

CINEMA DIGITAL SERIES

AMPLIFIER SPEC SHEET



	MODEL	CHANNEL COUNT	WATTS PER CHANNEL
	CDS 704	4 CHANNELS	700 WATTS
AUDIO SPEC	Output Power	4 x 700 WRMS Per channel @ 4Ω, 8Ω, 70V, 100V (350W at 2Ω) 700 Watts @ 25V	
	Inputs	Analog: Balanced Inputs with user-selectable 26 dB and 34 dB input sensitivity AES67: 8 x 8 AES67 at 96kHz or 48kHz, Multicast or Unicast, Configurable via the AES67 Controller Software	
	THD+N	0.1% (20Hz to 20kHz)	
	Frequency Response	+/- 0.5 dB @ 4Ω, 8Ω, 70V, 100V, -2.5dB @ 20kHz at 2Ω	
	Signal to Noise Level	105dB (20Hz to 20kHz referenced to 8Ω)	
	Crosstalk	70dB (20Hz to 20kHz)	
	I/O Latency	1 ms DSP latency under any condition	
	Load Impedance	LowZ down to 2 ohms, 70V direct, and 100V Direct per channel	
	Output Classification	Class D with Proprietary Smart Power Bridge Technology allowing bridged output functionality without sacrificing an amplifier channel	
DSP	DC Offset	+/- 3mV	
	DSP Architecture	Analog Devices Sigma 96kHz DSP Processor with 32-bit Core with Sample Rate Converters	
	Input Matrix	Routable matrix; any input to any output with primary and secondary input priority	
	Crossovers	Up to 48 dB/Octave IIR Filters (Linkwitz Riley and Butterworth) and Bessel	
	Parametric EQ	8 Band Parametric EQ per channel	
	Output Delay	100ms per channel	
	Output Protection	DC, VHF, and AC Mains Protection, Over-temp and Current Limiter, fan fault detection	
	Limiting	Peak Voltage and RMS Voltage	
CONTROL, MONITORING, NETWORK	Load Monitoring	Realtime Load Monitoring and Pilot Tone Detection from Internal or External Sources	
	Network Connectivity	Wi-Fi or 100MB Ethernet with PoE or Built in Wi-Fi Access Point (IEEE 802.11 b/g/n WPA, WPA2, WEP)	
	User Interface	Web Browser User Interface, 3rd Party API control, Cloud control, or SharkWare	
	Operating Systems	MAC, iOS, PC, Android	
	Event Reporting	User Downloadable and Viewable Event and Fault log - POE allows for enhanced error monitoring	
	External I/O	External I/O In: Toggles Remote On/Off External I/O Out: Indicates Amplifier Health	
OPS DATA	Cloud IoT	AWS Cloud based IoT functionality	
	AC Mains	100VAC - 240VAC +/- 15% 50Hz or 60Hz	
	Temperature	Storage: -20°C to 90° C - Operating: 0°C to 60° C	
	Power Supply	Universal Switch Mode Power Supply	
	EN54-16 Output Power	609 Watts @ 9.6Ω (40° C ambient temp for 1 minute) Smart Power Bridge: 942 Watts @ 9.6Ω (40° C ambient temp for 1 minute)	
PHYSICAL SPEC	Safety Approvals	UL, CSA, CE, ETL, FCC, CCC, KETI, NOM, ROHS, PSE, EN54-16	
	Dimensions (L x W x H)	Product: 14.25" x 19" x 1U (362mm x 482mm x 1U) x 1U (362mm x 482mm x 1U) Shipping: 20" x 22.75" x 3.75" (508mm x 578mm x 95.25mm)	
	Weight	10lbs / 3.4kg Shipping: 17.4lbs / 7.9kg	
	Cooling	Front to Rear Variable Fan Speed Cooling Fan Noise at idle is 50dB @ 1m Fan Noise at 50% is 57dB @ 1m Fan Noise at full speed is 63dB @ 1m	
	Connectors	Analog Input: 3 pin Amphenol Anytek, Output: 2 pin Amphenol Anytek, External IO: 3 pin Amphenol Anytek, Power in: IEC, Ethernet RJ45 In for Control, Primary and Secondary RJ45 in for AES67	

LEA Professional reserves the right to make any necessary changes to the specification. The LEA Professional Warranty is 6 years from date of purchase and product registration in the United States.



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