



Hybrid

LAP-X Hybrid is a unique laparoscopic simulator that combines the functionality of a virtual reality trainer with a box trainer. Users can train on virtual reality mode at different curriculum modules: basic, novice, intermediate, advance, and procedural modules like appendectomy, cholecystectomy, nephrectomy, etc.

The trainee can switch to box trainer mode easily at any time. As a box trainer, the LAP-X Hybrid has the possibilities of metrics measurement and performance recording and is compatible with all kinds of different box exercises available in the market.

Benefits

- Portable, compact, and easy to set up
- Ideal for developing and improving laparoscopic skills
- Administration tool to monitor the training progress of trainees
- Real surgical instruments are used, narrowing the gap between training and actual surgery
- Combination of virtual reality and box trainer
- Unlimited user registration
- Instant feedback with measurement: duration, path lengths, mistakes
- Online remote assessment by instructors
- Database to register different users
- Trainees' performance can be recorded for later assessment
- Possibility to use animal organs for training
- 34 VR exercises divided into five curricula

General

- Power supply from the computer's USB port
- Connection: USB 2.0 and 3.0

System specification

- Two controllers of 1.6 kg each
- Controller Dimensions: 22x15x32cm (WxDxH) each
- HD camera, led light, foot pedals
- Exercise platform 35x30x5cm (WxDxH)

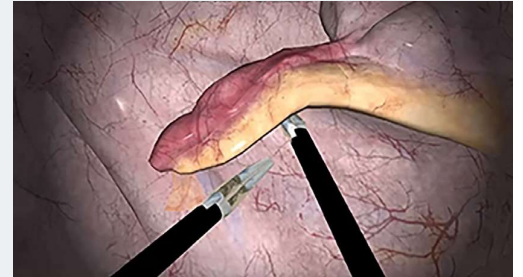
Computer Requirements

- Processor Intel i7, 3.4GHz
- Memory >8 GB
- Video Card Nvidia® GeForce® GTX 650 or better



Hand-on training

Handle real laparoscopic instruments to improve manual dexterity and laparoscopic depth perception.



Laparoscopic appendectomy

This module is designed to train laparoscopic appendix removal. Trainees can choose from multiple instruments, such as graspers, staplers, and a retrieval bag.



Handy and user-friendly

Suitable for laparoscopic surgical training for medical students, surgical residents, and surgeons at all levels of experience.



Partial Nephrectomy

Intended to train a laparoscopic nephrectomy. This exercise allows clipping and cutting the renal vein, renal artery, and ureter.



Basic Skills

This module is designed for practicing primary controlling skills with laparoscopic instruments in a non-anatomical environment.



Vessel Cauterization

Designed for trainees to practice cauterization and cutting of vessels.