



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](mailto:info@helago-cz.cz)  
Web: <http://www.helago-cz.cz>

## HAL S1030 - Dynamic Airway and Lung Compliance Simulator

Order code: **4108.S1030**



Information about product price on demand

Parameters

Quantitative unit

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- Adult HAL full-size body
- Supports real mechanical ventilators and standard modes of ventilation
- Intubatable and programmable airway
- Programmable lung compliance
- Independently control right and left side airway resistances

**Meet HAL® S1030. Our most powerful airway and mechanical ventilation management skills trainer yet.**

HAL S1030 is a computer-controlled, full-body patient simulator designed to aid students and professionals train airway and mechanical ventilation management skills through hands-on exercises using real equipment. HAL's patented respiratory system and powerful software work together to simulate true-to-life physiology unmatched by any other patient simulator in its class.

- Connect a ventilator to HAL using standard patient circuits like a real patient. No calibration, proprietary adapters, or converter boxes required.

- Supports standard modes of pressure-controlled and volume-cycled mechanical ventilation
- Presents true-to-life waveforms and values on ventilator screen
- 10 programmable levels of lung compliance (from 15 to 50 cmH<sub>2</sub>O)
- 10 programmable levels of airway resistance
- Holds PEEP from 5 to 20 cmH<sub>2</sub>O
- Real CO<sub>2</sub> exhalation
- Supports on-the-fly changes to airway and lung parameters while connected to the ventilator
- Anatomically accurate oral cavity and airway
- Supports standard endotracheal tubes and supraglottic devices
- Programmable tongue edema, pharyngeal swelling, and laryngospasm
- Patented, dynamic airway and lung compliance respiratory system.

## **Powered by UNI®. Patient simulator control software that is powerful and easy to use.**

UNI features easy-to-use physiological controls, task automation, real-time feedback, and data capture tools designed to help you facilitate training experiences that are immersive and effective.

UNI includes a library of preprogrammed pathologies, including asthma, chronic bronchitis, CHF, emphysema, pneumothorax, and more.

Change airway and lung function parameters on the fly and see feedback on a real mechanical ventilator in real-time.

Add optional Gaumard Vitals™ virtual patient monitor for vital signs interpretation exercises

## **Features**

- Articulating adult HAL full-size body
- Normal, miosis (constricted), and mydriasis (blown) pupil states
- Independent left/right pupil states simulate consensual and nonconsensual response
- Available in different skin tones
- Use our scenarios, modify them, or create your own
- Intubatable and programmable airway
- Programmable lung compliance
- Independently control right and left side airway resistance
- Supports assisted ventilation at variable respiratory rates
- Simulate life-threatening auto-PEEP and tension pneumothorax
- Exhales real and measurable CO<sub>2</sub>
- Assess CO<sub>2</sub> output with end-tidal detector or capnography
- Vary lung mechanics throughout your entire simulation exercise
- Receive real-time feedback from real mechanical ventilator
- BVM, intubate, or mechanically ventilate
- Program tongue edema, pharyngeal swelling, and laryngospasm
- Practice intubation and difficult airway management
- Ten levels of static compliance, 15-50 ml/cmH<sub>2</sub>O
- Capable of holding therapeutic levels of PEEP
- Real CO<sub>2</sub> exhalation
- Specify inspiratory time and rate, inspiratory/expiratory ratio
- Change lung resistance/compliance “on-the-fly” and see results on a real ventilator which are recorded on the laptop
- Preprogrammed airway and lung pathologies including:
  - Asthma
  - Chronic Bronchitis
  - CHF
  - Emphysema
  - Pneumothorax
- Set inspiratory effort rate to trigger the ventilator
- Four anterior and four posterior lung sounds
- Use our preprogrammed pathologies or create your own
- Create scenarios using our proven, easy to use HAL software
- Connect our simulator to a real ventilator, which can be set by volume or pressure

**Gaumard Vitals™ Bedside Virtual Monitor**

30080154B

Gaumard Vitals bedside virtual monitor. One Gaumard Vitals patient simulator license.