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Laparo Analytic – Laparoscopic Surgical Skill Trainer with Full Training Analysis

Item No.	1021836
Weight	60 kg
Brand	Laparo
MPN:	LAP_AN_SIM

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SKU:

Categories: Laparoscopy

Product Description

Laparo Analytic is the first laparoscopy trainer with an automated training analysis and progress report for the fundamental skills and techniques of laparoscopic surgery.

The full assessment of the trainee's laparoscopic surgery skills is an important asset for every skills lab: it saves the instructor valuable time and standardizes the training with comparable parameters. The instructor can also create their own laparoscopic training and set independent limits for tool movement parameters. This is especially valuable for exams and advanced specialty trainings.

The trainee will quickly develop surgical skills with this minimally invasive surgery simulator. The following laparoscopic surgery skills can be trained using basic to advanced training modules:

- Motorics of instrument moving
- Eye-hand coordination
- Cooperation of both hands
- Grasping, dropping and improving a sense of depth
- Precision of movement
- Ambidexterity development – grasping, transferring and rotating the ring by coordinating both hands

Every student's training is saved as a video for further evaluation and the performance results are used to create individual learning curve reports. The video analysis helps target specific weaknesses: red marks appear automatically whenever a student missed the pre-set tool movement parameters. Each sequence can be reviewed in slow motion and the instructor can add their feedback in comments.

The following training parameters are tracked with high precision sensors and allow to analyze both left and right hand performance independently:

- Visibility of tools
- Quality of tool introduction
- Covered distance
- Speed
- Acceleration
- Trembling of hand
- Number of grip clamping
- Speed of grip clamping
- Training time

The laparoscopic surgery skills simulator was developed for multi-user trainings in Medical Simulation Centers and offers the following technical features:

- Multi-user network for training in groups, up to 20 stations can be connected within the common network and students can log in on any of the devices
- Skill and development analysis with learning curve report

- 8 trocars to choose appropriate inlet during laparoscopic training
- Trainee and instructor login
- Intuitive user interface with touch screen in 6 languages (German, Chinese, Portuguese, Spanish, Russian and French, additional languages upon request)
- Full HD mobile camera with 1920 x 1080 definition
- Electric height adjustment (three memory presets) and stable wheels for easy transport
- High quality material weakens external light and imitates realistic surgery conditions
- Easy placement of training modules with magnetic connections

The instructor account gives additional benefits:

- Admin access to all user accounts
- Master view within the multi-user network for closer control over trainees' progress
- Option to create individual trainings with independent analysis parameters
- Possibility to hold a live transmission from the camera, for example from the instructor's device to trainees' devices
- Monitoring of up to 16 student stations (screens) at the same time

Delivery content:

- Laparo Analytic trainer
- Touch screen computer (23 inch) with preinstalled software
- Full HD mobile camera with 1920 x 1080 definition
- 4 instruments: grasper, dissector, needle holder and scissors
- 2 spare cables for laparoscopic instruments
- 7 modules: suturing, cutting and suturing, rubber bands, needle threading, twine threading, balls and universal holder
- Silicon oil
- User manual

Available laparoscopy skill training modules:

Training module	Product no.	Features
Suturing	1021848	• Made of durable, soft silicone imitating tissue • Allows activities related to suture and cutting • Diverse orientation of objects for suturing • Can be used multiple times

Cutting and Suturing	1021849	• Cut and suture tensioned tissue • Develop skills of proper tightening knots • Reusable, silicone pad needs to be replaced after multiple uses
Rubber bands	1021852	• Train motoric of instruments moving • Imitates work with elastic tissue • Train precision grip and movement of instrument tip
Balls	1021853	• Develop basic skills in handling laparoscopic instruments • Train grasping, dropping and improving a sense of depth • Equipped with soft, colored balls, requiring high precision to be moved
Needle Threading	1021854	• Train cooperation of both hands • Forces coordination of instrument for threading rope through holes and tubes
Twine threading	1021957	• Train cooperation of both hands • Forces coordination of instrument for threading rope through holes and tubes
Universal holder	1021851	• Place your tissue sample to practice suturing techniques