



Intuitive Introduces Real-Time Surgical Insights for da Vinci 5

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New Force Gauge, In-Console Video Replay, and Network CCM features designed for enhanced efficiency

SUNNYVALE, Calif., Sept. 12, 2025 (GLOBE NEWSWIRE) -- Intuitive (Nasdaq: ISRG), a global technology leader in minimally invasive care and the pioneer of robotic-assisted surgery, today announced the first in a series of new software capabilities for da Vinci 5, designed to enhance surgeon and hospital efficiency through the delivery of a range of real-time surgical insights.

Da Vinci 5 has more than 10,000 times the computing power of da Vinci Xi. This enables innovative new system capabilities including:

- **Force Gauge** — a speedometer-like visual indicator that shows the force being applied at the Force Feedback instrument tip.
- **In-Console Video Replay** — an intraoperative feature that enables surgeons to revisit and review key moments from an ongoing procedure — without ever removing their head from the console.
- **Network CCM** — a new feature that enables hospital teams to process software updates — including Force Gauge and In-Console Video Replay — remotely.

"The expanded computing power of da Vinci 5 offers an opportunity to continuously optimize and extend platform performance capabilities through sequential software releases," said Intuitive Chief Executive Officer Dave Rosa. "We pay careful attention to our customers' long-term needs, and the integration of these latest features is the next step towards realizing what we set out to achieve with da Vinci 5 – helping surgeons and care teams to optimize efficiencies, deliver improved patient outcomes, and ultimately lower the total cost of care."



Force Gauge

When using Force Feedback instruments, da Vinci 5 now displays relative real-time force applied to tissue during surgery through Force Gauge—a speedometer-like visual indicator that shows the force being applied at the Force Feedback instrument tip. Force Gauge is designed to support a greater awareness of force applied to tissue, measuring force within a 0–6.5 Newton range.

“We’ve had the opportunity to use da Vinci 5 Force Feedback technology for over a year and a half at Adventist Health Simi Valley, and we are finding that we are consistently applying less force to tissue during procedures,” said Dr. Andrea Pakula, Medical Director of Robotic Surgery at Adventist Health.

“Now, with the addition of the new Force Gauge feature, we have a real-time visual indicator of the force being applied through the instruments. This provides immediate feedback and adds another layer of information to allow us to further refine our technique. I’m excited to see how these enhancements could support gentler, safer surgery, as we remain focused on achieving the best possible outcomes for our patients.”

Recently published data in [The American Journal of Surgery](#) suggests that Force Feedback technology can reduce the total amount of force applied during surgery—without negatively impacting primary outcomes such as bowel function or length of hospital stay¹.

In-Console Video Replay

In-Console Video Replay is an intraoperative feature that enables surgeons to revisit and review video from earlier moments in the same procedure—without ever removing their head from the console. The replay appears directly in their field of view, alongside a live picture-in-picture window for continuous situational awareness.

Fully integrated into the da Vinci 5 system, In-Console Video Replay captures the entire procedure locally and temporarily, to support a surgeon’s real-time decision-making, collaborative review between dual consoles, and improved procedural safety and efficiency.

Network CCM

Force Gauge and In-Console Video Replay will be made available to customers in the U.S. through Network CCM, a real-time system update feature

for da Vinci 5. With Network CCM, new software features can be enabled remotely, which could help to reduce administrative burdens by enabling hospital teams to process new software updates remotely.

The announcement of these new software capabilities for da Vinci 5 was made at Intuitive 360, an annual peer-to-peer educational forum where experiences, ideas and best practices are shared – all with the vision to provide better outcomes and equitable access to care.

Force Gauge, In-Console Video Replay and Network CCM da Vinci 5 software features have all received 510(k) clearance from the U.S. Food & Drug Administration (FDA). These updates reflect the ongoing software innovation to enhance the da Vinci 5 platform, informed by early customer feedback and supported by our long-term development strategy.

These features may not be available in all countries. Product availability is subject to regulatory approval in the specific market. Please contact your local Intuitive representative for product availability in your region.

About Intuitive

Intuitive (NASDAQ:ISRG), headquartered in Sunnyvale, California, is a global leader in minimally invasive care and the pioneer of robotic surgery. Our technologies include the da Vinci surgical system and the Ion endoluminal system. By uniting advanced systems, progressive learning, and value-enhancing services, we help physicians and their teams optimize care delivery to support the best outcomes possible. At Intuitive, we envision a future of care that is less invasive and profoundly better, where disease is identified early and treated quickly, so that patients can get back to what matters most.

About da Vinci Surgical Systems

There are several models of the da Vinci surgical system. The da Vinci surgical systems are designed to help surgeons perform minimally invasive surgery and offer surgeons high-definition 3D vision, a magnified view, and robotic and computer assistance. They use specialized instrumentation, including a miniaturized surgical camera and wristed instruments (i.e., scissors, scalpels, and forceps) that are designed to help with precise dissection and reconstruction deep inside the body.

For more information, please visit the company's website at www.intuitive.com.

Important Safety Information

For product intended use and/or indications for use, risks, cautions, and warnings and full prescribing information, visit <https://manuals.intuitivesurgical.com/market>. For summary of the risks associated with surgery refer to www.intuitive.com/safety.

Forward-Looking Statements

This press release contains forward-looking statements which relate to expectations concerning matters that are not historical facts. Statements using words such as “estimates,” “projects,” “believes,” “anticipates,” “plans,” “expects,” “intends,” “may,” “will,” “can,” “could,” “should,” “would,” “targeted,” “potential,” and similar words and expressions are intended to identify forward-looking statements. These forward-looking statements are necessarily estimates reflecting the judgment of Intuitive’s management and involve a number of risks and uncertainties that could cause actual results or impacts on its operations, financial performance, and business position to differ materially from those suggested by the forward-looking statements.

These forward-looking statements include, but are not limited to, statements related to research and development of products and services, manufacturing of products, integration of products, obtaining of regulatory approvals, technical and other performance of products and services, and making products and services available to more patients and health care professionals.

These forward-looking statements should be considered in light of various important factors and involve known and unknown risks, uncertainties, and other factors, which may cause the actual results, performance, or achievements of Intuitive, or industry results, to be materially different from any future results, performance, or achievements expressed or implied by such forward-looking statements. Important factors that could cause actual results to differ materially from those anticipated in the forward-looking statements include, among others, economic conditions in the geographic markets in which we operate, changes in governmental regulations, regulatory approval priorities, resources, and timelines, regulatory enforcement priorities, governmental investigations and civil litigation, and other factors discussed in Intuitive’s Annual Reports and other filings with relevant securities regulators.

Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of this press release and which are based on current expectations and are subject to risks, uncertainties, and assumptions that are difficult to predict, including those risk factors identified under the heading “Risk Factors” in Intuitive’s Annual Report on Form 10-K for the year ended December 31, 2024, as updated by its other filings with the U.S. Securities and Exchange Commission. Intuitive’s actual results may differ materially and adversely from those expressed in any forward-looking statements, and it undertakes no obligation to publicly update or release any revisions to these forward-looking statements, except as required by law.

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¹ Chang GC, Upinder S, Debra, L, Vargas G, Shah S, Rashidi L. A pilot study on the impact of da Vinci 5's force feedback on clinical outcomes: Does it lead to less tissue trauma in colorectal surgery? *The American Journal of Surgery* (2025). <https://doi.org/10.1016/j.amjsurg.2025.116518>

A photo accompanying this announcement is available at <https://www.globenewswire.com/NewsRoom/AttachmentNg/92d49977-772b-4db1-900e-9387c91f322e>

Source: Intuitive Surgical, Inc.

Force Gauge



Force Gauge is a speedometer-like visual indicator that shows the force applied at the Force Feedback instrument tip.