HAL® S3004

One Year Old Pediatric Simulator

- Simulation Made Easy™
- Tetherless with wireless communication
- Fully responsive even while being carried
- Modeling and trending
- Comprehensive performance feedback
- New and improved airway features
Pediatric HAL® allows you to take advanced simulation where you need to train. It may be at an accident scene, in an ER, an EMS vehicle, or even in a PICU. HAL® remains fully functional while being moved from place to place. This “Care in motion” allows you to evaluate both team training and how well patient “hand-offs” are conducted. What is done well? What needs to be improved?

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<tr>
<th>Realistic</th>
<th>Mobile</th>
<th>Complete Solution</th>
<th>Affordable</th>
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<td>Realistic size and weight, tetherless connectivity, airway, chest rise, cyanosis, pre-recorded sounds and a variety of other features make for highly realistic scenarios.</td>
<td>No external compressors, no linking boxes, no cords; just HAL® and a Tablet PC wirelessly connected for up to 300 feet.</td>
<td>From our standard one year warranty and pre-installed scenarios, to multiple service, training, and warranty offerings, we cover all of your simulation needs.</td>
<td>Gaumard® dedicates its talents to providing simulators at affordable prices. This principle remains as true today as it was over 60 years ago.</td>
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<th>Intuitive Software</th>
<th>Debriefing</th>
<th>Reliable</th>
<th>Proven Technology</th>
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<td>Our intuitive and powerful user interface defines... Simulation Made Easy™.</td>
<td>Evaluate interventions and insert notes on a real time performance log. Use an integrated camera system for comprehensive debriefing.</td>
<td>Standard one year warranty and over 60 years of experience building high quality patient simulators.</td>
<td>Gaumard® pioneered wireless and tetherless simulators back in 2004. Pediatric HAL® is part of our growing family of these remarkable products.</td>
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<td>Includes a 12in touchscreen tablet PC with stylus control, “bump” case and scenarios.</td>
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Tetherless
Control HAL® at distances up to 300 feet while he smoothly transitions between physiologic states in response to commands from a wireless tablet PC.

Active Eyes
HAL® has blinking eyes with photo sensitive pupils. Dilation, reactivity, and blink rate can be controlled automatically or by the instructor.

Defibrillate, Cardiovert and Pace Using Real Devices
HAL's electrically conductive skin regions allow the use of real equipment to obtain his ECG, perform temporary pacing, cardiovert, and defibrillate.
Airway and Breathing
Improved airway allows better visualization of vocal cords and easy intubation. Lung compliance refined to deliver chest rise when ventilating at 20cm H₂O.

Intraosseous Access
Intraosseous infusion and injection system with realistic tibia bones.

Cyanosis
Color and vital signs respond to hypoxic events and interventions.
UNI™ Software

- Use our scenarios, modify them or quickly build your own
- Change physiologic states “on the fly” using wireless control
- Changes in condition and care are time stamped and logged
- Link “Palette” items to build a linear or branching scenario
- Sensors track interventions as well as changes to the condition of Pediatric HAL®
- Lab tab allows creation of laboratory tests and results
- The Status panel on the left edge of the GUI window shows vital signs and other details
- Get real-time feedback on the quality of compressions and ventilations

Hypoxic model responds to care provider actions

Scenarios link physiologic states

Track the actions of up to six care providers

Vital Signs Monitor

- Optional 20in “all-in-one” touchscreen virtual monitor or 12in Touch Screen Tablet to display vital signs
- Customize each trace independently; users can set alarms, and time scales
- Display up to 12 numeric values including HR, ABP, CVP, PAWP, NIRP, CCO, SpO₂, SvO₂, RR, EtCO₂, temperature, and time
- Select up to 12 dynamic waveforms including ECG Lead I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6, AVP, CVP, PAWP, pulse, CCO, SvO₂, respiration, capnography
- Share images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progresses
**HAL® S3004 | One Year Old Pediatric Simulator**

**File Sharing**
- Provide students with images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progress

**Log**
- Track the actions of up to six care providers using our menu of responses or write a narrative
- Links with Pro+ recording and debriefing system integrating the log with cameras and patient monitors

**Defibrillate, Cardiovert and Pace**
- Apply real electrodes and AED pads
- Use real EMS equipment
- See electrical interventions on your AED or our monitor ECG
- View ECGs with physiologic variations generated in real-time
- Synchronized with pulses
- Conductive skin regions
- Apply real electrodes

**Motion**
- Fully responsive even when carried
- Body convulses on command
- Eyes open / close and feature slow or rapid blinking

**Hypoxic Modeling**
- Color and vital signs respond to hypoxic events and interventions

**Sounds**
- Extensive speech library
- Heart sounds include a normal heart as well as splits and murmurs
- Respiratory sounds include normal lungs as well as stridor, bronchial, wheezing, pleural friction and crackles
- Bowel sounds

**Venous Access**
- IV training arms
- IM sites on shoulders and thighs
- Intraosseous access at tibia

**Simulator**
- Physical size is 1 year of age
- Self-contained respiratory and circulatory functions
- Active eyes
- NG and otic exercises
- Tracheotomy opening
- Interchangeable genitalia
- Enema administration
- Two way wireless communication
- Internal rechargeable power

**Control**
- Wireless tablet PC with stylus control
- Communication modules are FCC and CE compliant
- Both physiologic modeling and trending
- Comprehensive performance feedback
- Preprogrammed scenarios
- Build your favorite scenarios

**Accessories**
- 100-240 VAC charger
- Blood pressure cuff
- Instructions
- CDROM tutorial
- Carrying case

**Other**
- One year limited warranty; extended warranty to three years
- Installation and training services available

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**Options**

**20in All-in-one Touch Screen PC to Display Vital Signs**
S3004.001.R2

**12in Touch Screen Tablet to Display Vital Signs**
S3004.002

**Wireless Streaming Audio**
S3004.300

**Pro+ Recording and Debriefing System**
S3004.211

**Automatic “Physiologic” Mode**
S3004.600
- Responds to caregiver, instructor and pharmacologic intervention
- Pause and resume anytime
- Add meds using drug template

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Tetherless Simulators - HAL® S3004

Patented; other patents pending