



HAL® S3009

Premature Neonatal Simulator

- Simulation Made Easy™
- Proven HAL® technology
- Tetherless with wireless communication
- Fully responsive even while being carried
- Modeling and trending
- Comprehensive performance feedback

Premie HAL® S3009 | Premature Neonatal Simulator



New silicone umbilicus with two arteries and one vein for UAC, UVC and cord cutting. Pulse synchronized with ECG



Airway

- Oral and nasal intubation
- Use an ET tube or LMA
- Multiple upper airway sounds synchronized with breathing

Breathing

- Control rate and depth of respiration and observe chest rise
- Ventilations measured and logged
- Select left and/or right chest wall

movement and lung sound

- Chest rise and lung sounds are synchronized with selectable breathing patterns
- Accommodates assisted ventilation, including BVM and mechanical support

Circulation and Color Change

- Multiple heart sounds, rates and intensities

- Compressions measured and logged
- Color and vital signs respond to hypoxic events and interventions
- Bilateral, brachial, femoral, umbilicus and fontanelle pulses
- Pulse strengths vary with blood pressure and pulses are synchronized with ECG
- Temperature probe placement sensor

Tetherless

- Premie™ is fully responsive even when carried
- No tubes or wires to worry about

File Sharing

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

Control

- Change physiologic states “on the fly” using wireless control
- Use our scenarios, modify them or quickly build your own
- Sensors provide performance feedback
- Changes in condition and care are time stamped and logged
- Instructors evaluate interventions and insert notes on real-time performance log

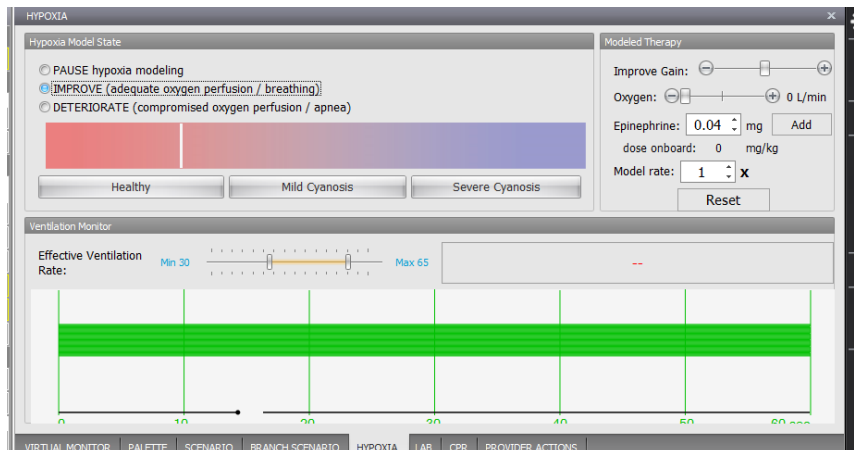
ECG

- View ECGs with physiologic variations generated in real-time
- Synchronized with pulses
- Conductive skin regions
- Apply real electrodes

Hypoxic Modeling

- Color, and vital signs respond to hypoxic events and interventions

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Use this hypoxic model which is responsive to actions of care providers or retain control of the newborn's color and vital signs

The screenshot shows the 'Log: Evaluation of Tyson' window. It contains a table with the following data:

| Time | Provider | Action |
|----------|---------------|------------------------------|
| 00:01:03 | [Christopher] | ACTION Assess breathing |
| 00:01:08 | [Christopher] | ACTION Assess responsiveness |
| 00:01:14 | [Tyson] | ACTION Airway management |
| 00:01:18 | [Tyson] | ACTION Call for assistance |

Below the table is a search bar with 'Tyson' entered and an 'ADD TO LOG' button.

Real time performance log tracks the action of up to six care providers. Actions are logged and time stamped for debriefing purposes

The screenshot shows the 'SCENARIO' window. It has a table with the following data:

| Event | Time | Details |
|-------------------|-------|-----------------------------------|
| APGAR 4 | 00:00 | A = 0; P = 1; G = 2; A = 0; R = 1 |
| Wait | 00:10 | No changes are made to manikin |
| APGAR 3 | 00:25 | A = 0; P = 1; G = 1; A = 0; R = 1 |
| Wait Indefinitely | ... | wait for cpr... |
| APGAR 6 | 00:25 | A = 0; P = 2; G = 2; A = 1; R = 1 |
| Wait Indefinitely | ... | ventilations required... |

The window also includes buttons for 'Clear', 'Load', 'Save', 'Auto-Responses', and 'Print'. A 'Compromised Premie' section at the top describes the scenario: 'Mom is rushed to the OR and a C-Section is performed. The premie is born with an APGAR 4 and required emmediate'.

Use our scenarios, modify them or quickly build your own

Sounds

- Crying synchronized with breathing
- Heart sounds include a normal heart as well as atrial and ventricular septal defects
- Respiratory sounds include both normal lungs as well as stridor and grunting

Venous Access

- Bilateral dorsum of hand
- Patent umbilicus
- Intraosseous access at tibia
- Left foot

HAL® S3009 includes:

- Internal rechargeable NiMH power
- Instructor's 12in tablet PC with stylus control,"bump"case and docking station for tetherless operation
- Carrying case
- 10 scenarios
- 100-240 VAC charger
- Instructions
- DVD tutorial
- One year warranty

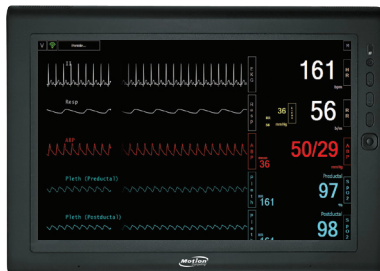
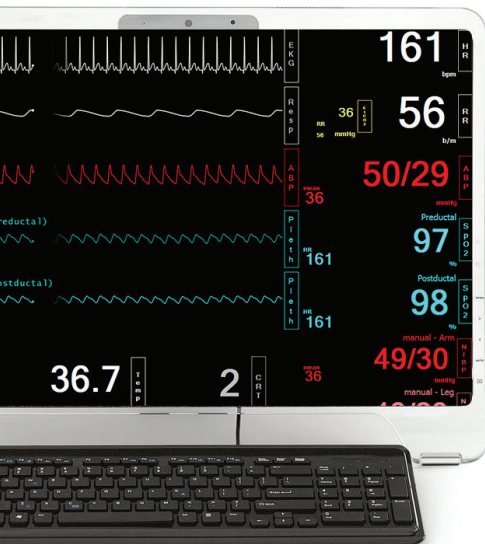
HAL® S3009

S3009

\$15,995

Patented; other patents pending

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Options

Vital Signs Touch Screen Displays

- Controlled via wireless tablet PC
- Simulated vital signs
- Use selected configuration or create your own configuration to mimic the real monitors used in your facility
- Customize alarms
- Easy to operate and control
- Reflect simulator's condition during the scenario
- Share images such as ultrasounds, CT scans, lab results
- Touchscreen control
- Monitor can be configured by the instructor to suit the scenario
- Display up to 12 numeric parameters
- Select up to 12 dynamic waveforms

20in All-in-one PC S3009.001.R2

12in Tablet S3009.002

Pro+ Recording and Debriefing System S3009.211

- Control both simulation and recording simultaneously using one PC
- Capture multiple video, audio, and patient monitors, as well as simulator log file for debriefing
- Use in a fixed simulation laboratory or at a mobile location
- Two wireless and one wired camera

Automatic "Physiologic" Mode S3009.600

- Intuitive interface and automaticity makes simulation easy
- Vital signs are generated in real time
- Drug library with medications
- Use of medications change conditions in real time mimicking real clinical situations