



October 25, 2019

To Whom It May Concern:

Gaumard Scientific Company, Inc. located at 14700 SW 136 Street, Miami, FL 33196 is the sole provider and sole manufacturer for the following item: **S3040.100 Trauma HAL®**.

The following features apply to the S3040.100 Trauma HAL®:

- Rugged construction for combat, disaster, trauma care, and CBRNe simulation, even in the most demanding environments
- Completely wireless and Tetherless. All operating system components are housed inside the simulator
- Rugged shoulder and hip joints for field and evacuation exercises
- Splash proof for CBRNe water spray decontamination
- Use NATO litter; cover with blanket
- Control HAL® using rugged wireless tablet PC from up to 900 ft. away
- HAL is fully functional on battery power for point-of-injury care and care in motion
- Bleeding trauma limbs and wound sites for training emergency bleeding control techniques
- 1.5 liter “On-board” simulated blood supply; blood loss and blood reservoir level shown on tablet PC
- Fully operational on battery power or AC adapter. Internal rechargeable battery provides 10 hours of continuous use. Designed for fast scenario resets with easy to use fluid refill ports and interchangeable limbs
- Real-time CPR quality and performance feedback
- Built-in library of programmed scenario included; modify them; create your own
- Blinking eyes with light reactive pupils
- Software controlled fluid secretion at ears, eyes, or mouth. Mild and severe convulsions
- Intubate ET tube, LMA, or King LT. Programmable difficult airway with tongue edema and pharyngeal swelling
- Laryngospasm with tight seal preventing intubation. Surgical airway for cricothyrotomy, tracheostomy, and tracheal hook exercises
- Permits liquids in the airways for suctioning
- Streaming audio; “Be” the voice of Trauma HAL; Hear responses at distances up to 150 ft.
- Pre-record and program verbal responses in any language
- Palpable ribs and realistic chest cavity
- Shallow and deep needle decompression with audible hiss and needle placement detection. Bilateral chest drain sites
- Unilateral chest rise with right main stem intubation
- Automatic chest rise and fall with selectable respiratory patterns. Selectable anterior lung sounds
- Programmable heart sounds, monitor ECG using standard medical equipment. No special adapters required
- 12 Lead ECG option available
- Built in library of cardiac rhythms, Pacing, cardioversion, defibrillation
- Measure blood pressure using a real monitor



- Detectable oxygen saturation using standard OSAT monitors
- Brachial pulse at bend in the arm antecubital vein for IV training
- Software controlled visible cyanosis
- Radial, brachial, carotid, femoral, popliteal and pedal pulses are blood pressure dependent
- Supports sternal intraosseous infusion I/O (F.A.S.T.1 and more)
- Intraosseous tibia I/O access with replaceable tibia bones
- Lower arms and legs are easily replaceable with trauma stumps that bleed in sync with heart rate and blood pressure
- Bleeding wounds at axilla and groin can be packed using combat gauze and respond to applied pressure
- Sensors in the arm and legs respond to tourniquet application and applied pressure
- Bleeding from two arteries in the forearm and three arteries in the legs respond to tourniquet application
- Pressure on femoral artery reduces or stops distal bleeding in leg
- Visible gastric distention with esophageal intubation
- Internal fluid bladder with male genitalia for catheterization
- Bowel sounds in four quadrants

Sincerely,

Odalys Suarez

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