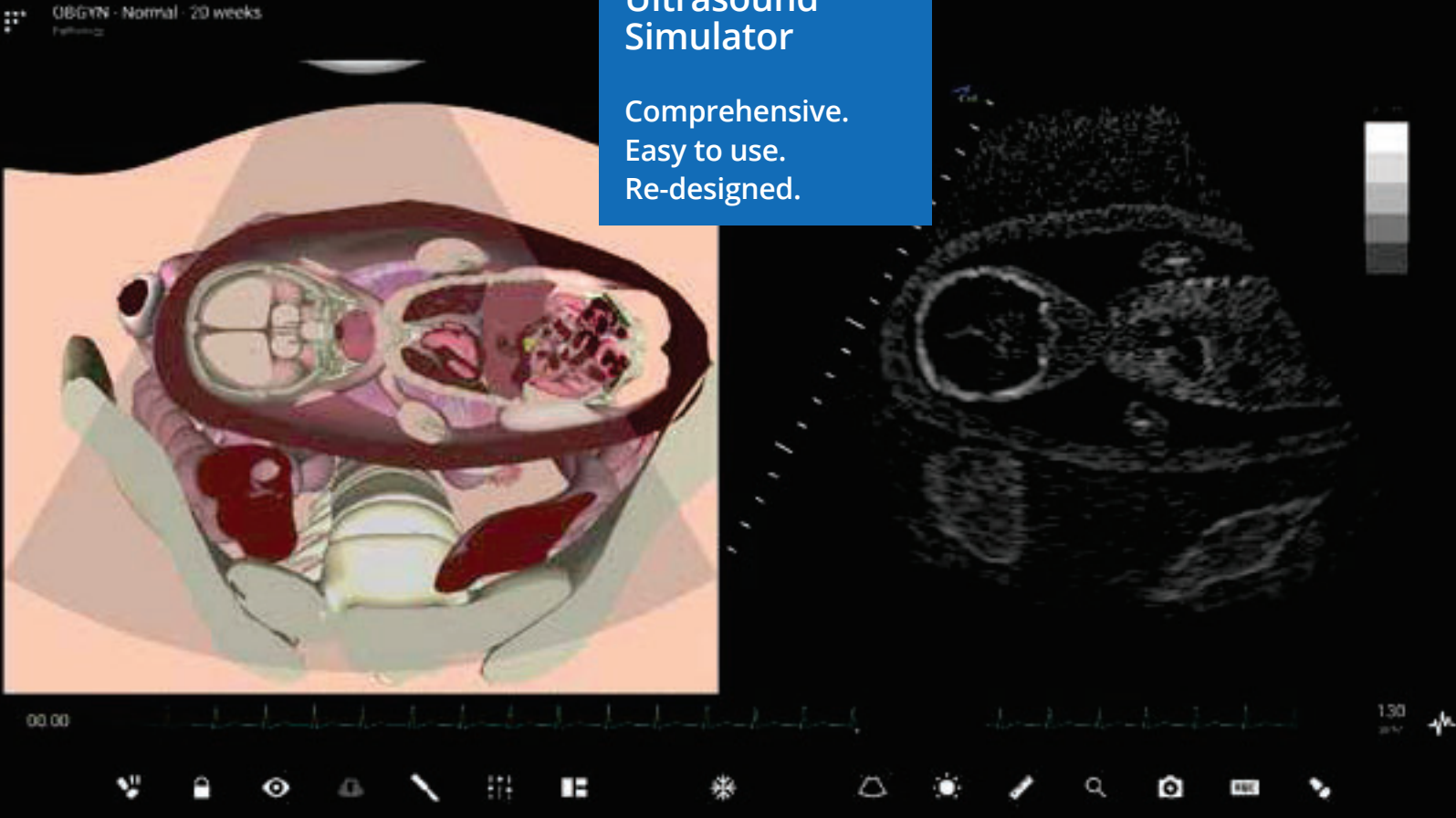


## CAE Vimedix Ultrasound Simulator

Comprehensive.  
Easy to use.  
Re-designed.



### Accelerate learning in Ob/Gyn ultrasound with the most comprehensive and easy-to-use simulator

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, CAE 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.

Learn more about CAE Vimedix Ob/Gyn at [www.caehealthcare.com](http://www.caehealthcare.com)

Your worldwide  
training partner  
of choice



# Technical Specifications

## Standard Equipment

- Female 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 and transesophageal transducers)

## Specifications, Dimensions

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

## Optional Bob 1.3 Male Multi-Purpose Manikin

- 31" x 17" (78 cm x 43 cm)
- 31.5 lbs (14.3 kg)

## Computer

- 16.73 x 12.88 x 1.43 in (W X D X H) (42.49 x 32.72 x 3.63 cm)
- 10.73 lb (4.01 kg)
- CPU: Intel® Core™ i7-7700HQ (3.8 GHz, 4 cores)
- Hard drive: 1 TB
- Memory: 32 GB
- Graphics card: NVIDIA® GeForce® GTX 1080 (8 GB GDDR5 dedicated)
- OS: Windows 10
- Screen: 17.3"

## External Polhemus Box

- 7.00 x 6.00 x 2.00 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%

# 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 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 viewing level of difficulty
  - Over 40 available pathologies in the first and second trimesters of pregnancy with the optional ability to hide pathology names (Stealth Mode)
  - Gynecological pathologies available with the ability to hide pathology name (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

## Differentiating Features

- Optional add-on modules that support multiple ultrasound applications on a single common platform (Cardiac, Lung, Abdominal, Ob/Gyn)
- Self-directed instructional content that makes ultrasound learning more easily scalable
- Continuous development of new functionalities and content
- Microsoft HoloLens compatible for more enhanced and intuitive ultrasound learning in Augmented Reality