



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



# HR SERIES

The HR Series has been designed to offer the utmost sound quality for installations. The range consists of 10 different two-way, full-range and 4 sub-bass options, all delivering high output whilst retaining exceptional clarity, efficiency and guaranteeing lower distortion whilst delivering superior reliability and sonic performance.

All full range models are either bi-amp or passive selectable. For greater flexibility the 12" and 15" full range cabinets are available in 4 different options depending on the coverage pattern and power required for the installation and for sub-bass reinforcement two different dual 18" are also available.

After considerable testing only the best components have been selected for the HR series. Materials such as hexacone, neodymium, nomex are all employed in our LF/MF drivers to ensure superior performance. The high frequency drivers all use either mylar, titanium or polyimide each with their own unique benefits and qualities whilst our aluminium horns offer improved compression driver cooling and very low distortion at high pressure levels.

All HR Series 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.

## HR SERIES

High performance, ultra-compact, full range, two way bi-amp/ passive cabinet.

It consists of a 15" transducer and a 1.4" high frequency compression driver. They offer 2 dispersion options. The model HR-1564/7 provides a narrow dispersion of 60° x 40° (rotatable) and the model HR-1596/7 offers a wide dispersion of 90° x 60° (rotatable).

129dB SPL (1400W program)



## HR-1564/7 & HR-1596/7



### Specs

<b>Components</b>	LF: 15". 3.5" aluminium voice coil, waterproof front side cone treatment, neodymium magnet HF: 1.4" Exit compression Driver, 2.5" aluminium voice coil, Titanium diaphragm		<b>Rated power (AES)</b>	Passive: 700 W (1400 W prog, 2800 W peak) Bi- Amp LF: 700 W (1400 W prog, 2800 W peak) Bi-Amp HF: 80 W (160 W program, 320W peak)
<b>Frequency Range</b>	58 Hz - 20 KHz (-10dB)		<b>Crossover</b>	Bi-Amp / Passive (Selectable)
<b>Frequency Response</b>	64 Hz - 18 KHz (± 3dB)		<b>Nominal Impedance</b>	8 Ohms Passive / Biamp LF 8 Ohms, HF 8 Ohms.
<b>Sensitivity</b>	Passive Mode: 94 dB (1W@1m)		<b>Connectors</b>	2 x Neutrik Speakon NL4MP
<b>Max. SPL</b>	Passive Mode: 123dB - 129dB Peak		<b>Finish</b>	High resistant water-based black paint or RAL
	Bi-Amp LF: 126dB - 132dB Peak		<b>Material</b>	15mm Premium birch plywood
	Bi-Amp HF: 127dB - 133dB Peak		<b>Dimensions</b>	790 x 444,5 x 541 mm (H x W x D)
<b>Coverage</b>	Constant directivity horn (Rotatable)		<b>Weight</b>	32 Kg ( 70.5 lbs)
	90° x 60° (HR-1596/7)	60° x 40° (HR-1564/7)		



SC-FC2  
Heavyweight install stud



SC-FC1  
Lightweight install stud



AGR-10  
Eye bolt

### Accessories



# HR-1264/7 & HR-1296/7

## HR SERIES



High performance, ultra-compact, full range, two way bi-amp/passive cabinet.

It consists of a 12" transducer and a 1.4" high frequency compression driver. They offer 2 dispersion options. The model HR-1264/7 provides a narrow dispersion of 60° x 40° (rotatable) and the model HR-1296/7 offers a wide dispersion of 90° x 60° (rotatable).

129dB SPL (1400W program).



### Specs

Components	LF: 12", 3.5" Aluminium voice coil, waterproof front side cone treatment, neodymium magnet		Rated power (AES)	Passive mode: 700 W (1400 W program, 2800 W peak)
	HF: 1.4" Exit compression Driver, 2.5" aluminium voice coil, Titanium diaphragm			Bi- Amp LF: 700 W (1400 W program, 2800 W peak)
Frequency Range	59 Hz - 20 KHz (-10dB)			Bi-Amp HF: 80 W (160 W program, 320W peak)
Frequency Response	65 Hz - 18 KHz (± 3dB)		Crossover	Bi-Amp / Passive (Selectable)
Sensitivity	Passive Mode: 94 dB (1W@1m)		Nominal Impedance	8 Ohms passive / Biamp. LF 8 Ohms HF 8 Ohms
Max. SPL	Passive Mode: 123dB - 129dB Peak		Connectors	2 x Neutrik Speakon NL4MP
	Bi-Amp LF: 125dB - 131dB Peak		Finish	High resistant water-based black paint or RAL
	Bi-Amp HF: 127dB - 133dB Peak		Material	15mm Premium birch plywood
Coverage	Constant directivity horn (Rotatable)		Dimensions	705 x 377 x 495 mm (H x W x D)
	90° x 60° (HR-1296/7)	60° x 40° (HR-1264/7)	Weight	26 Kg ( 57 lbs)

### Accessories



AGR-10  
Eye bolt



SC-FC1  
Lightweight install stud



SC-FC2  
Heavyweight install stud

## HR SERIES

High performance, ultra-compact, full range, two way bi-amp/ passive cabinet.

It consists of a 15" transducer and a 1" high frequency compression driver. They offer 2 dispersion options. The model HR-1564/5 provides a narrow dispersion of 60° x 40° (rotatable) and the model HR-1596/5 offers a wide dispersion of 90° x 60° (rotatable).

129dB SPL (1000W program).



## HR-1564/5 & HR-1596/5



### Specs

Components	LF: 15", 2.5" voice coil, Malt Cross Cooling System		Rated power (AES)	Passive mode: 500 W (1000 W program, 2000 W peak)
	HF: 1" Exit compression Driver, 1.75" aluminium voice coil			Bi-Amp LF: 500 W (1000 W program, 2000 W peak)
Frequency Range	58 Hz - 20 KHz (-10dB)			Bi-Amp HF: 60 W (120 W program, 240 W peak)
Frequency Response	63 Hz - 18 KHz (± 3dB)		Crossover	Bi-Amp / Passive (Selectable)
Sensitivity	Passive Mode: 96 dB (1W@1m)		Nominal Impedance	8 Ohms passive / Biamp. LF 8 Ohms HF 8 Ohms
Max. SPL	Passive Mode: 123dB - 129dB Peak		Connectors	2 x Neutrik Speakon NL4MP
	Bi-Amp LF: 125dB - 131dB Peak		Finish	High resistant water-based black paint or RAL
	Bi-Amp HF: 126dB - 132dB Peak		Material	15mm Premium birch plywood
Coverage	Constant directivity horn (Rotatable)		Dimensions	790 x 444,5 x 541 mm (H x W x D)
	90° x 60° (HR-1596/5)	60° x 40° (HR-1564/5)	Weight	30 Kg ( 66 lbs)



AGR-10  
Eye bolt

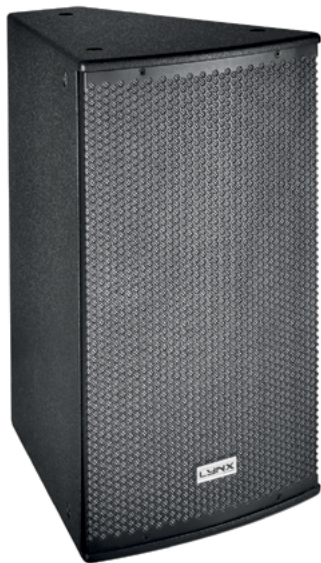
### Accessories





# HR-1264/5 & HR-1296/5

## HR SERIES



High performance, ultra-compact, full range, two way bi-amp/ passive cabinet.

It consists of a 12" transducer and a 1" high frequency compression driver. They offer 2 dispersion options. The model HR-1264/5 provides a narrow dispersion of 60° x 40° (rotatable) and the model HR-1296/5 offers a wide dispersion of 90° x 60° (rotatable).

127dB SPL (1000W program).



### Specs

Components	LF: 12", 2.5" voice coil, Malt Cross Cooling System		Rated power (AES)	Passive mode: 500 W (1000 W program, 2000 W peak)
	HF: 1" Exit compression Driver, 1.75" aluminium voice coil			Bi-Amp LF: 500 W (1000 W program, 2000 W peak)
Frequency Range	60 Hz - 20 KHz (-10dB)			Bi-Amp HF: 60 W (120 W program, 240 W peak)
Frequency Response	65 Hz - 18 KHz (± 3dB)		Crossover	Bi-Amp / Passive (Selectable)
Sensitivity	Passive Mode: 94 dB (1W@1m)		Nominal Impedance	8 Ohms passive / Biamp. LF 8 Ohms HF 8 Ohms
Max. SPL	Passive Mode: 121dB - 127dB Peak		Connectors	2 x Neutrik Speakon NL4MP
	Bi-Amp LF: 124dB - 130dB Peak		Finish	High resistant water-based black paint or RAL
	Bi-Amp HF: 126dB - 132dB Peak		Material	15mm Premium birch plywood
Coverage	Constant directivity horn (Rotatable)		Dimensions	705 x 377 x 495 mm (H x W x D)
	90° x 60° (HR-1296/5)	60° x 40° (HR-1264/5)	Weight	25 Kg ( 55 lbs)

### Accessories



AGR-10  
Eye bolt





# HR SERIES

HR-28

High performance, ultra-compact, full range, two way bi-amp/ passive cabinet.

It consists of two 8" hexacone transducers and a 1" high frequency compression driver. It offers a wide dispersion of 90° x 60° and 126dB SPL (1000W program).



## Specs

<b>Components</b>	LF: 2 x 8", 2" aluminium voice coil, hexacone cone	<b>Rated power (AES)</b>	Passive mode: 500 W , (1000 W program, 2000 W peak)
	HF: 1" Exit compression Driver, 1.75" aluminium voice coil, Polyester diaphragm		Bi-Amp LF: 500 W (1000 W program, 2000 W peak)
<b>Frequency Range</b>	54 Hz - 20 KHz (-10dB)	<b>Crossover</b>	Bi-Amp HF: 70 W (140 W program, 280 W peak)
<b>Frequency Response</b>	60 Hz - 18 KHz (± 3dB)	<b>Nominal Impedance</b>	Bi-Amp / Passive (Selectable)
<b>Sensitivity</b>	Passive Mode: 93 dB (1W@1m)	<b>Connectors</b>	4 Ohms passive / Biamp. LF 4 Ohms HF 4 Ohms
<b>Max. SPL</b>	Passive mode: 120dB - 126dB Peak	<b>Finish</b>	2 x Neutrik Speakon NL4MP
	Bi-Amp LF: 120dB - 126dB Peak	<b>Material</b>	High resistant water-based black paint or RAL
	Bi-Amp HF: 125dB - 131dB Peak	<b>Dimensions</b>	15mm Premium birch plywood
<b>Coverage</b>	90° x 60° (Rotatable)	<b>Weight</b>	665 x 279 x 298 mm (H x W x D)
			17 Kg ( 37 lbs)



HBR-28  
Horizontal bracket



AGR-10  
Eye bolt

## Accessories



# HR-26

## HR SERIES



High performance, ultra-compact, full range, two way bi-amp/ passive cabinet.

It consists of two 6.5" transducers (at 8ohm impedance) and a 1" high frequency compression driver.

It offers a wide dispersion of 90° x 60° and 122dB SPL (800W program)



### Specs

Components	LF: 2 x 6.5", 2" voice coil	Rated power (AES)	Passive mode: 400 W (800 W program, 1600 W peak)
	HF: 1" Exit compression Driver , 1.75" aluminium voice coil, PM-4 polymer diaphragm		Bi-Amp LF: 400 W (800 W program, 1600 W peak)
			B-Amp HF: 70 W (140 W program, 280 W peak)
Frequency Range	72 Hz - 20 KHz (-10dB)	Crossover	Bi-Amp / Passive (Selectable)
Frequency Response	78 Hz - 18KHz (± 3dB)	Nominal Impedance	8 Ohms - also available in 4 Ohms
Sensitivity	Passive mode: 90 dB (1W@1m)	Connectors	2 x Neutrik Speakon NL4MP
Max. SPL	Passive mode: 117 dB - 122 dB peak	Finish	High resistant water-based black paint or RAL
	Bi-Amp LF: 119 dB - 125 dB peak	Material	15mm Premium birch plywood
	Bi-Amp HF: 125 dB - 131 dB peak	Dimensions	249 x 568 x 252 mm ( H x W x D)
Coverage	80° H x 60° V Constant directivity horn.	Weight	15 Kg ( 33 lbs)

### Accessories



AGR-10  
Eye bolt



HBR-26  
Horizontal bracket



## HR SERIES

High power, sub-bass cabinet with dual 18" low frequency transducers in bass reflex, direct radiation configuration. 145dB SPL (7200W Program)

HR-218/36



### Specs

<b>Components</b>	2 x 18", 4" tetracoil dual voice coil	<b>Crossover</b>	Active
<b>Frequency Range</b>	29 Hz - 200 Hz (-10dB)	<b>Nominal Impedance</b>	4 Ohms
<b>Frequency Response</b>	34 Hz - 200 Hz (± 3dB)	<b>Connectors</b>	2 x Neutrik Speakon NL4MP
<b>Sensitivity</b>	103 dB (1W@1m) π	<b>Finish</b>	High resistant water-based black paint or RAL
<b>Max. SPL</b>	139 dB / 145 dB Peak	<b>Material</b>	18mm Premium birch plywood
<b>Coverage</b>	Omnidirectional	<b>Dimensions</b>	585 x 1080 x 781 mm (H x W x D)
<b>Rated power ( AES)</b>	3600 W (7200 W program, 14400 W peak)	<b>Weight</b>	82 Kg ( 180 lbs)



# HR-218/12



## HR SERIES

Medium power, sub-bass cabinet with dual 18" low frequency transducers in bass reflex, direct radiation configuration. 142dB SPL (2400W Program)



### Specs

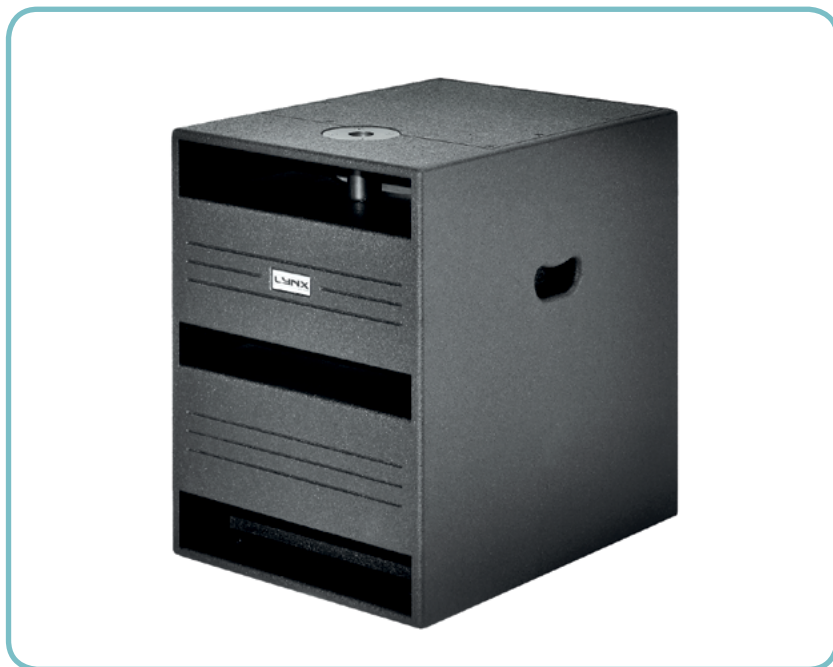
Components	2 x 18", 3" copper voice coil	Crossover	Active
Frequency Range	40 Hz - 200 Hz (-10dB)	Nominal Impedance	4 Ohms
Frequency Response	46 Hz - 200 Hz (± 3dB)	Connectors	2 x Neutrik Speakon NL4MP
Sensitivity	105 dB (1W@1m) π	Finish	High resistant water-based black paint or RAL
Max. SPL	136 dB - 142 dB Peak	Material	18mm Premium birch plywood
Coverage	Omnidirectional	Dimensions	585 x 1080 x 624 mm (H x W x D)
Rated power ( AES)	1200 W (2400 W program, 4800 W peak)	Weight	68 Kg ( 150 lbs)



# HR SERIES

HR-215S

High power, ultra compact, sub-bass cabinet with two 15" low frequency transducers with rubber suspension in triple band-pass configuration. 139dB Peak (4000W program)



## Specs

<b>Components</b>	LF 2 x 15" transducers	<b>Crossover</b>	Active
<b>Frequency Range</b>	30 Hz – 160 Hz (-10dB)	<b>Impedance</b>	4 Ohm
<b>Frequency Response</b>	35 Hz – 150 Hz (± 3dB)	<b>Connectors</b>	2 x Neutrik Speakon NL4MP
<b>Sensitivity</b>	100 dB (1W@1m) π	<b>Finish</b>	High resistant water-based black paint or RAL
<b>Max. SPL</b>	133 dB - 139 dB Peak	<b>Material</b>	18mm Premium birch plywood
<b>Coverage</b>	Quasi Omnidirectional	<b>Dimensions</b>	644 x 463 x 600 mm (H x W x D)
<b>Rated power ( AES)</b>	2000 W (4000 W program, 8000 W Peak)	<b>Weight</b>	59 kg (130 lbs)



TU-C02  
M20 pole



TU-C01  
connecting pole



VSM-V2  
Connector plate



VSM-V1  
Top hat

## Accessories



# HR-18/6

# HR SERIES

Medium power, sub-bass cabinet with one 18" low frequency in bass reflex, direct radiation configuration. 135dB SPL (1200W Program)



## Specs

Components	1 x 18", 3" copper voice coil	Crossover	Active
Frequency Range	40 Hz - 200 Hz (-10dB)	Nominal Impedance	8 Ohms
Frequency Response	46 Hz - 200 Hz (± 3dB)	Connectors	2 x Neutrik Speakon NL4MP
Sensitivity	101 dB (1W@1m) π	Finish	High resistant water-based black paint or RAL
Max. SPL	129 dB - 135 dB Peak	Material	18mm Premium birch plywood
Coverage	Omnidirectional	Dimensions	511 x 505x 681 mm (H x W x D)
Rated power ( AES)	600 W (1200 W program, 2400 W peak)	Weight	32 Kg ( 70.5 lbs)





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

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[info@lynxproaudio.com](mailto:info@lynxproaudio.com)

