



Laerdal[®]

helping save lives



Rugged Trauma Training

LLEAP
Laerdal Learning
Application

SimMan[®] 3G Trauma

SimMan[®] 3G Trauma's durable and rugged configuration provides you with the flexibility to perform simulation-based education in the environment of your choice; in the classroom or in the field.

Manage SimMan 3G Trauma 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.



SimMan® 3G Trauma

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
- Right main stem intubation
- Combitube, LMA, and other airway placement
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle cricothyrotomy
- Surgical cricothyrotomy
- Variable lung compliance – 4 settings
- Variable airway resistance – 4 settings
- Stomach distention

AIRWAY COMPLICATIONS

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

BREATHING FEATURES

- Spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO₂ exhalation
- EtCO₂ and waveform display
- Normal and abnormal breath sounds
 - 5 anterior auscultation sites
 - 6 posterior auscultation sites
- Oxygen saturation and waveform display

BREATHING COMPLICATIONS

- Cyanosis
- Needle thoracostomy – bilateral
- Unilateral and bilateral chest movement
- Unilateral, bilateral and lobar breath sounds
- Chest tube insertion – bilateral

CARDIAC FEATURES

- Extensive ECG library
- Heart sounds – 4 anterior locations
- Simulated ECG rhythm monitoring (4 lead)
- 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 and logged

VASCULAR ACCESS

- IV access (right arm)
- Intraosseous access (tibia and sternum)
- Bilateral thigh and deltoid IM sites

CPR

- Compliant with 2010 Guidelines
- CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts
- Realistic compression depth and resistance
- Detection of depth and frequency of compressions
- Detection of leaning
- 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

- Bleeding
 - Simulation of bleeding at multiple sites
 - Arterial and venous
 - Vital signs automatically respond to blood loss and therapy
 - Works with various wound modules and 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 Internet Protocol (VOIP)

AMPUTATIONS

- Amputated left arm
- Amputated left leg
- Amputated right arm
- Amputated right calf skin

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, NIBPTOF, 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

219-02001 SimMan 3G Trauma
 Includes: SimMan 3G Trauma Manikin, LLEAP Software and License, USB Headset/Microphone, Simulated Patient Cables, Soft-sided Carry Cases, Amputations, 1 Year Manufacturer's Warranty

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

Operation

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



SimCenter

Visit www.laerdal.com/simcenter to learn how to optimize your simulation training using SimCenter™ and SimMan 3G Trauma



SimStore™
 Access to validated, standardized content from industry experts

SimManager™
 A suite of online tools that allows you to fully optimize your entire simulation center operation

SimView™
 An integrated debriefing solution giving you the ability to study simulation events more closely

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 for ordering information and a complete list of product accessories



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