

This is a description of the da Vinci Robot and the detail of Prostate Surgery.

The *da Vinci*[®] Surgical System

The *da Vinci* Surgical System consists of an ergonomically designed surgeon's console, a patient-side cart with four interactive robotic arms, the high-performance *InSite*[®] Vision System and proprietary *EndoWrist*[®] Instruments. Powered by state-of-the-art robotic technology, the surgeon's hand movements are scaled, filtered and seamlessly translated into precise movements of the *EndoWrist* Instruments. The net result: an intuitive interface with breakthrough surgical capabilities.



Components of the *da Vinci* Surgical System

Surgeon Console

- Using the *da Vinci* Surgical System, the surgeon operates while seated comfortably at a console viewing a 3-D image of the surgical field.
- The surgeon's fingers grasp the master controls below the display, with hands and wrists naturally positioned relative to his or her eyes.
- The system seamlessly translates the surgeon's hand, wrist and finger movements into precise, real-time movements of surgical instruments inside the patient.

Patient-side Cart

- Provides either three or four robotic arms—two or three instrument arms and one endoscope arm—that execute the surgeon's commands.
- The laparoscopic arms pivot at the 1-2 cm operating ports, eliminating the use of the patient's body wall for leverage and minimizing tissue damage.
- Supporting surgical team members assist in installing the proper instruments, prepare the 1-2 cm port in the patient and supervise the laparoscopic arms and tools being utilized.

EndoWrist Instruments

- A full range of proprietary EndoWrist instruments is available to support the surgeon while operating.
- The instruments are designed with seven degrees of motion that mimic the dexterity of the human hand and wrist.
- Each instrument has a specific surgical mission such as clamping, suturing and tissue manipulation.
- Quick-release levers speed instrument changes during surgical procedures.

Vision System

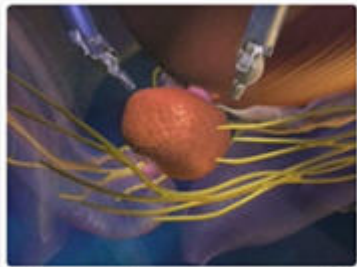
- The Vision System, with high-resolution 3-D endoscope and image processing equipment, provides the true-to-life 3-D images of the operative field.
- Operating images are enhanced, refined and optimized using image synchronizers, high-intensity illuminators and camera control units.

The *da Vinci* Surgical System is the only commercially available technology that can provide the surgeon with the intuitive control, range of motion, fine tissue manipulation capability and 3-D visualization characteristic of open surgery, while simultaneously allowing the surgeon to work through tiny incisions typical of minimally invasive surgery.

To see how the *da Vinci* Robot works with your surgeon, click on the 'Watch Video' links below.

***da Vinci* Procedure Multimedia**

da Vinci Prostatectomy



 [Watch video](#)

da Vinci Surgical System



 [Watch video](#)

In this section of daVinciProstatectomy.com, you can get a rich-media view of how *da Vinci* Surgery works and what your experience with it may be like.

To see the actual surgical procedure at the University of Michigan Medical Center, click on the link below. Note: This is an extremely detailed video with full medical terminology describing the procedure.

http://www.personal.umich.edu/~danlbee/Uro4_Titles_VO_Audio4.mov



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