



**Laerdal**<sup>®</sup>  
helping save lives



Improving  
patient outcomes

## SimMan<sup>®</sup> 3G

A realistic, full-body adult, patient simulator, SimMan<sup>®</sup> 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.



[laerdal.com](http://laerdal.com)

# SimMan® 3G

## 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
- Nasal cannulation
- Orotracheal/Nasotracheal intubation
- Combitube, LMA, and other airway placement
- Endotracheal tube intubation
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle/Surgical cricothyrotomy
- Variable lung compliance – 4 settings
- Variable airway resistance – 4 settings
- Right main stem intubation
- Stomach distention

## 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 thoracocentesis – bilateral
- Unilateral & Bilateral chest movement
- Unilateral, Bilateral & 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, brachial, radial, dorsalis pedis, popliteal and posterior tibialis pulses synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected & logged

## 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 waveform, and ECG artifacts
- Realistic compression depth and resistance
- Detection of depth, release and frequency of compressions
- Real time feedback on quality of CPR

## EYES

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

## 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 and custom sounds
  - Instructor can simulate patient's voice-wirelessly
- Instructor Communication
  - Multiple instructors communicate using integrated voice over IP
- Fully articulating pelvis
- Leg rotation in all natural directions

## PHARMACOLOGY

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

## CERTIFICATIONS

- UL, CE, FCC, CSA, HMR

## 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

## 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

## ORDERING INFORMATION

- 212-02301 SimMan 3G, Light  
 212-02101 SimMan 3G, Medium  
 212-02201 SimMan 3G, Dark

*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*

## COMPUTER OPTIONS

- 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  
 216-20001 SimView Mobile  
 212-13580 Humeral IO/IV Arm

## Operation

Customize your SimMan® 3G operation with 4 LLEAP instructor computer and simulated patient monitor options.



## Supporting Products

Pairing SimMan 3G with complementary partner accessory solutions helps deliver a more complete and realistic simulation training experience.

- **VitalsBridge** - Use your own clinical patient monitor during simulation training
- **Laerdal-SonoSim Ultrasound Solution** - Include diagnostic ultrasound featuring real cases with pathological findings into full-scale simulations
- **ASL 5000 Lung Adapter** - Conduct high-fidelity ventilation management training with a spontaneously breathing patient

## 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](http://Laerdal.com) for a complete listing of parts, accessories, and consumables



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