



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, CARIOVERT & PACE USING REAL EQUIPMENT

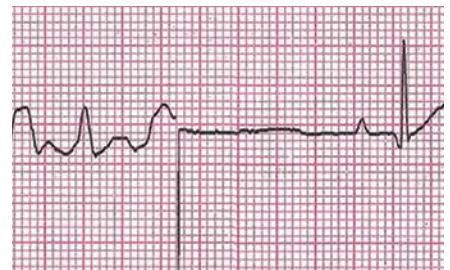
Defibrillate cardiovert and pace using real EMS equipment and see HAL's ECG on your real AED.

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

CO₂ EXHALATION

S1000.078

- Enables real and measurable CO₂ exhalation with every breath
- 10 programmable levels of CO₂ 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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