SimMan® Essential

A realistic, full-body adult, wireless patient simulator, SimMan® Essential offers comprehensive clinical functionality to teach the core skills of airway, breathing, cardiac, and circulation management.

Manage SimMan Essential and all other Laerdal PC-operated simulators with the LLEAP unified software platform. This means you will find scenarios, conduct simulation training, and develop new scenarios to help meet your learning objectives with greater ease.

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SimMan® Essential

**Multiple Airway Skills/Features**
- Controlable open/closed airway, automatically or manually controlled
- Head lift/Chin lift
- Jaw thrust with articulated jaw
- Suctioning (Oral and Nasopharyngeal)
- Bag-mask ventilation
- Orotracheal/Nasotracheal intubation
- Combitube, LMA, and other airway placement
- Endotracheal tube intubation
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle/Surgical cricothyotomy
- Variable airway resistance on/off
- Right mainstem intubation
- Stomach distention

**Airway Complications**
- Can’t intubate/Can’t ventilate
- Detection of improper head position
- Tongue edema
- Pharyngeal swelling
- Laryngospasm
- Trismus

**Breathing Features**
- Simulated spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO2 exhalation
- Normal and abnormal breath sounds
- 6 posterior auscultation sites
- 5 anterior auscultation sites

**Breathing Complications**
- Needle thoracentesis – bilateral
- Unilateral and bilateral chest movement
- Unilateral, bilateral and Lobar breath sounds
- Chest tube insertion - bilateral

**Cardiac Features**
- Extensive ECG library
- Heart sounds – four anterior locations
- ECG rhythm monitoring (4 wire)
- 12 lead ECG display
- Defibrillation and cardioversion
- Pacing

**Circulation Features**
- BP measured manually by auscultation of Korotkoff sounds
- Carotid, femoral, radial, dorsalis pedis, posterior tibialis pulses and brachialis (only left side) synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected and logged

**CPR**
- Compliant with 2015 Guidelines
- CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts
- Realistic compression depth and resistance
- Detection of depth, release and frequency of compressions
- Hand position sensor

**Vascular Access**
- IV arm (right arm) establish IV
- Intraosseous access (tibia and sternum)

**System Features**
- Wireless instructor computer with LLEAP software
- Control multiple manikins from 1 interface
- Control simulation from anywhere on your network
- Use Manual Mode to run “on-the-fly” for total control over all parameters
- Utilize Automatic Mode with pre-programmed scenario for a simple and standardized way to run a simulation
  - Patient cases utilizing physiological and pharmacological models
  - Pre-programmed scenarios
  - Self-authored content

**Optional Patient Monitor**
- Touch-screen simulated patient monitor provides concise clinical feedback for physiological parameters
- The monitor’s color screen is configurable and provides multiple simulated parameters, each presenting multi-level alarms
- Simulated parameters include ECG (2 traces), Sp02, CO2, ABP, CVP, MAP, PCWP, NIBP, TOF, Cardiac output, Temperature (core and peripheral), additional and programmable parameters e.g. ICP
- X-Ray Display
- 12 lead ECG
- Custom Image Display
- Custom Video Display
- Oxygen saturation and waveform

**Optional Bleeding System**
- Internal bleeding system to simulate traumatic injuries
- Simulation of bleeding at multiple sites
- Arterial and venous
- Vital signs automatically respond to blood loss & therapy
- Works with various wound modules & moulage kits

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>213-02150</td>
<td>SimMan Essential Medium</td>
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<tr>
<td>213-02250</td>
<td>SimMan Essential Dark</td>
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<tr>
<td>213-02350</td>
<td>SimMan Essential Light</td>
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</tbody>
</table>

Includes: SimMan Essential Manikin with Fully Articulating Pelvis, LLEAP Software and License, Simulated Patient Cables, USB Headset/ Microphone, Storage Bag, 1 Year Manufacturer’s Warranty

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<tr>
<th>Code</th>
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<tr>
<td>400-10201</td>
<td>Laptop Instructor/Patient Monitor</td>
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<td>Tablet-PC Instructor/Patient Monitor</td>
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<td>400-09501</td>
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<td>400-29301</td>
<td>All In One Panel PC Instructor/ Patient Monitor</td>
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**OPTIONAL ACCESSORIES**

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<td>Rugged Carry Case</td>
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<td>210-01750</td>
<td>Compressor</td>
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<tr>
<td>216-00441</td>
<td>SimView System</td>
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**Operation**
Customize your SimMan® Essential operation with 4 LLEAP instructor computer and simulated patient monitor options.

**SimCenter**
Visit www.laerdal.com/simcenter to learn how to optimize your simulation training using SimCenter™ and SimMan Essential

| Access to validated, standardized content from industry experts |
| SimStore™         |
| Access to validated, standardized content from industry experts |
| SimManager™       |
| A suite of online tools that allows you to fully optimize your entire simulation center operation |
| SimView™          |
| An integrated debriefing solution giving you the ability to study simulation events more closely |

**Services**
Laerdal offers comprehensive Educational Services to support your curriculum, and Technical Services to meet your product servicing needs. Whether you are setting up a one-room simulation site or a multi-bed simulation center, Laerdal can help.

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Visit Laerdal.com/SimManEssential for a complete list of specifications, parts, accessories and services.