



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.



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

# 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, etCO<sub>2</sub>, HR, SpO<sub>2</sub>, BP, RR, and Temperature
- LLEAP operation provides additional simulated parameters including CO<sub>2</sub>, 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](http://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](http://Laerdal.com/us/SimManALS) for a complete list of parts, accessories, and consumables

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