



Laerdal[®]
helping save lives



Improving patient safety



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.



laerdal.com

SimMan® Essential

MULTIPLE AIRWAY SKILLS/FEATURES

- Controllable open/closed airway; automatically or manually controlled
- Head tilt/Chin lift
- Jaw thrust w/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 cricothyrotomy
- Variable airway resistance on/off
- Right mainstem intubation
- Stomach distention

AIRWAY COMPLICATIONS

- Can't intubate/Can ventilate
- Can't intubate/Can't ventilate
- Detection of proper 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
 - 5 anterior auscultation sites
 - 6 posterior auscultation sites

BREATHING COMPLICATIONS

- Needle thoracostomy – 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 brachials(only left side) synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected and logged

VASCULAR ACCESS

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

CPR

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

EYES

- Blinking eyes, eyes open, closed and partially open
- Eye inserts, manually change pupils

OTHER FEATURES

- Foley catheterization
- Bowel Sounds – four quadrants
- Patient Voice
 - Pre-recorded and custom sounds
 - Instructor can simulate patient's voice wirelessly
- Instructor Communication
 - Multiple instructors communicate using integrated VOI protocol

PHARMACOLOGY

- Manual drug recognition
- Extensive formulary

SYSTEM FEATURES

- Wireless instructor computer with LLEAP software
- Control multiple manikins from I interface
- Control simulation **and simulator** 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
- Simulation controls; fast forward, pause, rewind, save/restore

- Profile editor
- Future prediction and patient outcome display
- Integrated video recorded & debriefing
- Time stamped activities, vital signs, and instructor comments are captured in the event log

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), SpO2, CO2, ABP, CVP, PAP, 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

OPTIONAL DIAGNOSTIC SYSTEM

- Prepared for diagnostic ultrasound training using the Laerdal-SonoSim Ultrasound solution (separate purchase required, for LLEAP operation only).

ORDERING INFORMATION

213-02001 SimMan Essential

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

214-02001 SimMan Essential Bleeding

Includes: SimMan Essential Bleeding Manikin, LLEAP Software and License, Simulated Patient Cables, Storage Bag, 1 Year Manufacturer's Warranty

400-10201 Laptop Instructor/Patient Monitor

400-09201 Tablet-PC Instructor/Patient Monitor

400-09501 Rugged Tablet Instructor/Patient Monitor

400-29301 All In One Panel PC Instructor/ Patient Monitor

OPTIONAL ACCESSORIES

400-96050 Webcam

212-07150 Rugged Carry Case

210-01750 Compressor

216-00441 SimView System

212-07450 Bleeding Modules

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



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.

Visit Laerdal.com for a complete listing of parts, accessories, and consumables



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