## $Technical\ Specifications\ for\ SimCube\ SC-5$

Physical Dimensions	
Size	3"x 3" x 3.5" (7.6cm X 7.6cm X 8.9cm)
Weight	2.5 Lbs
Power	External A/C Adaptor (Output: 6VDC / 1.8amps, 2.1mm,
	center positive connector) <b>or</b>
	4 AA Batteries (with Battery Boost Option)
NIBP Connection	Quick Disconnect, Male
ECG/Resp Connection	10 ECG snaps
IBP Connection	Mini-DIN
Manometer	
Range	-400  to + 400  mmHg
Resolution	Pos pressures +/-0.1 mmHg, Neg pressures +/-1 mmHg
Accuracy	+/-1.0 mmHg
User Interface	
Single Button Operation	
Operating Modes	Adult NIBP
	Neo NIBP
	Hypertensive NIBP
	Hypotensive NIBP
	Manometer
	Over Pressure (Peak Detect)
	HR Seq. / Alarm Test
	ECG Pacer ON
	Arrhythmia Sequence
	Invasive BP Zero
	Invasive BP 100, 200
	Invasive BP Sequence
NIBP Adult Simulation	
Simulated Pressure	120/80 (97) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
NIBP Neonatal Simulation	
Simulated Pressure	70/40 (51) mmHg
Simulated Heart Rate	95 bpm
Simulated Pulse Volume	0.5 ml
NIBP Hypertensive Simulation	
Simulated Pressure	190/120 (142) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
NIBP Hypotensive Simulation	
Simulated Pressure	80/40 (58) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
ECG Simulation	
Isolated	Yes
Synchronized with NIBP	Yes
R Wave Size	1mV (lead II) +/- 10%
R Wave Width	35 ms
Wave Shape	QRS wave
Connection	10 Snaps
Simulation Rates	70bpm, (95 for neo), Asystole, Arrhythmia, Pacer, HR seq.

HR Sequence / Alarm Test	
•	30 seconds each of:
	30, 60, 90, 120, 45, 160, and 220 bpm
Pacer Simulation	·
Isolated	Yes
Synchronized with NIBP	Yes
Pacer Size	3 mV
Pacer Width	1.2 ms
Respiration Simulation	
Isolated	Yes
Synchronized with NIBP	Yes
Wave Shape	Square Wave
Size	4 Ohm
Simulation rates	20bpm, (40 bpm for neonatal), Apnea, Sequence = 00, 30, 45, 60, 22, 30, 80, 110
Arrhythmia Simulation	
	Cardiac failure sequence: approximately 90 seconds of normal beats interspersed with PVCs and Runs, followed by approx. 30 seconds of VTAC, 30 seconds of VFIB, and 30 seconds of asystole.
Peak Detect/Overpressure	
Resolution	1 mmHg
Invasive Blood Pressure Simulation	
Isolated	Yes
Synchronized with NIBP	Yes
Excitation Voltage	DC range = 3.3 to 5.7 AC range = 6.65 to 11.4p-p
Pressure range	0-250 mmHg
Simulated Pressure accuracy	+/- 1 mmHg
Wiring	+ Excit = $pin 1$ , - Excit = $pin 4$ , + $Sig = pin 3$ , - $Sig = pin 6$
Simulation rates	Dynamic = 120/80, 70/40, 190/120. Static = 0, 100, 200. Step = 0,25,50,100,150,200, 250
Environmental	500p 0,20,100,100,200, 200
Voltage Range	100-240 VAC, 50-60 Hz
Operating	Temperature: 10°C to 35°C (50°F to 95°F), Relative Humidity: 10 to 80% non-condensing, Altitude: 3,000m (9,843ft)
Storage	$-20^{\circ}\text{C to } +60^{\circ}\text{C } (-4^{\circ}\text{F to } +140^{\circ}\text{F})$