SimMan® ALS provides a mobile, durable solution that will meet the training needs of pre-hospital and in-hospital emergency care providers - from basic assessment to advanced life-support skills. From pre-hospital, on scene assessment and management to definitive care in a hospital, SimMan ALS can fulfill the unique training requirements of emergency healthcare providers.
**SimMan® ALS**

### 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
- Tracheal 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
- Anterior sites

### Breathing Complications
- Cyanosis
- Pneumothorax w/bilateral needle decompression
- 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)
- Defibrillation and cardioversion using live defibrillation pads or paddles (SimMan ALS LiveShock)
- Pacing

### Circulation Features
- BP measured manually by auscultation of Korotkoff sounds
- Bilateral 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)

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

### QCPR
- 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

### Ordering Information
235- 02350 / 02150 / 02250 SimMan ALS (Light / Medium / Dark)
Includes: SimMan® ALS Manikin, SimPad® PLUS LinkBox, 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.

235- 03350 / 03150 / 03250 SimMan ALS LiveShock (Light / Medium / Dark)
Includes: SimMan ALS Manikin, SimPad® PLUS LinkBox, 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. In addition, SimMan ALS LiveShock comes with built-in ShockLink unit and special chest skin for defibrillation with real pads or paddles.

### Operation and Patient Monitoring Options
- 204-30101 SimPad Plus
- 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 LEAP for SimPad PLUS Software License
- 400-01050 LEAP PC Software License

### Accessories
- 212-13850 M / D Right humeral IO/IV arm (Light / Medium / Dark)
- 400-96050 USB HD Web Cam
- 212-29650 Headset and Mic with USB (LEAP Operation)
- 200-30950 SimPad Headset
- 185-10050 ShockLink System
- 216-20001 SimView Mobile System
- 390-00150 Laerdal-SonoSim Ultrasound Solution Upgrade for SimMan Family (Probe, Software, Tags)

### Certifications
- UL, CE, FCC, CSA, HMR

### Other Features
- Fully articulating pelvis
- Leg rotation in all natural directions
- 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 LEAP operation only).

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

For more information, visit [www.laerdal.com/SimManALS](http://www.laerdal.com/SimManALS)

©2018 Laerdal Medical. 18-16841