Surgic AI

Intraoperative Ultrasound with AI and Augmented Vision

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Innovation in Surgery

Experience crystal-clear images powered by an advanced, compact, and lightweight ultrasound system equipped with artificial intelligence and augmented reality technologies.

Intraoperative Ultrasound

Facilitating early diagnosis and supporting surgeons.

Augmented Vision

Integrated display for augmented reality, with remote system control.

Artificial Intelligence

Deep learning algorithms, real-time automatic recognition.

Robustness and Durability

Built to withstand the most challenging conditions in the operating room.

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Intraoperative Ultrasound Imaging

Surgic AI delivers a next-generation ultrasound platform.

Thanks to high-density crystal probes, the system ensures sharp and defined images to clearly identify anatomical tissues.

Scanning modes:

- B-Mode, Color Doppler, Power Doppler, Pulsed Wave Doppler

Ultrasound probes:

Multi-frequency transducers from 1.5 to 18.0 MHz:

- Linear
- Convex
- Microconvex
- Phased Array

Scanning depth: 2–40 cm

Software

- Management and optimization of ultrasound images
- Data processing, storage, and analysis functionalities
- User-friendly interface

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Median Nerve AI Recognition

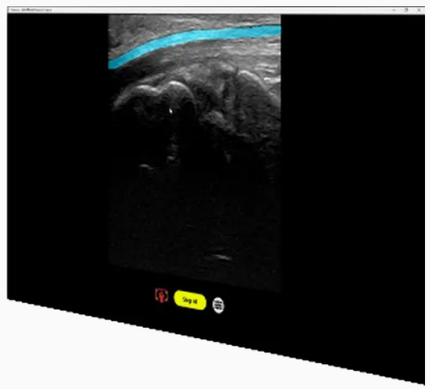
The powerful deep learning algorithms of Surgic AI enable real-time recognition of the median nerve under variable anatomical conditions.

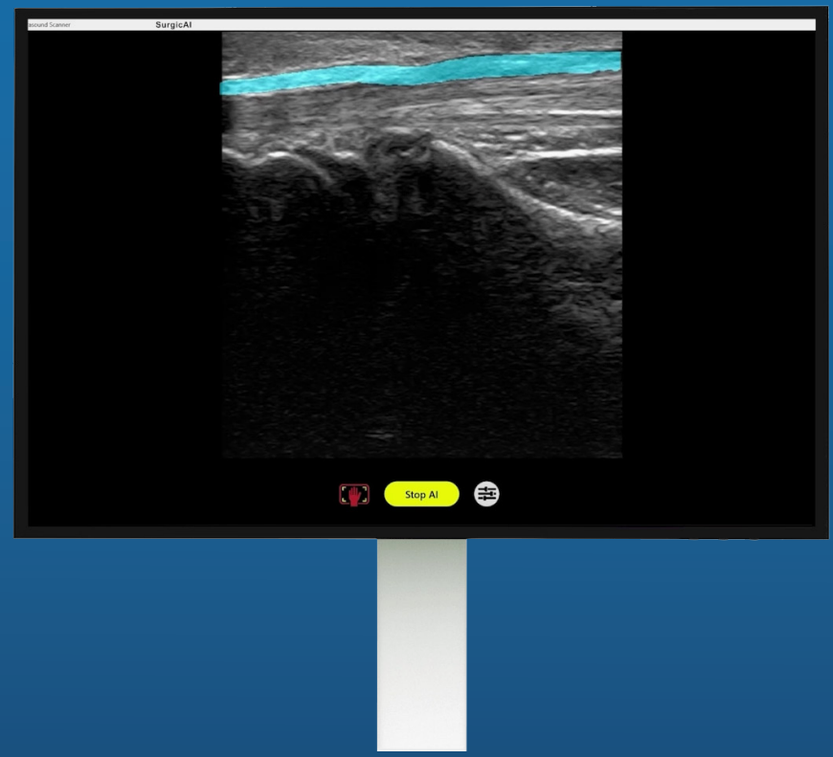
Features:

- Real-time segmentation with a visual color overlay on the nerve structure.
- Support for augmented reality output through Surgic SmartGlass.

Usage:

All AI functionalities are designed for educational purposes and should not be used as diagnostic or patient treatment tools.





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SurgicAI Glass

SurgicAI Glass brings innovation directly to the surgeon's eyes, projecting HD ultrasound images into the field of vision and offering intuitive remote control for seamless and uninterrupted management of the entire SurgicAI system.

Features:

- Connectivity: via secure Wi-Fi protocol
- Display: Si-OLED (Silicon – Organic Light-Emitting Diode)
- Screen Dimensions: 0.45-inch wide panel (16:9)
- Pixel Count: 2,073,600 pixels (1920x1080) x RGB
- Projection Distance: 120 inches at 5 m
- Refresh Rate: 60 Hz

Controller:

The SurgicAI Glass controller is designed to provide simple and intuitive control during surgical procedures.
Equipped with secure Wi-Fi connectivity, it allows uninterrupted management of all system functionalities.

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Available Probes

Linear

L12-5N40-A4

Frequency: 5.0 – 12.0 MHz
Scanning Width: 40 mm
Scanning Depth:
20-120mm

L15-7H40-A5

Frequency: 7.0 – 15.0 MHz
Scanning Width: 40 mm
Scanning Depth:
20-100mm

L18-7H30-A5

Frequency: 7.0 – 18.0 MHz
Scanning Width: 30mm
Scanning Depth:
20-100mm

Convex

C5-2H60A-5

Frequency: 2.0 – 5.0 MHz
Radius: 60mm
Scanning Depth:
30-300mm

C6-1H50-A5

Frequency: 1.0 – 6.0 MHz
Radius: 50mm
Scanning Depth:
40-400mm

MCV9-5N10-A3

Frequency: 5.0 – 9.0 MHz
Radius: 10mm
Scanning Depth:
30-150mm

Phased Array

P5-1S15-A6

Frequency: 1.0 – 5.0 MHz
Scanning Depth: 50-300mm

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Contacts

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