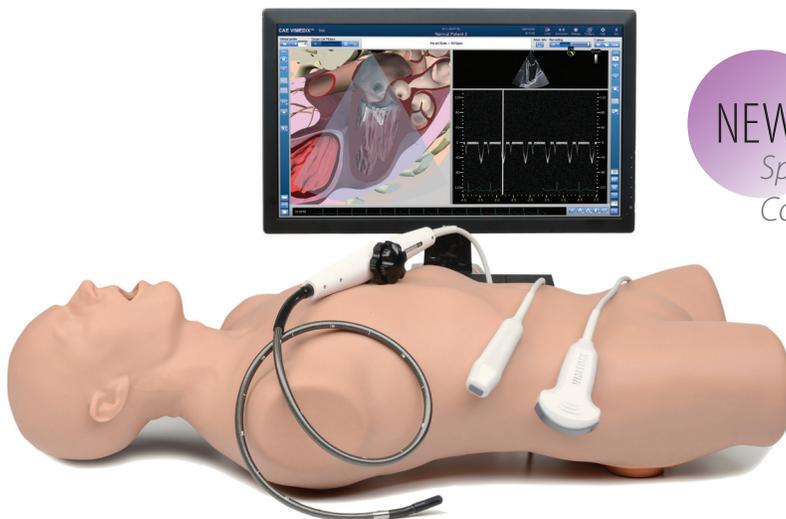


# Vimedix™ Cardiac, Vimedix™ Abdo

Learn cardiac and abdominal ultrasound faster and easier with the most comprehensive and easy-to-use simulator



Vimedix is an innovative ultrasound training platform that makes it easier and faster to learn cardiac, lung and abdominal ultrasound. Our manikin-based simulator allows healthcare professionals to learn the psychomotor and cognitive skills needed for ultrasound scans. With over 150 pathologies and self-directed instructional content, Vimedix allows trainees to gain exposure to cases they may not normally get to see and also practice their skills without any risk to real patients.



NEW!

*Spectral Doppler (Pulsed Wave and Continuous Wave)*

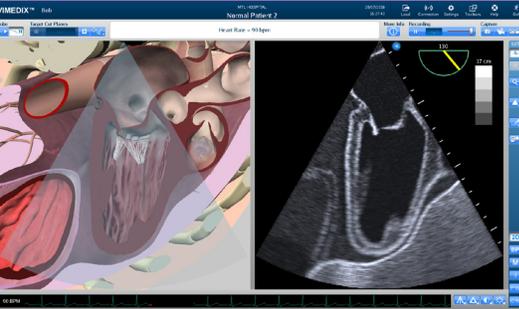
# Technical Specifications

## Standard Equipment

Male multi-purpose manikin  
Phased Array, Transesophageal and/or Curvilinear transducer(s)  
Computer with wireless mouse and keyboard  
22" HD Screen  
Cables (Power, DVI, Ethernet)  
Electronic user guide  
Option to add Ob/Gyn capabilities to the simulator (including a female manikin, curvilinear and transvaginal transducer)

## Optional Software

Additional cardiac and abdominal pathology packages available



## Specifications, Dimensions

Bob 1.3 Male Multi-Purpose Manikin  
31" x 17" (78 cm x 43 cm)  
31.5 lbs (14.3 kg)

Optional Catherine Female Manikin  
38" x 18.5" (96.5 cm x 47 cm)  
30 lbs (13.6 kg)

## Computer

18.3" x 6.75" x 17"  
(46.5 cm x 17.1 cm x 43.2 cm)  
22 lbs (10 kg)  
CPU: INTEL, i7 4770 3.4GHz, 4 CORE,  
8 THREAD  
Hard drive: 1 TB  
Memory: 4 GB RAM  
Graphics Card: EVGA GTX 970  
Screen: 24"

## Electrical

Operates at 110/240V 50/60Hz

## Ambient Temperature Range

41°F - 95°F (5°C - 35°C)

## Humidity

40-80%

NEW!

*Emergency Ultrasound  
Pathology Package for  
point-of-care assessment*



## Key Features

### Simulator Capabilities

- Manikin-based system that replicates real-time visual, physical and ergonomic attributes of ultrasound scanning
- Palpable thoracic and pelvic bony landmarks that with motion tracking system that allows 6 degrees of freedom (DOF) to align physical manikin with virtual anatomy in Vimedix software
- Supports Transthoracic Echocardiography (TTE), Transesophageal Echocardiography (TEE), and abdominal/pelvic ultrasound scanning on a single platform
- Simulation of cardiac, lung and abdominal ultrasound images and functions
- 2D, Bi-Plane and M-Mode Views
- Adjustable image settings (depth, viewing angle, gain, contrast)
- Color Doppler, Continuous Wave Doppler and Pulsed Wave Doppler of the Heart
- Color 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 protocol 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 viewing level of difficulty
- Over 150 available pathologies with the optional ability to hide pathology names (Stealth Mode)
- 3D Augmented Reality showing animated anatomy with labeled structures that can be moved and rotated in 3D to learn structure identification and spatial orientation
- Ability to enable/disable anatomical structures on 3D augmented reality display and bone, lung and abdominal artefact on the ultrasound display

- Ability to switch between split screen and single screen views of 3D augmented reality display and ultrasound display
- Included 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
- Echocardiographic measurements
- Target Cut Plane exercises that provide reference guides and images to aid learners the correct probe positioning /orientation to obtain specific ultrasound views
- Quantifiable kinematic metrics that can be recorded during Target Cut Plane 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 onto said display
- Access to CAE Healthcare's ICCU E-Learning curricula

### Differentiating Features

- Simulator content and kinematic metrics validated through numerous scientific publications published in peer-reviewed journals
- Multiple ultrasound modules on a single common platform with a single manikin (cardiac, lung, abdominal)
- Self-directed instructional content that makes ultrasound learning more easily scalable
- Continuous development of new functionalities and content