

1234A Operating Manual

SYSTEM SPECIFICATIONS	
	1234A
Lower cut-off frequency, -6 dB	< 29 Hz
Upper cut-off frequency, -6 dB	> 21 kHz
Accuracy of frequency response, ± 2.0 dB	34 Hz – 20 kHz
Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz at 1 m	125 dB SPL
Maximum long term RMS acoustic output in the same conditions with IEC weighted noise (limited by driver protection circuit) at 1 m	120 dB SPL
Maximum peak acoustic output per pair in a listening room with music material at 2 m	130 dB
Self generated noise level in free space at 2 m on axis (A-weighted)	0 dB
Harmonic distortion at 95 dB SPL at 1 m on axis Freq: 50...200 Hz > 200 Hz	< 3 % < 0.5 %
Drivers Bass Midrange Treble	2 x 305 mm (12 in) cone 125 mm (5 in) cone 25 mm (1 in) metal dome
All drivers are magnetically shielded	
Monitor enclosure weight	73 kg (161 lb)
Amplifier weight	11.2 kg (25 lb)
Monitor enclosure dimensions Height Width Depth	700 mm (27 ⁹ / ₁₆ in) 890 mm (35 in) 383 mm (15 in)
Amplifier dimensions Height Width (front plate) Width (casing) Depth	3U 132 mm (5 ³ / ₁₆ in) 483 mm (19 in) 425 mm (16 ³ / ₄ in) 286 mm (11 ¹ / ₄ in)

AMPLIFIER SECTION	
	1234A
Bass amplifier short term output power Midrange amplifier short term output power Treble amplifier short term output power	2 x 750 W 400 W 250 W
Long term output power is limited by driver protection circuitry	
Amplifier system THD at nominal output	<0.003 %
Signal to Noise ratio, referred to full output Bass Midrange Treble	>116 dB >119 dB >115 dB
Mains voltage	100-120, 220-240 VAC 50/60 Hz
Power consumption Standby Idle Full output, long term Full output, peak	6 W 40 W 1000 W 2500 W

SIGNAL PROCESSING SECTION	
	1234A
Analog signal input connector XLR female, balanced 10 kOhm	pin 1 gnd pin 2 non-inverting, pin 3 inverting
Maximum analog input signal Analog input sensitivity (100 dB SPL at 1 m) Analog input gain selection	+25.0 dBu -6 dBu 0, +6, +12, +18 dB
Digital signal input connector XLR female 110 Ohm	AES/EBU Single Wire or Dual Wire
Digital signal output / Thru connector XLR male 110 Ohm	AES/EBU Single Wire or Dual Wire
Digital audio input Word length Sample rate Digital input sensitivity (100 dB SPL at 1 m) Digital input gain selection	16 - 24 bits 32 - 192 kHz -30 dBFS 0, +6, +12, +18 dB
Control network Type Connection	Proprietary GLM™ network 2 RJ45, CAT5 cables
Crossover frequency Bass/Mid Mid/Treble	420 Hz 3.2 kHz
GLM™ software frequency response adjustment Notch filters Shelving filters	4 LF and 2 HF 2 LF and 2 HF
System calibration	Genelec GLM AutoCal™

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