

*advanced simulation in emergencies*



*The latest SimMan software employs touch-screen technology.*



## SimMan

The Laerdal SimMan offers educators the ability to provide realistic and challenging scenario based simulation to test learners' critical thinking and clinical decision-making skills.

With realistic anatomy, accurate clinical functionality and PC-software driven operation with integrated video debriefing, SimMan provides numerous educational opportunities for healthcare professionals.



**Laerdal**  
helping save lives

[www.laerdal.com](http://www.laerdal.com)

## 211-00050 SimMan Manikin

Includes: Manikin, BP cuff, SpO<sub>2</sub> probe, Air/CO<sub>2</sub> tube, Operating software, Directions for Use.

## 210-090xx Peripherals Kit Complete

Includes: Simulated patient monitor, USB web-camera, USB hub, PDA as remote control, Link Box and laptop.

## 210-091xx Peripherals Kit Standard

Includes: Simulated patient monitor, USB web-camera, USB hub, PDA as remote control and Link Box.

\*xx = language version

## Optional accessory:

210-01050	Compressor 230-240V
210-01150	Compressor 110V
381220	Regulator Unit
381850	Portability Kit
381655	Transportation Case SimMan
381602	Transportation Case Compressor
245-18050	Transportation Case Simulator Peripherals



### Airway Features

- Multiple airway skills:
  - Bag/valve mask ventilation
  - Oropharyngeal and nasopharyngeal airway placement
  - Combitube placement
  - LMA placement
  - Endotracheal tube intubation
  - Retrograde intubation
  - Fiberoptic intubation
  - Light Wand intubation
  - Transtracheal jet ventilation
  - Needle cricothyrotomy
  - Surgical cricothyrotomy
  - Fiberoptic bronchoscopy
- Exhaled CO<sub>2</sub> Flow
- Spontaneous respiration and variable respiratory rate
- Trismus, tongue edema, pharyngeal obstruction and laryngospasm
- Decreased cervical range of motion
- Decreased lung resistance
- Pneumothorax decompression at 3 sites and chest tube insertion
- Stomach decompression

### Circulatory Skills and IV Drug Administration

- IV training arm with replaceable skin and veins
- Sites for subcutaneous and intramuscular injections

### Pulses

- Carotid, femoral, brachial, radial, dorsalis pedis and posterior tibialis pulses
- Pulses synchronized with ECG or compressions
- Pulse strength dependent on BP selected and pulse sites

### Cardiac Functions

- Extensive ECG library with rate from 20-200
- Compression artifacts on ECG during CPR

- Defibrillation/Cardiac monitoring - 3 lead (4 connectors) ECG monitoring or via the defib paddles
- External Pacing – with variable pacing threshold

### CPR

- ABC check
- Ventilation
- Chest compression
- ECG and heart rate can be displayed on the simulated monitor

### Blood Pressure

- Can be taken automatically, auscultated or palpated
- Blood pressure arm with Korotkoff sounds synchronized with pulse for auscultation and palpation
- Easily varied BP: Systolic and diastolic can be set independently

### Genitalia for Urinary Catheterization

- Male or female genitalia can be added to the simulator for urinary catheterization procedures

### Sounds

- Simulator "speaking" through instructor microphone
- Heart sounds synchronized with ECG
- Independent left and right lung sounds
- Bowel sounds
- Vocal sounds, pre- or user-programmed
- Independent volume adjustment

### Software operation

- Easy to operate
- Manual control over all parameters
- Scenario operation including Trend and Handlers preprogrammed by user

### Video debriefing

- Web-camera recording
- Review event log together with synchronized recording of patient monitor and in-room video
- Stand alone debrief viewer for off site review

### Simulated patient monitor

- Highly configurable
- Simulate several parameters including ECG (2 traces), SpO<sub>2</sub>, CO<sub>2</sub>, ABP, CVP, PAP, PCWP, NIBP, TOF, Cardiac output and other
- Viewable X-rays and snap shoot of 12 lead ECG
- Touch screen operation
- Multi level alarm

### Remote control

- PDA as remote communicates through software via Bluetooth
- Easy-to-use software similar to PC user interface

### Recommended Laptop Specification

Type:	Dell Latitude
Processor:	Pentium M, 1.8GHz
HDD:	60 GB
RAM:	512 MB min.
System:	Win XP Pro
Screen:	Dual screen with 1280 x 1024
Mouse:	2 button scroll wheel mouse
Other:	CD-RW
	RS-232 (serial port)
	Microphone input
	Headphone output
	2-4 USB ports
	Internal Bluetooth
	Built-in Ethernet LAN

### Optional Module Set Available

- SimMan Trauma Module Set
- SimMan Nursing Wound Module Set
- SimMan Bleeding Control Module Set

For more product information, please visit [www.laerdal.com](http://www.laerdal.com)



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