

NIBP Simulators and Accessories

Model SC-5

Full function NIBP Simulator



Main Features:

- Full function NIBP Simulator
- Oscillometric Simulation
- ECG, Pacer, Respiration
- IBP, Arrhythmia
- Alarm Test, and Leak Test
- Peak Detect
- Compact, Simple to operate

[More....](#)

Model SC-4

Oscillometric NIBP Simulator



Main Features:

- Full function NIBP Simulator
- Oscillometric Simulation
- ECG, Pacer, Respiration
- Alarm Test, and Leak Test
- Peak Detect
- Compact, Simple to operate

[More....](#)

Model SC-3

Basic NIBP Simulator



Main Features:

- NIBP Simulation
- Alarm Test, and Leak Test
- Peak Detect
- Compact, Simple to operate

[More....](#)

SimCube - SC-5 NIBP Simulator

A Compact, Affordable, Full Function NIBP Simulator



SimCube Model SC-5 is a Compact NIBP Simulator designed for evaluating and testing NIBP monitors.

The hand-held **SimCube** is the smallest and easiest to use NIBP monitor tester available. Operation is via one push button. Easily select one of four built-in NIBP test modes. Add the ECG, Respiration, and Pacer simulation option to evaluate patient monitors. Test values are displayed on a large LED display.

SimCube SC-5 NIBP Simulator is the Instrument of choice, for routinely testing and maintaining NIBP monitors.

Features:

- Rugged, Accurate, Portable, Easy to Use.
- One Button Operation.
- Patient Simulation - ECG - Respiration - Pacer
- NIBP Simulation Modes
- Manometer, Adult, Neonatal and Hypertensive

Specifications:

- Display: LED 3 ½ digits>
- Controls: Push button Mode selector.
- LED Indication of mode
- Female Luer lock connector
- Operating Voltage: 110 to 240 VAC Adapter
- Dimensions: 3 x 3 x 3.5 inches(7.6 x 7.6 x 8.9 cm)
- Weight:2.5 lbs (1.1. kg)
- Measurements: Manometer: 0 to 480 mm Hg
Accuracy: ± 1% of reading
Adult: 120/80 (100) mmHg 69 BPM
- Heart Rate: Neonatal: 70/40 (55) mmHg 80 BPM
Hypertensive: 190/120 (150) mmHg 69 BPM ECG: 1 mV Amp R Wave.
- Respiration: 4 W SQ Wave 35 BPM, Pacer: 3 mV Amp, 1.2 ms width

SimCube - SC-4 NIBP Simulator

A Compact, Affordable, Function NIBP Simulator



SimCube SC-4 NIBP Simulator. is an NIBP Simulator designed for evaluating and testing NIBP monitors.

The SC-4 NIBP function has the following modes: Manometer (0-400mmHg), Adult (120/80 mmHg), Neonatal (70/40 mmHg), and Hypertensive (190/120 mmHg). A single button toggles through each of the modes. Ten snaps provide 3-, 5-, or 12-lead electrocardiogram (ECG) as well as Pacer, Resp, a Heartrate/Resp sequence and an Alarm Test mode. Peak Detect (Overpressure) measurement function is provided.

The **SimCube NIBP** simulator provides accurate NIBP simulation in an amazingly convenient, rugged, and affordable package. As you use your simulator on various patient monitors it is important to understand what sort of results to expect, what they mean, and how to optimize them.

The Battery Option (shown here as part of the [SC-4KIT](#)) includes both our Battery Boost module and a specially-modified carrying case. The Battery Boost module produces the 6V supply required by the SimCube from a set of 4 "AA" alkaline or NiMH batteries. The 6V output is maintained even as the battery voltage drops from 6V down to around 3V during discharge, providing for 150-250 accurate NIBP simulations from a single set of batteries. The case also provides storage for all NIBP adapters as well as the Bulb Adapter, spare batteries, and AC adapter. The Battery Boost module slides easily out of the case for quick battery replacement. The AC adapter is stored in a convenient outside zip pocket, and the Battery Boost module automatically switches to AC operation whenever the unit is plugged in. AC status and battery status are shown on the Battery Boost module LED display. Compatible with [SC-3](#), [SC-4](#) and [SC-5](#)



SC4 KIT
Includes SC4
and NIBP Adapters

Product Specifications

SC-5, SC-4, SC-4

Biomedical Test and Measurement Instruments Technical Specifications for all SimCube

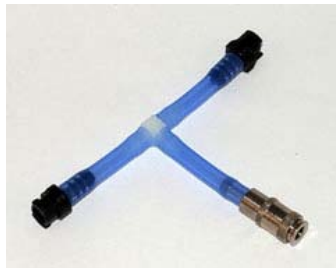
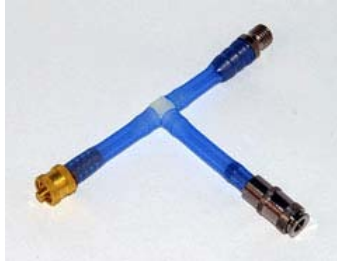
Physical Dimensions	SC-5	SC-3/4
Size	3"x 3" x 3.5" (7.6cm X 7.6cm X 8.9cm)	3"x 3"x 3.5" (7.6cm X 7.6cm X 8.9cm)
Weight	2.5 Lbs	2.5 Lbs
Power	External A/C Adaptor (Output: 6VDC / 2amps, 2.1mm, center positive connector) or 4 AA Batteries (with Battery Boost Option)	External A/C Adaptor (Output: 6VDC / 2amps, 2.1mm, center positive connector) or 4 AA Batts (with Battery Boost Option)
NIBP Connection	Quick Disconnect	Quick Disconnect
ECG/Resp Connection	10 ECG snaps	10 ECG snaps
IBP Connection	Mini-DIN	
Manometer		
Range	- 400 to + 400 mmHg	0 to +480 mmHg
Precision	0.1 mmHg	0.5 mmHg
Accuracy	+/-1 mmHg	+/-1% of reading
User Interface		
Single Button Operation		
Operating Modes	Adult NIBP Neo NIBP Hypertensive NIBP Hypotensive NIBP Manometer Peak Detect / Overpressure HR Seq. Alarm Test ECG Asystole ECG Resp OFF ECG Pace ON Arrhythmia Sequence Invasive BP Zero Invasive BP 100, 200 Invasive BP Sequence	Adult NIBP Neo NIBP Hypertensive NIBP Manometer Peak Detect / Overpressure Alarm Test (SC-4) ECG Asystole (SC-4) ECG Resp OFF (SC-4) ECG Pace ON (SC4)
NIBP Adult Simulation		
Simulated Pressure	120/80 (97) mmHg	120/80 (97) mmHg
Simulated Heart Rate	70 bpm	70 bpm
Simulated Pulse Volume	1 ml	1 ml
NIBP Neonatal Simulation		
Simulated Pressure	70/40 (51) mmHg	70/40 (51) mmHg
Simulated Heart Rate	95 bpm	95 bpm
Simulated Pulse Volume	0.25 ml	0.25 ml
NIBP Hypertensive Simulation		
Simulated Pressure	190/120 (142) mmHg	190/120 (142) mmHg
Simulated Heart Rate	70 bpm	70 bpm
Simulated Pulse Volume	1 ml	1 ml
NIBP Hypotensive Simulation		
Simulated Pressure	80/40 (58) mmHg	
Simulated Heart Rate	70 bpm	
Simulated Pulse Volume	1 ml	
ECG Simulation		(SC-4 only)

Isolated	Yes	Yes
Synchronized with NIBP	Yes	Yes
R Wave Size	1mV (lead I) +/- 5%	1mV (lead I) +/- 5%
R Wave Width	35 ms	35 ms
Wave Shape	QRS wave	QRS wave
Connection	10 Snaps	10 Snaps
Simulation Rates	70, 95, Asystole, Arrhythmia, Pacer,	70 bpm (95 bpm for neonatal),
	HR seq.	Asystole, Pacer
HR Sequence (Alarm Test)		(SC-4 only)
	30 seconds each of: 30, 60, 90, 120, 45, 160, and 220 bpm	30 seconds each of: 30, 60, 90, 120, 45, 160, and 220 bpm
Pacer Simulation		(SC-4 only)
Isolated	Yes	Yes
Synchronized with NIBP	Yes	Yes
Pacer Size	3 mV	3 mV
Pacer Width	1.2 ms	1.2 ms
Respiration Simulation		(SC-4 only)
Isolated	Yes	Yes
Wave Shape	Square Wave	Square Wave
Size	4 Ohm	4 Ohm
Rate	20 bpm (40 bpm for neonatal)	35 bpm (47 bpm for neonatal)
Simulation rates	30 seconds each of: Apnea, 30, 45, 60, 22, 80, 110.	30 seconds each of: Apnea, 30, 45, 60, 22, 80, 110.
Arrhythmia Simulation		
	Cardiac failure sequence: 90 seconds of normal beats interspersed with PVCs and Runs, followed by 30 seconds of VTAC, followed by 30 seconds of VFIB, concluding with 30 seconds of asystole.	
Peak Detect		
Precision	1mmHg	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	100-240 VAC, 50-60 Hz

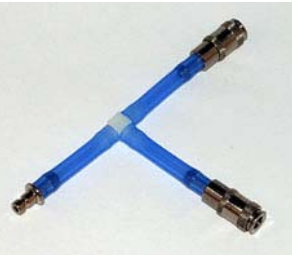
NIBP Simulator Accessories

SC-5, SC-4, SC-4

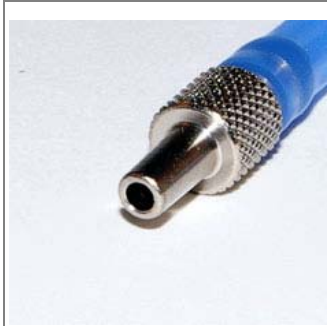
NIBP Adapters - Each SimCube order includes your choice of NIBP adapter. Extra adapters may be [ordered](#) at additional cost. Four adapter types are available (note that this is not a definitive guide to which adapters are used for all monitor types):



Marquette style (ADAPT-M): A freely-rotating twist-on connector, used on GE/Marquette monitors.



Quick Disconnect (ADAPT-Q): A push-pull quick disconnect connector used on HP monitors.



Luer (ADAPT-L): A friction-based connector used on Spacelab monitors and most neonatal monitors.