



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



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 SERIES

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.

ADP-215



Specs

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



FD-ADP215
Nylon protection



FD-ADP215NL
Rain cover



SP-LXADP
Connection plate



SC-FC2
Heavyweight install stud

Accessories



ADP-15



ADP SERIES



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



Specs

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

Accessories



CS-1215
Cluster



SB-02
Stand



SC-FC1
Lightweight install stud



TU-C01
Connecting pole



TU-C02
Pole support



VSM-V1
Top hat



WB-03
Wall bracket



FD-ADP15NL
Rain cover



ADP SERIES

ADP-12

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.



Specs

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



FD-ADP12NL
Rain cover



WB-03
Wall bracket



VSM-V1
Top hat



TU-C02
Pole support



TU-C01
Connecting pole



SC-FC1
Lightweight install stud



SB-02
Stand



CS-1215
Cluster support

Accessories



ADP-26



ADP SERIES



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.



Specs

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

Accessories



AGR-6
Eye bolt



SB-02
Stand



TU-C01
connecting pole



TU-C02
pole support



VSM-V1
Top hat



WB-03
Wall bracket



ADP SERIES

ADP-212M

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.



Specs

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

Accessories



FC-212MX2
Flight case



ADP-15M

ADP SERIES



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

Consists of a 15" coaxial neodymium magnet transducer with nomex cone and suspension.

Compression driver with a 1.4" titanium diaphragm with 90° conic dispersion.

DSP (FIR technology) controlled with 1500W amplification, 133dB SPL.



Specs

| | | | |
|---------------------------|---|----------------------------|--|
| Components | LF/MF 1×15" neodymium + 1.4" titanium diaphragm HF driver | Cabinet adjustment | side panel LCD |
| Frequency range | 60 Hz – 20 KHz (-10 dB) | Internal Controls | Temperature sensor, Online Control system, Fan speed |
| Frequency Response | 70 Hz – 18 KHz (± 3 dB) | Control Connections | Ethernet (OCS) optional, USB (DSP program.) |
| Max. SPL | 130 dB / 133dB peak | AC Power | 230V / 115V selectable. 50/60 Hz 5A |
| Coverage angle | 90° H x 90° V | AC Connections | 16A Neutrik powerCON with link output |
| Power Amplifier | 1500 W Class D | Material | 15mm Premium birch plywood |
| LF/MF amplifier | 1 x 750 W | Finish | High resistant water-based black paint |
| HF amplifier | 1 x 750 W | Dimensions | 434 x 620 x 618 mm (H x W x D) |
| Processing | 56 bit Lynx DSPB-22 with FIR filters | Weight | 26 kg (57 lbs) |

Accessories



FC-15MX2
Flight case



ADP SERIES

ADP-12M

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.



Specs

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

Accessories



FC-12MX2
Flight case



ADP-18S



ADP SERIES



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

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



Specs

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

Accessories



TU-C01
Connecting pole



TU-C02
Pole support



VSM-V1
Top hat



VSM-V2
Connector plate



FD-ADP18SNL
Rain cover



ADP SERIES

ADP-12S

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



Specs

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



FD-ADP12SNL
Rain cover



VSM-V2
Connector plate



VSM-V1
Top hat



TU-C02
Pole support



TU-C01
Connecting pole

Accessories

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 receive the printed version of this catalogue just click here:
info@lynxproaudio.com

