A realistic, full-body adult, wireless patient simulator, SimMan Essential offers comprehensive clinical functionality to teach the core skills of airway, breathing, cardiac and circulation management.

**FEATURES:**

**Multiple Airway Skills:**
- Controllable open/closed airway; automatically or manually controlled
- Head tilt/Chin lift
- Jaw thrust w/articulated jaw
- Suctioning (Oral & Nasopharyngeal)
- Bag-mask ventilation
- Orotracheal intubation
- Nasotracheal intubation
- Combitube, LMA, and other airway placement
- Endotracheal tube intubation
- Retrograde intubation
- Fiberoptic intubation
- Transtracheal jet ventilation
- Needle cricothyrotomy
- Surgical cricothyrotomy
- Variable airway resistance on/off
- Right main stem intubation
- Stomach distention
- Decreased range of cervical motion

**Breathing:**
- Simulated spontaneous breathing
- Bilateral and unilateral chest rise and fall
- CO2 exhalation
- Normal and abnormal breath sounds
  - 5 anterior auscultation sites
  - 6 posterior auscultation sites
Circulation:
- 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 & logged

Cardiac:
- Extensive ECG library
- Heart sounds - four anterior locations
- ECG rhythm monitoring (4 wire)
- 12 lead ECG display
- Defibrillation and cardioversion
- Pacing

Vascular Access:
- IV access (right arm)
- Intraosseous access (tibia)

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

Other Features:
- Foley catheterization
- 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 IP

Pharmacology:
- Manual Drug Recognition
- Extensive drug formulary