



## 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](http://caehealthcare.com).

Your worldwide training partner of choice



# 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 SpO<sub>2</sub> 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