



SUPER TORY® S2220

Wireless and Tetherless Neonate Simulator

- Programmable mouth, eyes and limb movement
- Dynamic lung compliance with true ventilator support
- Real patient monitor support: pre and postductal SpO₂, EKG, capnography, NIBP, live pacing and defibrillation
- Infusion and sampling: scalp, hand, umbilicus (UVC/UAC), and IO access
- Wireless and tetherless; up to 8 hrs. battery life

SUPER TORY® S2220 | Advanced Newborn Patient Simulator

PREMIE/NEWBORN
/PEDIATRIC

ACTIVE LIMB MOTION, TRUE VENTILATOR SUPPORT, REAL MONITORING, AND MOBILE.

These are just a few of the innovative new features which allow Super Tory to simulate complex pathologies and respond to interventions with unparalleled realism.

- Full-term newborn: 8 lbs. 21 in.
- Wireless and tetherless: up to 8 hours
- Smooth and supple, full body skin
- Crying and grunting
- Programmable movement
- Blinking rate, eyes opened/closed
- Mouth: gasping and clenching
- Arm, leg, wrist flexion and extension
- Seizures: single limb, unilateral, or full body movement
- Dynamic lung compliance
- Heart and lung sounds and palpable pulses
- 10 scenarios included



NEONATAL RESUSCITATION AND STABILIZATION



REAL MECHANICAL VENTILATOR AND PATIENT MONITOR SUPPORT



INTERNAL AND EXTERNAL CRITICAL CARE TRANSPORT



TRUE-TO-LIFE NEONATAL RESUSCITATION AND STABILIZATION SCENARIOS.

Super Tory introduces a new level of anatomical and physiological fidelity that allows participants to rehearse advanced-level algorithms, without compromising technique or clinical guidelines.

- Anatomically accurate oral cavity and airway
- Intubation depth and neck hyperextension/flexion detection
- Visible chest rise following guideline recommended flow, PIP, and PEEP values
- SpO₂ and EtCO₂ monitoring using real sensors
- eCPR™ Real-time quality feedback and reporting
 - » Compression depth, rate, and interruption duration
 - » Ventilation rate and duration
 - » Smart CPR voice coach
 - » Performance report summary
- Defibrillate, cardiovert and pace using real devices and energy
- Multiple vascular access sites



Anatomically accurate airway



Hand and scalp IV, tibial IO



UAC/UVC infusion



Pre and postductal SpO₂

UNINTERRUPTED CRITICAL CARE TRANSPORT.

Transport, handoffs, NICU evac drills and more. Super Tory remains fully functional in transit thanks to its extra long battery life and proven wireless technology.

- Wireless control at distances of up to 100 ft.
- Internal rechargeable battery provides up to 8 hrs of tetherless operation



SUPER TORY® S2220 | Advanced Newborn Patient Simulator

PREMIE/NEWBORN
/PEDIATRIC

A LEAP IN NICU SIMULATION. TRUE VENTILATOR SUPPORT. AND MUCH MORE.

The breakthrough respiratory system design in Super Tory accurately responds to mechanical ventilation support like a real newborn. At the touch of a button, variable levels of dynamic lung compliance are capable of producing visible chest rise with as little as 15 cmH₂O, as well as the high recoil associated with stiff lungs. These advanced features allow Super Tory to simulate the changes in lung function through treatment, weaning, and rehabilitation with the highest degree of physiological accuracy.

- Modes include: ACV, SIMV, CPAP, PCV, PSV, NIPPV
- Programmable respiratory patterns, retractions, “see-saw” breathing, and abdominal distension
- Supports therapeutic levels of PEEP
- Programmable airway and lung function
 - » Dynamic lung compliance (low to high)
 - » Bilateral bronchi resistance
 - » Respiratory effort; triggers ventilator during weaning



Sunken, bulging, and normal



Capillary refill time testing



Retractions, “see-saw” breathing



Pneumothorax, bilateral

Super Tory features bilateral and midaxillary surgical sites for needle decompression and chest tube insertion exercises.

- Palpable bony landmarks
- Realistic skin supports cutting and suturing
- Sites bleed when cut and release fluid upon tube insertion
- Tactile pleural “pop”

SUPPORTS REAL PATIENT MONITORING DEVICES.

Super Tory was developed for in situ training. Real patient monitoring support means participants can set up and operate real equipment, interpret real-time data, and follow protocols just as they would in real situations.

- ECG monitoring
- ECG-derived respiration monitoring
- Pre and postductal SpO₂ monitoring
- Oscillometric NIBP
- Live pacing and defibrillation
- Capnography



UNI® Offers All The Tools To Deliver A Rich Simulation Experience In One Intuitive Interface.

UNI features precise physiological touch-based controls, task automation, real-time feedback, and automatic data capture tools designed to operate seamlessly during even the most complex scenarios.



- **Preconfigured and Ready** - The Super Tory package includes a powerful tablet PC preconfigured with the intuitive UNI simulator control interface.
- **Optimized for on-the-fly controls** - The UNI touchscreen interface lets you quickly and easily adjust vital sign parameters with just a few taps.
- **3D Patient Visualization Monitor** - This real-time 3D view of the patient ensures you never lose track of provider/patient interaction during the simulation.
- **Automatic Operating Mode** - UNI's engine calculates physiologic responses to caregiver or operator actions, pharmacologic intervention, and cardiopulmonary events, thereby increasing fidelity while reducing input from the operator.
- **Scenario Designer** - Create your own scenarios quickly and easily and share them with other UNI users.
- **eCPR™** - Monitor compression rate and depth, no-flow time, ventilation rate, and excessive ventilation; smart trainer features vocal cues and outputs performance report.
- **Lab Report Designer** - Generate and share simulated diagnostic lab results to enhance case fidelity and participant involvement.
- **Questionnaire Form Designer** - Manage progress by easily creating interactive checklists to track participant objectives and post-simulation feedback.
- **Time-stamped event recording and reporting** - The automated event tracking and interaction recorder ensures important events are always captured so you can focus on the action.
- **Provider Actions Tracker** - The interactive "Actions" panel lets you carefully track additional team and individual provider actions to generate a comprehensive post-simulation log.
- **UNI Control View Replay** - The built-in recorder captures UNI's screen as data to allow your team to review the simulation from the operator's chair.
- **No annual software license fee** - Gaumard is committed to providing the best value and to keep your program's operating costs down year after year.
- **Free software updates** - Always stay up to date and take advantage of all the newest features at no additional cost.
- **Free webinar training and technical support** - Sign up for monthly webinar sessions and become a UNI expert.

GENERAL

- Age: Full-term newborn
- Weight: 8 lbs.
- Length: 21 in.
- Tetherless and wireless; fully responsive during transport
- Wireless control at distances of up to 100 ft.
- Internal rechargeable battery provides up to 8 hr. of tetherless operation
- Smooth and supple full-body skin with seamless trunk and limb joints
- Programmable movement: blinking, mouth open and close, arm and leg flexion and extension
- Realistic joint articulation: neck, shoulder, elbow, hip, and knee
- Forearm pronation and supination
- Lifelike umbilicus and post cord detachment navel
- Palpable bony landmarks
- Near-silent operation
- NOELLE® Fetus-Newborn wireless link capability
- Tablet PC preloaded with UNI® included
- OMNI® 2 ready

NEUROLOGIC

- Crying/grunting with visible mouth movement
- Blinking eyes
- Seizures/convulsions
- Programmable muscle tone: active, reduced, and limp

AIRWAY

- Anatomically accurate oral cavity and airway
- Nasotracheal/orotracheal intubation (ETT, laryngeal airway)
- Head tilt, chin lift, jaw thrust
- Supports esophageal intubation
- NG/OG tube placement
- Bag-valve-mask ventilation support
- Neck hyperextension and flexion airway obstruction with event capture and logging
- Intubation depth detection and software event log

BREATHING

- Spontaneous breathing
- Variable respiratory rates and inspiratory/expiratory ratios
- Programmable unilateral chest rise and fall
- Unilateral lung sounds synchronized with respiratory rate
- Programmable retractions, “see-saw” breathing
- Mechanical ventilation support
 - » A/C, SIMV, CPAP, PCV, PSV, NIPPV
 - » Supports PEEP (up to 20 cmH2O)
 - » Dynamic airway and lung controls
 - » Variable lung compliance
 - » Bilateral bronchi resistance
- Programmable respiratory efforts for weaning/liberation
- Unilateral chest rise with right mainstem intubation (Automatic detection and logging)
- Real-time ventilation feedback
- Bilateral, midaxillary pneumothorax sites support needle decompression and chest tube insertion
- Pneumothorax sites feature palpable bony landmarks, realistic skin for cutting and suturing, bleeding, tactile pleural pop, and fluid drain
- Visible chest rise during bag valve mask ventilation
- Supports EtCO2 monitoring using real sensors and monitoring devices

CARDIAC

- Includes comprehensive library of ECG rhythms with customizable beat variations
- Supports ECG monitoring using real devices
- Supports ECG-derived respiration monitoring (EDR)
- eCPR™ Real-time quality feedback and reporting

- » Time to CPR
- » Compression depth/rate
- » Compression interruptions
- » Ventilation rate
- » Excessive ventilation
- » Smart CPR voice coach
- Chest compression depth sensor
- Defibrillate, cardiovert and pace using real devices and energy
- Effective chest compressions generate palpable femoral pulses and ECG activity
- Healthy and abnormal heart sounds
- Supports virtual pacing and defibrillation

CIRCULATORY

- Visible cyanosis, jaundice, paleness, and redness with variable intensities
- Supports manual capillary refill time assessment on the left foot (Automatic detection and logging)
- Programmable fontanel: depressed, normal, and bulging
- Palpable pulses: brachial, femoral, and umbilical
- Blood pressure dependent pulses
- Supports blood pressure monitoring using real NIBP cuff
- Audible Korotkoff sounds
- Preductal (right hand) and postductal (right foot) SpO2 monitoring using real devices

VASCULAR ACCESS

- IV cannulation: bolus, infusion, and sampling
 - » Hand
 - » Scalp
 - » Umbilicus
- Umbilical catheterization (UVC/UAC): infusion and sampling
- Bilateral IO tibial infusion

GASTROINTESTINAL

- Programmable abdominal distension
- Urinary catheterization with return
- Normal and abnormal bowel sounds

SUPER TORY®

S2220.PK

Available skin tones
Patented; other patents pending

- Super Tory®
- Neonatal Simulation Learning Experiences Guidebook
- Tablet PC preloaded with UNI®
- Automatic Mode license
- Preprogrammed scenario library
- RF module
- Battery charger
- Defibrillation adapter
- Filling kits
- Accessories
- CO2 adapter
- Carrying case
- User manual
- 1 year standard warranty
- 2, 3, 5 year warranty plans available

OPTIONS

BEDSIDE MONITOR

S2220.001.R2

MOBILE VIRTUAL MONITOR

S2220.002

CARE IN MOTION™ MOBILE

VIDEO-ASSISTED DEBRIEFING SYSTEM



CIM.PK

- Care In Motion Tablet PC
- 3 Battery-powered HD wireless cameras
- 3 Adjustable camera grips
- Transport case
- One-Year Limited Warranty
- Extended service plans available