Xtreme

NENASim Xtreme is the highest fidelity neonatal simulator. Faithful reproduction of a baby's anatomy and physiology, **NENASim Xtreme** is an effective tool for all kinds of neonatal care specialist training as advanced life support, intensive care, and several medical procedures. Some of the manikin's unique features include life-like movements of the eyelids, head, and limbs; pupillary and Babinski reflexes; realistic sounds such as laughing, crying, and coughing; and a realistic silicone skin that colorizes to simulate conditions like cyanosis, jaundice, and paleness.

General

- **Lenght**: 59 cm
- **Weight**: 4.2 kg
- **Sex**: Male
- **Skin tone:** Dark, Medium or Light
- Wireless and tetherless
- Battery life of approximately 6 hours
- Internal electrical power
- Bluetooth stethoscope simulator

Airway

- Realistic anatomy: tongue, epiglottis, vocal cords, trachea, and esophagus
- Airway open maneuvers: head tilt, chin lift, and jaw thrust
- Oro- and nasotracheal intubation
- Insertion of oro- and nasopharyngeal airways
- Insertion of supraglottic devices

Breathing

- Spontaneous breathing
- Realistic chest and belly movements
- Several breathing patterns
- Lung auscultation

- Bag-valve-mask ventilation
- Pneumothorax
- Thoracic needle decompression
- Chest tube placement

Cardiovascular

- Adjustable heart rate and BP
- Bilateral brachial and femoral pulses
- Fontanel and umbilical pulses
- Extensive ECG library
- Heart auscultation

CPR

- Anatomical landmarks for heart massage
- Realistic compression resistance
- Feedback on CPR quality
- Defibrillation

Other

- Fontanel with adjustable depth
- Eyelids movement
- Realistic movement of the articulations
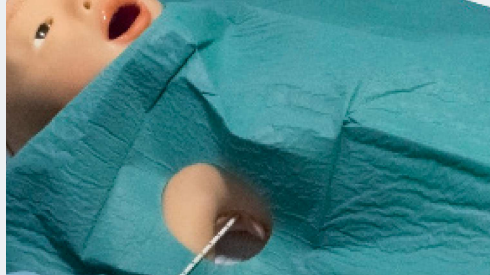- Convulsion
- Pupillary and Babinski reflexes

- Cyanosis, jaundice, paleness
- IV access
- Intraosseous insertion
- Bowel sounds
- Urethral catheterization
- Rectal access

Software

- Wireless operation
- Multi-parameter patient monitor
- 15 pre-programmed scenarios
- Detailed debriefing
- Built-in AV recording possible
- Scenario editor
- ECG and sound editor

Package components

- NENASim neonatal simulator
- Suitcase
- Charger with power cable
- Bluetooth stethoscope simulator
- Software
- Umbilical cord add on
- IO leg add on

Tube Thoracostomy

A chest drain can be inserted, and the software recognizes its placement.

Visual clinical conditions

Cyanosis, jaundice, paleness, and other colors can be seen on the baby's cheeks, chin, hands, and feet.

Umbilical cord

The umbilical cord has a palpable pulse and can be filled with simulated blood.

Fontanel

Fontanel with palpable pulse and adjustable depth.

Pupillary reflexes

The pupils can constrict and dilate in response to the light.

Spontaneous breathing

Spontaneous breathing with variable rate and depth. Thoracic, diaphragmatic, and paradoxical breathing.