

*da Vinci* Xi<sup>®</sup>  
SURGICAL SYSTEM



THE NEXT FRONTIER FOR  
MINIMALLY INVASIVE SURGERY

## OUR MISSION

At Intuitive Surgical, we strive to provide  
the safest and least invasive option  
for surgery.

And we are working hard to make  
minimally invasive surgery  
the standard of care.

***da Vinci<sup>®</sup> Xi<sup>™</sup>***  
SURGICAL SYSTEM

**da Vinci Xi**  
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# CORE TECHNOLOGY

The *da Vinci Xi* Surgical System provides a natural extension of the surgeon's eyes and hands into the patient. As with all *da Vinci* Surgical Systems, the surgeon is always in control.



## MAGNIFIED 3D HD VISION

Highly magnified 3D HD technology allows the surgeon to see the surgical site with true depth perception and crystal-clear vision.



## ENDOWRIST® INSTRUMENTATION WITH INTUITIVE® MOTION

Wristed instruments bend and rotate far beyond the abilities of the human hand. Tremor filtration and *Intuitive*® motion technologies allow the surgeon to operate with steady, natural motion.

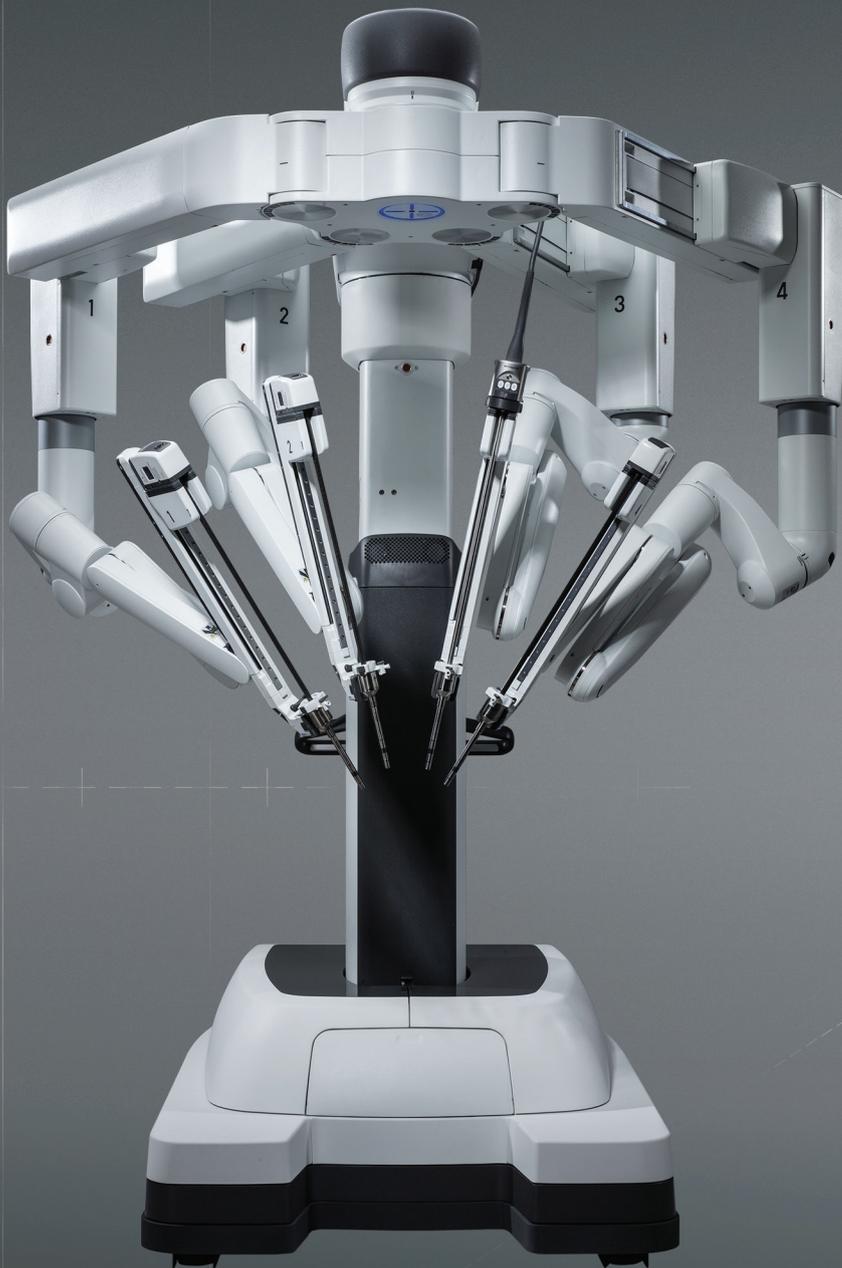


## ENHANCED ERGONOMICS

Whether it is the first or last case of the day, the ergonomically adjustable surgeon console is designed to make performing surgery with the *da Vinci* Surgical System feel comfortable and natural.

**da Vinci Xi**  
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# THE NEXT FRONTIER FOR MIS

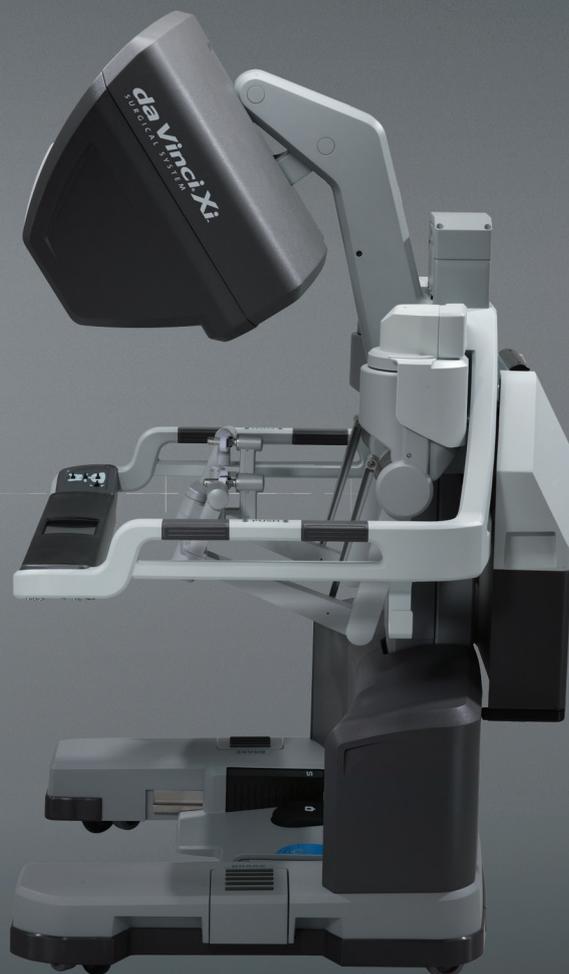


**REVOLUTIONARY ANATOMICAL  
ACCESS**



**CRYSTAL-CLEAR 3D HD  
VISUALIZATION**

The *da Vinci Xi* Surgical System advances MIS technology for patients like never before by offering revolutionary anatomical access, crystal-clear 3D HD vision, and a platform built for advanced technologies. With the *da Vinci Xi* system, Intuitive Surgical now offers a platform optimized for multiquadrant surgery and complex diseases and conditions.



## PLATFORM FOR ADVANCED TECHNOLOGIES

Optional second *da Vinci Xi*™ surgeon console pictured.

# REVOLUTIONARY ANATOMICAL ACCESS



## PLACE PORTS WITH CONFIDENCE

The *da Vinci Xi* Surgical System is equipped with thin arms and long-reach instruments for more flexible port placement.\*

\*Compared to the *da Vinci Si* Surgical System

## GET STARTED WITH A PRESS OF A BUTTON

With robust functionality, the patient-side cart interface is designed to be simple to use and easy to learn. Features like a guided walkthrough and voice assistance facilitate quick and precise setup.



The *da Vinci Xi* Surgical System combines the functionality of a boom-mounted system with the flexibility of a mobile platform. This hybrid architecture enables placement of the surgical cart at any position around the patient while allowing four-quadrant anatomical access.



### TARGET ANATOMY WITH LASER PRECISION

A laser targeting system takes the guesswork out of positioning the patient cart. Once the scope is attached, simply point it at the target anatomy and the system will position the boom in an optimized configuration for the procedure.



# CRYSTAL-CLEAR 3D HD VISUALIZATION

## A NEW VISION ARCHITECTURE

Optics mounted at the tip of the scope put the camera inside the patient, and allow the surgeon and OR staff to see anatomical structures with better definition and more natural colors.\*

\*Compared to the *da Vinci Si* Surgical System

## GREAT THINGS COME IN SMALL PACKAGES

The camera, endoscope, and cable have been integrated into one small, handheld design. No need for draping, focusing, white balance, or calibration.

## ONE-BUTTON IMAGE CAPTURE

Just plug in a thumb drive and automatically save images with a push of a button.



Visualizing anatomy in highly magnified 3D HD is a hallmark of performing surgery with the *da Vinci Xi* Surgical System. A new digital architecture provides the best surgical image ever developed by Intuitive Surgical.



### SEE ANATOMY FROM A NEW PERSPECTIVE

The small scope allows it to be placed on any of the four surgical arms during a procedure; this ability provides increased flexibility for visualizing the surgical site.\*

\*Compared to the *da Vinci Si* Surgical System



### **FIREFLY™** FLUORESCENCE IMAGING

The *da Vinci Xi* Surgical System is designed to be fluorescence-imaging capable. *Firefly* Fluorescence Imaging provides real-time visualization and assessment of vessels, bile ducts, and tissue perfusion.

# PLATFORM FOR ADVANCED TECHNOLOGIES



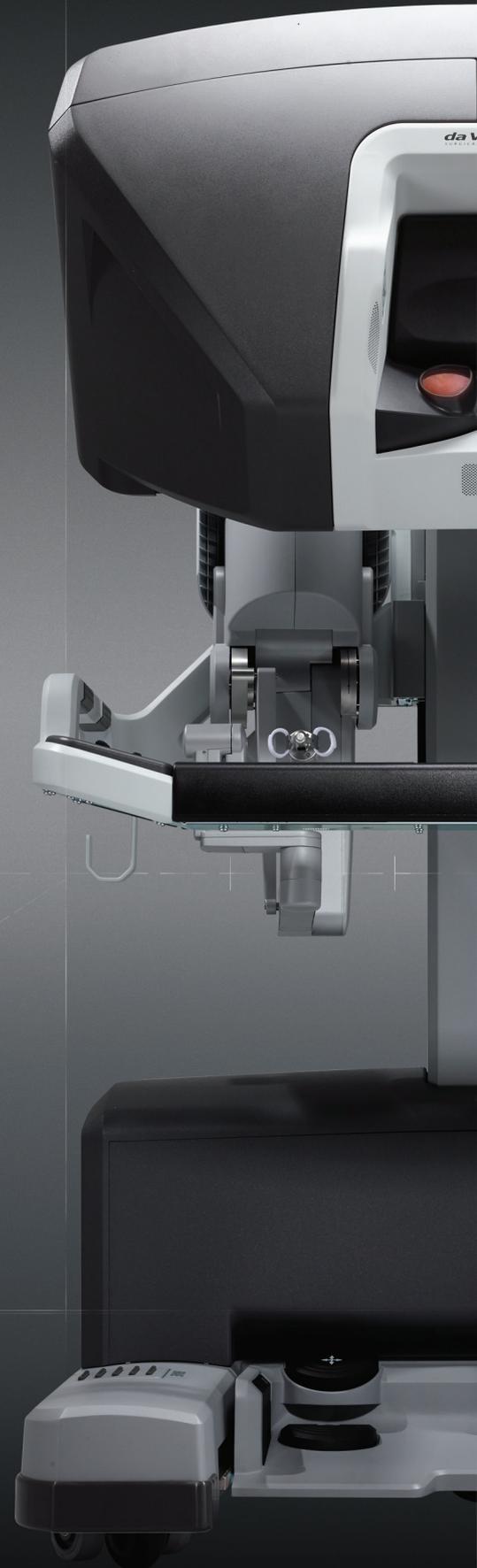
## ADVANCED INSTRUMENTS WITH WRISTED MOTION

The *da Vinci Xi* Surgical System is designed to support fully wristed, advanced instruments such as the *EndoWrist*<sup>®</sup> Vessel Sealer for cutting and sealing, and the *EndoWrist* Stapler for articulated stapling with green, blue, and white reloads.

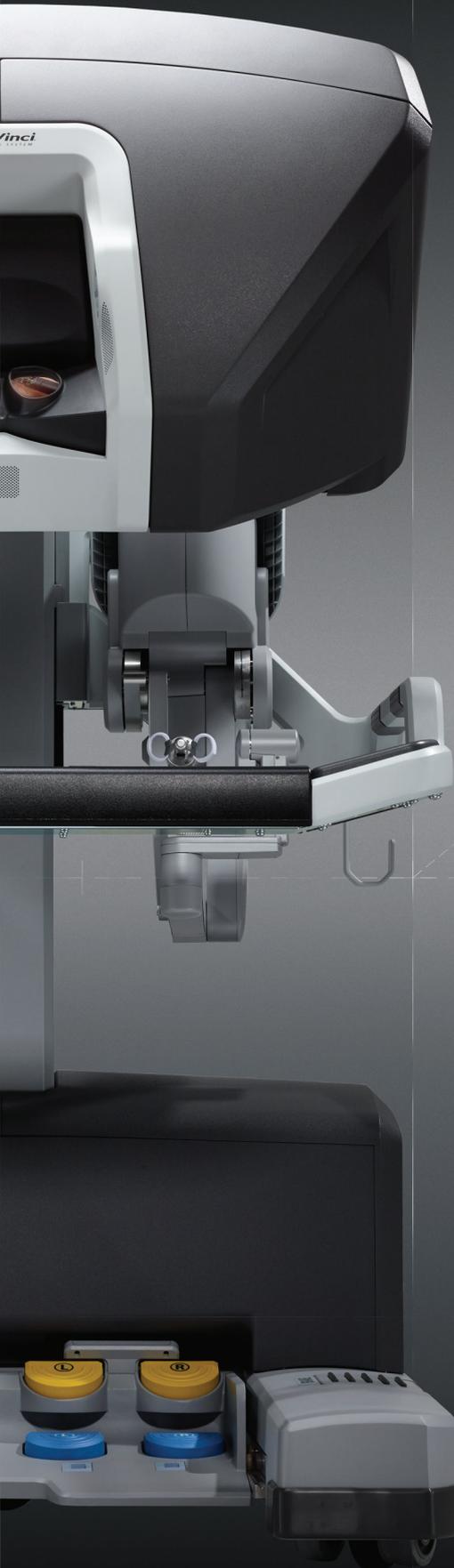


## INTEGRATED ENERGY

The ERBE VIO *dV* generator serves as one integrated energy source for *EndoWrist*<sup>®</sup> instruments, like the *EndoWrist* Vessel Sealer, and laparoscopic instruments. Simply set the desired tissue effect and the generator manages and minimizes monopolar and bipolar energy delivered to the surgical site.



Take control of advanced and future technologies with the built-in expansion capabilities of the *da Vinci Xi* surgeon console. The System is designed to seamlessly integrate future innovations, such as advanced instrumentation, software upgrades, and other advancements into one dynamic platform.



### FUTURE INNOVATIONS

The *da Vinci Xi* Surgical System is designed as a technology platform to support new products that enable single-port surgery and intraoperative table motion.\*



### PRACTICE THROUGH SIMULATION

The *da Vinci Xi Skills Simulator*™ allows surgeons to practice the skills required to effectively use the *da Vinci* Surgical System. The Skills Simulator now offers patient-cart simulation capabilities designed to train the perioperative staff.

\*These technologies are not currently FDA 510(k) cleared for the *da Vinci Xi* Surgical System.

# INTUITIVE SURGICAL®

[www.IntuitiveSurgical.com](http://www.IntuitiveSurgical.com)

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To learn more about the  
*da Vinci Xi* Surgical System,  
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To contact a representative or  
receive additional information, visit  
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Serious complications may occur in any surgery, including *da Vinci*® Surgery, up to and including death. Examples of serious or life-threatening complications, which may require prolonged and/or unexpected hospitalization and/or reoperation, include but are not limited to, one or more of the following: injury to tissues/organs, bleeding, infection and internal scarring that can cause long-lasting dysfunction/pain. Individual surgical results may vary.

Risks specific to minimally invasive surgery, including *da Vinci*® Surgery, include but are not limited to, one or more of the following: temporary pain/nerve injury associated with positioning; a longer operative time, the need to convert to an open approach, or the need for additional or larger incision sites. Converting the procedure could result in a longer operative time, a longer time under anesthesia, and could lead to increased complications. Contraindications applicable to the use of conventional endoscopic instruments also apply to the use of all *da Vinci* instruments. You should discuss your surgical experience and review these and all risks with your patients, including the potential for human error and equipment failure. Physicians should review all available information. Clinical studies are available through the National Library of Medicine at [www.ncbi.nlm.nih.gov/pubmed](http://www.ncbi.nlm.nih.gov/pubmed).

Be sure to read and understand all information in the applicable user manuals, including full cautions and warnings, before using *da Vinci* products. Failure to properly follow all instructions may lead to injury and result in improper functioning of the device. Training provided by Intuitive Surgical is limited to the use of its products and does not replace the necessary medical training and experience required to perform surgery. Procedure descriptions are developed with, reviewed and approved by independent surgeons. Other surgical techniques may be documented in publications available at the National Library of Medicine. For Important Safety Information, indications for use, risks, full cautions and warnings, please also refer to [www.davincisurgery.com/safety](http://www.davincisurgery.com/safety) and [www.intuitivesurgical.com](http://www.intuitivesurgical.com). Unless otherwise noted, products featured are available for commercial distribution in the US. For availability outside the US, please check with your local representative or distributor.

### **Firefly™ Fluorescence Imaging**

The *da Vinci*® Fluorescence Imaging Vision System (*Firefly*™ Fluorescence Imaging) is intended to provide real-time endoscopic visible and near-infrared fluorescence imaging. The *da Vinci* Fluorescence Imaging Vision System enables surgeons to perform minimally invasive surgery using standard endoscopic visible light as well as visual assessment of vessels, blood flow, and related tissue perfusion, and at least one of the major extra-hepatic bile ducts (cystic duct, common bile duct and common hepatic duct), using near infrared imaging.

Fluorescence imaging of biliary ducts with the *da Vinci* Fluorescence Imaging Vision System is intended for adjunctive use only in conjunction with standard of care white light and, when indicated, intraoperative cholangiography. The device is not intended for standalone use for biliary duct visualization.

Intuitive's ICG packs are available for sale in the US ONLY. Intuitive's ICG packs are cleared for commercial distribution in the U.S. for use in combination with the fluorescence-capable *da Vinci Si* HD vision system and *Firefly* integrated hardware. Intuitive-distributed ICG contains necessary directions for use of ICG with *Firefly* Fluorescence Imaging. Using generic ICG with *Firefly* Fluorescence Imaging is considered off-label and is not recommended. Anaphylactic deaths have been reported following ICG injection during cardiac catheterization. Total ICG dosage should not exceed 2 mg/kg per patient. Anaphylactic or urticarial reactions have been reported in patients with or without histories of allergy to iodides.

### **EndoWrist Vessel Sealer for the Xi Surgical System (IS4000)**

The *EndoWrist* Vessel Sealer is a bipolar electro-surgical instrument for use with the *da Vinci Xi* Surgical System (IS4000) and the ERBE VIO dV electro-surgical generator. It is intended for grasping and blunt dissection of tissue and for bipolar coagulation and mechanical transection of vessels up to 7 mm in diameter and tissue bundles that fit in the jaws of the instrument. The *EndoWrist* Vessel Sealer has not been shown to be effective for tubal sterilization or tubal coagulation for sterilization procedures, and should not be used for these procedures.

### **EndoWrist® Stapler for the da Vinci, Xi™ System**

The *EndoWrist* Stapler for the *da Vinci Xi* System is not compatible for use with the *da Vinci*, *da Vinci S*, or *da Vinci Si* Surgical System. The *EndoWrist* Stapler, *EndoWrist* Stapler Reloads and other Stapler accessories for the *da Vinci Xi* System are intended to be used with the *da Vinci Xi* Surgical System (IS4000) for resection, transection, and/or creation of anastomoses in General, Thoracic, Gynecologic and Urologic surgery. The device can be used with staple-line or tissue-buttressing materials (natural or synthetic). Commercial clearance (US) is for white, blue, and green 45-mm reloads only. The *EndoWrist* Stapler and *EndoWrist* Stapler Reloads for the *da Vinci Xi* System should not be used on tissue such as the liver or spleen, where tissue compressibility is such that clamping of the instrument would be destructive. Do not use the *EndoWrist* Stapler or *EndoWrist* Stapler Reloads for the *da Vinci Xi* System on the aorta.

### **da Vinci® Skills Simulator™**

The *da Vinci* Skills Simulator™ is intended to augment, not replace, existing training programs for the *da Vinci*® Surgical System.

### Model Portrayal

Unless otherwise noted, all people depicted are models.