

Multiple Airway Skills/Features:

- Controllable open/closed airway; automatically or manually controlled
- Head tilt/Chin lift
- Jaw thrust w/articulated jaw
- Suctioning (Oral and Nasopharyngeal)
- Bag-mask ventilation
- Orotracheal intubation
- Nasotracheal intubation
- Right main stem intubation
- Combitube, LMA, and other airway placement
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle cricothyrotomy
- Surgical cricothyrotomy
- Variable lung compliance – 4 settings
- Variable airway resistance – 4 settings
- Stomach distention

Airway Complications:

- Detection of proper head position
- Can't intubate/Can't ventilate
- Can ventilate/ Can't intubate
- Tongue edema
- Pharyngeal swelling
- Laryngospasm
- Decreased cervical range of motion
- Trismus

Breathing Features:

- Spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO₂ exhalation

and waveform display

- Normal and abnormal breath sounds
 - 5 anterior auscultation sites
 - 6 posterior auscultation sites
- Oxygen saturation and waveform display

Breathing Complications:

- Cyanosis
- Needle thoracentesis – bilateral
- Unilateral and bilateral chest movement
- Unilateral, bilateral and lobar breath sounds
- Chest tube insertion – bilateral

Cardiac Features

- Extensive ECG library
- Heart sounds – 4 anterior locations
- Simulated ECG rhythm monitoring (4 lead)
- ECG Monitoring 3 and 5 lead
- 12 lead ECG display
- Defibrillation and cardioversion
- Pacing

Circulation features:

- BP measured manually by auscultation of Korotkoff sounds
- Carotid, femoral, brachial, radial, dorsalis pedis, popliteal and posterior tibialis pulses synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected and logged

Vascular access:

- IV access (right arm)
Intraosseous access (tibia and sternum)

CPR:

- Compliant with 2015 Guidelines
- CPR compressions generate palpable pulses, blood pressure waveform, and ECG artifacts
- Realistic compression depth and resistance
- Detection of depth and frequency of compressions
- Detection of leaning
- Real-time feedback on quality of CPR

Eyes:

- Blinking - slow, normal, fast and winks
- Open, closed and partially open
- Pupillary accommodation:
 - Synchrony/asynchrony
 - Normal and sluggish speed of response

Other Features:

- Bleeding
 - Simulation of bleeding at multiple sites
 - Arterial and venous
 - Vital signs automatically respond to blood loss and therapy
 - Works with various wound modules and moulage kits
- Urine output (variable)
- Foley catheterization
- Secretions
 - Eyes, Ears, Nose, Mouth
 - Blood, Mucous, CSF, etc.
- Diaphoresis
- Bowel sounds – four quadrants
- Patient voice
 - Pre-recorded sounds
 - Custom sounds

- Instructor can simulate patient's voice wirelessly
- Instructor communication
 - Multiple instructors communicate using integrated
- Voice Over Internet Protocol (VOIP)
- Right leg IM skin

Amputations:

- Amputated left arm
- Amputated left leg
- Amputated right arm
- Amputated right calf skin

System Features:

- Wireless Rugged tablet PC controls simulator remotely
- Control multiple manikins from one interface
- Control simulations from anywhere on your network
- Multiple interfaces can control/observe a single simulation
- Manual Mode
 - Precise control "on the fly"
 - Design and program custom scenarios
 - Create custom events
 - Run pre-programmed scenarios
- Automatic Mode
 - Physiological models run pre-programmed simulations
 - Unique, simple controls increase/decrease difficulty and pace
- Simulation controls:
 - Fast forward
 - Pause
 - Rewind
 - Save/Restore

- Patient Editor

- Future prediction and patient outcome display
- Integrated video debriefing
- Data logging
- Instructor comments

Patient Monitor:

- Wireless
- Highly configurable
- Includes:
 - ECG (2 traces)
 - SpO2
 - CO2
 - ABP
 - CVP
 - PAP
 - PCWP
 - NIBP
 - TOF
 - Anesthetic Agent
 - pH
 - PTC
 - ICP
 - Cardiac output
 - Temperature (core and peripheral)
 - Additional and programmable parameters
- X-Ray display
- 12 Lead ECG display
- Custom image display
- Custom video display