



**Laerdal**<sup>®</sup>

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<sup>®</sup> 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](http://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](http://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](http://Laerdal.com/us/ALS) for ordering information and a complete list of product accessories

