



**Gaumard**<sup>®</sup>  
Simulators for Health Care Education

# HAL<sup>®</sup> S1000

## Advanced Life Support and Emergency Care Wireless Patient Simulator

- Intubatable and programmable airway
- Defibrillate, cardiovert, and pace using real equipment
- Needle decompression and chest tube
- Real-time CPR monitoring and feedback
- Includes HAL<sup>®</sup> Simulation Learning Experiences™ scenario package
- Wireless and tetherless; fully functional in transport



●●● Skin tone options available at no extra charge

## Simply the best-valued patient simulator for ALS and emergency response training.

HAL® S1000 is a wireless, computer-controlled, full-body patient simulator explicitly developed for immersive emergency response and advanced life support simulation-based training. HAL allows participants to practice hands-on, using real equipment, and in real environments to improve knowledge, skills, and teamwork.



## UNI® 3 simulator control interface included

The UNI 3 simulator control software provides you with all the tools you need to deliver a rich simulation experience from one intuitive interface. UNI features precise touch-based controls, task automation, real-time feedback, and automatic data capture tools designed to operate seamlessly during even the most complex scenarios.

- Drive scenarios on-the-fly or using preprogrammed scenarios
- Precise physiological control over cardiac, breathing, and circulation parameters
- Monitor and analyze CPR quality performance in real-time
- Export CPR performance reports for debriefing



### Perform chest compression and ventilation

Compress the chest hard and fast; feel the realistic recoil after each compression.



### Pulse sites synchronize with BP and heart rate

Carotid, femoral, and radial pulses operate continuously and are synchronized with the ECG.



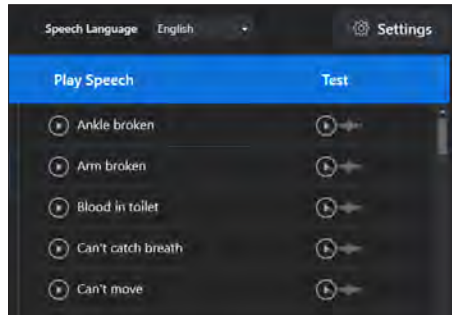
### Intubatable and programmable airway

Use NP/OP/ET/LMA tubes. Program tongue edema and laryngospasm.



### Defibrillate, cardiovert, & pace using real equipment

Defibrillate, cardiovert, and pace using real EMS equipment and see HAL's ECG on your real devices.



### Wireless streaming voice

Be the voice of HAL and hear caregiver responses. Create and store vocal responses or select from 80+ pre-recorded phrases.



### Wireless and tetherless

HAL is completely self-contained, wireless, and fully operational on battery for up to 5 hours<sup>2</sup>.





## Includes the HAL® Simulation Learning Experiences™ package.

The HAL Simulation Learning Experiences (SLEs) provide you with a library of ready-to-use, evidence-based scenarios designed to help you maximize participant learning through outcome-focused simulated clinical patient encounters. The package includes 10 SLEs, complete with a facilitator's guidebook for planning, setting up, and facilitating each learning experience:

- Acute Anterolateral Myocardial Infarction
- Acute Sepsis Related To Diabetic Ulcer
- Atrial Fibrillation
- COPD Exacerbation
- Diabetic Ketoacidosis
- Opioid Overdose
- Pulmonary Embolism
- Sepsis Related To Pneumonia
- Severe Sepsis
- Supraventricular Tachycardia



### Real-time CPR feedback

Monitor compression depth and rate, ventilations, “no-flow” time, and number of cycles. Export performance reports for debriefing.



### Bilateral IV arms

Bilateral IV training arms can be used for bolus or intravenous infusions.



### View dynamic ECG

View dynamic ECG on a real ECG monitor. AED shown converting HAL's ventricular fibrillation.



### Spontaneous chest rise and realistic heart and lung sounds

Program variable respiratory patterns and heart and lung sounds.



### Needle decompression and chest tube

HAL supports bilateral needle decompression and chest tube placement.



### Surgical trachea

Realistic surgical trachea allows tracheotomy or needle cricothyrotomy.

## Features

### General

- Tetherless and wireless; fully responsive during transport<sup>1</sup>
- Fully operational on internal battery power for up to 5 hours<sup>2</sup>
- Supports common patient positions including Fowler's, supine, and sitting
- UNI 3 laptop PC included

### Airway

- Supports tracheal intubation using standard ETTs and supraglottic airway devices
- Program tongue edema or laryngospasm
- Use an ET tube or supraglottic airway
- Sensors detect depth of intubation
- Unilateral chest rise with right mainstem intubation
- Multiple upper airway sounds synchronized with breathing
- Realistic surgical trachea allows tracheotomy or needle cricothyrotomy

### Breathing

- Bilateral needle decompression at second intercostal
- Control rate and depth of respiration and observe chest rise
- Ventilations measured and logged
- Gastric distension with excess BVM ventilation
- Select independent left and right lung sounds
- Chest rise and lung sounds are synchronized with selectable breathing patterns
- Supports assisted ventilation, including BVM
- Unilateral chest rise simulates tension pneumothorax
- Multiple lung and breath sounds with volume control

### Cardiac

- Multiple heart sounds, rates, and intensities
- Chest compressions are measured and logged
- HAL has conductive skin regions so you can apply real electrodes and AED pads
- Defibrillate, cardiovert, and pace using real EMS equipment and see HAL's ECG on your AED
- Program HAL's response to defibrillation
- View dynamic ECG in your real ECG monitor

### Circulation

- Blood pressure can be taken on left arm using a modified cuff, palpation, or auscultation. Bilateral carotid and femoral pulses, plus the left radial pulse operates continuously
- Bilateral lower arm IV access
- Intraosseous access at right tibia
- Pulse strengths vary with HAL's blood pressure, and pulses are synchronized with the ECG
- Detects placement of oxygen saturation sensor on index finger

### Neurological

- Wireless streaming voice; be the voice of HAL
- Includes the HAL Simulation Learning Experiences scenario package
- Normal, miosis (constricted), and mydriasis (blown) pupil state
- Independent left/right pupil states simulate consensual and nonconsensual response

### Other

- Links with optional audio-visual system that integrates the event log with feeds from the camera and the simulated patient monitor for comprehensive debriefing
- Programmable bowel sounds
- Programmable central cyanosis

## HAL® S1000

S1000.M2.PK ● ● ●

HAL S1000 Adult Patient Simulator, Laptop PC, RF communications module, Bluetooth communications module, UNI® 3 license, SLE scenario package, battery charger, BP cuff, accessories, user guide. One-Year Limited Warranty. Extended service plans available. Skin tones available at no extra charge. Patented; other patents pending.

## UNI® 3 Tablet PC Upgrade

S1000.215

Upgrade HAL's control laptop to a lightweight tablet PC for increased mobility. Package includes: Microsoft Surface Pro, stylus pen, and rugged protective case. Option only available at time of initial purchase.

## CO<sub>2</sub> Exhalation

S1000.078

Real CO<sub>2</sub> exhalation. 10 programmable levels of CO<sub>2</sub> output. Option only available at time of initial purchase.

## Urinary Catheterization

S1000.070

Internal bladder and catheterizable male genitalia. Option only available at time of initial purchase.

## Gaumard Vitals™ Bedside Virtual Monitor

30080154B

Gaumard Vitals bedside virtual monitor. One Gaumard Vitals patient simulator license.

## Gaumard Vitals™ Portable Virtual Monitor

30081003A

Gaumard Vitals portable virtual monitor. One Gaumard Vitals patient simulator license.



## Care in Motion™ Mobile Video Debriefing System

CIM.PK

Care in Motion Tablet PC, 3 Battery-powered HD wireless cameras, 3 adjustable camera grips, transport case. One-Year Limited Warranty. Extended service plans available.

## Request a quote

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