



**Gaumard®**  
Simulators for Health Care Education

Leadership Through Innovation®



## TRAUMA HAL® S3040.100

Rugged, Resilient, and Tetherless

- Durable and splash-proof
- Quadruple trauma limbs and bleeding wounds
- BleedSmart™ Real-time blood loss monitoring
- eCPR™ - CPR effectiveness monitor and trainer
- Wireless and tetherless
- Up to 10 hours of battery life
- Includes TRAUMA HAL Simulation Learning Experiences™ scenario package



The ultimate simulation solution for emergency care training.

Trauma HAL is specifically engineered to meet the training needs of first responders, EMS, and in-hospital emergency teams. Trauma HAL helps teams engage in true-to-life training exercises to improve emergency preparedness, response, and patient care.

Point-of-injury



Transport



Emergency



Med-surg



**Value**  
Our intuitive UNI® software lets you easily manage HAL's vitals using on-the-fly controls and interactive scenarios, while “automatic operating mode” handles the effects of medications so that you can focus on the learners’ actions.



**A turnkey solution**  
HAL is fully equipped and ready for use. He includes a wireless control tablet, UNI®, a virtual patient monitor, 10 SLE's, and a Facilitator's Guidebook for one great price.



**Rugged design**  
Our industry-leading HAL series design and wireless technology has been proven effective and reliable. The HAL S3040 is the evolution of the HAL S3000 design awarded the certificate of airworthiness by the US Army.



**Field-tested**  
Trauma HAL was developed based on the same proven technology found in the HAL S3000, independently tested by United States Aeromedical Research Laboratory.



True-to-life anatomy and physiology.

Trauma HAL features anatomically accurate landmarks and proportions, and a host of programmable vital signs to facilitate the development of skills transferable to real situations.

Train using real patient monitors and sensors.

Monitor and provide care using native equipment. HAL supports real ECG monitors, capnometers, oximeters, BP cuffs, and defibrillators, just like a real patient.

Deliver effective wound care and trauma management training.

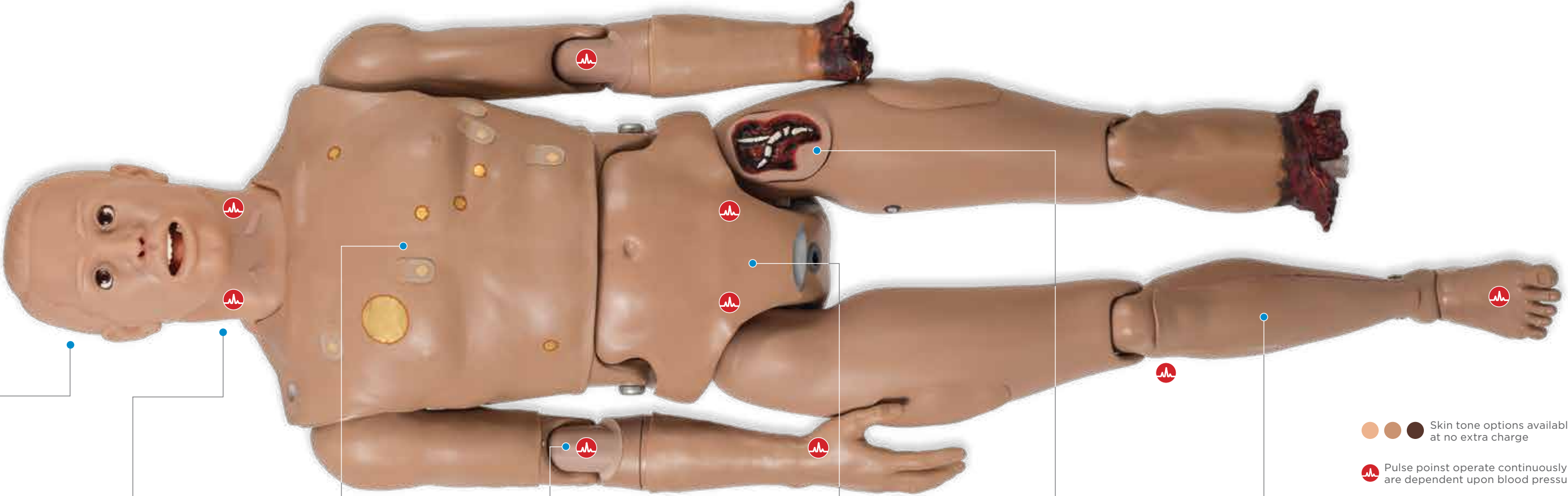
BLEEDSMART™ technology simulates realistic bleeding consistent with heart rate and blood pressure. Axilla and groin wounds respond to applied pressure, packing, and wound dressing. Trauma limbs stop bleeding when a tourniquet is properly applied.




Train in situ with wireless and tetherless technology.


HAL's tetherless and wireless design allows for point-of-injury care, transport, and patient handoff training. HAL is self-contained, quiet, and fully operational on battery power for up to 10 hours<sup>1,2</sup>.









- **Splash-proof and rugged**  
Fully functional during soap and water decon spray.
- **Liquid suction**  
Practice gastric liquid suctioning techniques.
- Blinking eyes and photosensitive pupils
- Secretions: ear, eyes, and mouth
- Central cyanosis
- Wireless streaming voice




- **Seizures and secretions**  
Programmable fluid secretion at ears, eyes, and mouth.
- **Difficult airway**  
Programmable tongue edema, laryngospasm, and pharyngeal swelling.
- **Surgical airway**  
Cricothyrotomy, tracheotomy, and tracheal hook exercises
- EtCO<sub>2</sub> exhalation option
- Mainstem intubation
- Gastric suctioning




- **Chest tube insertion**  
Supports bilateral chest tube placement.
- **Needle decompression**  
Needle insertion detection and audible hiss.
- Heart and lung sounds
- Spontaneous chest rise
- Blood pressure monitoring
- eCPR™ Real-time feedback
- 4-lead ECG sites
- 12-lead ECG upgrade<sup>3</sup>




- **ECG, defib, and pacing**  
Defib and pace using real equipment and live energy.
- **Palpable pulses**  
Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses.
- Pulse oximetry
- Peripheral IV access
- Bilateral antecubital IV access
- Sternal IO access




- **eCPR Real-time feedback**  
Monitor CPR quality in real-time.
- **Supports real monitors**  
ECG monitors, capnometers, oximeters, BP cuffs, and defibrillators.
- Male urinary catheterization
- Bowel sounds in four quadrants
- Bilateral deltoid and quadriceps IM sites




- **Interchangeable trauma limbs**  
includes interchangeable healthy and trauma limbs
- **Axilla and groin wounds**  
Bleeding wound sites respond to applied pressure.
- Pressure-sensitive femoral artery
- Blood pressure-dependent bleeding rate




- **Tourniquet application**  
Blood pressure and heart rate dependent bleeding.
- **Sternal and tibial IO access**  
IO sites support infusion and sampling.
- Internal 1.5-liter blood reservoir



- **Wireless**  
Fully operational on internal battery for up to 10 hours.<sup>2</sup>
- **Tetherless**  
All operating components and blood reservoirs stored inside the body
- **Reinforced limb joints**  
Rugged shoulder and hip joints allow dragging and carrying.



Skin tone options available at no extra charge



Pulse point operate continuously and are dependent upon blood pressure

Product shown with optional 12-lead ECG upgrade.<sup>3</sup>

TRAUMA HAL® S3040.100 | Rugged, Resilient, and Tetherless Trauma Simulator

UNI® Software

Unified Simulator Control Platform - UNI's interface design is shared across our growing line of 15+ computer-controlled patient simulators, so you can easily operate any Gaumard products without retraining, thus saving your program valuable time and money.

Preconfigured and ready

UNI comes preloaded and preconfigured in the rugged 12” wireless tablet PC included with the package.

3D Patient Visualization Monitor

This real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.

Unified Scenario Designer

Create your own scenarios quickly and easily and share them with other UNI users and between Gaumard products.

Time-stamped event recording and reporting

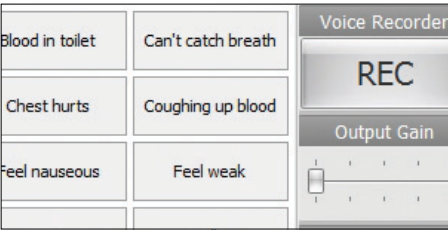
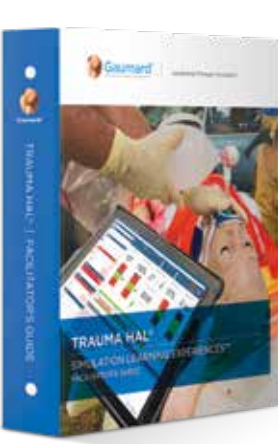
The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.

Control View Replay

The built-in recorder captures UNI's screen as data so you can review the simulation from the operator’s chair.

No annual software license fee

Gaumard is committed to providing the best value and keeping your program's operating costs down year after year.



Wireless streaming voice

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



Free Software Updates

Always stay up to date and take advantage of all the newest features at no additional cost.



eCPR™ Monitoring

Monitor and assess CPR performance in real-time, simulate perfusion dependent on effectiveness, and export performance reports for debriefing.

Includes TRAUMA HAL Simulation Learning Experiences package.

The new TRAUMA HAL® Simulation Learning Experiences (SLEs) provide you with a library of ready-to-use, evidence-based scenarios designed to help you maximize participant’s 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:

- Airway Trauma Secondary to an IED Detonation
  - Acute Respiratory Distress Syndrome Secondary to Motor Vehicle Crash
  - Blast Injury in a Civilian Setting
  - Potential Concussion or Hypovolemia
  - Fall-related Injuries Gunshot Wound To The Chest
- Gunshot Wound To The Leg
  - Traumatic Limb Amputation Secondary to Motorcycle Crash
  - Traumatic Limb Amputation And Possible Traumatic Brain Injury
  - Traumatic Multiple Limb Amputations with Possible Traumatic Brain Injury

TRAUMA HAL® S3040.100 | Rugged, Resilient, and Tetherless Trauma Simulator

Airway

- Full-body adult, 70 inches (178 cm), 88 lbs. (40 kg)
- Rugged shoulder and hip joints allow dragging and carrying
- Splash-proof for CBRNe water spray decontamination
- Self-contained design; all operating components and blood reservoirs stored inside the body
- Wireless and tetherless control¹
- Fully operational on battery power for up to 10 hrs.² (AC power supported)
- Interchangeable trauma/healthy lower arms and legs
- Designed for fast scenario resets with automatic, self-refilling reservoir system
- Ruggedized for outdoor climate

Neurologic

- Blinking eyes and photosensitive pupils
- Software controlled fluid secretion at ears, eyes, and mouth
- Mild and severe convulsions
- Wireless streaming audio. Be the voice of Trauma HAL and hear responses at distances up to 150 ft.
- Library of prerecorded responses
- Programmable custom verbal responses in any language

Airway

- Head tilt/chin lift
- Naso/orotracheal intubation: ETT, supraglottic airway, King® LT
- Retrograde intubation
- Fiber optic intubation
- Programmable difficult airway: tongue edema and pharyngeal swelling
- Laryngospasm with tight seal preventing intubation
- Surgical airway for cricothyrotomy, tracheotomy, and tracheal hook exercises
- Supports suctioning liquids from the airway and lungs
- Visible gastric distention with esophageal intubation

Breathing

- Visible chest rise with BVM
- Ventilation detection
- Shallow and deep needle decompression with audible hiss and needle placement detection up to 3.25in.
- Unilateral chest rise with right mainstem intubation
- Spontaneous chest rise and fall with normal and abnormal respiratory patterns
- Selectable anterior lung sounds
- Bilateral chest tube insertion

Cardiac

- Selectable normal and abnormal heart sounds
- Preprogrammed ECG rhythm library with customizable variations

- 4-Lead ECG monitoring using real equipment (12-lead option available item S3040.100.120)³
- Defibrillation and pacing using real energy

CPR

- eCPR™ Real-time CPR performance monitoring:
  - » Time to CPR, compression depth/rate, chest recoil, compression interruptions, ventilation rate, excessive ventilation, time to defibrillation, smart CPR voice coach
- Durable chest recoil design
- Real CO₂ exhalation capability³ (option S3040.100.078)

Circulation

- Programmable cyanosis
- Measure blood pressure using a real blood pressure cuff
- Detectable oxygen saturation using real OSAT monitors
- Antecubital IV access
- Bilateral carotid, radial, brachial (antecubital fossa), femoral, popliteal, and pedal pulses
- Blood pressure-dependent pulses
- Sternal IO infusion supports FAST¹
- Tibia IO access
- Bilateral deltoid and quadriceps IM injection sites

Trauma

- Quadruple trauma limbs: Interchangeable trauma lower arms and legs included
- Bleeding axilla and groin wounds detect applied pressure
- Blood pressure controlled bleeding rate with heart rate and blood pressure
- Arm and legs tourniquet sensors
- Pressure on femoral artery reduces or stops distal bleeding in leg
- On-board 1.5-liter blood reservoir
- Automatic self-refilling reservoir system
- On-screen blood loss monitor and reservoir level

Digestive

- Internal fluid bladder with male genitalia for catheterization
- Bowel sounds in four quadrants

UNI® Unified Simulator Control Software

- Unified Interface Design
- Manual and Automatic Operating Modes
- eCPR™ Real-time CPR performance monitoring
- 3D Patient Visualization
- Virtual patient monitor
- Scenario designer
- Preprogrammed scenario library
- Lab report designer
- Medication library with editor
- Questionnaire form designer
- Time-stamped event logging
- Provider actions tracker
- UNI Control View Replay

TRAUMA HAL®

S3040.100.PK

Package contents

Trauma HAL®, wireless tablet PC preloaded with UNI® software license, automatic mode license, Trauma HAL® SLE™ courseware package, protective “bump” case, RF module, battery charger, L/R healthy lower arms and legs, L/R trauma lower arms and legs, axilla and groin wound inserts, replacement surgical tracheas, carrying case, hands-free blood refill bag, user manual, One-Year Limited Warranty, (extended warranty plans available). Patented; other patents pending

Options & accessories

Bleeding groin gunshot wound

S3040.100.109G

Bleeding groin gunshot wound insert.

CO₂ Exhalation

S3040.100.078

Real CO2 exhalation.³

12-Lead ECG

S3040.100.120

Adds support for 12-Lead ECG monitoring using real equipment. Adds UNI PQRST wave editor and MI model.³

NIBP Monitoring

S3040.100.069

Adds support for real NIBP monitoring.³

Bedside virtual patient monitor

S3040.100.R2

Gaumard Vitals™ bedside virtual monitor. (1) Gaumard Vitals patient simulator license.

Mobile virtual patient monitor

S3040.100.002

Gaumard Vitals™ portable virtual monitor. (1) Gaumard Vitals patient simulator license.

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, and one-year limited warranty (extended warranty plans available).



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## Request a quote

**Sales / customer service**  
sales@gaumard.com

**Website**  
www.gaumard.com

**Toll-Free USA & Canada**  
Call 8:00 a.m. - 7:30 p.m. ET  
Monday - Friday  
800.882.6655

**Worldwide**  
305.971.3790

## About Gaumard®

Gaumard is family owned and operated, and is the direct source for your health care education needs.

## Place your order

By telephone or on-line at  
www.gaumard.com

## We accept

VISA, MasterCard,  
American Express

## Warranty

Gaumard products are covered by a one-year limited warranty. Terms and conditions apply. Please visit [www.gaumard.com](http://www.gaumard.com) for details.

## Technical support

Available 8:00 a.m. to 7:30 p.m. ET weekdays, or email us at [support@gaumard.com](mailto:support@gaumard.com)  
Phone: 305.971.3790

## Online support 24/7

Download articles, instructions, teaching tips. View instructional videos on demand.

## Support

Gaumard® offers repair services and parts. For more information visit [www.gaumard.com](http://www.gaumard.com)



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