

SYSTEM SPECIFICATIONS

	8040B	8050B
Lower cut-off frequency, -3 dB	≤ 45 Hz	≤ 35 Hz
Upper cut-off frequency, -3 dB	≥ 21 kHz	≥ 21 kHz
Free field frequency response of system (± 2.0 dB)	48 Hz - 20 kHz	38 Hz - 20 kHz
Maximum short term sine wave acoustic output on axis in half space, averaged from 100 Hz to 3 kHz		
@ 1 m	≥ 105 dB SPL	≥ 110 dB SPL
@ 0.5 m	≥ 111 dB SPL	≥ 116 dB SPL
Maximum long term RMS acoustic output in same conditions with IEC weighted noise (limited by driver unit protection circuit) @ 1 m	≥ 99 dB SPL	≥ 101 dB SPL
Maximum peak acoustic output per pair above console top, @ 1 m distance with music material	≥ 115 dB SPL	≥ 120 dB SPL
Self generated noise level in free field @ 1m on axis (A-weighted)	≤ 10 dB	≤ 10 dB
Harmonic distortion at 90 dB SPL @ 1m on axis		
Freq. 50 to 100 Hz	< 2 %	< 2 %
> 100 Hz	< 0.5 %	< 0.5 %
Drivers:		
Bass	165 mm (6½ in)	205 mm (8 in)
Treble	19 mm (¾ in)	25 mm (1 in)
Both drivers are magnetically shielded	metal dome	metal dome
Weight:	9.4 kg (20.7 lbs)	14.4 kg (31.7 lbs)
Dimensions:		
Height (without table support)	350 mm (13 ¹³ / ₁₆ in)	433 mm (17 ¹ / ₁₆ in)
Height (including table support)	365 mm (14 ³ / ₈ in)	452 mm (17 ¹³ / ₁₆ in)
Width	237 mm (9 ³ / ₈ in)	286 mm (11 ¹ / ₄ in)
Depth	223 mm (8 ¹³ / ₁₆ in)	278 mm (10 ¹⁵ / ₁₆ in)

CROSSOVER SECTION

	8040B	8050B
Input connector XLR female	Pin 1 gnd, pin 2 +, pin 3 -	
Input impedance	10 kOhm balanced	
Input level for maximum short term output of 100 dB SPL @ 1m:	Adjustable from +6 to -6 dBu	
Crossover frequency, Bass/Treble	3.0 kHz	1.8 kHz
Treble tilt control operating range in 2 dB steps	From +2 to -4 dB & MUTE @ 15 kHz	From +2 to -4 dB & MUTE @ 15 kHz
Desktop low frequency control operating range	-4 dB @ 160 Hz	-4 dB @ 160 Hz
Bass roll-off control operating range in 2 dB steps	From 0 to -6 dB @ 45 Hz	From 0 to -6 dB @ 35 Hz
Bass tilt control operating range in 2 dB steps	From 0 to -6 dB @ 100 Hz & MUTE	From 0 to -6 dB @ 100 Hz & MUTE
	The 'CAL' position is with all tone controls set to 'off' and the input sensitivity control to maximum (fully clockwise)	

AMPLIFIER SECTION

	8040B	8050B
Bass amplifier short term output power	90 W	150 W
Treble amplifier short term output power	90 W	120 W
Long term output power is limited by driver unit protection circuitry		
Amplifier system distortion at nominal output		
THD	≤ 0.05 %	≤ 0.05 %
SMPTE-IM	≤ 0.05 %	≤ 0.05 %
CCIF-IM	≤ 0.05 %	≤ 0.05 %
DIM 100	≤ 0.05 %	≤ 0.05 %
Signal to Noise ratio, referred to full output		
Bass	≥ 100 dB	≥ 100 dB
Treble	≥ 100 dB	≥ 100 dB
Mains voltage	100, 120, 220 or 230 V according to region	
Voltage operating range	±10 %	±10 %
Power consumption		
Idle	10 W	10 W
Standby	< 0.5 W	< 0.5 W
Full output	110 W	170 W