

**Technical Specifications for SimCube SC-5**

<b>Physical Dimensions</b>	
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
<b>Manometer</b>	
Range	- 400 to + 400 mmHg
Resolution	Pos pressures $\pm$ 0.1 mmHg, Neg pressures $\pm$ 1 mmHg
Accuracy	$\pm$ 1.0 mmHg
<b>User Interface</b>	
Single Button Operation or Mobilize App Control	
Single Button 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
<b>Single Button Modes</b>	
<b>NIBP Adult Simulation</b>	
Simulated Pressure	120/80 (97) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
<b>NIBP Neonatal Simulation</b>	
Simulated Pressure	70/40 (51) mmHg
Simulated Heart Rate	95 bpm
Simulated Pulse Volume	0.5 ml
<b>NIBP Hypertensive Simulation</b>	
Simulated Pressure	190/120 (142) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
<b>NIBP Hypotensive Simulation</b>	
Simulated Pressure	80/40 (58) mmHg
Simulated Heart Rate	70 bpm
Simulated Pulse Volume	1 ml
<b>ECG Simulation</b>	
Isolated	Yes
Synchronized with NIBP	Yes
R Wave Size	1mV (lead II) $\pm$ 10% (Adult Mode)
R Wave Width	35 ms
Wave Shape	QRS wave

Connection	10 Snaps
Simulation Rates	70bpm, (95 for neo), Asystole, Arrhythmia, Pacer, HR seq.
<b>HR Sequence / Alarm Test</b>	
	30 seconds each of: 30, 60, 90, 120, 45, 60, 160, and 220 bpm
<b>Pacer Simulation</b>	
Isolated	Yes
Synchronized with NIBP	Yes
Pacer Size	3 mV
Pacer Width	1.2 ms
<b>Respiration Simulation</b>	
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
<b>Arrhythmia Simulation</b>	
	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.
<b>Peak Detect/Overpressure</b>	
Resolution	1 mmHg
<b>Invasive Blood Pressure Simulation</b>	
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
Static Pressure Accuracy	± 1 mmHg
Dynamic Pressure Accuracy	± 2mmHg
Simulation rates	Dynamic = 120/80, 70/40, 190/120. Static = 0, 100, 200. Step = 0,25,50,100,150,200, 250
Mobilize SIMULATION RANGES AND MINIMUM STEP SIZE:	
HR	0, 30-240 BPM in 5 digit increments
RR	0-100 BPM in 1 digit increments
NIBP Systolic:	60-230 mmHg in 5 digit increments
NIBP Diastolic:	30-190 mmHg in 5 digit increments
IBP Static	0, 50, 100, 150, 200, 250 mmHg
IBP Dynamic:	Tracks with NIBP dynamic values
<b>Wiring</b>	+ Excit = pin 1, -Excit = pin 4, + Sig = pin 3, -Sig = pin 6
<b>Environmental</b>	
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°C to +60°C (-4°F to +140°F)

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