



# Laerdal

helping save lives

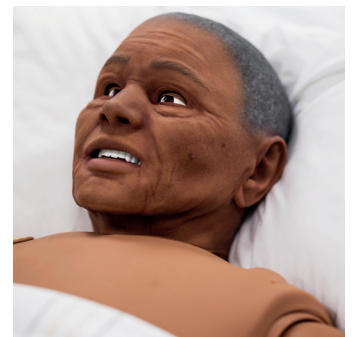


## Immersive training for emergency care procedures

### SimMan® 3G PLUS

A realistic, full-body adult patient simulator, SimMan 3G PLUS is easy to operate and designed for a fully immersive simulation experience. Learners and healthcare professionals can perform individual or interdisciplinary team training, practicing critical skills such as decision-making, team communication, and patient care, all in a risk-free environment.

Practice high-quality, equitable care integrating advanced clinical features and interchangeable headskins that allow for more realistic patient encounters that help learners prepare for real-world situations.



# SimMan® 3G PLUS

## 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
- CO<sub>2</sub> 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 using live defibrillation pads or paddles
- Pacing

## CIRCULATION FEATURES

- Oscillometric BP measurement
- 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

- Bilateral preported IV access
- Bilateral humeral IO
- Tibial IO
- Bilateral deltoid IM

## 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

- Interchangeable headskins (Adult, Geriatric)
- SpO<sub>2</sub> measurement with pulse oximeter
- 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 and Ears
  - Blood, 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
- Articulating arms

## PHARMACOLOGY

- Extensive drug formulary
- Automatic or programmable physiological responses

## CERTIFICATIONS

- UL, CE, FCC, CSA

## FEATURES

- Wireless instructor computer with LLEAP software
- Control multiple manikins from one 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), SpO<sub>2</sub>, CO<sub>2</sub>, 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

## ORDERING INFORMATION

212-03350 SimMan 3G PLUS Light

212-03150 SimMan 3G PLUS Medium

212-03250 SimMan 3G PLUS Dark

*Includes: SimMan 3G PLUS Manikin, LLEAP Software and License, USB Headset/ Microphone, Wounds Kit, Specially Designed Clothing (Trousers, Shirt, Gown), 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

212-37000 Adult Headskin Light

212-37010 Adult Headskin Medium

212-37020 Adult Headskin Dark

212-37100 Geriatric Headskin Light

212-37110 Geriatric Headskin Medium

212-37120 Geriatric Headskin Dark

212-07150 Rugged Carry Case

212-37200 Female Headskin Light

212-37210 Female Headskin Medium

212-37220 Female Headskin Dark

212-08175-L Amputated Leg Light

212-08175-M Amputated Leg Medium

212-08175-D Amputated Leg Dark

## Operation

SimMan® 3G PLUS is operated by LLEAP and offers 4 computer and simulated patient monitor options.

Incorporate SimCapture for a complete debriefing solution.



## Supporting Products

Pairing SimMan 3G PLUS 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 2.0** - Include diagnostic ultrasound featuring real cases with pathological findings into full-scale simulations
- **ASL 5000 Lung Solution** - Conduct high-fidelity ventilation management training with a spontaneously breathing patient

## Services

Laerdal offers comprehensive Educational Services to support your faculty competency development needs to optimize learning potential in your students, and Technical Services to help ensure your equipment is operational for maximum performance.

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

