



SimMan 3G

The next generation of Laerdal Simulation



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helping save lives

SimMan 3G

- Completely wireless and self contained
- Internal electrical and pneumatic power
- Supplemental wired connectivity and power
- Wirelessly integrates with existing computer networks
- Swappable, rechargeable batteries
- Approximately 4 hours continuous operation in wireless mode
- Rugged and reliable for use in multiple environments

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 thoracocentesis – bi-lateral
- 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 and sternum)
- Automatic Drug Recognition System

CPR:

- Compliant with 2005 Guidelines
- CPR compressions generate palpable pulses, blood pressure wave form, 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 sounds
 - Custom sounds
 - Instructor can simulate patient's voice wirelessly
- Instructor Communication
 - Multiple instructors communicate using integrated voice over IP

Pharmacology:

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

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 & program custom scenarios
 - Create custom events
 - Run pre-packaged scenarios
- Auto Mode
 - Physiological & pharmacological models run pre-packaged simulations
 - Unique, simple controls increase/decrease difficulty & pace
- Simulation controls:
 - Fast forward
 - Pause
 - Rewind
 - Save/Restore
- Profile Editor
- Future prediction & patient outcome display
- Integrated video debriefing
- Data logging
- Instructor comments
- Works with existing SimMan Scenarios

Patient Monitor:

- Wireless
- Highly configurable
- Includes:
 - ECG (2 traces)
 - SpO₂
 - CO₂
 - ABP
 - CVP
 - PAP
 - PCWP
 - NIBP
 - TOF
 - Cardiac Output
 - Temperature (core & peripheral)
 - Additional and programmable parameters
- X-Ray Display
- 12 Lead ECG Display
- Custom Image Display
- Custom Video Display

Certifications:

- UL, CE, FCC, CSA, HMR

SimMan 3G includes:

- SimMan 3G Manikin
- SimMan 3G Software & License
- Operator's Tablet PC
- Simulated Patient Monitor and Software
- Simulated Patient Cables
- Webcam
- Drug Recognition Kit
- Soft Sided Transportation Cases
- Specially Designed Clothing
- 10 SimMan 3G Patient Cases for AutoMode
- 1 Year Manufacturer's Warranty

Accessories:

- Simulated Patient Monitor & Software (Large screen, Panel PC w/power cord)
- Hard Sided Transportation Case - Rugged and weatherproof
- Operator's Remote Control (Ultra Slim Tablet PC)
- Advanced Video System
- Wound Modules and Moulage Kits
- Tablet PC Accessory Kit (Monitor; Keyboard, Mouse & Docking Station)
- Portability Kit
- Compressor

Scenario Packages:

- SimMan3G Patient Cases: Volume II – for Automatic Mode
- SimMan National League for Nursing Scenarios: Volume I – for Instructor Mode
- SimMan AHA ACLS Scenarios – for Instructor Mode
- SimMan MicroSim Scenario Package – for Instructor Mode
- SimMan Disaster Preparedness Scenarios: Volume I - for Instructor Mode

Service Packages*:

- Two Day Introductory Training Course
- Advanced Scenario Programming Course
- Custom One Day Training Package
- Custom Scenario Development Package
- On Site Installation
- Extended Warranty
- Preventative Maintenance
- Loaner Program

* services available may differ between countries

For more product information, please visit www.laerdal.com



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