Accelerate 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 over 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, **CAE Vimedix 3.1** allows flexibility for remote learning while your simulation lab is distancing or closed.

**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
- Remote learning capabilities to livestream teach and/or learn predetermined curricula
- Ability to customize content and curriculum with custom filters and pre-sets
- Localization available to support various markets
- VimedixAR application for Microsoft HoloLens 2 allows enhanced learning via Augmented Reality (AR)

Learn more about CAE Vimedix at [caehealthcare.com](http://caehealthcare.com).
**Technical Specifications**

**Standard Equipment**
- Female multi-purpose manikin
- Curvilinear and/or Transvaginal transducers
- HP® Omen Laptop with wireless mouse
- Cables (Power, DVI, Ethernet)
- Electronic User Guide
- Option to add Cardiac/Abdominal capabilities to the simulator (including a male manikin, Phased Array, Curvilinear and/or Transvaginal transducers)

**Specifications, Dimensions**
- Catherine female multi-purpose manikin
  - 38 X 18.5 in (96.5 cm X 47 cm)
  - 30 lbs (13.6 kg)
- Optional Bob 1.3 male multi-purpose manikin
  - 39.5 X 17 in (100 cm X 43 cm)
  - 31.5 lbs (14.3 kg)

**Computer**
- 15.94 X 11.01 X 1.06 in (W X D X H)
- 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**

**Simulator Capabilities**
- 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 (DOF) 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, Bi-Plane and M-Mode views
  - 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
  - Over 40 available pathologies in the first and second trimesters of pregnancy, with the option to hide pathology names (Stealth Mode)
  - Gynecological pathologies available with the ability to hide pathology name (Stealth Mode)
- 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
  - Echocardiographic measurements
- Target Cut Plane 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 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
- Access to CAE Healthcare’s ICCU e-Learning curricula

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