ForMoST components

**ForMoST standard package:**
- Boxtrainer with camera
- ForceTRAP (2 options)
  - V1 – Force tracking
  - V2 – Force tracking and real time feedback
- Suture pad holder
- TrEndo instrument motion tracking
- Software license

**Optional accessories:**
- Height-adjustable external monitor
- Laptop
- Storage and transport cases

**Optional task setups:**
- Suture task (in standard package)
- Dynamic position task
- Force controlled task
- More to come...

Awards

- SMIT2010 young researcher award for the research: “Force feedback in laparoscopy; Is it useful?” in Trondheim
- AAGL2011 Colonel F. Kott award for “Best new instrumentation” in Las Vegas.

References


Contact

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Why ForMoST

The Force and Motion Surgical Trainer (ForMoST) offers laparoscopic surgeons in training the ideal solution for **objective skills assessment**. The ForMoST is developed for surgeons, urologists, gynecologists and other clinical disciplines performing laparoscopy. During task execution, forces and motions are continuously tracked by the award winning ForceTRAP and TrEndo. The performance score of the trainee is given afterwards, based on the recorded data.

Different challenging tasks are available, all designed for the purpose of training surgeons towards their clinical practice. The available software supplies the score parameters directly to the trainee or tutor. Results can be exported to a Microsoft Excel spreadsheet.

The technology of the TrEndo and ForceTRAP was developed at the Delft University of Technology and was subject of five different medical and technical PhD studies. An overview of validation studies is given at the backside of this brochure. The ForMoST is already used in two large surgical educational programs in the LUMC and VUmc (The Netherlands).

Features

Skills training

The ForMoST trains participants in the following skills:
- Control of interaction forces
- Dynamic instrument positioning control
- Spatial coordination
- Tactics

Benefits - Institution

- Objective skills assessment of tissue handling skills
- All-in-one setup, no extra hardware/software needed
- Competitive score element, motivates trainees to outperform their peers
- Cost effective

Benefits - Trainee

- Continuous feedback on performance (even without presence of a tutor)
- Real instruments
- Real haptic feedback
- Focussed training
- Live feedback during task execution (ForceTRAP V2 only)