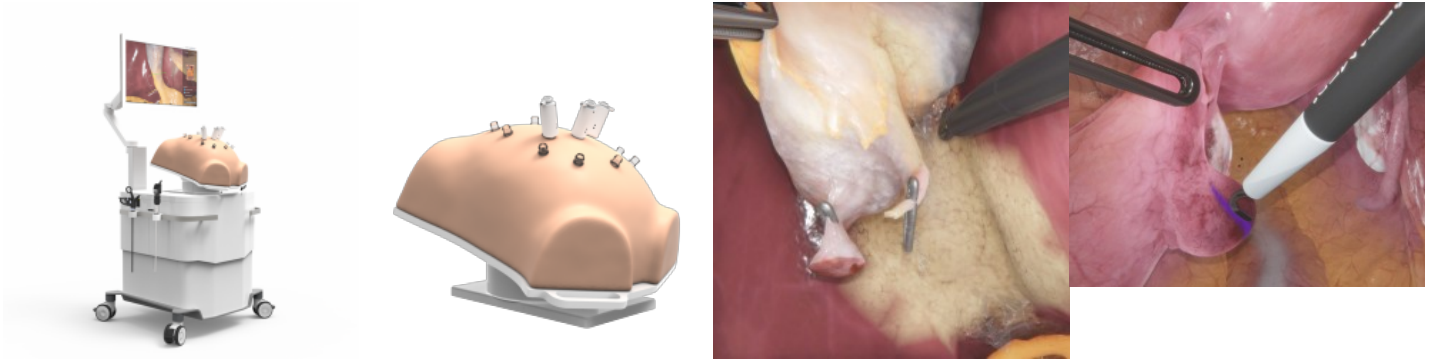# High-fidelity Laparoscopic Simulator / Laparoscopic Platform, LaparoS™

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Product code: SM02529

The rrgonomic educational platform for doctors for advanced training. It is entirely a high-fidelity laparoscopic simulator for learning and training diagnostic and therapeutic skills. Designed and manufactured by the Swiss company VirtaMed, a leader of this type of solutions on the global market, to accelerate the learning process and prepare future doctors for treatments on real patients.

Main features:

- The presented laparoscopic simulator provides the most realistic, innovative training environment with photorealistic graphics and natural tactile feedback.
- Individual educational scenarios derived from concepts approved by world experts Emphasis on patient safety - abdominal positioning function and trocar placement.
- The organs move individually and in real time.
- Motivational process of education with the analysis of progression based on proficiency
- Advanced tissue feedback gives you the feeling of touching, lifting and applying simulated organs and tissues.
- Future surgeons can learn to master laparoscopic tools with an assistant with a camera, optimally preparing for work in the operating room
- The laparoscopic platororma contains an anatomically correct abdominal model that can be positioned according to the training case.
- The free choice of portals allows participants to learn how to use the instruments with different arrangements of the trocars.
- The realistic laparoscopic instruments have been adapted for simulation and combine complete freedom of movement with authentic tactile interactions.
- The laparoscopic simulator is optimized for ergonomic training with an adjustable operating height and a movable multi-touch screen.
- The platform is multidisciplinary. This means that it can be expanded with new modules from other medical fields - gynecology, urology or arthroscopy. The mentioned modules can be easily and quickly switched in the platform.

Laparoscopic simulator - LaparoS - modules:
Basic Skills Module (LaparoS ™ Essential Skills)

- The perfect kit to practice basic laparoscopic skills while enjoying mixed reality training.
- Realistic proficiency-based feedback to help learners accelerate their learning process.

- Using simulated 0 ° and 30 ° optics, prospective surgeons can become proficient in camera navigation, hand-eye coordination, and the development of ambidextrous psychomotor skills.
- All instruments have authentic ring grips and virtual tips such as clamp applicators, scissors and grappers.

2. General surgery module (LaparoS ™ General Surgery):

- Patient positioning (inverted Trendelenburg position or supine) and placement of tracars for your endoscope and other instruments.
- Possibility of team training with a partner or in independent mode.
- The introduction of the laparoscope allows the entire peritoneal cavity filled with air to be examined as more trocars and instruments are inserted.
- A combination of blunt dissection and electrosurgical instruments can be used Individual, realistic tissue feedback for each organ.
- Condensed training cases focus on specific skills and adverse events, allowing learners to focus on repeating and mastering each skill individually.
- Improve the skill of two-handed and non-dominant hand using rare cases of

3. Gynecological Laparoscopy Module / Gynecological Laparoscopy Simulator (LaparoS ™ Gynecological Laparoscopy):

- Patient positioning (inverted Trendelenburg position or supine) and placement of tracars for your endoscope and other instruments.
- Possibility of team training with a partner or in independent mode.
- Students go through training cases on diagnostic laparoscopy, anatomy identification, trimming and cutting, and more training cases coming from highly realistic scenarios including hysterectomy, tubal ligation, tubal adhesion, cystectomy, salpingectomy, and ectopic pregnancy management.
- The platform is also compatible with GynoS ™ Hysteroscopy training modules to provide comprehensive training in line with ACGME, ABOG and ACOG guidelines.

Additional information:
Technical Support and Service Package:

- Several different service levels and support packages tailored specifically to the needs of hospitals and training centers.
- They provide full assistance as well as investment protection and maximum use of the simulator

2. Cloud Service (Connect ™):

- access to data from the simulator anywhere and anytime thanks to the Connect application.
- focus on education thanks to remote access to training results and analysis of the progress curve.
- convenient management of courses and programs and motivation of training participants using online leader boards, Connect enables you to track the progress of students and cohorts, helping to easily train students in key areas for improvement, and to record and compare results over time.
- Connect is cloud based - it can help you easily manage multiple simulators or training programs in multiple lo

3. Training and education in the field of service

- A team of specialists take full advantage of the simulator's capabilities.In addition to the introductory sessions, the training team will provide detailed training in various areas and in multiple languages ??(English, German, French, Italian and Chinese).