



A culture of sound

Product Guide



ARK Series

The ARK-70 and ARK-20 are designed, assembled and manufactured by Lynx Pro Audio offering seven different models with 2 or 4 inputs each and with up to 8 outputs (analogue or digital and Ethersound optional).

Double Dynamics are standard in all ARK-70 models. An RMS limiter is used to adjust the transducer reproduction level, maintaining the original dynamics whilst at the same time respecting the original transients and achieving a better acoustical result. A Peak limiter controls the movement of the speaker, protecting it from any damage and also reducing distortion caused by over-excursion.

With 0.6ms fixed latency the ARK-70 is one of the lowest latency processors available. All ARK units deliver a wide dynamic range of 120dB, high performance Cirrus Logic AD & DA 24bit converters running at 96kHz. The internal 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.

The ARK-70 also offer atmospheric compensation – essential when working outdoors where temperature and humidity varies causing noticeable loss in high frequency over long distances.

The OCS software offers fast user access to make each processing zone simpler for the user and all units can import/export complete channel parameters from/to Lynx's Rainbow Prediction Software enabling the user to apply a complete signal process with just one click.

Other features include gain, delay, 29 filter bands of graphic/parametric EQ, crossover filters and many more..

ARK-70



ARK-20



	Input	
20 K Ohm Balanced (10 K Ohm unbalanced).	Impedance:	20 K Ohm Balanced (10 K Ohm unbalanced).
Balanced XLR (pin 2 +).	Connector:	Balanced XLR (pin 2 +).
24 bit-192KHz, 512x Oversampling.	AD converter:	24 bit-192KHz, 512x Oversampling.
120 dB.	Dynamic Range:	120 dB.
+19 dBu (balanced).	Max. level:	+19 dBu (balanced).
Optional.	Digital AES/EBU	
4/6/8	Outputs	4/6/8
50 Ohm Balanced (25 Ohm unbalanced).	Impedance:	50 Ohm Balanced (25 Ohm unbalanced).
Balanced XLR (pin 2 +).	Connector:	Balanced XLR (pin 2 +).
24 bit-192KHz, 512x Oversampling.	DA converter:	24 bit-192KHz, 512x Oversampling.
120 dB.	Dynamic Range:	120 dB.
+18 dBu (balanced).	Max. level:	+18 dBu (balanced).





ARK-70

ARK-20

Audio		
10 Hz – 24 KHz.	Frequency Range	10 Hz – 24 KHz.
<0,0018%.	THD (%)	<0,0018%.
Internal resolution with 56 bit double precision in floating point.	DSP Process	Internal resolution with 56 bits double precision in floating point.
0.6 miliseconds.	Propagation Delay	0.6 miliseconds.
Equalisation		
29 GEQ Bands or 29 parametric filters per input.	Input GEQ	29 GEQ Bands 1/3 oct.
9 per way.	PEQ	output 9 per way.
Up to 48 dB/oct.	Crossover	Up to 48 dB/oct.
Delay		
54 / 190 milisec.	Input	54 milisec
20.8 milisec for Speaker alignment.	Output	20.8 milisec for Speaker alignment
1 per output.	RMS Limiter-Compressor	1 per output.
+18dBu to -50dBu.	Threshold	+18dBu to -50dBu
1:1 to 1:10 (1:infinite with limiter).	Compression Ratio	1:1 to 1:10 (1:infinite with limiter)
1 per output.	Peak Limiter	---
+18dBu to -50dBu.	Threshold	---
1 per Output.	Noise Gate	1 per Output.
-79dBu to -37dBu.	Noise Threshold	-79dBu to -37dBu.
Level Control		
+6dBu to -40 dBu per input / output.	Gain	+6dBu to -40 dBu per input / output.
per input / output.	Mute	per input / output.
per input / output.	Phase inversion	per input / output.
Possibility to Link Controls.		Possibility to Link Controls.
Signal Generator		
sine tone from 10Hz to 22KHz, Pink noise, White noise.	Type:	sine tone from 10Hz to 22KHz, Pink noise, White noise.
Other functions		
Atmospheric compensation by Air absorption.		---
Process Integration with RAINBOW – The acoustical prediction software.		Process Integration with RAINBOW – The acoustical prediction software.
Speaker data import from main audio measurement systems.		Speaker data import from main audio measurement systems.
Export & Import EQ files.		Export & Import EQ files.
USB & Ethernet.	Communication	USB & Ethernet (Optional).
General		
85-240 V ~ 40-400 Hz. IEC connector.	Power supply	85-240 V ~ 40-400 Hz. IEC connector.
(Switching power supply, wide range).		(Switching power supply, wide range)
30 W.	Consumption	25 W
-5° a 60° C (23° to 140° F)	Operating temperature	-5° a 60° C (23° to 140° F)
-60° a 75° C (-76° to 167° F)	Storage temperature	-60° a 75° C (-76° to 167° F)
Max. 90% non-condensing	Humidity	Max. 90% non-condensing
482 x 45 x 226 mm.	Dimensions	482 x 45 x 226 mm
3 Kg	Weight	3 Kg





HPX Series



New generation of professional touring amplifiers offering from 4600 to 12000 watts.

The HPX series feature four channel models, ready for rough handling in the touring world.

They are at the forefront of audio design, offering a powerful, reliable and lightweight amplifier designed to deliver superior sound quality for your touring gigs.

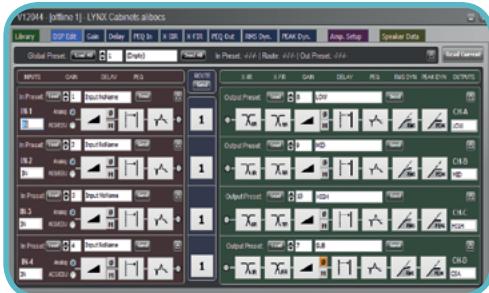


	HPX-4600	HPX-8800	HPX-6400	HPX-12000
Output Power				
@ 2 Ohms	4 x 2260 W	--	4 x 3025 W	--
@ 4 Ohms	4 x 1150 W	4 x 2200 W	4 x 1600 W	4 X 2950 w
@ 8 Ohms	4 x 600 W	4 x 1150 W	4 x 820 W	4 x 1550 W
Bridge @ 4 Ohms	2 x 4520 W	--	2 x 6050 W	--
Bridge @ 8 Ohms	2 x 2300 W	2 x 4400 W	2 x 3200 W	2 x 5900 W
Frequency Response ± 0.25 dB	20Hz-20KHz	20Hz-20KHz	20Hz-20KHz	20Hz-20KHz
Phase Response @ 1 W 20Hz-20KHz	±15 deg	±15 deg	±15 deg	±15 deg
Total Harmonic Distortion 20Hz-20KHz	<0.05%	<0.05%	<0.05%	<0.05%
Intermodulation Distortion SMPTE	<0.05%	<0.05%	<0.05%	<0.05%
Damping Factor 20-500Hz @ 8 Ohms	>500	>500	>500	>500
Crosstalk 20Hz-1KHz	>80 dB	>80 dB	>80 dB	>80 dB
Voltage Gain 0.5 dB steps	26 dB to 38 dB	26 dB to 38 dB	26 dB to 38 dB	26 dB to 38 dB
Sensitivity Rated Power (26/32/38 dB Gain)	3.5/1.7/0.9 V	4.8/2.4/1.2 V	4.1/2/1 V	5.6/2.8/1.4 V
Signal to Noise Ratio 20HZ-20KHz	112 dB	115 dB	113 dB	116 dB
Required AC Mains				
Operating Voltage (50Hz-60Hz)	170V-265V AC	170V-265V AC	170V-265V AC	170V-265V AC
Power on Idling (@230V)	0.5 A	0.5 A	0.5 A	0.5 A
1/8 Rated Power (@230V min.Z)	11 A	10 A	14 A	13 A
Dimensions				
W x H x D (mm)	483 x 89 x 460	483 x 89 x 460	483 x 89 x 460	483 x 89 x 460
Weight	12 Kg / 26.5 lbs	12 Kg / 26.5 lbs	12 Kg / 26.5 lbs	12 Kg / 26.5 lbs
Protections	Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMST™ and SSP™			



HPX SERIES

OCS Software



LIBRARY MANAGER

- 100 Output preset memories, to save any Output configuration independently for each channel
- 40 Input preset memories, to save any Input configuration independently for each channel
- 80 Global preset memories, to save a combination of Input, Route and Output presets for all channels
- Group management, to assign the same configuration simultaneously to different amplifiers

Input	
Impedance	20 K Ohm Balanced (10 K Ohm unbalanced)
Connector	Balanced XLR (pin 2 +)
AD converter	24 bit-192KHz, 512x Oversampling
Dynamic Range	120 dB
Digital AES/EBU	Optional.
Outputs	2/4
Impedance	50 Ohm Balanced (25 Ohm unbalanced)
Connector	Balanced XLR (pin 2 +)
DA converter	24 bit-192KHz, 512x Oversampling
Dynamic Range	120 dB
Audio	
Frequency Range	10 Hz – 24 KHz
THD (%)	<0,0018%
DSP Process	Internal resolution with 56 bit double precision in floating point
Converters	24 bit resolution
Propagation Delay	0.6 miliseconds
Equalisation	
PEQ Input	31 per way
PEQ output	15 per way
PEQ Type filters	Parametric, Shelving High, Shelving Low, Low-Pass, High-Pass, Low-Pass Q variable, High-Pass Q variable, BandPass, Reject Band, AllPass order 1, AllPass order 2. Possibility to Link filters between Input and Outputs
Crossover	Linkwitz Riley with 12, 24, 48 dB/oct. Butterworth and Bessel with 6, 12, 18, 24, 30, 36, 42 and 48 dB/oct.
Input Delay	341 milisec (118 m) per input
Output Delay	52 milisec (18 m) per output
RMS Limiter-Compressor	1 per output.
Threshold	1W to 3000W
Compression Ratio	1:1 to 1:10 (1:infinite with limiter)
Power indication	Shows the maximum power applied to the speaker for the selected threshold
Peak Limiter	1 per output.
Threshold	from 0.1V peak to 180V peak.
Peak Indication	Shows the maximum peak Voltage applied to the speaker for the selected threshold
Gain	+6dBu to -40 dBu per input / output with Mute & Phase Inversion
Communication	USB / Ethernet optional



DSX Series



The DSX models offer a powerful, reliable and lightweight amplifier with advanced features.

To get the most of your sound system the DSX series offer a fully programmable Digital Signal Processor.

This is an excellent choice for high power audio cabinets in fixed sound installations or touring.



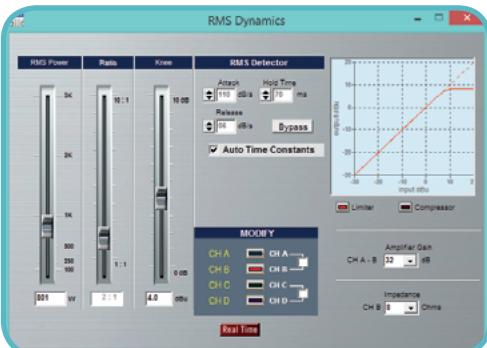
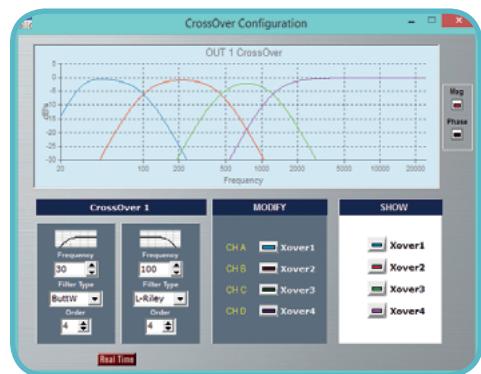
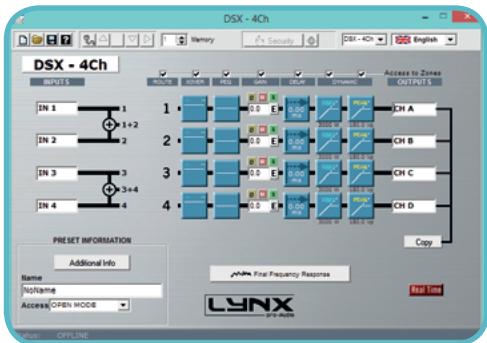
	DSX-4002	DSX-1004	DSX-6002	DSX-1504
Output Power (1kHz, 1.0% THD+N)				
@ 2 Ohm	4x 980 W	--	4x 1440 W	--
@ 4 Ohm	4x 670 W	4x 975 W	4x 1000 W	4x 1480 W
@ 8 Ohm	4x 430 W	4x 690 W	4x 620 W	4x 1015 W
Bridge @ 4 Ohm	2x 1960 W	--	2x 2880 W	--
Bridge @ 8 Ohm	2x 1340 W	2x 1950 W	2x 2000 W	2x 2960 W
Pink Noise 12dB C.F. @ 2 Ohm	4x 1170 W	--	4x 2080 W	--
Pink Noise 12dB C.F. @ 4 Ohm	4x 820 W	4x 1230 W	4x 1280 W	4x 2110 W
Frequency Response (Power Bandwidth ±0.25dB)	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz
Phase Response (@ 1 Watt 20Hz-20kHz)	±15 deg	±15 deg	±15 deg	±15 deg
Total Harmonic Distortion (20Hz-20kHz)	<0.05%	<0.05%	<0.05%	<0.05%
Intermodulation Distortion (SMPTE)	<0.05%	<0.05%	<0.05%	<0.05%
Damping Factor (20-500Hz @ 8 Ohm)	>500	>500	>500	>500
Crosstalk (20Hz-20kHz)	>75 dB	>75 dB	>75 dB	>75 dB
Voltage Gain	26/32/38 dB	26/32/38 dB	26/32/38 dB	26/32/38 dB
Sensitivity (Rated Power @ 8 Ohm (V))	3.0/1.5/0.8	3.7/1.9/0.9	3.5/1.8/0.9	5.0/2.5/1.3
Signal-to-Noise Ratio (20Hz-20kHz)	113dB	116dB	116dB	118dB
Required Mains				
230 V - 50 Hz (idle)	0.5 A	0.5 A	0.5 A	0.5 A
@ 4 Ohm (1/8 rated power)	7.5 A	11A	10.5A	15A
Dimensions An x Al x P (mm)	483 x 89 x 310	483 x 89 x 310	483 x 89 x 310	483 x 89 x 310
Weight Nett (Kg)	8.5	8.5	8.6	8.6
Protections	Over-heating, DC, RF, Short-circuit, Open or mismatched loads, Overload, ICLTM, PMSTM, SSPTM			





DSX SERIES

DSX Software



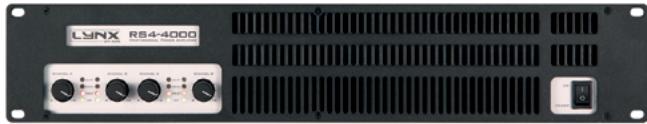
Input	
Impedance	20 K Ohm Balanced (10 K Ohm unbalanced)
Connector	Balanced XLR (pin 2 +)
AD converter	24 bit-192KHz, 512x Oversampling
Dynamic Range	120 dB
Max. level	+19 dBu (balanced).
Digital AES/EBU	Optional.
Outputs	2/4
Impedance	50 Ohm Balanced (25 Ohm unbalanced)
Connector	Balanced XLR (pin 2 +)
DA converter	24 bit-192KHz, 512x Oversampling
Dynamic Range	120 dB
Max. level	+18 dBu (balanced)
Audio	
Frequency Range	10 Hz – 24 KHz
THD (%)	<0,0018%
DSP Process	Internal resolution with 56 bit double precision in floating point
Converters	24 bit resolution
Propagation Delay	0.5 miliseconds
Equalisation	
PEQ output	9 per way
PEQ Type filters	Parametric, Shelving High, Shelving Low, Low-Pass, High-Pass, Low-Pass Q variable, High-Pass Q variable, BandPass, Reject Band, AllPass order 1, AllPass order 2. Possibility to Link filters between Input and Outputs
Crossover	Linkwitz Riley with 12, 24, 48 dB/oct. Butterworth and Bessel with 6, 12, 18, 24, 30, 36, 42 and 48 dB/oct.
Output Delay	20.8 milisec for Speaker's alignment
RMS Limiter-Compressor	1 per output.
Threshold	1W to 3000W
Compression Ratio	1:1 to 1:10 (1:infinite with limiter)
Power indication	Shows the maximum power applied to the speaker for the selected threshold
Peak Limiter	1 per output.
Threshold	from 0.1V peak to 180V peak.
Peak Indication	Shows the maximum peak Voltage applied to the speaker for the selected threshold
Gain	+6dBu to -40 dBu per input / output with Mute & Phase Inversion
Communication	USB



RS Series

RS4

The cost-effective RS Series amplifiers are designed for the professionals researching quality, reliability and value.



	RS4-2000	RS4-3000	RS4-4000
Output power	z		
@ 2 Ohms	4 x 500 W	4 x 750 W	4 x 1000 W
@ 4 Ohms	4 x 400 W	4 x 700 W	4 x 1000 W
@ 8 Ohms	4 x 220 W	4 x 450 W	4 x 630 W
Bridge @ 4 Ohms	2 x 1000 W	2 x 1500 W	2 x 2000 W
Bridge @ 8 Ohms	2 x 800 W	2 x 1400 W	2 x 2000 W
Frequency Response ± 0.25dB	20 Hz – 20 KHz	20 Hz – 20 KHz	20 Hz – 20 KHz
Phase Response @ 1 W 20Hz-20KHz	±15 deg	±15 deg	±15 deg
Total Harmonic Distortion 20Hz-20KHz	<0.05%	<0.05%	<0.05%
Intermodulation Distortion SMPTE	<0.05%	<0.05%	<0.05%
Damping Factor 20-500Hz @ 8 Ohms	>500	>500	>500
Crosstalk 20Hz-1KHz	>75 dB	>75 dB	>75 dB
Voltage Gain	35 dB	35 dB	35 dB
Sensitivity Rated Power (26/32/38dB Gain)	0.8 V	1.1 V	1.3 V
Signal to Noise Ratio 20Hz-20KHz	101dBA	103dBA	104dBA
Required AC Mains			
Operating Voltage (50Hz-60Hz)	170V -265V AC	170V -265V AC	170V -265V AC
Power on Idling (@230V)	0.5 A	0.5 A	0.5 A
1/8 Rated Power (@4 Ohm)	7 A	8 A	10 A
Dimensions			
W x H x D (mm)	483 x 88.9 x 254	483 x 88.9 x 254	483 x 88.9 x 254
W x H x D (inches)	19 x 3.5 x 10	19 x 3.5 x 10	19 x 3.5 x 10
Weight	6 Kg / 13 lbs	6 Kg / 13 lbs	6 Kg / 13 lbs
Protections	Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMS™ and SSP™		

RS amplifiers represent the best compromise between economy and performances, taking advantage of latest improvements in electronic assembly.

RS2



	RS2-1000	RS2-1500	RS2-2000	RS2-3600
Output power				
@ 2 Ohms	2 x 500 W	2 x 750 W	2 x 1000 W	2 x 1800 W
@ 4 Ohms	2 x 400 W	2 x 700 W	2 x 1000 W	2 x 1750 W
@ 8 Ohms	2 X 240 w	2 x 450 W	2 x 650 W	2 x 950 W
Bridge @ 4 Ohms	1000 W	1500 W	2000 W	3600 W
Bridge @ 8 Ohms	800 W	1400 W	2000 W	3500 W
Frequency Response ± 0.25dB	20 Hz – 20 KHz	20 Hz – 20 KHz	20 Hz – 20 KHz	20 Hz – 20 KHz
Phase Response @ 1 W 20Hz-20KHz	±15 deg	±15 deg	±15 deg	±15 deg
Total Harmonic Distortion 20Hz-20KHz	<0.05%	<0.05%	<0.05%	<0.05%
Intermodulation Distortion SMPTE	<0.05%	<0.05%	<0.05%	<0.05%
Damping Factor 20-500Hz @ 8 Ohms	>500	>500	>500	>500
Crosstalk 20Hz-1KHz	>75 dB	>75 dB	>75 dB	>75 dB
Voltage Gain	35 dB	35 dB	35 dB	35 dB
Sensitivity Rated Power (26/32/38dB Gain)	0.8 V	1.1 V	1.3 V	1.6 V
Signal to Noise Ratio 20Hz-20KHz	101dBA	103dBA	104dBA	105dBA
Required AC Mains				
Operating Voltage (50Hz-60Hz)	170V -265V AC	170V -265V AC	170V -265V AC	170V -265V AC
Power on Idling (@230V)	0.5 A	0.5 A	0.5 A	0.5 A
1/8 Rated Power (@4 Ohm)	3.5 A	4 A	5 A	10 A
Dimensions				
W x H x D (mm)	483 x 88.9 x 254	483 x 88.9 x 254	483 x 88.9 x 254	483 x 88.9 x 254
W x H x D (inches)	19 x 3.5 x 10	19 x 3.5 x 10	19 x 3.5 x 10	19 x 3.5 x 10
Weight	5 Kg / 11 lbs	5 Kg / 11 lbs	6 Kg / 13 lbs	6 Kg / 13 lbs
Protections	Soft-start, Turn-on Turn-off transients, Over-heating, DC, RF, Short-circuit, Open or mismatched loads, ICL™, PMSTM and SSP™			



M Series

The M Series of amplifiers has been specifically developed for fixed installation and network applications. They offer up to eight independent channels per unit to allow for as many zoning possibilities.



	M-604	M-1204	M-1208	M-2048
Output power	Continuous Average Power RMS, 1KHz, 1.0% THD+N			
@ 4 Ohms	4 x 160 W	4 x 320 W	8 x 150 W	8 x 300 W
@ 8 Ohms	4 x 115 w	4 x 220 W	8 x 100 W	8 x 195 W
Bridge @ 8 Ohms	2 x 320 W	2 x 640 W	4 x 300 W	4 x 600 W
Pink noise @ 4 Ohms	4 x 210 W	4 x 415 W	8 x 180 W	8 x 370 W
Frequency Response ± 0.25dB	20 Hz – 20 KHz	20 Hz – 20 KHz	20 Hz – 20 KHz	20 Hz – 20 KHz
Phase Response @ 1 W 20Hz-20KHz	±15 deg	±15 deg	±15 deg	±15 deg
Total Harmonic Distortion 20Hz-20Khz	<0.05%	<0.05%	<0.05%	<0.05%
Intermodulation Distortion SMPTE	<0.05%	<0.05%	<0.05%	<0.05%
Crosstalk 20Hz-1KHz	>70 dB	>70 dB	>70 dB	>70 dB
Voltage Gain	26-32-38 dB	26-32-38 dB	26-32-38 dB	26-32-38 dB
Sensitivity Rated Power (26/32/38dB Gain)	1.5/0.8/0.4 V	2.1/1.0/0.5 V	1.4/0.7/0.4 V	2.0/1.0/0.5 V
Signal to Noise Ratio 20Hz-20KHz	107dB	110dB	107dB	110dB
Required AC Mains				
Operating Voltage (50Hz-60Hz)	170V -265V AC	170V -265V AC	170V -265V AC	170V -265V AC
230V AC-50HZ (idle)	0.5 A	0.5 A	0.5 A	0.5 A
1/8 Rated Power (@8 Ohm)	1 A	1.5 A	1.4 A	2.6 A
Dimmensions				
W x H x D (mm)	483 x 89 x 210	483 x 89 x 210	483 x 89 x 210	483 x 89 x 210
W x H x D (inches)	19 x 3.5 x 8.27	19 x 3.5 x 8.27	19 x 3.5 x 8.27	19 x 3.5 x 8.27
Weight	5.4 Kg / 11.8 lbs	5.4 Kg / 11.8 lbs	6.2 Kg / 13.5 lbs	6.2 Kg / 13.5 lbs
Protections	Soft-start, Turn-on Turn-off muting, Over-heating, DC, RF, Short-circuit, Overloaded power supply Open/mismatched loads, ICL™, PMS™, SSP™			

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:

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