

# Technical Specifications

## Standard Equipment

CAE Ares wireless and tetherless manikin:  
Medium and dark skin tone available  
Male and female gender configuration  
One wireless StethoSym  
Samsung Galaxy S3 tablet  
New software platform CAE Maestro  
One CAE Maestro standalone license  
One license for Ares Learning Experience mobile app with educational content focused on the six Simulated Clinical Experiences including:  
- Pre- and post-test questions  
- Study cards on pathophysiology, assessment, management and clinical pearls

Includes 6 CAE Simulated Clinical Experiences (SCEs)  
- Cardiopulmonary Arrest  
- Closed Head Injury and Pneumothorax  
- Heroin Overdose  
- Inferior-Posterior Myocardial Infarction  
- Sepsis with Hypotension  
- Stroke

Electronic user guide  
Single year CAE Value Assurance warranty

## Optional Equipment

Patient monitor computer  
SymEyes  
SymDefib external defibrillation box  
Complete wound kit  
Post mastectomy kit  
Breast exam kit  
Articulated arms  
Ultrasound training model insert for peripheral IV cannulation and infusion  
Additional StethoSym units  
STOPS hyper-realistic Blood Pumping System

## Optional Software

Five additional CAE EMS Learning Modules (10 SCEs per module)  
ACLS Learning Module (11 SCEs)  
Ares Learning Experience mobile app – Individual licenses

## Manikin

64" H x 20.5" W x 10" D  
(162.56 cm x 52.07 cm x 25.4 cm)  
Approximate Weight = 50 lbs. (22.7 kg), varies depending on options

## Electrical

AC Input: AC 115-230VAC, 50/60Hz  
Internal Batteries: 15V 3.20 Ah Lithium ion, rechargeable  
Runtime: Approximately 4 hours

# Key Features

## Neuro

- Tristate pupils
- SymEyes (optional)

## Articulation

- Realistic articulation
- Range of motion in hips, knees, ankles, shoulders
- Cervical motion for practice of patient stabilization

## Airway

- Bag-valve-mask (BVM) ventilation
- Orotracheal and nasotracheal intubation
- Placement of various airway adjuncts
- Endotracheal tube intubation
- Retrograde and Fiberoptic intubation
- Transtracheal jet ventilation
- Needle and surgical cricothyrotomy
- Tracheostomy
- Right main stem intubation with detection
- Stomach distention with esophageal intubation
- Laryngospasm (manual)

## Breathing

- Spontaneous breathing
- Bilateral and unilateral chest rise and fall
- Lung auscultation sites on anterior chest
- Upper airway sounds: stridor and gurgling
- Bilateral needle decompression

## Cardiac

- 4-lead ECG monitoring with real equipment
- 12-lead dynamic ECG display
- Defibrillation, cardioversion and pacing using live equipment via external defib box (optional)

## Circulation

- Unilateral blood pressure measurement by auscultation and palpation
- Bilateral carotid and femoral pulses
- Unilateral radial and brachial pulses
- Variable pulse strength

## CPR

- Compliant with 2015 AHA guidelines and ERC guidelines
- CPR compressions generate palpable pulse, blood pressure, waveform and ECG artifacts
- Realistic chest compression depth and resistance
- Software metrics detects hand placement, rate and depth of compressions, recoil, ventilations and ventilation: compression ratio



## IM Medication Administration

- Four intramuscular sites

## Urinary

- Urinary catheterization without fluids
- Interchangeable genitalia

## Vascular Access

- Unilateral IV cannulation at antecubital and dorsum of hand
- Blood draw with vacuum sealed blood collection system
- Unilateral (humoral) IO access
- Ultrasound training module insert for IV cannulation (optional)

## Sounds

- Auscultation of normal and abnormal heart, lung and bowel sounds with the new StethoSym technology utilizing radio-frequency identification (RFID) tags
- Prerecorded speech and vocal sounds
- Bidirectional audio communication between manikin and operator