



APPENDIX C: SPECIFICATION

GENERAL

Output power EIA (1% THD, 1 kHz, all channels driven)	8 Ω	4 x 800 W RMS	4 x 930 W peak				
	4 Ω	4 x 1000 W RMS	4 x 1600 W peak				
Max output voltage	125 V (Peak voltage, no load)						
Circuitry	Bipolar, Class H 2-step high efficiency circuit						
Digital Signal Processor (DSP)	SHARC 32 bit, floating point, 96 kHz sampling rate						
Frequency range	10 Hz-30 kHz (-0.1/+0.15 dB at 8 Ω)						
Distortion THD+N	< 0.03 % (20 Hz-10 kHz, 8 Ω, 11 dB below rated power)						
Output dynamic range	112 dB (20 Hz-20 kHz, 8 Ω, A-weighted)						
Amplification gain	32 dB						
Noise level	-73 dBV (20 Hz-20 kHz, 8 Ω, A-weighted)						
Channel separation	> 80 dB (at 1 kHz)						
Damping factor	> 400 (8 Ω, 1 kHz and below)						
Mains input power and current draw (all channels driven)	Maximum output power		Mains input power and current draw				
	Load	Nb. of driven channels	Power per channel	1/3 Output Power (-5 dB)	1/8 Output Power (-9 dB)	IDLE	Standby
	4 Ω	4	1000 W	22 A / 3250 W	12 A / 1600 W	0.3 A / 80 W	< 0.1 A / 12 W
8 Ω	4	800 W	17 A / 2550 W	9 A / 1350 W			
Current values given for a mains rated at 230 V. Multiply by 2 for 120 V, 1.15 for 200 V and 2.3 for 100 V. If the voltage outside a plus or minus 10 % range the maximum power is no longer guaranteed.							
Mains ratings	LA4 & LA4US		120/230 V AC (±10 %), 50-60 Hz				
	LA4JP		100/200 V AC (±10 %), 50-60 Hz				
Operating temperature	Room temperature		from 0 °C to +50 °C				
	Inside controller		from 0 °C to +85 °C				
Circuits protection	temperature monitoring of transformers and heat-sinks inrush-current limitation mains supply failure and over-voltage detection output DC protection output over current protection						
Transducers protection	L-DRIVE thermal and over excursion protection						
Fans	2 fans, temperature-controlled speed						
Fans noise (free field, 1 m)	At minimum speed		24 dBA				
	At maximum speed		50 dBA				
Indicators	4 meters including Load, Signal, Level and Clip LED L-NET presence LED 4 mute LED						
Output Connectors	4 x 4-point SpeakON®		OUT1 (or OUT1/2), OUT2, OUT3 (or OUT3/4) and OUT4				
L-NET connectors	2 x Fast Ethernet RJ45 (in/out)						

LA4 Amplified Controller

user manual

version 10.0

ANALOG INPUT

Connectors	Input	2 Neutrik® female XLR3, IEC 268, ESD protected
	Link	2 Neutrik® male XLR3, IEC 268, ESD protected

Input impedance 22 k Ω (balanced)

Max input level 22 dBu (balanced, THD 1 %)

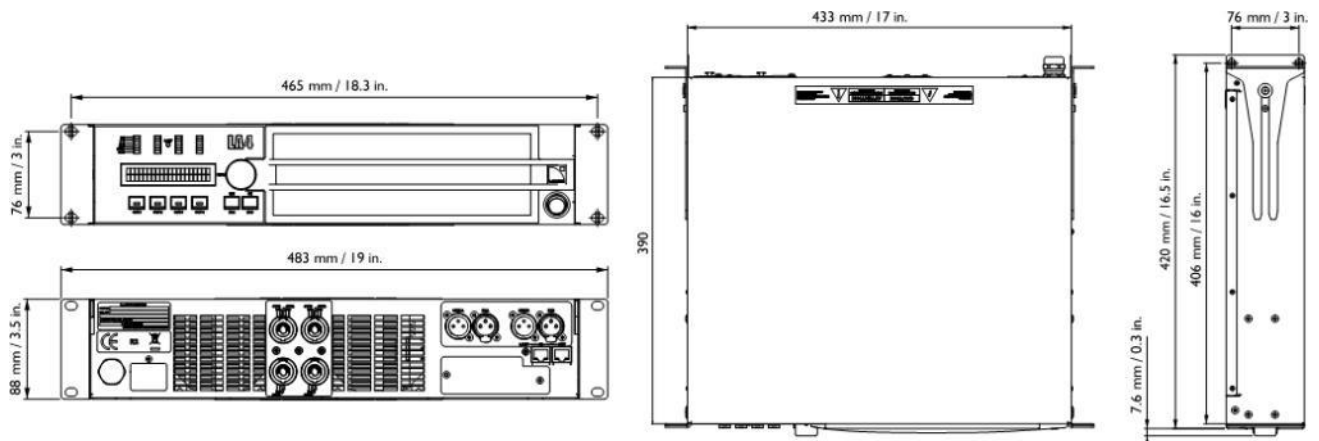
Latency 3.84 ms

Digital conversion two cascaded 24 bit A/D converters (130 dB dynamic range)

DIGITAL INPUT with the optional LA-AES3 AES/EBU input board
(refer to the LA-AES3 product information document)

PHYSICAL DATA

Dimensions (H x W x D) 88 (2U) x 483 x 420 mm / 3.5 (2U) x 19 x 16.5 in



Weight 11.1 kg / 24.5 lb

Finish black and anthracite gray
