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DaVinci Xi Robotic System

The last version of the most common used robotic system in urological surgery (Intuitive Surgical Inc.©, USA).

3 components:

PATIENT CART



It contains the robot arms. It is attached to the trocars once the light mark coincides with the surgical field.

SURGEON CONSOLE



It contains surgeon's binocular viewer and manual and foot controls.

VISION CART



It contains the screen used by the assistant surgeon. Connections for pneumoperitoneum, light source, optics and instruments.

ARMS COMMON PLACEMENT// ALTERNATIVE PLACEMENT

ARM 1:
ProGrasp Forceps// Bipolar Maryland Forceps → Left needle holder

ARM 2:
Bipolar Maryland Forceps → Left needle holder// Optics (0° or 30°)

ARM 3:
Optics (0° or 30°)// Monopolar scissors → Right needle holder

ARM 4:
Monopolar scissors → Right needle holder// ProGrasp Forceps



GREEN wire: monopolar scissors

BLUE wire: bipolar forceps

WHITE (& green) tube: pneumoperitoneum

BLACK/GRAY wire: light and optics



MANUAL CONTROLS:



Blue arrows show manual clutch (black and grey button) to release one arm (index finger) Thumb and middle fingers slide between white rings for manual control

FOOT CONTROLS:

Black pedals are handled with left foot
Clutch pedal releases both arms
Camera pedal allows moving the camera with both arms

Coloured pedals (yellow and blue) are handled with right foot

Blue arrows show instrument arm swap (side touch with left foot) It allows movement of ProGrasp forceps

EXCHANGE 1ST-2ND ARM OR 3RD-4TH ARM

