



CAE Caesar

Trauma patient  
simulator for  
point-of-injury care

### Durable and rugged for challenging training environments

Exceptionally rugged, incredibly tough, Caesar lets you simulate extreme scenarios for trauma patient care. Military and first responders can perform water-based decontamination operations and perfect high-angle rescue operations. Furthermore, Caesar prepares medics for the most extreme situations with a 1.4L on-board blood tank capacity and six bleeding ports.

Caesar is engineered for maximum strength to withstand performance in environments where most other simulators fail. Harsh climates, challenging terrain, and ground evacuations, Caesar endures every obstacle with the most consistency in performance and technology.

Find out how CAE Caesar can redefine your expectations at [caehealthcare.com](http://caehealthcare.com)



Medical Simulator  
INNOVACIÓN EN EDUCACIÓN



# Technical Specifications

## Standard Equipment

Caesar wireless manikin base unit is available with one healthy left leg and one amputated right leg or with two healthy legs

Instructor's tablet PC  
Müse operating software  
3 patients  
10 Simulated Clinical Experiences (SCEs)  
4 SCE development licenses  
Electronic user guide  
CAE Assurance value plan with customer and technical support, Training for Life™ and option to renew



## Optional Equipment

Tablet PC battery and charger  
Additional manikin battery and charger  
Healthy right leg  
Left leg with blast injury  
Left leg with below the knee amputation  
Left leg below the knee shrapnel wounds  
Right leg below the knee shrapnel wounds  
Left arm multiple shrapnel wound  
Right arm multiple shrapnel wound  
Right hand glove gunshot wound  
Abdominal multiple gunshot wound  
Wrist injury forearm  
Facial wound

## Manikin

6-foot-4, 150 pounds

## Electrical

Input: 100-240V, 50/60Hz, 2.3A  
Internal batteries: 14.4V, Lithium ion battery  
Run time: 6 hours

## Ambient Temperature Range

Operation: 36°F to 109°F

## Humidity

0% to 90% noncondensing

# Key Features

## Trauma

- Bleeding and fluid drainage linked to physiology
- Six bleeding ports: upper body, abdomen, arms and legs
- 1.4L on-board blood tank capacity
- High pressure dramatic bleeding
- Tourniquet sensors are located bilaterally in the upper thighs and upper arms to support hemorrhage control
- Option to choose military or civilian set of SCEs
- All limbs can be removed to simulate multiple scenarios
- Eyes and speech reflect simulator's state of consciousness, medical conditions
- Mannequin has full range of motion in the neck, back, shoulders, elbows, forearms and wrists. Caesar can be posed sitting upright or lying in the recovery position
- Caesar's eyes and speech reflect his states of consciousness and pain level. Speech patterns change if a medic is nearby and as treatment is administered
- Voice can be heard 400 feet away

## Ruggedization

- Supports water-based decontamination operations (up to 6 inches). Caesar has an IP-539 rating, which is issued to electronic enclosures that are not impacted by water sprayed at a maximum 60 degree angle.
- Supports tactical patient movements with full range of motion in the neck, back, shoulders, elbows, forearms and wrists
- Impact resistant and validated with shock testing, vibration testing, drop testing, drag testing
- Supports high-angle rescue operations and extrication
- Resistant to harsh temperatures, humidity, exposure to dirt, dust, and sand

## Airway

- Upper airway designed from CT scan data of a real human patient
- Articulated mandible
- Intubation: orotracheal, nasotracheal, ET tubes, retrograde, fiber optic, right mainstem
- Combitube, LMA, and other airway adjunct placement
- Bag-valve-mask ventilation
- Needle cricothyrotomy



## Neurological

- LED blinking eyes with directional eye movement
- Automatic changes based on inadequate respiratory and cardiovascular conditions

## Breathing

- Bilateral and unilateral chest rise and fall
- Spontaneous breathing
- Bilateral needle decompression sites tied to physiology and verbal responses

## Cardiac

- 12-lead dynamic ECG display

## Circulation

- Bilateral carotid, radial, and femoral touch sensed pulses
- Dorsalis pedis touch sensed pulse on healthy leg

## Vascular Access

- Bilateral IV cannulation with flashback in forearms
- Sternal Fast IO with confirmation capability and fluid bolus ready

## Pharmacology System

- Pharmacology system models automatically calculate the pharmacokinetics and pharmacodynamics for 13 intravenous and inhaled medications
- All patient responses to drugs are automatic, dose dependent and follow appropriate time course

## Sounds

- Pre-recorded sounds and voices

## Articulation

- Range of motion in the wrists, elbows, knees and ankles