



CAE Apollo

Reliability meets realism for nursing or prehospital care

A proven patient simulator for effective training

CAE Apollo is an affordable human patient simulator with all of the benefits of CAE's modeled physiology, which responds automatically to treatments and interventions. With configurations for nursing or prehospital programs, Apollo offers versatility and fidelity for individual or team training.

Built on a platform that has been field tested by more than 1,600 customers around the world, the Apollo patient simulator allows learners to gain experience in a wide range of emergency or patient care scenarios. The CPR analysis feature is compliant with AHA guidelines, and measures depth and accuracy of chest compressions as well as cardiac output, ventilation rate and more. With a realistic airway and true mobility within scenarios, Apollo sets the benchmark for quality and value in patient simulators.

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

Your worldwide training partner of choice



Technical Specifications

Standard Equipment

- Apollo wireless and tetherless manikin: available in medium and dark skin tones
- Instructor's workstation with 3 device options
- 2 Patient configurations to choose from: Apollo Prehospital and Apollo Nursing
- CAE Maestro physiologically driven operating software:
 - » 4 Simulated Clinical Experiences (SCEs)
 - a. Anaphylaxis
 - b. Heart failure with pulmonary edema
 - c. Severe young asthmatic
 - d. Subdural hematoma
- One Maestro standalone license
- Ultrasound Scan Records: normal and pathologic cases including cardiac, abdominal, FAST and pleural surface scans
- Simulated patient monitor software
- Electronic user guide
- CAE Assurance Value Plan with customer and technical support, Training for Life™ and option to renew

Optional Equipment

- Simulated patient monitor computer
- Additional battery pack
- FX simulated wound kit
- FX simulated limb injuries
- Hands-free cable kit
- Wall air kit
- Manikin tool kit

Optional Software

- Learning Modules (More than 15 modules available)

Manikin

74" H x 26" W x 11" D (188cm x 66cm x 28cm)
100lbs (45.4kg)

Electrical

AC Input: AC 90-240VAC, 50/60Hz

Internal batteries: 18.5V, 233 Wh lithium-ion, rechargeable

Key Features

Airway

- Bag-valve-mask ventilation
- Head tilt/chin lift
- Jaw thrust
- Tongue swelling
- Bronchial occluder

Breathing

- Bilateral and unilateral chest rise and fall
- Spontaneous breathing
- Integrated SpO2 finger probe with simulated patient monitor
- Breath sounds over entire lungs
- Bilateral chest tube insertion, sensed, with fluid output
- Pulmonary artery catheter and ability to wedge the catheter, with display on the waveform display monitor or a physiologic monitor

Circulation

- Defibrillation and cardioversion using live defibrillators
- Pacing (use of hands-free pads)
- 12-lead dynamic ECG display
- ECG monitoring posts and interface with real ECG monitor
- Bilateral blood pressure measurement by auscultation and palpation
- Bilateral carotid, brachial, radial, femoral, popliteal, posterior tibia, dorsalis pedis pulses

CPR

- New: CPR analysis that is compliant with
- AHA 2015 guidelines
- Adequate chest compressions result in simulated circulation, cardiac output, central and peripheral blood pressures, carbon dioxide return
- Correct hand placement

IV Placement / IO or IM Injections

- Bilateral IV placement sites in antecubital fossa and dorsum of hand
- IM injection site, right deltoid
- Humeral IO site, left deltoid

Neurological

- Blinking and reactive eyes with multiple settings
- Convulsions

Gastrointestinal

- Nasogastric tube placement
- Bowel sounds, all 4 quadrants

Urinary

- Urinary catheterization
- Interchangeable genitalia

Trauma

- Bleeding and fluid drainage linked to physiology
- Two simultaneous bleeding/moulage sites with 1.5 L blood tank capacity
- Limbs can be removed at the knees and elbows to support amputations
- Pharmacology System



- Automatically calculates 68 intravenous and inhaled medications
- Responses are automatic, dose dependent and follow appropriate time course

Sounds

- Pre-recorded sounds and speech, custom vocalization recorded by the user, microphone
- Heart, bowel, and breath sounds (anterior and posterior) independently controlled (type and volume)
- Audible breathing sounds (wheezing and gasping)

Articulation

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

Prehospital Configuration Additional Features

Airway

- Upper airway designed from CT scan data of a real human patient
- Surgical cricothyrotomy
- Needle cricothyrotomy
- Intubation: orotracheal, nasotracheal, ET tubes, LMA, retrograde, fiber optic, right mainstem
- Break-away teeth
- Gastric distention with esophageal intubation
- Laryngospasm
- Airway occluder
- Posterior oropharynx occlusion

Breathing

- Measures the presence or absence of carbon dioxide exhalation
- Bilateral needle decompression

Secretions

- Eye, nose and mouth
- Nursing Configuration Additional Features

Airway

- Airway reservoir supports suctioning of fluids via tracheostomy tube

IV Placement / IO or IM Injections

- Subclavian venous catheter

Gastrointestinal

- Gastric reservoir supports simulated gastric lavage, lavage and gastric suction