



CAE Vimedix 3.2 for OB-GYN

The most
comprehensive
and easy-to-use
ultrasound simulator

Get the new software update today!

Enhance the ultrasound learning process in obstetrics and gynecology

CAE Vimedix OB-GYN is an effective tool for learning transabdominal and transvaginal ultrasound. Our manikin-based simulator allows healthcare professionals to quickly acquire the psychomotor and cognitive skills needed to achieve proficiency in ultrasound scanning.

With more than 50 pathologies and self-directed instructional content, Vimedix OB-GYN provides trainees with exposure to, and practice in, realistic obstetrical and gynecological cases they might not normally see—all without risk to patients.

Now available as a software update, the **CAE Vimedix 3.2** platform provides 3D/4D scanning and multiplanar reconstruction (MPR) views within obstetrics and gynecology to rule out fetal abnormalities throughout pregnancy—offering far more value than a standard OB-GYN ultrasound.

Differentiating Features

- Optional add-on modules (cardiac, lung, abdominal) that support multiple ultrasound applications on a single common platform
- Self-directed instructional content that makes ultrasound learning easily scalable
- Continuous development of new functionalities and content
- 3D/4D ultrasound with MPR for endovaginal and transvaginal scanning
- Remote learning capabilities to teach livestream and/or learn predetermined curricula
- Ability to customize content and curriculum with custom filters and presets
- Localization available to support various markets
- VimedixAR application for Microsoft HoloLens 2 allows enhanced learning via Augmented Reality (AR)

Technical Specifications

Standard Equipment

- Female multi-purpose manikin
- Phased array, ultrasonic curvilinear and/or transvaginal transducer(s)
- HP® Omen laptop with wireless mouse
- Cables (power, DVI, ethernet)
- User guide
- Option to add cardiac/abdominal capabilities to the simulator

Specifications, Dimensions

- Catherine female multi-purpose manikin
- 38 X 18.5 in (96.5 cm 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 (8GB)
- 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%

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Key Features

- Manikin-based system 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 Transabdominal and Transvaginal ultrasound scanning on a single platform
- Simulation of obstetric and gynecologic images and functions
 - 2D/3D/4D, Biplane, M-mode views
 - MPR
 - Adjustable image settings (depth, viewing angle, gain, contrast)
 - Ability to complete measurements, including length/diameter, circumference and area
 - 20-week obstetric report function, with automated calculations and drop-down menus consistent with typical obstetric 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 50 available pathologies in the first and second trimesters of pregnancy, with the option to hide pathology names (Stealth Mode)
 - Gynecological pathologies available
- Interactive remote education tools using any web conference application
- 2D AR showing animated anatomy with labeled structures that can be moved and rotated to learn structure identification and spatial orientation
- Ability to enable/disable anatomical structures on 2D AR display, and bone, lung and abdominal artefacts on ultrasound display
- Ability to 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
- TCP exercises that provide reference guides and images to aid learners in identifying the correct probe positioning/orientation to obtain specific ultrasound views
- 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 for critical care ultrasound and guided procedures

For More information, please contact :

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