









# Test Equipment

Accessories		
P/N	PICTURE	DESCRIPTION
#EV-ADAPT-D*		<b>DINAMAP/Critikon style:</b> A threaded screw-on connector, used on Critikon and MDE monitors.
#EV-ADAPT-M*		<b>Marquette style:</b> A freely-rotating twist-on connector, used on GE/Marquette monitors.
#EV-ADAPT-Q*		<b>Quick Disconnect:</b> A push-pull quick disconnect connector used on HP monitors.
#EV-ADAPT-L*		<b>Luer:</b> A friction-based connector used on Spacelab monitors and most neonatal monitors.
#EV-IBP-Merlin**	Not Shown	IBP cable adapter for HP Merlin
#EV-IBP-MDE**	Not Shown	IBP cable adapter for MDE/Spacelabs
#EV-IBP-GE**	Not Shown	IBP cable adapter for GE
#EV-IBP-Datascope**	Not Shown	IBP cable adapter for Datascope

P/N	PICTURE	DESCRIPTION
#EV-EXTEND		<b>ECG Snap Extenders</b> The SimCube includes 10 snaps on its side for 12-lead ECG, Respiration and Pacer simulation. If using clips instead of snaps to connect to the SimCube, a set of snap extenders is recommended.
#EV-BULB		<b>Bulb Adapter</b> This hand bulb adapter is utilized in Peak Detect Mode for SimCube models SC-3 and SC-4.
#EV-CASE		<b>Nylon Carrying Case</b> The SimCube comes with a vinyl covering that offers basic protection for benchtop use. If your work is mostly in the field, this padded nylon carrying case is recommended for added security.
#EV-Cuff Jacket Duo		<b>Cuff Jacket Duo</b> The Cuff Jacket provides an extremely convenient tool for keeping cuffs from unraveling during testing as well as controlling the volume in the cuff during adult and hypertensive simulations.
#EV-Battery Boost Option	Not Shown	<b>Battery Boost Option</b> The battery boost option provides over 200 NIBP simulations with 4 AA alkaline batteries. Includes carrying case.

\*NIBP Adapters Each SimCube order includes your choice of (1) free NIBP adapter and should be specified at time of order. 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).

\*\*IBP Cables Each SimCube model SC-5 and SC-5 kit includes your choice of (1) IBP cable adapter.

# Test Equipment

## **#EV-SC4+OXKIT** *SimCube SC-4 with OxSim, Battery Boost Option, Carrying Case, all NIBP Adapters and Cuff Jacket*

The SimCube SC-4 and OxSim Kit includes an SC-4 (all of the functions of the SC-1, SC-2, and SC-3 with the addition of an automated Alarm Test mode), an OxSim optical pocket sized SpO<sub>2</sub> Simulator, Battery Boost Option, all of the NIBP adapters and the carrying case. Unbelievable portability for the world's first comprehensive vital signs simulator system.



## **#EV-SC5+OXKIT** *SimCube SC-5 with OxSim, Battery Boost Option, Carrying Case, all NIBP Adapters and Cuff Jacket*

The *SimCube* SC-5 and OxSim Kit includes an SC-5 (all of the functions of the SC-1, SC-2, SC-3, and SC-4 with the addition of an Invasive Pressures and Arrhythmia), an OxSim optical pocket sized SpO<sub>2</sub> Simulator, Battery Boost Option, all of the NIBP adapters and the carrying case. Unbelievable portability for the world's first comprehensive vital signs simulator system.



## **#EV-SC-5** *SimCube NIBP/ECG/Resp Simulator with Invasive Pressures, Arrhythmia*

This Model includes all of the features of the SC-1, SC-2, SC-3, and SC-4 with the addition of an Invasive Pressures and Arrhythmia. Combined with the new expanded NIBP's manometer range (-400 to +400) and the new Leak Testing Modes. The SC-5 will replace 3 of your more traditional devices—patient simulators, NIBP analyzers and digital manometers. The SC-5 is compatible with the **Battery Boost Option**.



## **#EV-SC-5KIT** *SimCube SC-5 with Battery Boost Option, Carrying Case, all NIBP Adapters and Cuff Jacket*

The *SimCube* SC-5 Kit includes an SC-5 (see SC-5 description, with the addition of Invasive Pressures and Arrhythmia), a Battery Boost Option, all of the NIBP adapters, the Cuff Jacket and the carrying case. Virtually everything you need for doing preventative maintenance and troubleshooting in one very small package. The SC-5 Kit **includes** the **Battery Boost Option**.








## **#EV-OX-1** *OxSim Optical SpO<sub>2</sub> Simulator*

The OxSim is the perfect complement to the SimCube family. It is Optical (tests the whole system, including the sensor), pocket sized and runs on one AA alkaline battery for 10 hours! 4 Oxygen saturations, 3 pulse rates and a low perfusion mode all at the touch of a button make it an indispensable tool for any biomed. OxSim is small enough to fit right into your SimCube carrying case and can be run off the same battery boost option as your SimCube, simultaneously!



# Test Equipment

MODEL/DESCRIPTION	IMAGE
<p><b>#EV-SC-1</b> <i>SimCube</i> NIBP Simulator</p> <p>The basic <i>SimCube</i> combines the functions of both a manometer and an NIBP simulator. <i>SimCube</i>'s NIBP function has four modes: Manometer (0-480mmHg), Adult (120/80mmHg), Neonatal (70/40mmHg), and Hypertensive (190/120mmHg). A single button toggles through each of the modes. This model is <b>not</b> compatible with the <b>Battery Boost Option</b>.</p>	 A black rectangular device with a digital display showing '8888' and a control knob. The front panel has four mode selection buttons labeled 'NIBP Manometer', 'NIBP Adult (120/80)', 'NIBP Neo (70/40)', and 'NIBP Hyp (190/120)'. A hand is holding the device from the right side.
<p><b>#EV-SC-2</b> <i>SimCube</i> NIBP Simulator with ECG/Resp/Pacer</p> <p>This configuration of <i>SimCube</i> includes four NIBP modes: Manometer (0-480mmHg), Adult (120/80mmHg), Neonatal (70/40mmHg), and Hypertensive (190-120mmHg), with the addition of 10 snaps for 3-, 5-, or 12-lead electrocardiogram (ECG) simulation. Pacer simulation and respiration simulation allow testing of primary patient monitor hardware circuits. This model is <b>not</b> compatible with the <b>Battery Boost Option</b>.</p>	 A black rectangular device similar to the SC-1, but with a white cable connected to the top right. The front panel has the same four mode selection buttons as the SC-1. A hand is holding the device from the right side.
<p><b>#EV-SC-3</b> <i>SimCube</i> NIBP Simulator with Peak Detect</p> <p>The SC-3 NIBP function has the following modes: Manometer (0-480mmHg), Adult (120/80mmHg), Neonatal (70/40mmHg), and Hypertensive (190/120mmHg). A single button toggles through each of the modes. The Peak Detect (Overpressure) mode measures the peak pressure produced by the patient monitor. The readout latches the highest pressure value sensed, in 0.5mmHg steps. The SC-3 is compatible with the <b>Battery Boost Option</b>.</p>	 A black rectangular device similar to the SC-1, but with a different front panel layout. The mode selection buttons are arranged differently, and there is a 'Peak Detect' button. A hand is holding the device from the right side.
<p><b>#EV-SC-4</b> <i>SimCube</i> NIBP Simulator with Peak Detect, ECG/Resp/Pacer/Alarm Test</p> <p>The SC-4 NIBP function has the following modes: Manometer (0-480mmHg), Adult (120/80mmHg), Neonatal (70/40mmHg), and Hypertensive (190/120mmHg). A single button toggles through each of the modes. Ten snaps provide 3-, 5-, or 12-lead ECG as well as Pacer, Resp, and an automated Heartrate/Resp sequence. Peak Detect (Overpressure) measurement function is also provided. The SC-4 is compatible with the <b>Battery Boost Option</b>.</p>	 A black rectangular device similar to the SC-1, but with a more complex front panel. The mode selection buttons are arranged differently, and there are additional buttons for 'ECG', 'Pacer', 'Resp', and 'Alarm Test'. A hand is holding the device from the right side.
<p><b>#EV-SC-4KIT</b> <i>SimCube</i> SC-4 with Battery Boost Option, Carrying Case, all NIBP Adapters and Cuff Jacket</p> <p>The <i>SimCube</i> Kit includes an SC-4 (see SC-4 Description), a Battery Boost Option, all of the NIBP adapters and the carrying case. The Cuff Jacket is also included, providing a perfect solution for controlling cuff volume during simulations as well as preventing disposable cuffs from unraveling during testing. The SC-4KIT includes the <b>Battery Boost Option</b>.</p>	 A black carrying case for the SC-4 device. The case is open, showing the SC-4 device inside, along with various cables and adapters. The case lid has the text 'PRONK TECHNOLOGIES' and '(800) 541-9802' printed on it.

# Test Equipment

**NEW**

## SC-5 SimCube + OxSim (Item # EV-SC5+OXKIT)

NIBP  
ECG  
SpO<sub>2</sub>  
RESP  
IBP  
ARRHYTHMIA  
MANOMETER



One Button Operation  
Runs on AA alkalines  
Rugged 1/8" aluminum  
Affordable  
No Mandrels  
Overpressure and Leak Test Modes

### Experienced, Innovative Engineering

SimCube and OxSim were developed by Pronk Technologies' founder, who is also a former director of Engineering from Medical Data Electronics (MDE). Not only does he have 18 years of experience designing medical devices, he also invented the NIBP circuit on the Escort 100.

#### SimCube Reliability

Prior to release, the SimCube design was subjected to extensive life testing. At the equivalent of 3 years' continuous use, some visible wear was identified on the plastic parts. A sealed bearing race was added to further reduce friction, extending the life of the mechanical parts **well** beyond 3 years.

#### SimCube Rugged Design

- SimCube is protected by an 1/8" inch extruded aluminum housing
- **Drop tested at 3.5 feet 50 with no failures!!!**

#### SimCube Pulse Replication

Pulse shape and size automatically adapt to changing cuff pressures in order to accurately replicate the artery's response to the cuff inflation on the arm.

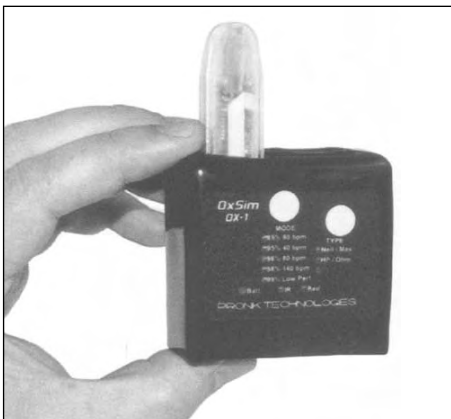
- **Extremely Portable** 3"x 3" cube proves good things can come in small packages
- **One-Button Operation** Select from 7 different modes and 21 features at the touch of a button
- **Accurate Preset NIBP's** 120/80, 70/40 (Neo), 190/120, 80/40
- **Built-in Manometer** -400 to +400mmHg
- **12 Lead ECG** 10 different ECG Heart Rates, *synchronized* w/NIBP
- **Invasive Pressures** 7 different static, 3 different dynamic invasive pressures
- **Arrhythmia** Asystole, Brady, Tachy, PVC, Couplet, Run, V-Tach, V-Fib
- **Respiration** 9 different Respiration rates
- **Pacer** Simulate a paced patient
- **Peak Detect** Verify Overpressure Limits
- **Battery Boost Option** 4 Alkaline or NiMH AA size batteries, 150+ **consecutive** NIBP simulations, Battery condition indicator, Automatic AC detection

Rugged Construction - The SimCube is constructed of structural 1/8" wall extruded aluminum, affording superior strength and corrosion resistance. The unit is encased in a vinyl jacket for scratch resistance and quiet operation.

**SimCube** - A Dynamic NIBP simulator with ECG, Respiration, Invasive Pressures, Arrhythmia, built-in Manometer, and Pacer!



**OxSim** - An Optical Pocket-sized SpO<sub>2</sub> simulator that runs on one AA alkaline battery or drops into the SimCube carrying case and connects directly to the SimCube Battery Boost Option.



SpO<sub>2</sub> Simulations will never be the same!!!!

- Optical oxygen saturation simulations
- Automatic detection of sensor type
- 4 different Saturation rates
- 3 different Pulse Rates
- Low Perfusion Simulation
- IR and Red LED detection
- Runs on one AA alkaline battery!
- Drop tested 50 times with no failures