

# LapAR

Accessible | Affordable | Functional



# LapAR Democratising high fidelity surgical simulation

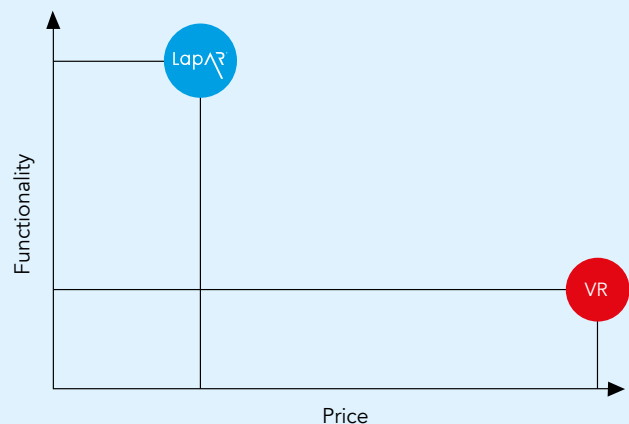
LapAR is a hybrid high fidelity laparoscopic simulator. The system combines patented Augmented Reality (AR) technology with the Inovus box trainer model. LapAR is powered by the Totum digital surgery platform, providing a connected ecosystem for surgical training.

The LapAR represents a paradigm shift in haptic realism utilising real feel soft tissue models and real laparoscopic instruments to provide unparalleled 'natural haptics'.

The simulator allows surgeons to practice a range of procedures across the specialities of general surgery and gynaecology. Instrument tracking technology enables capture of instrument handling and performance metrics with performance data displayed in the Totum platform.

## Key features of LapAR

- Natural haptics through synthetic soft tissue models
- Realistic digital anatomy fully integrated with soft tissue models
- Full procedure simulation (multiple specialties)
- Trigger and manage intraoperative complications
- Objective feedback on key metrics of surgical performance
- Performance tracking on validated curricula
- Record and review training progress with online portfolio



Shown to save  
healthcare systems

**>\$115 million**

per year through operative  
efficiencies when integrated into  
training programmes.



Full procedure simulation across  
gynaecology and general  
(including paediatric) surgery.

# LapAR - Pro

The Institutional version of LapAR offers educational and training institutions the opportunity to deliver high fidelity, fully tracked laparoscopic simulation at an unprecedented scale. The sleek, compact trolley system meets all laparoscopic training requirements from delivering basic, intermediate and advanced laparoscopic skills courses in simulation centres,

through to pre-operative warm up in the clinical setting. LapAR Pro provides unlimited access to the Totum digital surgery platform, meaning there is no limit to the number of surgeons that can be trained with LapAR Pro.

## Included in the package:

- LapAR box trainer with integrated 1080p USB camera
- Model mounting jig and abdominal wall skin
- 5 x laparoscopic instruments: Maryland, Johan, scissors, needle holder (x2)
- 1 x LapPass kit
- 1 x pack of sutures
- Mobile trolley system with adjustable operating height
- 1 x Integrated computer with Totum software pre-installed
- 22" touch screen monitor
- Monitor mounting system – can be converted to table top mounting
- Unlimited user licences
- Admin access to Totum

Product code: 00001526



# LapAR

The take home version of the LapAR serves the demand for distance learning in laparoscopic simulation. The simulator allows the user to perform simulated full surgical procedures as well as basic skills tasks by connecting the simulator to their PC or laptop\*.

Powered by the Totum digital surgery platform, users' performance data is captured and displayed in the web portal and can be downloaded and added to surgical training portfolios and logbooks.

## Included in the package:

- LapAR box trainer with integrated 1080p USB camera
- Model mounting jig and abdominal wall skin
- 4 x laparoscopic instruments: Maryland, Johan, scissors, needle holder
- 1 x LapPass kit
- 1 x pack of sutures
- 5 x medical models
- Single user licence for Totum

Product code: 00000502



\*Laptop not included



To facilitate practice in ipsilateral port placement and suturing, additional side panels are available for purchase.

Product code: 00001605

# Totum Connect to perfect surgical technique

LapAR simulators are powered by Totum, the holistic platform that creates a connected surgical training ecosystem.

Totum allows instrument motions to be mapped and recorded digitally, to generate rich objective

data on surgical performance. The objective data is aggregated, managed and shared with trainers via the Totum web portal.



LapAR  
Powered by

**TOTUM**



#### **Guiding the way to surgical success**

Connect with mentors, peers, and examiners to share best practice



#### **Harnessing the power of data to transform surgical training**

Objective performance metrics guide improvements in surgical technique and operative flow



#### **Unlocking the power of practice**

Video capture and debrief provides an ecosystem for review, refinement, and mastery of surgical procedures



#### **Dynamic assessment, universal recognition**

Issue certificates of competency, gain CPD/CME points for time spent training, perform work based assessments and OSATS

**TOTUM**

To learn more about the complete Totum® ecosystem of connected surgical training, go to **[www.inovus.org](http://www.inovus.org)**



## Surgical Training Remastered

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