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1238AC Operating Manual

SYSTEM SPECIFICATIONS	
	1238AC
Lower cut-off frequency, -3 dB	< 33 Hz
Upper cut-off frequency, -3 dB	> 21 kHz
Free field frequency response, ± 2.0 dB	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	> 121 dB SPL
Maximum long term RMS acoustic output in the same conditions with IEC weighted noise (limited by driver protection circuit) @ 1 m	> 116 dB SPL
Maximum peak acoustic output per pair in a listening room with music material @ 2 m	> 124 dB
Self generated noise level in free space at 1 m on axis (A-weighted)	< 10 dB
Harmonic distortion at 95 dB SPL at 1 m on axis Freq: 50...200 Hz > 200 Hz	< 1 % < 0.5 %
Drivers Bass Midrange Treble	2 x 250 mm (10 in) cone 125 mm (5 in) cone 25 mm (1 in) metal dome
All drivers are magnetically shielded	
Weight Monitor enclosure Amplifier	60 kg (130 lb) 6 kg (13 lb)
Dimensions (monitor enclosure) Height Width Depth	350 mm (13 3/4 in) 950 mm (37 3/8 in) 453 mm (17 7/8 in)
Amplifier dimensions 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 1/2 in)

AMPLIFIER SECTION	
	1238AC
Bass amplifier short term output power Midrange amplifier short term output power Treble amplifier short term output power	500 W 250 W 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	
	1238AC
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	16 - 24 bits 32 - 192 kHz

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