



**Laerdal**<sup>®</sup>  
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.

LLEAP makes simulation training simple and efficient, both on the fly with Manual mode, and running pre-programmed scenarios in Automatic mode. Because you can use the same patient case scenarios on all Laerdal patient simulators with LLEAP, less time is needed to prepare, giving you more time to teach.



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# 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 now take full advantage of the benefits of simulation.

With a range of Technical and Educational Services to ensure simulation programmes are successfully supported from the outset, and a full complement of patient cases and courseware to ease instructor preparation time – SimMan Essential is set to define a new era in simulation training.

# 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 development in simulation practice. From an emergency situation in a remote location through the process of definitive care in a hospital, from a war-torn battlefield to a busy hospital ward – SimMan Essential injects a greater realism into scenario based training to further enhance and contextualise 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 through to more 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

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.

## Mobile and flexible

Whether you are running your simulation programmes in the field for realistic EMS or Military scenarios, in an ambulance or in a hospital setting, SimMan Essential is easy to set up and transfer.

## Easy to use software

Proven software that allows flexible management of all patient parameters. An improved scenario editor programme can create advanced scenarios, while the use of *Handlers* and *Trends* enable multiple physiological and pharmacological changes in the simulation.

## Immediate debriefing

With the world's first integrated Video Debriefing System, SimMan Essential provides a quick and easy debriefing solution for immediate reviewing of student performance to capitalise on learning opportunities.

## Built to last

Robust and reliable, SimMan Essential will withstand the rigours of extensive use in field based simulations.

## 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

## Breathing features

- Simulated spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO<sub>2</sub> exhalation
- Normal and abnormal breath sounds
  - 5 anterior auscultation sites
  - 6 posterior auscultation sites

## 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 sounds
  - Custom sounds
  - Instructor can simulate patient's voice wirelessly
- Instructor Communication
  - Multiple instructors communicate using integrated voice over IP

## Pharmacology

- Manual drug recognition
- Extensive formulary

## Vascular access

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



## OPTIONS

### SimMan Essential

An ideal cost effective simulation solution for multiple healthcare disciplines.

213-020xx

### SimMan Essential Bleeding

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

214-020xx



# Benefits and Features

## System features

- Wireless tablet PC controls simulator remotely
- Control multiple manikins from one interface
- Control simulations from anywhere on your network
- Multiple interfaces can control/observe a single simulation
- Instructor Mode
  - Precise control 'on the fly'
  - Design and programme custom scenarios
  - Create custom events
  - Run pre-packaged scenarios
- Runs all SimMan and SimMan 3G scenarios and Patient Cases

- Automatic Mode
  - Physiological and pharmacological models run pre-packaged simulations
  - Unique, simple slider control difficulty and pace
- Simulation controls:
  - Fast forward, Pause, Rewind, Save/Restore
- Profile Editor
- Future prediction and patient outcome display
- Integrated video debriefing
- Data logging
- Instructor comments
- Works with existing SimMan 3G Scenarios

## 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

## Optional patient monitor

- Wireless
- Highly configurable
- X-Ray Display
- 12 Lead ECG Display
- Custom Image Display
- Custom Video Display
- Oxygen saturation and waveform



IO insertion optional



IV training arm



Blinking eyes



Urine catheterisation system

## SimMan Essential:

- 400-102XX Laptop Instructor - Pat.Monitor
- 400-092XX Tablet - PC Instructor - Pat.Monitor
- 400-095XX Rugged-Tablet Instructor - Pat.Monitor
- 400-293XX All InOne Panel PC Instructor - Pat.Monitor

xx indicates language

## Optional accessories:

- Hard sided transportation case
- SimView System
- Compressor
- Bleeding Modules

## Optional service packages:\*

- Two day introductory training course
- Custom scenario development package
- On site installation
- Extended warranty
- Preventative maintenance

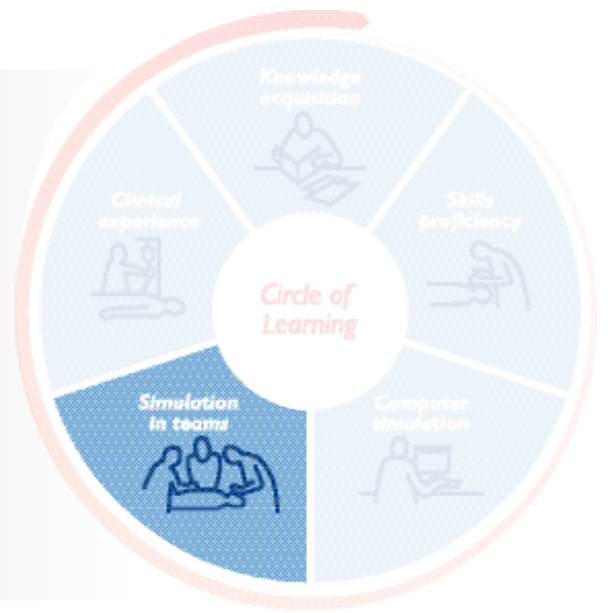
\* services available may differ between countries



# The complete solution

There is so much more to simulation than the patient simulator itself. That is why when we create a complete solution, we give just as much attention to the scenarios you will want to run and the ongoing educational and technical services you will require, so that you get the most out of your simulation programmes now and for many years to come.

- **Patient Simulators** from Laerdal
- Laerdal **Courseware**
- Laerdal **Services**



## Our complete line of **Patient Simulators**

*The complete portfolio of Laerdal patient simulators offers quality training solutions for neonatal, infant, pediatric and adult patient care.*

*If you would like to find out how other healthcare organisations are incorporating our products into their training programmes, please visit the User Story section on our website.*



# 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 programmes step by step along the road to success.

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

### Educational Services

#### **Introduction course**

On completion of this two day course, participants will be able to prepare, operate the simulator's user interface, programme and run scenarios using an instructional design process.

#### **Scenario programming**

This one day course will give participants the knowledge and skills to map out patient cases and convert them into scenarios using SimMan Essential's software.

#### **Update course**

Ideal for refresher training and updating your simulation skills.

#### **eLearning**

For comprehensive remote access training

### Technical Services

#### **Installation**

A stress free set-up of the simulator combined with basic operator training at your facility.

#### **Preventive maintenance programmes**

This service consists of a head-to-toe examination of your manikin or simulator; replacement of skins, pads and airways, as well as inspection and cleaning of compressors, monitors and cabling.

#### **Extended Warranties**

Service contracts that will extend the life of your manikin, simulator or complete system. These programmes are available from one to four years, after the conclusion of our one year manufacturer's warranty.

#### **ValuePlus Service Programmes**

For the ultimate in product services, we have created the Value Plus Service programme to provide comprehensive product service and generous savings to suit flexible budgets and needs.

# 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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