



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.

www.laerdal.com



Essential to successful simulation



Making a difference

Simulation has gathered increasing acceptance over the years as an integral part of healthcare training and a fundamental approach to help improve patient safety. The challenge now for educators is how to make it more accessible to the wider healthcare community, so that the educational benefits can be experienced by both healthcare practitioners and ultimately, the patients they care for. SimMan Essential has been designed to meet this challenge.

A complete mobile solution

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. With 'simplicity of use' being a core principle of its design, both novice and experienced instructors can take full advantage of the benefits of simulation.

With a range of Technical and Educational Services and a full complement of patient cases and scenarios to ease instructor preparation time, SimMan Essential ensures simulation programs are successfully supported from the outset.

SimMan® Essential



In-situ and inter-disciplinary team training

Bringing together multi-disciplinary healthcare professionals in their actual workplace to rehearse both common clinical scenarios and emergency critical incidents is a significant component of successful simulation practice. From an emergency situation in a remote location through the process of definitive care in a hospital, SimMan Essential injects greater realism into scenario based training to further enhance and contextualize learning objectives in preparation for real patient encounters.

Building skills competence

While offering unique training opportunities to improve communication skills and develop effective team performance, SimMan Essential will also help build individual student competence in a number of clinical skills. From basic to complex levels of difficulty, skills repetition in simulated practice reduces the potential for error and enhances skills performance when it really matters.



Healthcare



EMS



Military



Professional Education

Success is in the detail



Detect and log pulse palpation



Train proper IV placement



Establish IO access



Practice urine catheterization

Offering educators realistic and engaging scenario based simulation to challenge and evaluate critical thinking and clinical decision-making skills, SimMan® Essential provides numerous educational opportunities for its users.

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 intubation
- Nasotracheal intubation
- Combitube, LMA, and other airway placement
- Endotracheal tube intubation
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle cricothyrotomy
- Surgical cricothyrotomy
- Variable airway resistance on/off
- Right main stem intubation
- Stomach distention
- Decreased range of cervical motion

Other features

- Foley catheterization
- Bowel Sounds – four quadrants
- Patient Voice
 - Pre-recorded sounds
 - Custom sounds
 - Instructor can simulate patient's voice wirelessly
- Instructor Communication
 - Multiple instructors communicate using integrated voice over IP

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

Pharmacology

- Manual drug recognition
- Extensive formulary

CPR

- Compliant with 2010 Guidelines
- CPR compressions 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

ORDERING INFORMATION

213-02001 SimMan Essential

An ideal cost effective simulation solution for multiple healthcare disciplines.

214-02001 SimMan Essential Bleeding

Incorporating an internal blood system offering unique benefits for Military and EMS field based trauma training.

400-10201 Laptop Instructor - Patient Monitor

400-09201 Tablet - PC Instructor - Patient Monitor

400-09501 Rugged-Tablet Instructor - Patient Monitor

400-29301 All InOne Panel PC Instructor - Patient Monitor

Optional accessories:

212-07150 Rugged Carry Case

400-96050 Webcam

210-01750 Compressor

212-07450 Bleeding Modules

System and Product Features

Circulation features

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

Cardiac features

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

Eyes

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

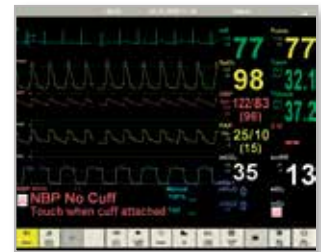


System features

- 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
- Simulation controls; fast forward, pause, rewind, save/restore
- Profile editor
- Future prediction and patient outcome display
- Integrated video 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, ABR, 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 and bleeding treatments at multiple sites
- Arterial and venous
- Vital signs automatically respond to blood loss & therapy
- Works with various wound modules & moulage kits



Creating An Environment For Success

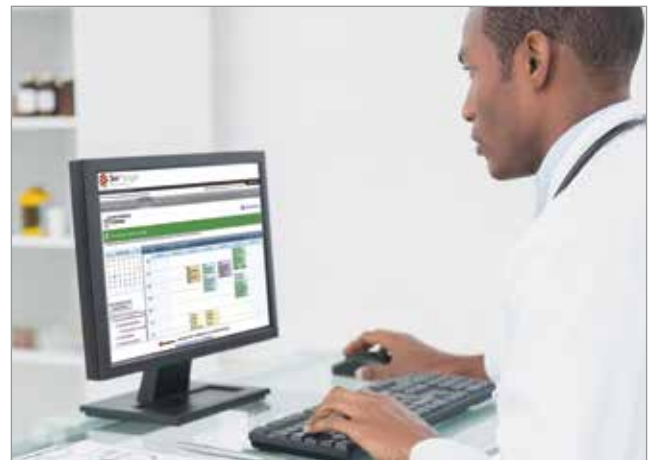
From the simulation novice to sophisticated developers, SimCenter™ has the tools and services to help every user realize their full potential. Visit Laerdal.com/SimCenter to learn how to optimize your simulation training using SimCenter and SimMan® Essential.



Standardized scenarios for SimMan® Essential from SimStore™ offer expert authored, validated content that help to boost your productivity while ensuring consistent educational experiences for your learners. We've partnered with leading associations and industry experts to create a rich content library that has thousands of products available and continues to grow every day.



SimManager™ improves the effectiveness and efficiency of simulation and training programs by managing and streamlining their operations and educational initiatives. Calendar activities, create assignments, and watch how SimManager reports on all aspects of simulation center activity and utilization.



SimView™ is an integrated debriefing solution that captures and records audio and video of simulation and other learning activities. Each simulation action can be recorded, studied, replayed and logged to give you and learners every opportunity to evaluate each learning experience completely.



Your Complete Solution

Laerdal **Services...** supporting you all the way

Whether you are educating future healthcare providers or refreshing the skills of existing healthcare professionals, your time is valuable. We understand that you want to spend less time on developing complex scenarios, programming a simulator, maintaining equipment and troubleshooting, and spend time on what really matters – your students.

The Laerdal Services portfolio is both extensive and comprehensive in anticipation of these needs. From demonstrating the unique benefits of simulation to guiding you through your equipment choices, from taking the product out of the box to routinely checking that it maintains peak performance, from understanding your learning objectives to helping you build appropriate teaching scenarios - Laerdal Services will take your training programs step by step along the road to success.

Please speak to your local Laerdal sales representative for full details about the following services.



Introduction Course

On completion of this two day course, participants will be able to prepare and operate the simulator using LLEAP as well as modify and run scenarios using an instructional design process.



Teaching with Scenarios

Class time includes a review of scenario learning goals and supporting material, identification of equipment needs, learner roles, correct treatment parameters, and instruction on the facilitation of a guided reflection of the simulation experience.



Customized Instruction

This consultative service is ideal for groups that prefer instruction at their facility. Educational Services Specialists will plan a tailored session just for you, based on the specific vision and goals of your organization.

ValuePlus™ Service Programs

For the ultimate in product protection, we have created ValuePlus Service Programs. Laerdal ValuePlus Service Programs are designed to maximize customer value while providing the needed flexibility.

When you purchase a ValuePlus Service Program with your new simulator, you will receive additional services such as extended warranty, preventive maintenance, and loaner equipment. ValuePlus is available as 3 or 5-year options.

ValuePlus makes startup simple so you can concentrate on educating your students.

SERVICE PACKAGE DETAILS for:	Platinum Program Includes	Gold Program Includes	Silver Program Includes	Bronze Program Includes
Extended Warranty	•	•	•	•
On-Site Installation and In-Service Training	•	•	•	
Preventive Maintenance - On-site	•			
Preventive Maintenance - Return		•		
Loaner	•	•	•	•

A Legacy of Learning

Laerdal has been at the cutting edge of innovative healthcare training since the launch of Resusci Anne® in 1960.

Today, this extensive experience comes to the fore with the addition of SimMan® Essential into our comprehensive range of patient simulators. Through the creation of high quality simulation solutions, we are committed to increasing the potential and scope of this most valued training methodology in support of our long held mission - *helping save lives.*

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