iStan®
Smart. Evolved. Unplugged.

- Reactive eyes
  - Variable pupil size
- Realistic airway
  - Breakaway teeth
  - Voice
  - Trismus
- Trachea with realistic anatomical landmarks
  - Bilateral carotid pulse
- Intercostal palpable ribs
- Chest compressions
- ECG
- Defibrillation
- Pacing
- Interconnected
- Independent chest excursion
- Breath sounds
- Heart sounds
- Bilateral radial pulse
- Bowel sounds
- Diaphoresis
- Cervical movement detection
- Bilateral brachial pulse
- Bilateral chest movement
- Flail chest
- Pneumothorax decompression
- Urinary output
- Chest tube with fluid output
- Instructor’s workstation
- Fully wireless and tetherless with blood, fluids, and power on-board
- Five bleeding sites
- Updated Airway!
  - Interacts with more airway management devices for effective training and better patient outcomes.

Watch iStan videos and download the iStan brochure at caehealthcare.com
When you need high-performance and ultra-realism in a patient simulator, look no further than iStan. With an all-in-one system, fully articulated movement and tetherless control, iStan is the most powerful wireless patient simulator available. iStan comes standard with Muse, the touch-screen-capable user interface that makes everything about running your simulator easier, faster and friendlier.

iStan features

**Realistic skin** — an advanced realistic skin that is ruggedized for use in every kind of learning environment, whether it’s in the classroom or a disaster drill in the field.

**Reactive eyes** — fully reactive eyes providing both consensual and independent, automatic pupillary response to light and trauma.

**Rugged airway** — built to withstand all the rigors associated with practicing proper airway management.

**Quiet operation** — low-noise system lets you hear patient sounds — not mechanics — for added realism in your simulation environment while the patient is breathing.

**High-quality patient sounds** — loud and clear audio quality for voice, lung and heart sounds.
Müse Makes Simulation Easy

Operating a patient simulator is quick, easy and intuitive with Müse. With three levels of control over CAE Healthcare’s modeled physiology, Müse allows instructors to run scenarios, modify patient parameters or operate the simulator on-the-fly. Enjoy the freedom and versatility to use Müse away from the simulation lab with four additional licenses for any Mac or PC.

- Simulated Clinical Experiences (SCEs) bundle ready-to-go patient, scenarios, educational content and setup preferences to automatically load together when you run an SCE.
- SCE timeline provides the ability to place bookmarks throughout an SCE and to return to the patient's bookmarked physiology at any point.
- Patient status display can be customized to show vital signs, cardiac output, respiratory status and more, including SpO₂, ECG and capnogram.
- Recent Event Logs on the Run Screen keep you updated, while complete event and physiological data is logged in the SCE history.
- Scenarios automatically load as part of the SCE. Scenario states and progression can be controlled directly from the Run Screen.
- Parameter controls allow you to operate on-the-fly by adjusting model parameters and using overrides.
- Patient reset button allows you to quickly save and return to the patient's original baseline physiology without having to restart the SCE.
Müse comes with the TouchPro patient monitoring software that looks and acts like a real-world patient monitor, including touch-screen capability and capnography.

- Operates wirelessly or via wired Ethernet
- Can be run on a touch-screen computer or tablet
- Waveforms and numeric vitals can be changed with drag-and-drop simplicity
- Can display up to six waveform traces and four numeric vitals
- Web browser-based for PC or Mac

**Waveform Selection**
- 12-Lead ECG
- Arterial Blood Pressure
- Central Venous Pressure
- Pulse Oximetry Graph
- Capnogram

**Numeric Selection**
- Heart Rate
- Pulse
- Arterial Blood Pressure
- MAP
- NIBP
- Pulmonary Artery Pressure
- PCWP
- Central Venous Pressure
- Continuous Cardiac Output
- Thermodilution Cardiac Output
- Respiratory Rate

**NEW!**

Content in ten languages: Traditional Chinese, Simplified Chinese, English, French, Japanese, Korean, Polish, Spanish, German and Russian.

**NEW!**

12-lead ECG waveform capability

Quick Links allow an instructor to change a patient’s physiology in an instant. Run the same scenario with a stable or unstable patient to challenge learners’ critical thinking skills.

Layer conditions, administer medications and record interventions directly from the customizable Quick Link menus.

Extensive drug library is integrated with physiology.

Navigate controls by clicking the patient diagram.

Password protected multi-user system allows institutions to set privileges of users and operators.

Medication Monitor shows current concentration of any administered medication in the patient. Administered drugs can be “reset,” immediately removing all effects of the medication from the patient for learning purposes.
iStan Clinical Features

SOUNDS
Breath Sounds
8 anterior locations: 4 independently controlled breath sounds (7 options available)
6 posterior locations: 4 independently controlled breath sounds (7 options available)

Heart Sounds
4 independently controlled heart sound locations

Bowel Sounds
4 independently controlled bowel sound locations

Phonation Sounds
Throat Sounds - cough, stridor
Speech - yes, no, ouch and more
Wireless Voice Capability (live speech)

PULSES
Pneumatic pulses in 14 locations
Bilateral Carotid
Bilateral Brachial
Bilateral Radial
Bilateral Femoral
Bilateral Popliteal
Bilateral Dorsalis Pedis
Bilateral Tibialis Pedis
Pulses are touch activated and logged for instructor/learner debriefing

PULSES (continued)
Pneumatic pulses in 14 locations
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Bilateral Brachial
Bilateral Radial
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TRAUMA
Cricothyrotomy
Articulated Mandible
Obstructed Ear Irrigation
Oral and Nasopharyngeal Suctioning
Neck Articulation with cervical motion monitoring and the ability to reduce range of motion
Reactive Pupils
Teeth with Break Away Incisors
Laryngospasm
Difficult (Airway) Occluder
Tongue Edema
Trismus
Jaw Thrust (Sensed)
Tension Pneumothorax/Hemothorax
Needle Decompression (Bilateral)
Flail Chest
Chest Tubes (Bilateral)
Convulsions
Sternal and Tibial IO Access
Bilateral Peripheral IV Access
Central (Femoral and Jugular) IV Lines
Bilateral Thigh Auto-Injection Sites for Medication Administration

GENITOURINARY
Interchangeable male or female genitalia for urinary catheterization procedures and urinary output

BLEEDING AND SECRETIONS
Hemorrhage System
Simulation of bleeding at Moulage Sites (2 simultaneously)
Plumbed for all four limbs and abdomen
Linked to physiology
Secretions
Mouth, nose, ears, eyes, forehead diaphoresis
Also serves the chest tubes and urinary output

POWER AND ELECTRONICS
AC/DC Power (110/240 V AC, 12-24 V DC) Batteries
Internal Rechargeable Batteries
Battery run-time: 8 hours
Fast charge: Approximately 5 hours
**MONITORING**

- SpO₂: Finger Probe integrated with Simulated Patient Monitor Display and METI Physiological Models
- ECG: 5-lead ECG monitoring available on both patient monitors and TouchPro Monitor Display
- NIBP: Blood pressure assessment by palpitation and auscultation (Korotkoff sounds) and is displayed on TouchPro Monitor Display

**PATIENTS**

- Stan D. Ardman II
- GI Stan
- Stanley A. Wreck
- Norma L. Female
- Stannette Mombtobe
- Grandma Smokey

**SIMULATED CLINICAL EXPERIENCES**

- Anaphylaxis
- Angina with Cardiac Arrest
- Anterior Myocardial Infarction
- Asthmatic with Pneumothorax
- COPD Exacerbation with Respiratory Failure
- Heart Failure with Pulmonary Edema
- Inferior Myocardial Infarction
- Organophosphate Exposure
- Pneumonia with Septic Shock
- Severe Young Asthmatic
- Splenic Rupture with Pneumothorax
- Stab Wound to the Chest
- Subdural Hematoma
- Tension Pneumothorax

**STANDARD EQUIPMENT**

- iStan Mannequin
- Instructor’s Laptop Workstation
- Muse Software
- 4 CO₂ Canisters
- 6 Patient Profiles
- 14 Simulated Clinical Experiences (SCEs)
- 4 SCE Development Licenses
- Mannequin Tool Kit
- TouchPro Patient Monitor Computer

**OPTIONAL EQUIPMENT**

- Additional Instructor’s Workstation Tablet
- Additional Battery Pack
- Mannequin Carrying Case
- Additional CO₂ Canisters
- Computer Bag
- Trauma Disaster Casualty Kit (TDCK)
- METI FX
- ICP
- Pharmacology Editor
- Hands-Free Cable Kit
CAE Healthcare offers simulation-based patient, imaging, surgical and learning solutions to improve patient safety and outcomes. Our leading-edge products and learning applications provide risk-free practice and professional development to physicians, nurses, EMS responders, military medics, students and allied health professionals around the world.

caehealthcare.com

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