VitalSim™

Vital signs for manikins and skill trainers

The VitalSim Vital Signs Simulator is the heart of Laerdal’s VitalSim product line. When connected to VitalSim enabled manikins and skills trainers, VitalSim simulates ECGs, heart sounds, fetal heart tones, breath sounds, bowel sounds, blood pressure and pulses. VitalSim allows instructors to run preprogrammed scenarios, as well as write their own custom scenarios to meet their specific learning objectives. Data logging and download functions provide valuable information for use in performance assessment and debriefing.

- VitalSim simulates a comprehensive array of core vital signs for effective scenario-based training and skills training
- VitalSim is logistically flexible and cost effective, working with a wide range of manikins for training in hospital and prehospital care providers
- Preprogrammed and programmable scenarios provide standardized training and ease of use
- Cardiac capabilities include 1100+ ECG rhythms and variations, pacing and defibrillation
- Auscultation of normal and abnormal heart, breath and bowel sounds
## VitalSim™ Product Specifications

### ECG
- Synchronized variable rate, rhythm, abnormalities and duration
- Programmable waiting rhythms
- Programmable scenario-based algorithms for instructor control
- Lead ECG, pacing, and defibrillation capabilities (25–360)*

### Blood Pressure
- Auscultated and palpated blood pressure simulator
- Korotkoff sounds synchronized with ECG
- Systolic and diastolic pressure may be individually set in steps of 2 mmHg
- Auscultatory Gap, on/off feature
- Korotkoff sound volume control in 10 steps, 0–9

### Palpated Pulse Simulator
- Controls brachial, radial and carotid electronic pulses
- Paces synchronized with ECG
- Pulse strengths dependent on BP
- Brachial pulse off when BP cuff pressure is above 20 mmHg
- Radial pulse off when BP cuff pressure is above systolic BP level
- Bilateral carotid pulse on adult ALS manikins only

### Logging/Scenario Functions – VitalSim
- The PC editor allows for creating and editing scenarios
- Up to 10 scenarios and 25 logs held in the VitalSim Control Unit
- Logs may be downloaded to PC for after-action review

### VitalSim™ Includes:
- Control Unit including battery case and batteries (6),
- Remote Control including batteries (4),
- Manikin to Unit Cable, Operating Device to Control Unit Cable, USB Cable for connection to PC,
- AC Adapter, Software CD, Carry Case and Directions for Use.

VitalSim functionalities vary with manikin capabilities.
See manikin specifications for individual product capabilities.

---

### VitalSim Control Unit
- Heart sounds synchronized with programmable ECG
- Aortic Stenosis
- Atrial Septal Defect
- Pulmonary Stenosis
- Friction Rub
- Austin Flint Murmur
- Diastolic Murmur
- Systolic Murmur

### Sounds
-corresponding to heart sounds
- Lung sounds synchronized with breathing rate, 0–60 BPM
- Individual lung or bilateral sound selection
- Coarse Crackles
- Fine Crackles
- Normal Breath Sounds
- Pneumonia
- Normal and abnormal bowel sounds
- Normal Bowel
- Hyperactive Bowel

### VitalSim™ Include:
- Prerecorded or live feed voice sounds
- Cough
- Vomit
- Moan
- Scream
- SOB Breathing
- Yes
- No
- Cry (infant)

*Compatible with manual, semi-automatic and automatic external defibrillators

---

For more product information, please visit www.laerdal.com

For more information, please call (800) 431-1055 US, (888) 523-7325 Canada, (800) 567-9987 Quebec

---

USA and Latin America:
Laerdal Medical Corporation
167 Myers Corners Road
Wappingers Falls, NY 12590
(800) 431-1055 or
(845) 297-7770
FAX (800) 227-1143
www.laerdal.com

Canada:
Laerdal Medical Canada Ltd.
151 Nashdene Rd., Unit #45
Toronto, ON M1V 4C3, Canada
(888) LAERDAL
(416) 298-9600
FAX (416)-298-8016
savelives@laerdal.ca

Manufactured for: Laerdal Medical AS, Stavanger, Norway
©2006 Laerdal Medical Corporation. All rights reserved. Printed in the USA.
PRO-ML02-0032 Rev. B   #3703