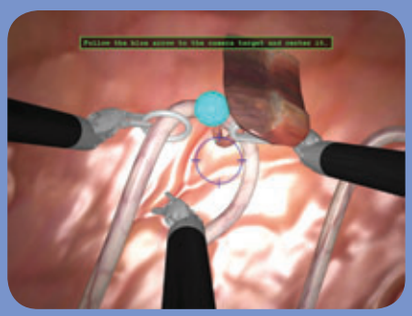
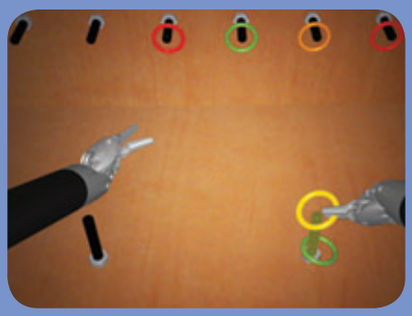
da Vinci Si HD
SURGICAL SYSTEM

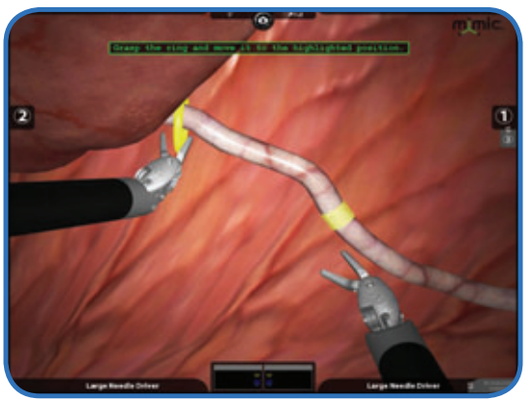
da Vinci Skills Simulator™





INTUITIVE
SURGICAL®

Introducing Simulation for the *da Vinci*® Surgical System



Skills Practice in an Immersive Virtual Environment

Portable. Practical. Powerful. The *da Vinci* Skills Simulator contains a variety of exercises and scenarios specifically designed to give users the opportunity to improve their proficiency with the *da Vinci* surgeon console controls. The sleek case seamlessly integrates with an existing *da Vinci*® *Si*™ or *Si-e*™ surgeon console*, turning it into a novel practice platform that can be used in or outside the operating room. No additional system components are required.

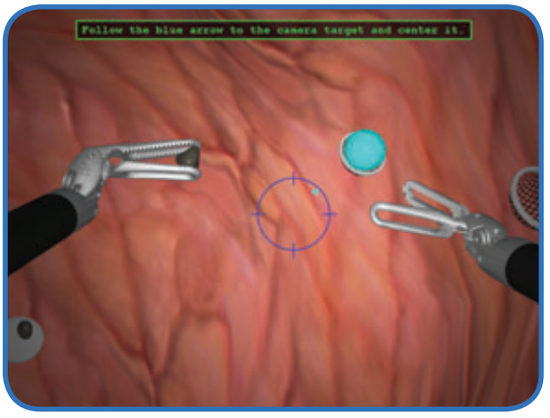
- The straightforward set-up allows users to practice unassisted or with supervision, according to their preference.
- Built-in metrics enable users to assess skills, receive real-time feedback and track progress.
- Administrative tools let users structure their own curriculum to fit with other learning activities in their institution.
- The open architecture of the system software allows for the future development and incorporation of additional practice modules.

* Not compatible with the *da Vinci S* or standard *da Vinci* surgical systems.

A Variety of Comprehensive Exercises

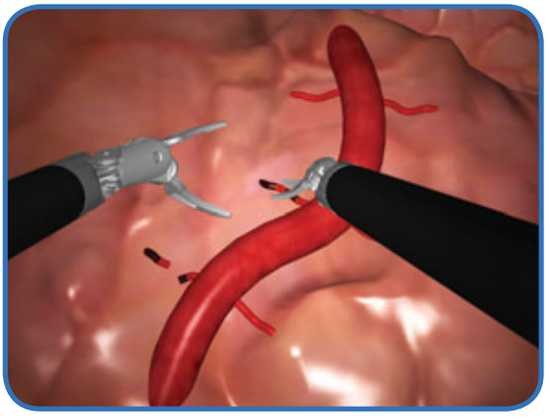
Developed in collaboration with *Mimic Technologies*®, the *Skills Simulator* exercises range from basic to advanced and are designed to be relevant to surgeons from any specialty.

Each exercise covers at least one of the following skill categories:



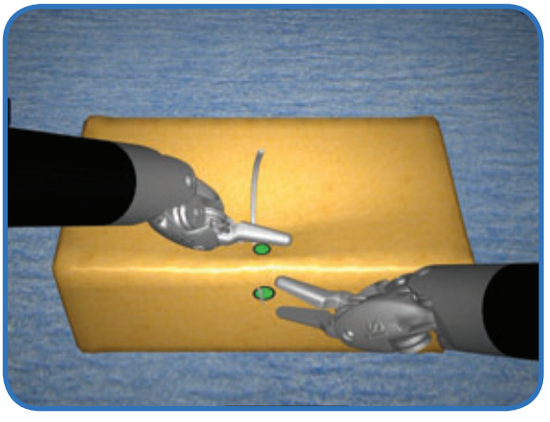
- ***EndoWrist*® Manipulation** - *EndoWrist* instruments are designed to provide surgeons with natural dexterity and a range of motion far greater than the human hand. These exercises are designed to help users gain familiarity with the movement of the instruments.

- **Camera and Clutching** – The three-dimensional, enhanced high-definition vision of the *da Vinci* System offers a key clinical advantage in surgery, and these exercises help users improve camera control and learn to use the clutch effectively.



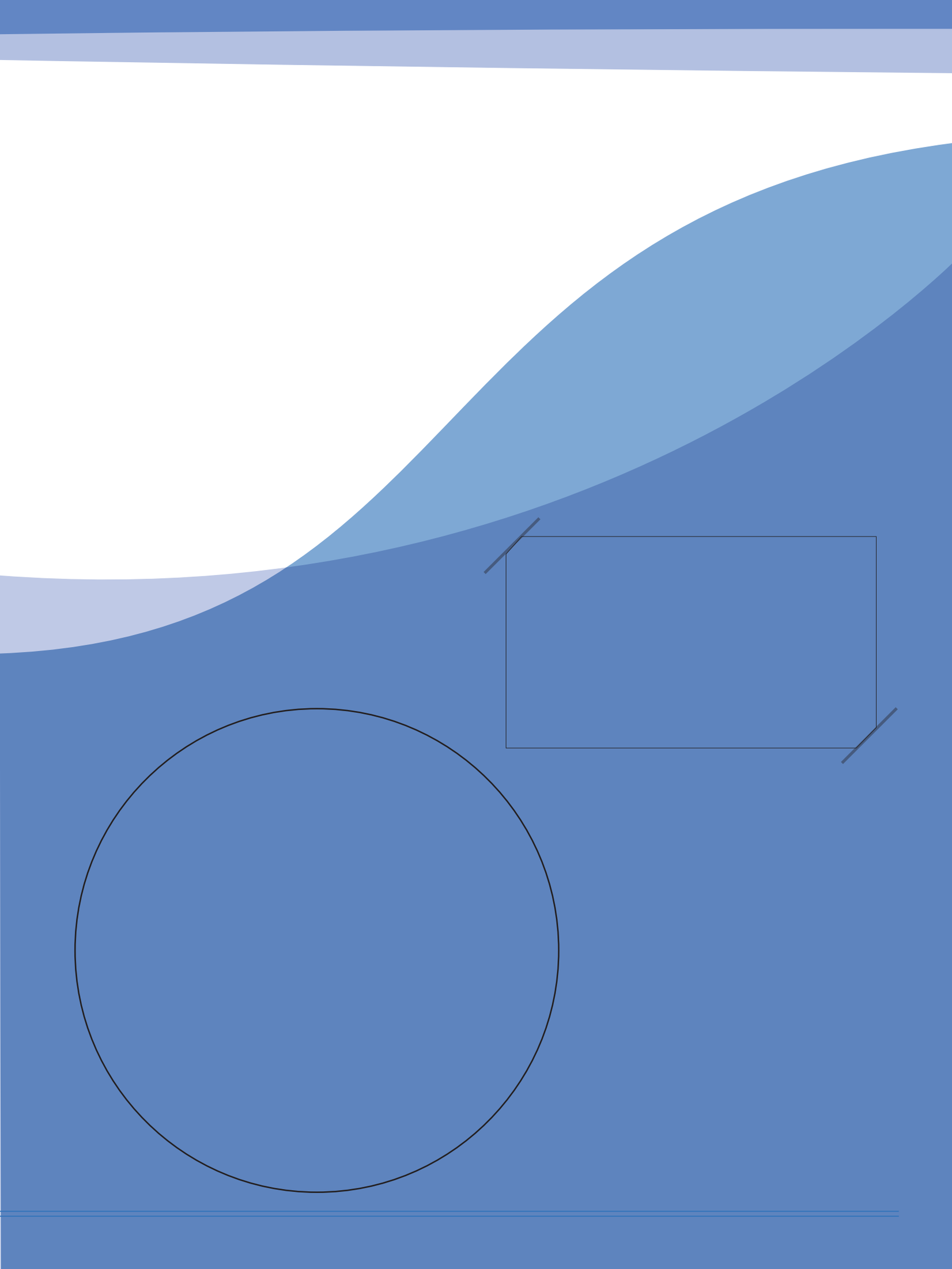
- **Fourth Arm Integration** – For more advanced instrument control skills, some exercises include a fourth instrument arm that must be used. This is designed to promote instrument skill, and encourages users to think strategically about instrument placement during tasks.

- **System Settings** – The surgeon console features a full complement of controls for user settings. Quiz exercises on the simulator focus on basic setting topics such as icons, ergonomics and instrument scaling.



- **Needle Control and Driving** – These scenarios are designed to help users develop skill when manipulating needles, including a focus on how to effectively hand off and position needles while practicing with a range of geometries.

- **Energy and Dissection** – The footswitch panel enables users to perform a range of tasks such as swapping between different types of energy instruments. These exercises allow users to gain familiarity with the footswitch panel by applying monopolar and bipolar energy while working on dissection tasks.



One Compact Solution With Many Benefits

Simulation in all forms is an important part of the learning experience for surgical technology. By providing a controlled re-creation of critical steps in instrument control, simulation allows surgeons to practice their skills in a non-clinical environment. Other major benefits of simulation include the ability to:

- Increase familiarity with the *da Vinci* System - The *Skills Simulator* allows surgeons to practice on the *da Vinci* System as much as needed to become comfortable with new techniques.
- Provide more learning opportunities - For residents, simulation helps maximize practice time and ensures they get as much technical exposure as possible.
- Measure progress - This is a quantitative, measured platform designed to allow surgeons to see how they have done on a given exercise and to track progress over time.
- Warm-up before surgery - The simulator can be used immediately before a case to allow surgeons to re-familiarize themselves with the console.

For more information, please visit our website at:

http://www.intuitivesurgical.com/products/skills_simulator

Worldwide Headquarters
1266 Kifer Road, Building 101
Sunnyvale, CA 94086-5304
Tel: +1.408.523.2100
Fax: +1.408.523.1390

European Headquarters
Intuitive Surgical Sàrl
1, Chemin des Mûriers
1170 Aubonne,
Suisse
Tel: +41.21.821.20.00
Fax: +41.21.821.20.01

Asia Pacific Headquarters
Intuitive Surgical Sàrl Shanghai
Room 2051, 20th Floor
No. 989 Chang Le Road
Shanghai 200031 P.R. China
Tel: +86.21.5116.6881
Fax: +86.21.5116.6899

www.IntuitiveSurgical.com
www.daVinciSurgery.com

To contact a representative or receive additional information, please call Intuitive Surgical Customer Service at 1-877-408-3872.

While clinical studies support the use of the *da Vinci* Surgical System as an effective tool for minimally invasive surgery, individual results may vary. Before performing any clinical procedure utilizing the System, physicians are responsible for receiving sufficient training and proctoring to ensure that they have the requisite training, skill, and experience necessary to protect the health and safety of the patient. For technical information, including full cautions and warnings on using the *da Vinci* System, please refer to the System User Manual. Read all instructions carefully. Failure to properly follow instructions, notes, cautions, warnings, and danger messages associated with this equipment may lead to serious injury or complications for the patient. © 2010 Intuitive Surgical. All rights reserved. *Intuitive, Intuitive Surgical, da Vinci, da Vinci S HD, da Vinci Si, InSite, TilePro* and *EndoWrist* are trademarks or registered trademarks of Intuitive Surgical. All other product names are trademarks or registered trademarks of their respective holders. PN 874389 Rev. A 1/11