



HELAGO-CZ, s.r.o.
Commercial Register maintained by the Regional Court in
Hradec Králové
Section C, File 17879
Kladská 1082
500 03 Hradec Králové 3
Company ID: 25 96 39 61, VAT: CZ 25963961
Phone: 495 220 229, 495 220 394
Fax: 495 220 154
GSM gate: 602 123 096
E-mail: info@helago-cz.cz
Web: <http://www.helago-cz.cz>

**Trauma HAL® S3040.100 Rugged,
Resilient and Tetherless**
Order code: **4108.S3040.100**



Information about product price on demand

Parameters

Quantitative unit

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The Trauma HAL S3040.100 is a rugged and resilient human trauma patient simulator manikin for teaching care on the battlefield. HAL's toughness and durability has been proven by independent testing in hot and cold conditions; wet and dry environments; in both fixed winged aircraft and military helicopters. HAL® is splash proof; fits in a NATO litter; and can be covered with a blanket without overheating. Rush HAL® from the accident scene to the ER, to the ICU, while care providers diagnose and treat his condition using real monitoring and resuscitation equipment. Control HAL® between rooms and floors of conventional buildings. HAL® smoothly transitions between physiologic states in response to commands from a wireless PC.

Anatomy and Connectivity

- 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 control;

- Fully operational on battery power for up to 10hrs (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 with reactive 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, LMA, King LT
- Retrograde intubation
- Fiberoptic 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 and right mainstem intubation
- Spontaneous chest rise and fall with normal and abnormal respiratory patterns
- Selectable anterior lung sounds
- Bilateral chest tube insertion

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
 - Real end-tidal CO2 capability (option S3040.100.078)
 - Durable chest recoil design

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 I/O infusion supports F.A.S.T.1
- Tibia I/O access
- Bilateral deltoid and quadriceps IM injection sites

Digestive

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

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)
- Defibrillation and pacing using real energy

Trauma

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

Package Includes

- Wireless tablet PC, protective “bump” case, and UNI software license
- RF Communications Module
- Battery charger/Power supply
- L/R Healthy lower arms and legs
- L/R Trauma lower arms and legs
- Axilla and groin wound inserts
- Replacement surgical tracheas
- Soft carrying case
- Hands-free blood refill bag