SURGAR-PLATFORM

SURGAR-PLATFORM is a medical device accessory designed to transmit the laparoscopic camera's video stream to U-SURGAR during the surgery. It also facilitates interaction with the software interface through a large touch display.

	ELECTRICAL SPECIFICATIONS	DIMENSIONS
SURGAR - PLATFORM	**Power supply :** 230 Vac +/- 10% single-wire ground return **Frequency :** 50 Hz **Power :** 690W	0,87 x 0,64 x 1,58 m

Minimum requirements for SURGAR-PLAN :

Processor : Intel(R) Core(TM) i5-1035G1 CPU (4 cores) @ 1.00GHz
RAM : 8GB
Graphic card : Any graphics card compatible with OpenGL 3.3
Ports : At least one Type A USB port
SURGAR-PLAN is compatible with Ubuntu, Windows, and macOS.
U-SURGAR software is provided with SURGAR-PLATFORM

SURGAR reserves the right to modify technical specifications without prior notice.

SURGAR-PLATFORM is classified as a Class I medical device accessory.

U-SURGAR-SUITE comprising U-SURGAR software and SURGAR-PLAN software, intended for surgical applications in gynecology, is classified as a Class IIa medical device. Its conformity assessment has been conducted by the GMED notified body and is intended for healthcare professionals in surgery for certain gynecological conditions.

Users must always consult the user manual and the product identification label before using any SURGAR product.

This is an advertising document intended for healthcare professionals. This medical device is not eligible for reimbursement.

REFERENCES

Use of Augmented Reality in Gynecologic Surgery to Visualize Adenomyomas - Journal of Minimally Invasive Gynecology - Volume 26, Issue 6, September-October 2019, Pages 1177-1180

SURGAR
Surgical Augmented Reality
Saving lives through better surgery

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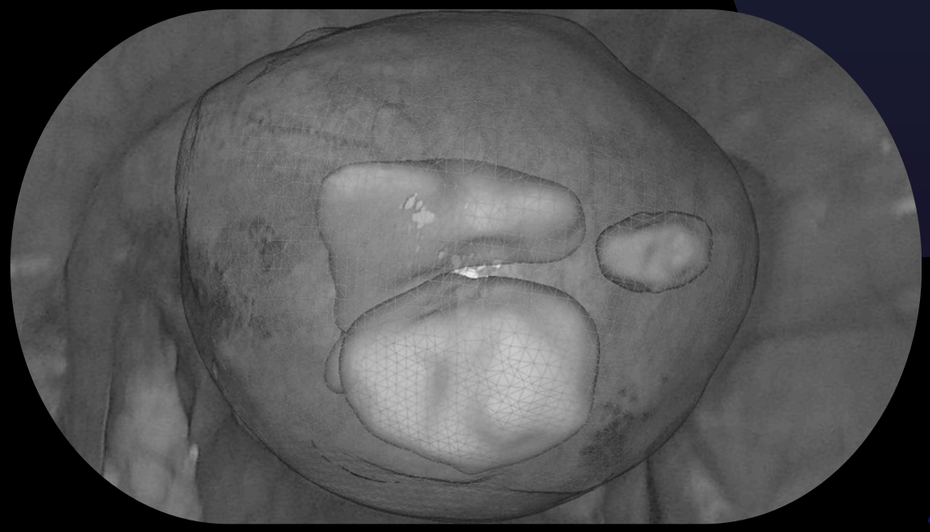
SURGAR
Surgical Augmented Reality

U SURGAR

Augmented Reality for myomectomy

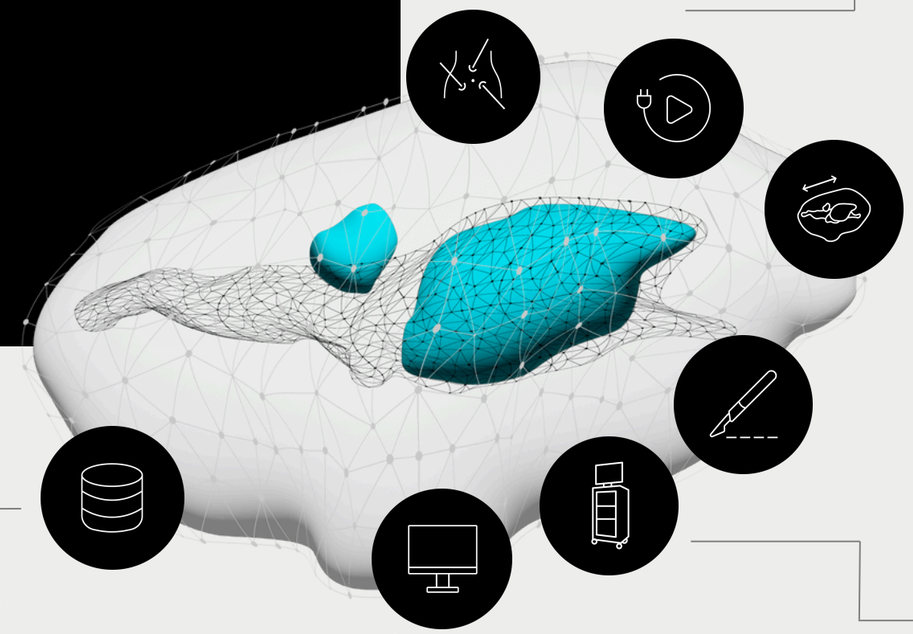


U-SURGAR

U-SURGAR provides a groundbreaking augmented reality solution for laparoscopic surgery of the uterus, aiming to enhance minimally invasive procedures through virtual visualization of critical internal structures.

PRODUCT DESCRIPTION

U-SURGAR-SUITE is a medical device indicated for gynecologic surgeries involving uterine fibroids and adenomyomas. By superimposing augmented reality onto laparoscopic views, it displays the inner structures of the uterus that are typically invisible in conventional practices.



DATA SECURITY

The 3D model data generated using SURGAR-PLAN is securely transferred for intraoperative use in U-SURGAR through an encrypted USB drive. This closed system functions without external peripherals or network connections, thereby safeguarding against malware and data security issues.

TECHNOLOGY

U-SURGAR technology utilizes computer vision and artificial intelligence to recognize, locate and track the uterus during surgery. It displays a preoperative 3D model in real-time augmented reality onto laparoscopic views, adapting to organ movements and deformations without the need for fiducial markers, thanks to patented technology.

EASE OF USE

Operating room integration is straightforward and quick, requiring only a single connection to the laparoscopic column. The ergonomic interface ensures a high level of comfort for daily use, with each procedural step clearly identified for the entire surgical team's understanding.

INDICATIONS

U-SURGAR-SUITE is indicated for intrauterine myomas (FIGO 2, 3, 4 and 5) or adenomyomas in adult patients (ages 18-84) who can undergo preoperative MRI imaging and laparoscopic surgery. It is suitable for one or multiple myomas or adenomyomas measuring up to 8 cm.

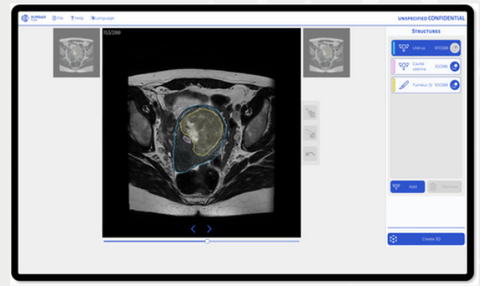
FEATURES

- A preoperative 3D model available in the operating room at the start of the procedure.
- Advanced customization of the 3D model display to meet the surgeon's preferences.
- "Rapid" setup for immediate use.
- Various additional features, such as "green screen" mode and "static" mode, to accomodate surgeon preferences.

COMPATIBILITY

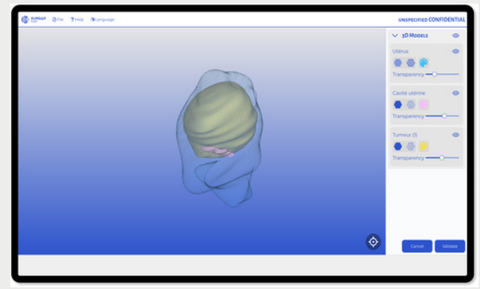
The SURGAR-PLATFORM can supplement the U-SURGAR-SUITE and is compatible with many laparoscopic columns. Please contact a SURGAR representative to verify compatibility with your specific column.

A 3-STEP PROCESS



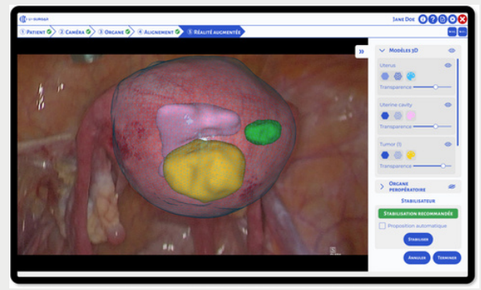
Creation of the Digital Twin

Using SURGAR-PLAN, create a preoperative 3D model of the uterus and its internal structures (myoma(s) and uterine cavity) by segmenting MR images.



Registration of the Preoperative Model

With U-SURGAR, register the preoperative 3D model onto the intraoperative images for precise alignement of the model with the actual organ.



Display of the 3D model in Semi-Transparency

Display the inner structures of the uterus in augmented reality to assist with surgical procedures and optimize outcomes.

OBJECTIVES

With U-SURGAR-SUITE, SURGAR aims to

- Enhance myoma localization capabilities
- Reduce the surgeon's mental load
- Shorten the learning curve for laparoscopic surgery
- Increase the rate of minimally invasive procedures