



Asensus
Augmented Intelligence



**Instrument Tracking
Camera Control**

Contour Measurement

Digital Tagging

2

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Asensus Augmented Intelligence (AI)

We are pioneering the introduction of Augmented Intelligence to redefine soft-tissue abdominal surgery. By introducing novel digital capabilities, clinicians now have the benefit of new data and insights to enhance their real-time decision-making.

- **Analyzes multiple data sources** in real-time (visualization, force readings, and robotic positioning)
- **Partners with the surgical team** and the Senhance Surgical System to improve clinical decision making
- Offers **meaningful digital insights** during the course of surgery
- Supports **in-room collaboration** between the surgeon and the surgical team

Intelligent Surgical Unit™ (ISU)



The Intelligent Surgical Unit (ISU) is the digital engine behind the Asensus Augmented Intelligence system – and is the world’s first augmented intelligence system approved by the FDA for use in surgery.

During surgery, augmented intelligence enables a robotic assisted platform to:

PERCEIVE - computer vision

LEARN - machine learning

ASSIST - clinical intelligence

The ISU is designed to integrate with the Senhance Surgical System, and is compatible with a wide selection of laparoscopic camera platforms to deliver a greater degree of surgeon control and clinical insight.

Point to Point Measurement in use on the surgeon’s console.



AI SIGHT



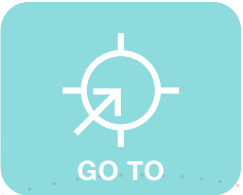
EYE TRACKING

Surgeon eye-tracking camera control



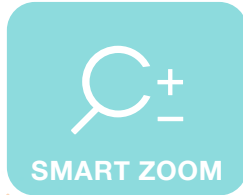
FOLLOW US

Instrument-guided camera control



GO TO

Instrument-guided repositioning of the visual field



SMART ZOOM

Maintaining targeted field of view while zooming in and out

AI PRECISION



POINT TO POINT

Millimeter-accurate 2D measurement between instrument points



CONTOUR

Millimeter-accurate 3D measurement across tissue planes

AI ANNOTATION



DIGITAL TAGGING

Digital overlay of pins for enhanced OR communication



Benefits of Augmented Intelligence

Asensus Augmented Intelligence is pioneering the introduction of digital tools to help surgeons make informed decisions, navigate challenging anatomy, and reduce variability that impacts outcomes. Asensus AI offers a variety of digital tools to address the specific needs of the moment to complete a surgical procedure successfully.

AI SIGHT

AI Sight enables a surgeon to precisely direct the camera's field of view without the need of an assistant to maneuver the laparoscope, freeing surgical assistants to attend to other tasks in the sterile field.

Eye Tracking, Follow Us, Go To, Smart Zoom

AI PRECISION

AI Precision allows surgeons to rely on data to interpret the surgical field, for more accurate decision-making. AI Precision enables precise intraoperative measurement for more procedural reproducibility and documentation.

Point to Point, Contour Measurement

AI ANNOTATION

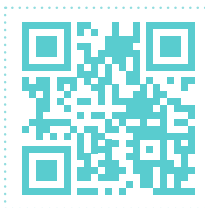
AI Annotation is a means of providing visual instruction for enhanced communication and coordination of the surgical team. Digital OR collaboration tools support better communication between the surgical team during the procedure.

Digital Tagging

Ordering Information

Order Code	Description
X9007366	Intelligent Surgical Unit (ISU)* *Compatible only with the Senhance Surgical System
X0009201	Senhance Upgrade Kit to ISU Configuration

Order Code	Description
2.5 Configuration Package	Software includes Go To, Follow Us, and Smart Zoom
2.7 Configuration Package	In addition to 2.5 configuration features, includes Point to Point Measurement, Contour Measurement, and Digital Tagging



Learn more about the clinical applications of Asensus Augmented Intelligence at [Asensus.com!](https://www.asensus.com)

Eye trackers supplied by Tobii.

The Senhance System was developed under a license of the European Commission Joint Research Centre.

Products may not be available in all markets and indications for use vary by region. Please visit www.asensus.com/indications-for-use or contact your local representative for information about your area.

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www.Senhance.com
www.Asensus.com

orders@asensus.com
Asensus Surgical US, Inc.