

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 / 2amps, 2.1mm, center positive connector) or 4 AA Batteries (with Battery Boost Option)
NIBP Connection	Quick Disconnect, Female
ECG/Resp Connection	10 ECG snaps
IBP Connection	Mini-DIN
Manometer	
Range	- 400 to + 400 mmHg
Precision	0.1 mmHg
Accuracy	+/-1mmHg or 1%, whichever is greater
User Interface	
Single Button Operation	
Operating Modes	Adult NIBP Neo NIBP Hypertensive NIBP Hypotensive NIBP Manometer Peak Detect HR Seq. Alarm Test ECG Pace ON Arrhythmia Sequence Heart Rate Sequence Invasive BP Zero Invasive BP 100, 200 Invasive BP Sequence
NIBP Adult Simulation	
Simulated Pressure	120/80 (100) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
NIBP Neonatal Simulation	
Simulated Pressure	70/40 (55) mmHg
Simulated Heart Rate	95 bpm
Simulated Pulse Volume	0.5 ml
NIBP Hypertensive Simulation	
Simulated Pressure	190/120 (150) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
NIBP Hypotensive Simulation	
Simulated Pressure	80/40 (60) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
ECG Simulation	
Isolated	Yes
Synchronized with NIBP	Yes
R Wave Size	1mV (lead I) +/- 5%
R Wave Width	35 ms
Wave Shape	QRS wave
Connection	10 Snaps

Simulation Rates	70, 95, Asystole, Arrhythmia, Pacer, HR seq.
HR Sequence	
	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
Rate	35 bpm (47 bpm for neonatal)
Simulation rates	20, 40, Apnea, Sequence = 00, 30, 45, 60, 22, 30, 80, 110.
Arrhythmia Simulation	
	Cardiac failure sequence: ~ 90 seconds of normal beats interspersed with PVCs and Runs, followed by ~20 seconds of VTAC, followed by ~35 seconds of VFIB, concluding with ~30 seconds of asystole.
Peak Detect	
Precision	0.1mmHg
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	
Voltage Range	100-240 VAC, 50-60 Hz