

Fluid Assessment  
E-FAST Exam

1:24<sup>mm</sup>  
Elapsed Time

None  
Time Limit

Active  
Guidance Elements

91%  
Total Scan Coverage

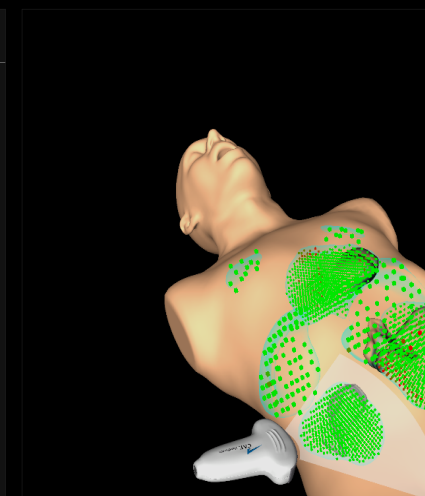
461<sup>cm</sup>  
Total Distance Travelled

2975<sup>°</sup>  
Total Angular Movement

DETAILS

Region	Scan Coverage	Fluid Assessment
✓ Left Upper Quadrant	88%	Fluid Is Present
✓ Pelvic	75%	Fluid Is Present
✓ Pericardial	94%	Fluid Is Present
✗ Pleural Left	94%	No Fluid
✓ Pleural Right	94%	No Fluid
✓ Right Upper Quadrant	100%	Fluid Is Present

GUIDANCE ELEMENTS



## CAE Vimedix 3.3 for Cardiac/Abdomen

The most  
comprehensive  
and easy-to-use  
ultrasound simulator

**Get the new software update today!**

### Enhance the ultrasound learning process in cardiac and abdominal scanning

Vimedix is now a complete two-in-one system, powered by new features that reinvent ultrasound education. The all-new virtual probe feature enables interactive web-based ultrasound workshops where remote participants can acquire ultrasound scans using their desktop mouse. On-site education is enhanced with self-moderated activities created by instructors

#### Differentiating Features

- 3D/4D ultrasound with MPR for Transthoracic Echocardiography (TTE), Transesophageal Echocardiography (TEE), and Transgastric Abdominal Ultrasonography (TGAUS) for advanced assessment and diagnosis
- Ability to customize content and curriculum with custom filters and comprehensive activities
- VimedixAR application for Microsoft HoloLens 2 allows enhanced teaching and learning via Augmented Reality exercises created by instructors
- Simulator content and kinematic metrics validated through numerous peer-reviewed scientific journals
- Optional add-on modules (cardiac, lung, abdominal) that support multiple ultrasound applications on a single common platform, with a single manikin
- Self-directed instructional content that makes ultrasound learning easily scalable
- Empowers instructors to create scanning exercises and collect learner metrics
- Continuous development of new capabilities and content, including a COVID-19 case study
- "Virtual Mouse" mode to host interactive web-based workshops
- Remote capabilities to teach via livestream and/or learn predetermined curricula
- Localization available to support various markets

Learn more about CAE Vimedix 3.3 at [caehealthcare.com/vimedix](https://caehealthcare.com/vimedix).

Your worldwide  
training partner  
of choice



## Technical Specifications

### Standard Equipment

- Male multi-purpose manikin
- Phased array, transesophageal and/or curvilinear transducer(s)
- HP® Omen laptop with wireless mouse
- Cables (power, DVI, ethernet)
- User guide
- Option to add OB-GYN capabilities to the simulator (including a female manikin, curvilinear and/or transvaginal transducer)

### Optional Software

- Additional cardiac and abdominal pathology packages available

### Specifications, Dimensions

- Bob 1.3 male multi-purpose manikin
- 39.5 X 17 in (100 X 43 cm)
- 31.5 lbs (14.3 kg)

### Optional Catherine female multi-purpose manikin

- 38 X 18.5 in (96.5 X 47 cm)
- 30 lbs (13.6 kg)

### Computer

- 15.94 X 11.01 X 1.06 in (W X D X H) (40.49 X 27.97 X 2.69 cm)
- 7.04 lbs (3.2 kg)
- CPU: Intel® Core™ i9-9880H
- Hard drive: 1 TB SSD
- Memory: 16 GB
- Graphics card: NVIDIA® GeForce® RTX 2080 (8 GB)
- OS: Microsoft® Windows® 10
- Screen: 17.3 in

### External Polhemus Box

- 7 X 6 X 2 in (17.78 X 15.24 X 5.08 cm)
- 1.65 lbs (0.62 kg)

### Electrical

- Operates at 110/240V 50/60Hz

### Ambient Temperature Range

- 41°F – 95°F (5°C – 35°C)

### Humidity

- 40 – 80%

## CAE Vimedix 3.3 for Cardiac/Abdomen



### Key Features

- Dual system featuring two learning options, a manikin and virtual probe, that replicates real-time visual, physical and ergonomic attributes of ultrasound scanning
  - Palpable thoracic and pelvic bony landmarks, combined with motion tracking system, allow 6 degrees of freedom to align physical manikin with virtual anatomy in Vimedix software
- Supports TTE, TEE and TGAUS ultrasound scanning on a single platform, with guidelines and training exercises
- Simulation of cardiac, lung and abdominal ultrasound images and functions
  - 2D/3D/4D, Biplane, M-mode views
  - MPR
  - Adjustable image settings (depth, viewing angle, gain, contrast)
  - Color flow Doppler and spectral Doppler (pulsed-wave and continuous-wave) of the heart
  - Color flow Doppler of the inferior vena cava for specific pathologies
  - Ability to complete measurements, including length/diameter, circumference and area
  - Echo report function, with automated calculations and drop-down menus consistent with typical echo scanning protocols and workflow
  - Zoom function for ultrasound images
  - Ability to freeze image and scroll through frames
  - Ability to add noise on ultrasound view to alter image quality and level of viewing difficulty
  - More than 200 available pathologies, with Stealth Mode option (hides pathology names)
- Enable/disable animated 2D AR display of labeled anatomical structures, that can be moved/rotated to learn structure identification and spatial orientation; and bone, lung and abdominal artifacts on ultrasound display
- Detailed cardiac and abdominal anatomy
- Switch between split screen and single screen views of 2D AR display and ultrasound display
- Self-directed instructional content modules that allow learners to practice in the absence of a live instructor:
  - Basic probe movements
  - Optimization of image settings
  - Obtaining views using Target Cut Planes (TCPs)
  - Echocardiographic measurements
- Interactive remote education tools using any web-conference application
- TCP exercises that provide reference guides and images to aid learners in identifying the correct probe positioning/orientation to obtain specific ultrasound views
- POCUS eLearning content and self-moderated scanning exercises to become proficient in POCUS
- Quantifiable kinematic metrics that can be recorded during TCP exercises to assess and monitor user performance
- Ability to capture and export images, videos, reports and metrics
- Ability to connect the simulator to a second display, with the option to either extend or mirror the Vimedix interface
- Access to CAE Healthcare's ICCU e-Learning curricula

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