

1237A and 1238A Operating Manual

SYSTEM SPECIFICATIONS		
	1237A	1238A
Lower cut-off frequency, -3 dB	< 35 Hz	< 33 Hz
Upper cut-off frequency, -3 dB	> 21 kHz	> 21 kHz
Free field frequency response, ± 2.5 dB	37 Hz – 20 kHz	35 Hz – 20 kHz
Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz @ 1 m	> 118 dB SPL	> 121 dB SPL
Maximum long term RMS acoustic output in the same conditions with IEC weighted noise (limited by driver protection circuit) @ 1 m	> 112 dB SPL	> 116 dB SPL
Maximum peak acoustic output per pair in a listening room with music material @ 2 m	> 122 dB	> 124 dB
Self generated noise level in free space at 1 m on axis (A-weighted)	< 10 dB	< 10 dB
Harmonic distortion at 95 dB SPL at 1 m on axis Freq: 50...200 Hz > 200 Hz	< 3 % < 0.5 %	< 1 % < 0.5 %
Drivers Bass Midrange Treble	305 mm (12 in) cone 125 mm (5 in) cone 25 mm (1 in) metal dome	385 mm (15 in) cone 125 mm (5 in) cone 25 mm (1 in) metal dome
All drivers are magnetically shielded		
Weight (monitor with integrated amplifier)	42 kg (93 lb)	57 kg (126 lb)
Weight (monitor with amplifier removed)	36 kg (80 lb)	51 kg (113 lb)
Amplifier weight	6 kg (13 lb)	
Dimensions (monitor enclosure) Height Width Depth	680 mm (26 ³ / ₄ in) 400 mm (15 ³ / ₄ in) 380 mm (15 in)	810 mm (32 in) 480 mm (19 in) 420 mm (16 ¹ / ₂ in)
Amplifier dimensions (in rack mount configuration) Height (front panel) Height (amplifier casing) Width (front panel) Width (amplifier casing) Depth	3U 132 mm (5 ¹ / ₈ in) 80 mm (3 ¹ / ₈ in) 483 mm (19 in) 425 mm (16 ³ / ₄ in) 252 mm (9 ¹⁵ / ₁₆ in)	

AMPLIFIER SECTION		
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Bass amplifier short term output power	500 W	
Midrange amplifier short term output power	250 W	
Treble amplifier short term output power	200 W	
Long term output power is limited by driver protection circuitry		
Amplifier system THD at nominal output	< 0.01 %	
Signal to Noise ratio, referred to full output Bass Midrange Treble	>115 dB >115 dB >115 dB	
Mains voltage	100-240 VAC, 50/60 Hz	
Power consumption Standby Idle Full output	<0.5 W 25 W 750 W	

SIGNAL PROCESSING SECTION		
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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	450 Hz 3.0 kHz	420 Hz 3.0 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™	