

LAX[®]

**Cinema
Catalogue
2025 - 26**



Description

The LAX® introduces new Cinema amplifier with Class D technology offering smooth and responsive handling with massive power output while maintaining LAX's famous sonic integrity. The LAX Professional CA Series is using SMPS technology, the resulting high power, lightweight units designed for install and professional touring sound applications.

The LAX® CA Series is a range of 4 channels, high output power amplifiers. The CA Series has been designed to provide that, Powerful Pure Sonic Performance which is now so synonymous with the LAX® brand name. With the introduction of the CA Series LAX® aim to deliver simple, pure and reliable power for applications where cost and ease of use are paramount without loss of integrity.



Features

- Class - D Technology
- Power Factor Correction
- Four-channel flexibility
- XLR input and output connectors
- Self protection design
- Efficient cooling system
- Comprehensive protection

Power Output

Ratings (RMS @ 1% THD @ 230VAC)

Model	Total Channels	4Ω Per Channel	8Ω Per Channel	4Ω Bridged	8Ω Bridged	70/100V
CA-500	4	500W	250W	2*1250W	2*1250W	2*800W
CA-800	4	800W	400W	2*2500W	2*1600W	2*1600W
CA-1250	4	1250W	1250W	-	-	4*800W
CA-2500	4	2500W	1600W	-	-	4*1600W

Specifications

THD	< 0.05 % (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)			
Signal-to-Noise Ratio	> 120 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)			
Frequency Response	20 Hz - 20 kHz ± 0.25 dB / 20 Hz - 20 kHz ± 0.15 dB (8 Ω load, 1 dB below rated power)			
Output Circuitry	Class D - full bandwidth PWM modulator with ultra low distortion			
Input impedance	15 kΩ balanced			
Damping Factor	> 2000 (8 Ω load, 1 kHz and below)			
Gain and Level				
Amplifier gain selectable(Sensitivity)	0.7 / 1.0 / 1.44 Volt			
Level adjustment (per ch)	Front-panel potentiometer			
Connectors and Switches				
Input connectors (per ch)	3-pin XLR, electronically balanced			
Output connectors (per ch)	3-pin XLR, electronically balanced			
Amplifier Output	4 Pin Speakon 1: +1-1 CH-1, +2-2 CH-2 & 4 Pin Speakon 2: +1-1 CH-3, +2-2 CH-4			
Mode	CA-500, CA-800 Stereo / Parallel / Bridge			
	CA-1250, CA-2500 Stereo / Parallel			
Power on/off	on front-panel switch			
Cooling	Fans, front-to-rear airflow			
Front-panel indicators				
Per channel	Power / Output signal / Limit / Protect			
Parallel	1 & 2, 3 & 4 Channels			
Safety				
Protection Circuits	Input limiter, short circuit protection, DC protection of output, under & over voltage protection, SOA protection, intelligent mains fuse protection, power stage overload protection, temperature protection for transformer			
Power				
Type	Universal & regulated switch mode power supply with Power Factor Correction			
Operating voltage	Universal Mains, 90-270V AC			
Mains	Power Cord			
Model	CA-500	CA-800	CA-1250	CA-2500
Amplifier Dimension	482 mm x 374 mm x 88 mm (W x D x H)		482 mm x 487 mm x 88 mm (W x D x H)	
Packing Dimension	585 mm x 471 mm x 195 mm (W x D x H)		585 mm x 535 mm x 195 mm (W x D x H)	
Size	2U			
Net Weight	9.30 kg	9.60 kg	13.80 kg	14.30 kg
Gross Weight	10.80 kg	11.10 kg	15.70 kg	16.20 kg

Note:

- 1) All specifications are typical values.
- 2) The amplifier will be fully operational at 2 ohm loads, but due to physical constraints in the construction, this mode of operation is not recommended.
- 3) The CA-500 & CA-800 amplifiers have to select bridge mode for 70/100V operation.

Description

The LAX® introduces new Cinema amplifier with Class D technology offering smooth and responsive handling with massive power output while maintaining LAX's famous sonic integrity. The LAX Professional CA-D Series is using SMPS technology with built in 4 in 4 out DSP, the resulting high power, lightweight units designed for install and professional touring sound applications.

The LAX® MD Series is a range of 4 channels, high output power amplifiers. The CA-D Series has been designed to provide that, Powerful Pure Sonic Performance which is now so synonymous with the LAX® brand name. With the introduction of the CA-D Series LAX® aim to deliver simple, pure and reliable power for applications where cost and ease of use are paramount without lose of integrity.



Features

- Class - D Technology
- Power Factor Correction
- Four-channel flexibility
- XLR input and output connectors
- Self protection design
- Efficient cooling system
- Comprehensive protection
- 4 in 4 out DSP
- In/Out 10 Band Equalizer
- 20 Presets
- PC Control via USB

Power Output

Ratings (RMS @ 1% THD @ 230VAC)

Model	Total Channels	4Ω Per Channel	8Ω Per Channel	4Ω Bridged	8Ω Bridged	70/100V
CA-500D	4	500W	250W	2*1250W	2*1250W	2*800W
CA-800D	4	800W	400W	2*2500W	2*1600W	2*1600W
CA-1250D	4	1250W	1250W	-	-	4*800W
CA-2500D	4	2500W	1600W	-	-	4*1600W

Note:

- 1) All specifications are typical values.
- 2) The amplifier will be fully operational at 2 ohm loads, but due to physical constraints in the construction, this mode of operation is not recommended.
- 3) The CA-500D & CA-800D amplifiers have to select bridge mode for 70/100V operation.

Specifications

THD	< 0.05 % (20 Hz - 20 kHz, 8 Ω load, 3 dB below rated power)			
Signal-to-Noise Ratio	> 120 dB (A-weighted, 20 Hz - 20 kHz, 8 Ω load)			
Frequency Response	20 Hz - 20 kHz ± 0.25 dB / 20 Hz - 20 kHz ± 0.15 dB (8 Ω load, 1 dB below rated power)			
Output Circuitry	Class D - full bandwidth PWM modulator with ultra low distortion			
Input impedance	15 kΩ balanced			
Damping Factor	> 2000 (8 Ω load, 1 kHz and below)			
Gain and Level				
Amplifier gain selectable (Sensitivity)	0.7 / 1.0 / 1.44 Volt			
Level adjustment (per ch)	Front-panel potentiometer			
Digital Signal Processor				
In / Out	4 In / 4 Out			
DSP	32 bit / 96kHz DSP			
Control	USB			
Preset	20			
Input A,B,C,D				
Equalizer	10 Band, PEQ / LS6 / LS12 / HS6 / HS 12/ APF			
Volume	-60dB to 5dB			
Delay	0 to 4.99ms			
Output 1,2,3,4				
Equalizer	10 Band, PEQ / LS6 / LS12 / HS6 / HS 12/ APF / APF-1			
Delay	0 to 9.99ms			
Limiter	-19dB to 0dB			
Crossover	HPF / LPF			
Input Link	A, B, C, D			
Output Link	1, 2, 3, 4			
Connectors and Switches				
Input connectors (per ch)	3-pin XLR, electronically balanced			
Output connectors (per ch)	3-pin XLR, electronically balanced			
Amplifier Output	4 Pin Speakon 1: +1-1 CH-1, +2-2 CH-2 & 4 Pin Speakon 2: +1-1 CH-3, +2-2 CH-4			
Mode	CA-500D, CA-800D Stereo / Parallel / Bridge			
	CA-1250D, CA-2500D Stereo / Parallel			
Power on/off	on front-panel switch			
Cooling	Fans, front-to-rear airflow			
Front-panel indicators				
Per channel	0dB / Signal / Limit / Protect			
Parallel	1 & 2, 3 & 4 Channels			
Safety				
Protection Circuits	Input limiter, short circuit protection, DC protection of output, under & over voltage protection, SOA protection, intelligent mains fuse protection, power stage overload protection, temperature protection for transformer			
Power				
Type	Universal & regulated switch mode power supply with Power Factor Correction			
Operating voltage	Universal Mains, 90-270V AC			
Mains	Power Cord			
Model	CA-500D	CA-800D	CA-1250D	CA-2500D
Amplifier Dimension	482 mm x 374 mm x 88 mm (W x D x H)		482 mm x 487 mm x 88 mm (W x D x H)	
Packing Dimension	585 mm x 471 mm x 195 mm (W x D x H)		585 mm x 535 mm x 195 mm (W x D x H)	
Size	2U			
Net Weight	9.30 kg	9.60 kg	13.80 kg	14.30 kg
Gross Weight	10.80 kg	11.10 kg	15.70 kg	16.20 kg



Marketed and Distributed by :



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