Adjustment	Side panel LCD
Internal Controls	Temperature sensor, Online Control system, Fan Speed
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	230V / 115V selectable. 50/60 Hz 5A
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	370 x 470 x 554 mm (H x W x D)
Weight	20 kg (44 lbs)





- Class D Powered
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- High quality components
- Online monitoring available
- Bass reflex sub unit

High output, self powered (Class D switch mode power supply) direct radiation subwoofercabinet.

Consists of an 18" (4" DUO voice coil) neodymium magnet transducer with DCS (Double Conex Spider) technology.

DSP controlled with 1400W amplification with PFC, 136dB SPL.

**Applications:** front fill / side fill / reinforcement, smaller clubs or discos, smaller live stages and events, portable installation.

#### ADP-18S

Components	1 x 18" Woofer with Nomex cone
Frequency Range	30 Hz – 250 Hz (-10 dB)
Frequency Response	35 Hz – 150 Hz (± 3 dB)
Max. SPL	133 dB/ 136 dB peak
Coverage Angle	Omnidirectional
Power Amplifier	1000 W Class D switching power supply & PFC
Configuration	Bass-reflex, Direct radiation
Processing	56 bit Lynx DSPB-22
Cabinet Adjustment	Back panel LCD
Internal Controls	Temperature sensor, Online Control system
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	90 – 264V. 50/60 Hz with PFC
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	18mm Premium birch plywood
Dimensions	707 x 525 x 717 mm (H x W x D)
Weight	51 kg (112 lbs)





# ADP-12S



- Class D Powered
- Integrated Digital Processing
- Internal temperature control
- Electronic protection
- High quality components
- Online monitoring available
- Bass reflex sub unit

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

Consists of an 12" (4" ISV voice coil) neodymium magnet transducer with double spider for improved linearity.

DSP controlled with 1400W amplification with PFC, 134dB SPL.

**Applications:** front fill / side fill / reinforcement, smaller clubs or discos, smaller live stages and events, portable installation.



## Technical Data

### ADP-12S

Components	1 x 12" Neodymium Woofer with Nomex cone
Frequency Range	40 Hz – 180 Hz (-10 dB)
Frequency Response	45 Hz – 150 Hz (± 3 dB)
Max. SPL	131 dB/ 134 dB peak
Coverage Angle	Omnidirectional
Power Amplifier	1000 W Class D with switching power supply
Configuration	Bass reflex, Direct radiation
Processing	56 bit Lynx DSPB-22
Cabinet Adjustment	Back panel LCD
Internal Controls	Temperature sensor, Online Controlsystem
Control Connections	Ethernet (OCS) optional, USB (DSP programming)
AC Power	90 – 264V. 50/60 Hz with PFC
AC Connections	16A Neutrik powerCON with link output
Finish	Polyurea coating high grade resistant paint
Material	15mm Premium birch plywood
Dimensions	495 x 380 x 644 mm (H x W x D)
Weight	29 kg (64 lbs)



### National Maritime Museum in South Korea

This is the third largest museum in South Korea. It is located in Busan and its main auditorium is equipped with ADP-15, QB-8, ADP-15M and ADP-18S.



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[www.lynxproaudio.com](http://www.lynxproaudio.com)

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