



Improving Patient Safety

SimMan[®] 3G

A realistic, full-body adult, patient simulator, SimMan[®] 3G has advanced clinical functionality to teach critical skills. Wireless, self-contained, rugged, and reliable, SimMan 3G helps you meet the critical need for flexible training solutions.

Manage SimMan 3G 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.





Why simulation?

Simulation provides the opportunity to train staff without risk to patients. The ability to frequently practice and manage complex medical scenarios helps to prevent medical errors, while detailed feedback promotes discussion and reinforces the learning process.

Achieving quality patient care

Delivering high quality simulation experiences requires training to take place at the right time and place, and requires the most appropriate equipment. In order to meet new challenges and facilitate the growing demand for insitu and multidisciplinary training, the need for flexible training solutions are critical.

A Complete mobile solution

With SimMan 3G you can train in the actual environments in which your students will be working- such as in a hospital or ambulance or even in a military combat environment. Completely wireless, self-contained, rugged and reliable, SimMan 3G helps you achieve the optimal training environment with the most realistic outcome possible.

The Name you Know, the Quality you Trust

For over 50 years, Laerdal has taken great pride in the quality of the products and services we offer. Because we believe in continuous improvement, SimMan 3G has received significant enhancements since its launch in 2009, which have improved the overall performance of the product. It is our number one priority to provide customers with the quality of products upon which we have built our reputation. Since the first SimMan 3G was manufactured, more than 4,000 have been produced for learners all over the world. This experience has helped Laerdal to evolve the 3G system to the multifunctional and trusted platform that it is today. Recent enhancements include:

- ✔ **Compressor**
 Quieter operation with longer running time. Better temperature tolerances- use in scenarios while covered with a blanket
- ✔ **Right Leg**
 Automatic fluid filling and draining for ease of use
- ✔ **Wi-Fi Router**
 Improved stability of connection
- ✔ **Integrated PC**
 New software and computer systems offering better speeds and reliability
- ✔ **USB Headset**
 Better quality communication allows instructor to hear the communication around the manikin in the scenario
- ✔ **Flowmeter**
 More precise measurements with less resistance to injections/infusions
- ✔ **New Clothing**
 Integrated zips on a durable jacket and denim jeans, plus a wig and a gown add realism to simulation
- ✔ **Eye Blender**
 Increased stability and optimal pupil response
- ✔ **LLEAP- Laerdal Learning Application**
 LLEAP software unifies the control of all PC-operated Laerdal simulators. LLEAP brings simplicity to running simulation training and efficiencies to the management and development of scenarios



Healthcare

EMS

Military

Professional Education

Success is in the details

At Laerdal, we believe that simulation training for Healthcare Professionals is pivotal in our common goal to improve patient outcomes.

Multiple airway skills/features

- Controllable open/closed airway; automatically or manually controlled
 - Head tilt/Chin lift
 - Jaw thrust w/articulated jaw
- Suctioning (Oral & 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 lung compliance – 4 settings
- Variable airway resistance – 4 settings
- Right main stem intubation
- Stomach distention
- Connectivity with third party respiratory simulations

Airway Complications

- Detection of proper head position
- Can't intubate/Can ventilate
- Can't intubate/Can't ventilate
- Tongue edema
- Pharyngeal swelling
- Laryngospasm
- Decreased cervical range of motion
- 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
- Oxygen saturation and waveform

Breathing Complications:

- Cyanosis
- Needle thoracentesis – bi-lateral
- Unilateral & Bilateral chest movement
- Unilateral, Bilateral & lobar breath sounds
- Chest tube insertion - bilateral

Eyes

- Blinking - slow, normal, fast and winks
 - Open, closed and partially open
- Pupillary accommodation:
 - synchrony/asynchrony
 - normal and sluggish speed of response

Cardiac features

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

Pharmacology

- Automatic Drug Recognition System identifies drug & dose
 - Extensive drug formulary
 - Automatic or programmable physiological responses

Vascular access

- IV access (right arm)
 - Intraosseous access (tibia)
 - Automatic Drug Recognition System

CPR

- Compliant with current guidelines
- CPR compressions generate palpable pulses, blood pressure wave form, and ECG artefacts
- Realistic compression depth and resistance
- Detection of depth, release and frequency of compressions
- Real time feedback on quality of CPR

Circulation features

- BP measured manually by auscultation of Korotkoff sounds
 - Carotid, femoral, brachial, radial, dorsalis pedis, popliteal and posterior tibialis pulses synchronized with ECG
 - Pulse strength variable with BP
 - Pulse Palpation is detected & logged



System and Product Features

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

Other features

- Seizure/Fasciculation
- Bleeding
 - Simulation of bleeding at multiple sites
 - Arterial and venous
 - Vital signs automatically respond to blood loss & therapy
 - Works with various wound modules & moulage kits
- Urine output (variable)
- Foley catheterization
- Secretions
 - Eyes, Ears, Nose, Mouth
 - Blood, Mucous, CSF, etc.
- Diaphoresis
- 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

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



CPR Feedback



Convulsions



Secretions



Drug and Event Recognition



Eye Signs



Vascular Access



Chest Decompression



Bleeding

ORDERING INFORMATION

212-02001 SimMan 3G

Includes: SimMan 3G Manikin, LLEAP Software and License, Drug Recognition Kit, USB Headset/Microphone, Wounds Kit, Specially Designed Clothing (Trousers, Shirt, Gown, Wig), Simulated Patient Cables, Soft-sided Carry Cases

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

216-00441 SimView System

210-01750 Compressor

Creating An Environment For Success

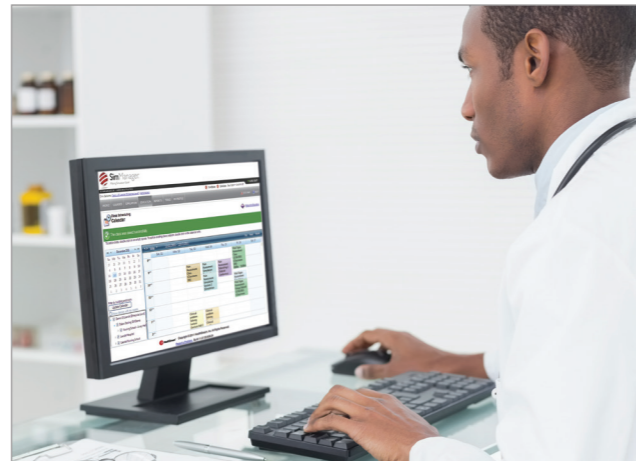
From the simulation novice to sophisticated developers, SimCenter has the tools and services to help every user realize their full potential. Visit Laerdal.com/SimCenter to learn how to optimize your simulation training using SimCenter and SimMan 3G.



Standardized scenarios for SimMan 3G 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.



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.



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, preventative maintenance, and loaner equipment. ValuePlus is available as 2, 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® 3G 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.*

www.laerdal.com

