



## CAE LapVR™ Surgical Simulator

Designed to impress

Immerse yourself in simulated laparoscopic training procedures and essential skills tasks. Advanced graphics, haptics, and real patient cases represent in-situ surgical experiences. CAE LapVR is a simulator so impressive it won the Red Dot Award for product design, an internationally recognized quality seal. With the LapVR, learners benefit from various levels of training modules that permits surgical students to experience hands-on laparoscopic surgery before ever touching a real patient.

CAE LapVR includes an Essential Skills module comprised of basic Minimally Invasive Surgery (MIS) skills including camera navigation, peg transfer, cutting, clipping and needle driving. The LapVR also comes complete with a Procedural Skills module that includes the ability to practice Adhesiolysis, running the bowel, suturing and knot tying and loop ligation. Each of these skill-based tasks comes complete with varying degrees of difficulty to challenge new learners as they work to enhance these critical skills. The full procedure modules permit General Surgery students to perform MIS procedures including laparoscopic cholecystectomy, and laparoscopic appendectomy. Gynecology and Obstetric students can benefit from bilateral occlusion, ectopic pregnancy and salpingo oophorectomy procedures. To further support your program's curriculum, the LapVR allows you to assign modules in a specific order, set performance thresholds, customize certain case parameters, capture metrics and upload supplemental multimedia content.

Your worldwide  
training partner  
of choice



# Technical Specifications

## Standard Equipment

- CAE LapVR Simulator cart with integrated haptic technology
- LapVR user interface (UI) software
- 24" flat screen monitor
- Computer
- Keyboard with integrated trackball mouse
- Dual foot-pedal for cautery and advanced energy activation
- Pistol grip handles
- Needle driver handles
- Essential Skills Module
- Lap Cholecystectomy Module
- Running the Bowel Module
- OB/GYN Module
- Suturing and Knot Tying Module
- Electronic user guide
- CAE Assurance Plan with software updates



## Optional Equipment

- Laparoscopic Appendectomy Module
- Additional pistol grip handles
- Additional needle driver handles

## Dimensions

- 18" W x 38" D x 68" H (height is adjustable)

## Electrical

- 100-120V, 50-60Hz

## Operating Temperature

- Operation: 50°F to 90°F

## Humidity

- 20% to 80% noncondensing

# Key Features

- Replicates laparoscopic procedures with accurate haptic technology
- Patient cases developed using real patient data and physiological models
- Essential Skills Module includes: camera navigation, peg transfer, cutting, clipping, needle driving, and knot tying
- Procedural Skills Module includes: adhesiolysis, running the bowel, suturing and knot tying, and loop ligation
- General Surgical Procedures Module includes: laparoscopic appendectomy and laparoscopic cholecystectomy
- OB-GYN Procedures Module includes: minimally invasive bilateral tubal occlusion, tubal ectopic pregnancy, and salpingo-oophorectomy
- Ability to use two instruments with six degrees of freedom
- Includes two pairs of handle attachments: pistol grip attachments and suturing attachments
- Instructor has ability to restrict instrument selection on either hand
- Camera includes five degrees of freedom, adjustable virtual lenses, and image capture
- Dual foot pedal for electro-surgery and advanced energy devices
- Software includes didactic content for tasks, covering training objectives, instructions, demos, case history, pre-procedures, parameters, and post-procedures
- Software includes metrics to track time, proficiency, dexterity and complications on each task and compare a learner's results with the instructor's established acceptable results
- Software compiles usage summaries for learners containing metrics on duration, and skills and cases completed
- Ability to customize certain case parameters to match the learner's skill level and interests (varies by simulated procedure)



reddot design award  
winner 2013

