



CAE iStan

Responsive, modeled
physiology and
flexibility for
advanced training.

Integrate mobile, high-fidelity patient simulation with ease

CAE iStan is certified for inflight use aboard major military aircraft, and boasts high-quality features, including flail chest, cyanosis, central IV lines, and detectable range of cervical motion.

iStan supports controlled asynchronous mechanical ventilation for advanced training scenarios. Combining advanced physiological modeling with innovative wireless technology, you can count on iStan to deliver the ultimate in mobility, reliability and functionality.

Find out how CAE iStan can redefine your expectations at caehealthcare.com.

Technical Specifications

Standard Equipment

iStan wireless and tetherless manikin:
available in medium and dark skin tones
Instructor's workstation
Müse operating software
TouchPro wireless emulated patient
monitor
6 Patient profiles
14 Simulated Clinical Experiences (SCEs)
4 SCE development licenses
Manikin tool kit
Electronic user guide
CAE Assurance plan with Free Training
for Life



Optional Equipment

Ruggedized, metal bones manikin
Tablet PC
Additional battery pack
FX Simulated Wound Kit
Hands-free cable kit

Optional Software

Learning Modules (More than 15
modules available)
Pharmacology Editor

Manikin

6-foot, 124 lbs

Electrical

AC Input: AC 90-240VAC, 50/60Hz
Internal batteries: 16.8V 100-watt-hour
lithium-ion, rechargeable
Run time: 7 to 8 hours

Key Features

Airway

- Upper airway designed from CT scan data of a real human patient
- Head tilt/chin lift
- Sensed jaw thrust
- Tongue swelling with variation of swollen, semi-swollen
- Intubation: orotracheal, nasotracheal, ET tubes, retrograde, fiber optic, right mainstem
- Gastric distention with esophageal intubation
- Combitube, LMA, and other airway adjunct placement
- Bag-valve-mask ventilation
- Surgical cricothyrotomy
- Needle cricothyrotomy

Breathing

- Bilateral and unilateral chest rise and fall
- Measures the presence or absence of carbon dioxide exhalation
- Spontaneous breathing
- Integrated SpO₂ finger probe with TouchPro patient monitor
- Bilateral chest tube insertion with fluid output
- Bilateral needle decompression

Mechanical Ventilation

- Supports controlled asynchronous mechanical ventilation
- Variable bronchial resistance
- Variable lung compliance

Cardiac

- Defibrillation and cardioversion using live defibrillators
- Pacing (use of hands-free pads)
- 12-lead dynamic ECG display

CPR

- Simulated circulation, cardiac output, central and peripheral blood pressures, and carbon dioxide return

Circulation

- Bilateral blood pressure measurement by auscultation and palpation
- Bilateral carotid, brachial, radial, femoral, popliteal, posterior tibial, dorsalis pedis pulses
- Peripheral cyanosis and capillary refill
- Cyanosis and capillary refill

Neurological

- Reactive pupils and blinking eyes
- Convulsions



Urinary

- Urinary catheterization
- Interchangeable genitalia

Vascular Access

- Bilateral peripheral IV ports
- Right jugular and left femoral central IV access
- Sternal and tibial IO site
- Bilateral thigh auto injection sites
- IV placement arm available

Pharmacology System

- Automatically calculates 57 intravenous and 5 inhaled medications
- Responses are automatic, dose dependent and follow appropriate time course

Trauma

- Flail chest
- Bleeding and fluid drainage linked to physiology
- Diaphoresis and secretions from eyes, ears, nose, mouth
- Two simultaneous bleeding/moulage sites with 1.8 L blood tank capacity

Sounds

- Pre-recorded sounds and voices
- Customized sounds and voices via the provided wireless microphone
- Enhanced wireless microphone for noisy environments

Articulation

- Range of motion in the wrists, elbows, knees and ankles
- Detectable cervical motion for practice of patient stabilization