



Build competencies and improve teamwork

SimMan[®] ALS

SimMan[®] ALS provides a mobile, durable solution that will meet the training needs of pre-hospital and in-hospital emergency care providers. Operated by SimPad[®] PLUS or a LLEAP PC, the simulator responds to clinical interventions, instructor control, or pre-programmed scenarios for effective practice of diagnosis and treatment of a patient. Used in clinically realistic environments, SimMan ALS can improve clinical skills, communication and teamwork through simulation.



SimMan® ALS Simulator

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, I-gel and other airway placement
- Endotracheal tube intubation
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle cricothyrotomy
- Surgical cricothyrotomy
- Airway resistance - 3 settings (Open/ Medium/ Closed)
- Right main stem intubation
- Stomach distention
- Airway complications include tongue fallback and tongue edema

BREATHING FEATURES

- Simulated spontaneous breathing
- Bilateral and unilateral chest rise and fall
- Normal and abnormal breath sounds
- Lung auscultation sites: posterior and anterior sites
- Oxygen saturation and waveform

BREATHING COMPLICATIONS

- Cyanosis
- Needle thoracentesis – bi-lateral
- Unilateral & bilateral chest movement
- Chest tube insertion – bilateral

CARDIAC FEATURES

- Extensive ECG library
- Heart sounds
- ECG rhythm monitoring (4 wire)
- 12 lead ECG display
- Defibrillation and cardioversion using live shock with training pads – ShockLink™ (purchased separately)
- Pacing

CIRCULATION FEATURES

- BP measured manually by auscultation of Korotkoff sounds
- Carotid, femoral, radial pulses synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected & logged

VASCULAR ACCESS

- Pre-ported IV access (right arm)
- Intraosseous access (tibia)

CPR

- QCPR feedback and scoring compliant with 2010-2015 Guidelines
- CPR compressions generate palpable pulses, blood pressure wave form, and ECG artifacts
- Realistic compression depth and resistance
- Automatic detection of depth, release and frequency of compressions as well as hand placement

EYES

- Manually set to: Open, closed and partially open
- Set of interchangeable pupils

OTHER FEATURES

- Foley catheterization without urine output
- Patient Voice
 - Pre-recorded and custom sounds
- Instructor can simulate patient's voice wirelessly
- Prepared for diagnostic ultrasound training using the Laerdal-SonoSim Ultrasound solution (separate purchase required, for LLEAP operation only).

CERTIFICATIONS

- UL, CE, FCC, CSA, HMR

SYSTEM FEATURES

- Wireless PC or SimPad PLUS controls simulator remotely
- Control simulations from anywhere on your network
- Manual Mode
 - Precise control "on the fly"
- Automatic Mode
 - Run pre-packaged scenarios
 - Unique, simple controls increase/decrease difficulty & pace
- Integrated video debriefing
- Data logging
- Instructor comments

PATIENT MONITOR

- Touchscreen simulated patient monitor provides concise clinical feedback for physiological parameters
- Simulated parameters for SimPad PLUS operation: ECG, etCO₂, HR, SpO₂, BP, RR, and Temperature
- LLEAP operation provides additional simulated parameters including CO₂, CVP, ICP, anesthetic agent, TOF, cardiac output, and more. In addition, the LLEAP monitoring options can display x-ray, custom images, and custom video

ORDERING INFORMATION

235-20001 SimMan ALS

Includes: SimMan® ALS Manikin, SimPad® PLUS Link Box, Lithium-ion Battery, Specially Designed Clothing, Upper Teeth (Hard), Male/Female/Blank Genitalia, BP Cuff, Set of Consumables, 2 Soft Sided Transportation Cases, and Setup Guides.

Operation and Patient Monitoring Options

- 204-30101 SimPad PLUS (handheld remote)
- 400-10201 Laptop Instructor PC-Patient Monitor
- 400-09201 Tablet Instructor PC-Patient Monitor
- 400-09501 Rugged Instructor PC-Patient Monitor
- 400-29301 All in One Panel PC Instructor PC-Patient Monitor

Licenses

- 204-50150 LLEAP for SimPad PLUS Software License
- 400-01050 LLEAP PC Software License

Accessories

- 400-96050 USB HD Web Cam
- 212-29650 Headset and Mic with USB (LLEAP Operation)
- 200-30950 SimPad Headset
- 185-10050 ShockLink System (adapter cables may be required)
- 216-20001 SimView Mobile System

Operation

SimMan® ALS can be operated by a SimPad® PLUS remote or a LLEAP instructor computer and can utilize a simulated patient monitor.



SimCenter

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



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™

A 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/us/SimManALS for a complete list of parts, accessories, and consumables