DA VINCI Xi. SINGLE-SITE® TECHNOLOGY

AT INTUITIVE SURGICAL, WE STRIVE TO MAKE SURGERY MORE EFFECTIVE, LESS INVASIVE, AND EASIER ON SURGEONS, PATIENTS, AND THEIR FAMILIES.
**CANNULAS**
A curved design triangulates instruments internally and separates arms externally, maximizing range of motion and minimizing collisions.

**PORT**
The 5-lumen port fits through a 25-mm incision and holds two Single-Site instruments, a 3D-HD endoscope, an insufflation channel, and a 5-10 mm assistant cannula.
The Wristed Needle Driver provides surgeons additional dexterity* while suturing.

The semi-rigid design allows the instrument to pass through the curved cannula while providing rigidity to manipulate tissue.

Note: Some products might not be available in your market.
**SYSTEM**

**SOFTWARE**
*da Vinci Xi* Surgical System software re-configures the surgeon’s hand controls so they experience intuitive movement when using *Single-Site* instruments.

**REMOTE CENTER**
Intuitive Surgical’s remote center technology minimizes port-site movement and trauma at the incision site.
FIVE-STEP SETUP

*da Vinci Xi Single-Site* setup follows the same principles used in *da Vinci Xi* multi-port setup while adding unique setup features to maximize the advantages of Single-Site technology.

**THESE ENHANCEMENTS:**
- Adjust the *da Vinci Xi* Surgical System to an appropriate starting position
- Facilitate reproducible setup
- Minimize external arm interferences
- Maximize range-of-motion

1. **SINGLE PORT PLACEMENT**

2. **DEPLOY FOR DOCKING**

3. **DRIVE LASER LINES TO ENDOSCOPE PORT**

4. **PERFORM TARGETING**

5. **INSERT CURVED CANNULAE AND PERFORM MANUAL ARM ADJUSTMENTS**
FROM THE \textit{DA VINCI Si\textsuperscript{®}} SURGICAL SYSTEM TO THE \textit{DA VINCI Xi\textsuperscript{®}} SURGICAL SYSTEM, AN EVOLUTION IN \textit{SINGLE-SITE SURGERY}

da Vinci Si Single-Site technology became a prominent robotic single-port platform on the market. The da Vinci Xi Surgical System improves this platform with new technology, access, and usability.

\begin{itemize}
  \item **IMPROVED OPTICS\textsuperscript{*}\**
  The \textit{da Vinci Xi} 8 mm endoscope provides the surgeon a clearer view of the surgical field. \textit{FireFly\textsuperscript{®}} fluorescence imaging is integrated to highlight specific tissues such as vessels and bile ducts.

  \item **EASIER SETUP\textsuperscript{*}\**
  A single-fin attachment system makes docking easier and faster.\textsuperscript{*} Specific \textit{Single-Site} features like two-button clutching and a guided walkthrough improve OR team usability.

  \item **GREATER PATIENT ACCESS\textsuperscript{*}\**
  The boom-mounted architecture of the \textit{da Vinci Xi} Surgical System provides docking from any angle and improves access around the patient. The redesigned arms provide greater\textsuperscript{*} internal range of motion while improving\textsuperscript{*} patient access and minimizing\textsuperscript{*} external collisions.
\end{itemize}

\begin{itemize}
  \item Brighter image
  \item Higher resolution
  \item Longer endoscope
  \item Integrated \textit{FireFly\textsuperscript{®}} Fluorescence Imaging
  \item Easier docking
  \item Two-button clutching
  \item Guided walkthrough
  \item Dock from any angle
  \item Increased\textsuperscript{*} range of motion
  \item More space for patient-side assistant
\end{itemize}

\textsuperscript{*}As compared to the \textit{da Vinci Si} Surgical System
THE ADVANTAGES OF THE DA VINCI Xi® SURGICAL SYSTEM

• IMMERSIVE 3D-HD DISPLAY
  
  *da Vinci* technology provides a stable, immersive, highly magnified 3D-HD view of the surgical field while providing the surgeon autonomous, independent control of the camera.

• PRECISION

  Surgeon’s hand movements are scaled, filtered, and seamlessly translated to the instrument tips for precise instrument control.

• ERGONOMICS

  Multiple ergonomic adjustments provide comfort and reduce fatigue during surgical procedures.

• INTUITIVE MOTION

  Instead of counter-intuitive control found in other MIS approaches, *da Vinci* instrument movements mimic the surgeon’s hand movements.

• VERSATILITY

  The *da Vinci* Surgical System provides multi-port and single-incision surgery on a single platform—this versatility enables robotic surgery across multiple surgical specialties.
INTENDED USE

The Intuitive Surgical Endoscopic Instrument Control System (da Vinci Surgical System Model IS4000) is intended to assist in the accurate control of Intuitive Surgical Endoscopic Instruments during urologic surgical procedures, general laparoscopic surgical procedures, gynecologic laparoscopic surgical procedures, general thoracoscopic surgical procedures, thoracoscopically-assisted cardiomyotomy procedures, and trans-oral otolaryngology surgical procedures restricted to benign tumors and malignant tumors classified as T1 and T2, and for benign base of tongue resection procedures. The system can also be employed with adjunctive mediastinotomy to perform coronary anastomosis during cardiac revascularization. The system is indicated for adult and pediatric use (except for trans-oral otolaryngology surgical procedures). It is intended to be used by trained physicians in an operating room environment.

The Intuitive Surgical® da Vinci Xi® Single-Site® instruments and accessories used with the da Vinci Xi Surgical System (IS4000) are indicated for use by trained physicians in an operating room environment for endoscopic manipulation of tissue, grasping, cutting, blunt and sharp dissection, approximation, clip-ligation, electrocautery, suction/irrigation and suturing during single incision laparoscopic cholecystectomy, benign hysterectomy and salpingo-oophorectomy with the da Vinci Xi Single-Site Instruments and Accessories, including graspers, dissectors, needle drivers, scissors, suction irrigators, monopolar cauter, bipolar cauter, clip applicers, 5 mm curved cannulae, 5 mm and 10 mm straight cannulae, 8 mm endoscope cannula, flexible and rigid blunt obturators, cannula seal, and the Single-Site Port.

COMPLIANCE

The da Vinci Xi Surgical System (model IS4000) and Single-Site Instruments and Accessories are CE Marked medical devices of class 2a or 2b (CE 0543) under the European Medical Devices Directive (93/42/ EEC) manufactured by Intuitive Surgical, Inc.

SAFETY INFORMATION

All surgery presents risk. While clinical studies support the use of the da Vinci® Surgical System as an effective tool for minimally invasive surgery for specific indications, individual results may vary. Patients and doctors should review all available information on non-surgical and surgical options in order to make an informed decision. For complete technical information, including Intended Use and full cautions and warnings, please refer to the da Vinci Xi® Surgical System instructions for use and Integrated Table Motion addendum, Instrument & Accessory, Single-Site® and Firefly® instructions for use and other product information. Please also refer to www.intuitivesurgical.com/safety for Important Safety Information.

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