

Vimedix™ Ob/Gyn

Learn Ob/Gyn ultrasound faster with the most comprehensive and easy-to-use simulator



Vimedix Ob/Gyn is an effective tool for learning transabdominal and transvaginal ultrasound. Our manikin-based simulator allows healthcare professionals to learn the psychomotor and cognitive skills needed for ultrasound scanning. With over 50 pathologies, and self-directed instructional content, Vimedix Ob/Gyn allows trainees to gain exposure to cases they may not normally see and also practice their skills without any risk to real patients.



Technical Specifications

Standard Equipment

Female Manikin

Curvilinear and/or Transvaginal transducers

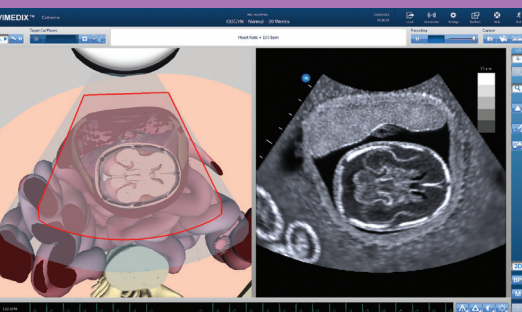
Computer with wireless mouse and keyboard

22" HD Screen

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

18.3" x 6.75" x 17"
(46.5 cm x 17.1 cm x 43.2 cm)
22 lbs (10 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)
- 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