Single-Site® Instrumentation for the da Vinci® Si™ Surgical System

Solutions for single-access surgery
Single-Site® Technology

**Single-Site Port**
- The five-lumen port provides access for two Single-Site instruments, the 8.5 mm 3D HD endoscope, a 5/10 mm accessory port and insufflation adaptor.
- Pliable architecture accommodates variable patient anatomy and enables simple and safe entry into a 2.0-2.5 cm incision.
- Marked lumens on the port provide guidance for proper set-up and remote center placement.

**Curved 5 mm Instrument Cannulae**
- Specifically designed to optimize triangulation toward the target anatomy and provide an unobstructed view of the surgical field.
- Curved architecture separates the instrument arms outside the body wall, maximizing range of motion and minimizing potential internal and external crowding.

**5 mm Semi-Rigid Instruments**
- Designed with the flexibility to go through curved cannulae and the rigidity to retract tissue.
- A full instrument suite is available.

**Single-Site Configuration**
- Compatible with the da Vinci Si Surgical System
- Instruments and camera cross within the Single-Site port and use remote center technology to avoid cannula collisions, arm interferences and port-site movement.
- da Vinci System software automatically detects and re-associates the user’s hands with the instrument tips to create Intuitive® movement through crossed cannulae.

See brochure insert or www.intuitivesurgical.com for complete list of Single-Site instruments, accessories and ordering information.
The Challenge

Single-Port Laparoscopy

Unstable 2D In-line Optics

Manual control of a two-dimensional laparoscopic in-line camera produces an inconsistent view of the surgical field with poor angles and limited depth perception.\(^1,^2,^3\)

Instrument Crowding and Poor Ergonomics

Working through a single incision with manual laparoscopic instruments narrows external working space, restricts range of motion and limits retraction capabilities. Range of motion is further restricted by arm interference resulting from working in a constrained space.\(^1,^2,^4\)

Lack of Triangulation\(^3\)

Optimal instrument and camera angles are lost when working through the same incision using rigid laparoscopic instruments. This results in limited internal mobility, inadequate dissection angles and difficulty performing advanced tasks.\(^1,^2,^4\)

The Solution

da Vinci\(^\circledR\) Surgery

High-Definition 3D Vision

The da Vinci Si System offers surgeons autonomous camera control for a stable, immersive, highly magnified 3DHD view of the surgical field.

Precise, collision-free movement

Surgeon’s hand movements are scaled, filtered and seamlessly translated to the instrument tips for precise instrument control. A large, open working space provides unrestricted range of motion without instrument crowding.
Patient Value

**Intuitive® Motion**
Advanced system software correlates the surgeon’s hand movements to the instrument tips, restoring Intuitive control to what would otherwise be cross-handed surgery.

**Ergonomic Comfort**
The surgeon console features multiple ergonomic adjustments for increased comfort and reduced fatigue during surgical procedures.

**The Result**

**Minimal Scarring**
Transumbilical entry with *da Vinci Single-Site* enables a virtually scarless surgery, providing patients one of the most cosmetically appealing results of any available surgical approach.¹,⁵

**Minimal Pain**
The *da Vinci* System’s remote center technology is designed to limit cannula movement at the patient’s abdominal wall, minimizing potential port-site trauma and post-operative pain.⁵,⁶

Risks related to minimally invasive surgery, including *da Vinci Single-Site* Surgery, may include multiple incisions, conversion to another surgical technique and hernia (bulging tissue) at the incision site.⁶,⁷

*Single-Site® Instruments for the *da Vinci* Si System bear the CE mark. This device is cleared for commercial distribution in the US for laparoscopic cholecystectomy, hysterectomy and salpingo-oophorectomy for benign conditions.*
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. Contraindications applicable to the use of conventional endoscopic instruments also apply to the use of all da Vinci instruments, including Single-Site Instrumentation. General contraindications for endoscopic surgery include bleeding diathesis, morbid obesity and pregnancy. 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. Unless otherwise noted, products featured are cleared for commercial distribution in the US and bear the CE mark. For availability and clearances outside the US, please check with your local representative or distributor. We encourage patients and physicians to review all available information. Clinical studies are available through the National Library of Medicine at www.ncbi.nlm.nih.gov/pubmed. Single-Site Instruments for the da Vinci Si System bear the CE mark. This device is cleared for commercial distribution in the US for laparoscopic cholecystectomy, and for hysterectomy and salpingo-oophorectomy for benign conditions.

The Intuitive Surgical® da Vinci Single-Site Instruments and Accessories used with the da Vinci Si Surgical System 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 and suturing during single-incision laparoscopic cholecystectomy, benign hysterectomy and salpingo-oophorectomy with the da Vinci Single-Site Instruments and Accessories, including graspers, dissectors, needle drivers, scissors, suction irrigators, monopolar cautery, bipolar cautery, 5 mm curved cannulae, 5 mm and 10 mm straight cannulae, flexible blunt obturators, and the Single-Site Port. The safety and effectiveness of Single-Site Instrumentation for use in the performance of general laparoscopic abdominal and pelvic surgery procedures have not been established. Contraindications applicable to the use of conventional endoscopic instruments also apply to the use of all da Vinci instruments, including Single-Site Instrumentation. Research suggests that there may be an increased risk of incision-site hernia with single-incision surgery. © 2013 Intuitive Surgical, Inc. All rights reserved. Product names are trademarks or registered trademarks of their respective holders. PN 873651 Rev C 9/13