



Laerdal[®]

helping save lives



The simulator for advanced life support



Operation choices

ALS Simulator

The Advanced Life Support Patient Simulator is a realistic interactive manikin for training a wide range of advanced lifesaving skills in medical emergencies.

Operated by the SimPad[®] System or LLEAP software, the simulator responds to clinical interventions, instructor control, or pre-programmed scenarios for effective practice of diagnosis and treatment of a patient.



www.laerdal.com

ALS Simulator

MANIKIN AND AIRWAY FEATURES

- Interchangeable pupil normal, blown and constricted
- Endotracheal intubation
- Nasotracheal intubation
- Digital intubation
- Oropharyngeal and Nasopharyngeal airway insertion
- Stomach auscultation to verify positioning
- Bag-Value-Mask ventilation
- Retrograde and Lightwand intubation
- Laryngeal Mask Airway insertion
- Combitube insertion
- Trans-tracheal jet ventilation
- Surgical and needle cricothyrotomy
- Suctioning techniques
- Obstructed airway
- Tension pneumothorax decompression and chest tube insertion
- Tongue edema
- Head tilt / Chin lift
- Modified jaw thrust
- Spontaneous chest rise and fall

CIRCULATORY SKILLS AND IV/IO DRUG ADMINISTRATION

- Articulating IV Arm with replaceable skin and infusible vein system allows peripheral intravenous therapy and site care
- Subcutaneous and intramuscular injection sites
- Lifelike leg designed for practicing intraosseous needle placement, medication and fluid administration and infusion

CARDIAC RELATED - SIMPAD/LLEAP

- Multiple cardiac rhythm variations
- Manual chest compressions

- 3- or 4- lead ECG, with optional patient monitor: 12 lead ECG display image
- Pacing with programmable threshold for capture

BLOOD PRESSURE / PULSES - SIMPAD/LLEAP

- Articulating blood pressure arm for auscultated and palpated blood pressure simulation
- Korotkoff sounds
- Systolic and diastolic pressure may be individually set
- Auscultatory gap
- Bilateral carotid pulses and brachial and radial pulses in the BP arm
 - Pulses synchronised with programmable ECG
 - Pulse strengths dependent on BP

SOUNDS - SIMPAD/LLEAP

- Heart sounds synchronised with programmable ECG
- Lung sounds synchronised with breathing rate
- Individual lung or bilateral sound selection
- Normal and abnormal bowel sounds
- Pre-recorded and live feed voice sounds
- PC scenario editor for creating and editing user defined and preprogrammed scenarios
- Student logs can be stored and downloaded for post training review and debriefing

LLEAP FUNCTION

- Instructor computer with LLEAP software (sold separately)
- Control multiple manikins from one interface
- Use Manual Mode to run "on-the-fly" for total control over all parameters
- Utilize Automatic Mode with pre-programmed scenarios for a simple and standardized way to run a simulation (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

SIMPAD® SYSTEM FUNCTION

- Handheld, intuitive touchscreen remote for easy 'pick up and play' experience
- Mobile - teach anywhere
- Operate on-the-fly or utilize scenarios and Themes for consistent simulation training
- Time stamped activities, vital signs, and instructor comments are captured in the event log
- The SimPad log files can be viewed on the device or on a PC using Session Viewer for post-simulation reflection and debriefing
- Upload self-authored scenarios and Themes, or download pre-programmed scenarios directly from SimStore

PATIENT MONITOR (OPTIONAL)

- Touchscreen 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 HR, ECG, SpO2, BP, RR, Temperature, and etCO2.
- In addition to the parameters above, LLEAP Patient Monitor provides:
 - Advanced patient parameters: ABR, ICP, TOF and many more
 - Multi-media: labs, x-ray display, 12 lead ECG, custom image display, custom video display

ORDERING INFORMATION

205-05050 ALS Simulator

Includes: Manikin, Interchangeable Pupil Set, 6 Neck Skin Collars, 1 Roll Cricothyroid Tape, Set of Replacement Pneumothorax Bladders, 6 Chest Drain Modules, Air Pump, Set of Defibrillation Posts, Manikin Lubricant, Jacket, Pants, and Directions for Use

200-30001 SimPad System

Includes: SimPad, Link Box, 2 AC Power Supplies, Rechargeable Lithium-ion Battery, Wrist Strap, Manikin Strap, Sleeve, USB cable, Ethernet cable, and Directions for Use

400-01050 LLEAP Software License

Available in 3 skin tones:



Instructor Computer and Patient Monitor Options

- 400-10201 Laptop Instructor - Patient Monitor
- 400-09201 Tablet Instructor - Patient Monitor
- 400-09501 Rugged Tablet Instructor - Patient Monitor
- 400-29301 All In One Panel PC Instructor - Patient Monitor

Optional Accessories

- 381500 Trauma Modules
- 375-81001 Arterial Stick Arm
- 381450 Nursing Wound Modules
- 210-00550 Forced Air Bleeding Control Systems
- 200-03650 Male / Female Genitalia Upgrade Kit
- 381655 Hard Carry Cases

Operation

ALS Simulator is operated by the SimPad® System or 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 ALS Simulator



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/ALS for ordering information and a complete list of product accessories

