



**Gaumard®**  
Simulators for Health Care Education

Leadership Through Innovation™



## HAL® 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
- eCPR™ - CPR effectiveness monitoring and smart trainer
- Streaming voice
- Wireless and tetherless

## 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 offers participants the opportunity to practice hands-on, using real equipment, and in real environments to improve knowledge, skills, and teamwork.



### UNI® SIMULATOR CONTROL INTERFACE INCLUDED

The UNI 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 VENTILATIONS

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

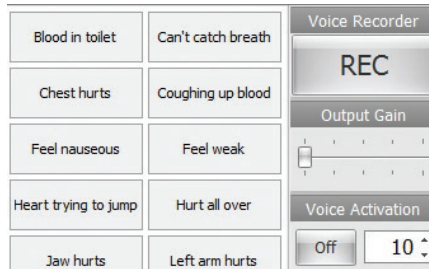
Use NP/OP/ET/LMA tubes. Program tongue edema and laryngospasm.





## DEFIBRILLATE, CARDIOVERT & PACE USING REAL EQUIPMENT

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



## 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 and wireless and fully operational on battery for up to 5 hours.



## 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 that can be used for bolus or intravenous infusions as well as for draining fluids.



## 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 tracheostomy or needle cricothyrotomy.

## FEATURES

- Internal rechargeable battery provides up to 5 hrs. of tetherless operation
- Wireless streaming voice; be the voice of HAL
- Includes preprogrammed scenario library
- UNI® laptop PC included
- Change conditions such as heart rate and blood pressure immediately or specify smooth transitions
- Pause the scenario or jump to the next critical decision point
- Programmable central cyanosis
- Supports oral or nasal intubation
- Program tongue edema or laryngospasm
- Supports ETTs and supraglottic airways devices
- Sensors detect depth of intubation
- Visible unilateral chest rise with right mainstem intubation
- Multiple upper airway sounds synchronized with breathing
- Realistic surgical trachea allows tracheostomy or needle cricothyrotomy
- Automatic, spontaneous chest rise and pulses
- Control rate and depth of respiration and observe chest rise
- Ventilations measured and logged
- Gastric distension with excess positive pressure ventilation
- Select independent left and right lung sounds
- Chest rise and lung sounds are synchronized with selectable breathing patterns
- Supports assisted ventilation via bag-valve-mask
- Unilateral chest rise simulates tension pneumothorax
- Supports needle decompression bilaterally at second intercostal
- Supports chest tube placement
- Bilateral IV training arms
- Multiple lung and breath sounds with volume control
- Multiple heart sounds, rates, and intensities
- eCPR™ Real-time quality feedback and reporting
  - » Compression depth/rate
  - » No-flow time
  - » Ventilation rate
  - » Excessive ventilation
  - » Smart CPR voice coach
- Blood pressure can be taken on left arm using a modified cuff, palpation, or auscultation
- Automatic bilateral carotid and femoral pulses and left brachial and radial pulse
- Pulse strengths vary with HAL's blood pressure, and pulses are synchronized with the ECG

- Detects placement of oxygen saturation sensor on left index finger
- Conductive skin regions support defibrillation and pacing with live energy and real equipment
- Deliver electrical therapy to conductive skin patches or snap connectors
- Intraosseous access at right tibia
- View dynamic ECG in real-time using real equipment
- Track the actions of up to six care providers via the UNI interface
- Links with optional audio-visual system
- Programmable bowel sounds
- FCC, IC, CE

## HAL® S1000

### S1000.M2.PK

Skin tones available at no extra charge

- Tetherless Adult Patient Simulator
- Laptop PC; UNI® license
- Preprogrammed scenarios
- Battery charger, BP cuff, surgical trachea kit, pneumo. decompression sites, user guide
- One-Year Limited Warranty
- Extended warranty plans available

## TABLET PC UPGRADE



### S1000.215

Upgrade the control PC to a lightweight wireless tablet.

- Pen and touch-enabled UNI®
- Windows® operating system supports standard Windows® applications, documents, and USB peripherals
- Option only available at the time of order

## CO<sub>2</sub> EXHALATION

### S1000.078

- Enables real and measurable CO<sub>2</sub> exhalation with every breath
- 10 programmable levels of CO<sub>2</sub> output
- Option only available at the time of order

## URINARY CATHETERIZATION

### S1000.070.1

- Interchangeable female and male genitalia with internal urine bladder Foley catheterization exercises
- Option only available at the time of order

## CARE IN MOTION™ MOBILE VIDEO-ASSISTED 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

## 12-LEAD ECG AND UNI® MI MODULE

Adds support for real-time 12-lead monitoring using standard leads and equipment. Create occlusions, ischemia, injury, and necrosis visible in real-time using standard equipment.

### S1000.120

## BEDSIDE VIRTUAL MONITOR

### S1000.001.R2

## MOBILE VIRTUAL MONITOR

### S1000.002

## WIRED VIRTUAL MONITOR SCREEN

### S1000.001

## MODIFIED DEFIBRILLATION CABLES FOR PHILIPS® DEVICES

### S1000.126

## MODIFIED DEFIBRILLATION CABLES FOR PHYSIO-CONTROL® DEVICES

### S1000.127

## MODIFIED DEFIBRILLATION CABLES FOR ZOLL® DEVICES

### S1000.128

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