

What if you had

the **VISION** to enhance  
decision-making  
in your OR?

**Introducing VISION:** real-time oxygen saturation imaging  
that revolutionizes endoluminal & surgical visualization

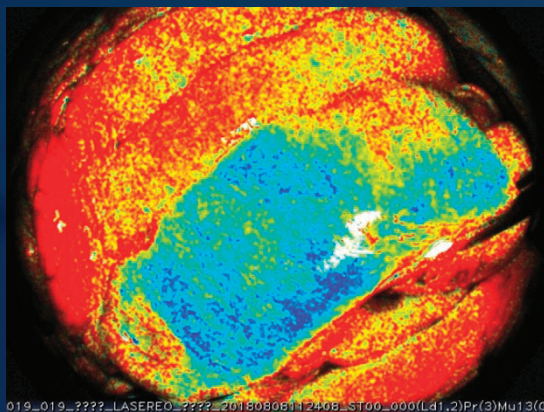


Identifying and ensuring proper tissue perfusion is paramount in successfully conducting both endoluminal and laparoscopic procedures. Avoiding the potential for patient complications such as tissue necrosis or internal bleeding can help to reduce or avert readmission rates and support efforts to optimize patient outcomes. Anastomotic leaks resulting from necrosis of ischemic tissue can lead to septic complications and are associated with 10% higher mortality rates and dramatic increases in length of stay and patient care costs.<sup>1,2</sup>

Fujifilm's ELUXEO® VISION is the only in-market solution that enables physicians with direct real-time visualization of tissue oxygenation – whether using flexible endoscope technology or rigid chip-on-tip laparoscopes – empowering them to raise the standard of patient care from detection and diagnosis, to surgical planning and treatment.

VISION also enables real-time visualization of tissue oxygenation without the need for fluorescent dyes, allowing physicians to circumvent inherent dye limitations such as time restrictions or the need for consumables. Maintaining oxygen visualization may afford physicians with the time needed to identify tissue perfusion and demarcation lines, even during the most challenging and time-sensitive procedures.

#### VISION Heatmap visualization mode



#### VISION Overlay visualization mode



*VISION allows physicians to move between two on-demand visualization modes to gain clear, accurate assessment and measurement of patient tissue oxygenation under direct visualization.*

In September 2020, the U.S. Food & Drug Administration granted its [Breakthrough Device Designation](#) to Fujifilm for its proprietary 5-LED oxygen saturation endoscopic light and image processing technology designed to arm physicians with the resources needed to care for patients at risk for ischemic states of the gastrointestinal tract.

## What sets Fujifilm's VISION imaging technology apart?

Fujifilm's ELUXEO® VISION is the only real-time oxygen saturation imaging solution for use with both flexible endoscopes and rigid laparoscopes.

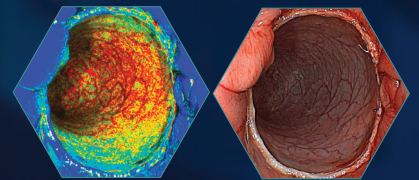
VISION eliminates the need for injectable dyes for a variety of endoluminal and laparoscopic procedures.

The power of  
**ELUXEO®**

Used as an enhancement to the Fujifilm ELUXEO® Endoscopic Imaging System, VISION enables side-by-side real-time direct visualization with brilliantly clear white light imaging and with StO<sub>2</sub> imaging utilizing any of two light modes: Heatmap Imaging mode and Overlay Imaging mode.



VISION real-time tissue oxygen saturation (StO<sub>2</sub>) imaging technology empowers physicians to gain clear and accurate assessment and measurement of patient tissue oxygenation in newly connected tissue at the touch of a button.



Vision makes it possible to visualize StO<sub>2</sub> during both endoscopic and surgical procedures.



## Applications for real-time tissue oxygen saturation imaging

This innovative 510(k) cleared image enhancement technology offers the broadest scope of surgical applications while also affording the ability to perform both endoluminal and laparoscopic procedures from one surgical space-saving tower. VISION allows physicians to visualize StO<sub>2</sub> in both the serosal and mucosal sides of the GI tract during gastrointestinal, colorectal, and advanced endoscopy and surgical procedures such as:

- Gastrointestinal resection with anastomosis and/or reconstruction
- Endoscopic or endoluminal procedures
- Bariatric surgery

Using this technology to detect StO<sub>2</sub> levels in tissue during pre-operative, intra-operative and post-operative assessments can help physicians identify potentially ischemic tissue, better positioning them to conduct both quantitative and laparoscopic/endoluminal measurements to help ensure tissue health and prevent tissue necrosis.

Gaining visualization beyond the tissue during endoscopic resection and reconstruction procedures is vital to ensure intended patient tissue perfusion and also to help identify areas where potential leakage could be occurring, as well as to help avoid it. This technology can also be used post-operatively in follow up assessments to check an anastomosis and evaluate oxygenation changes over time.

## Technical Highlights

Fujifilm's ELUXEO VISION advantage is its unique 5-LED StO<sub>2</sub> endoscopic imaging technology, offered as a visual enhancement upgrade to Fujifilm's proprietary ELUXEO Endoscopic Imaging System with 4-LED multi-light technology, and leverages ELUXEO's existing image processor, with system components housed in a single, space-saving tower with 4K or UHD monitors. This innovative technology can be leveraged in conjunction with select Fujifilm 700 Series endoscopes, including its therapeutic colonoscope and ultra-slim gastroscope offerings.

1 Morbidity of Anastomotic Leaks in Patients Undergoing Roux-en-Y Gastric Bypass. Taghreed Almahmeed, MD, FRCSC; Rodrigo Gonzalez, MD; Lana G. Nelson, DO, MPH; et al. JAMA Surgery, October, 2007.

2 Lee, S.W., Gregory, D. & Cool, C.L. Clinical and economic burden of colorectal and bariatric anastomotic leaks. Surg Endosc 34, 4374-4381 (2020).

Learn more about Fujifilm's real-time tissue oxygen saturation (StO<sub>2</sub>) imaging technology at:

[www.fujifilmendosurgery.com](http://www.fujifilmendosurgery.com) | 800.385.4666 | [fmsusalesinquiry@fujifilm.com](mailto:fmsusalesinquiry@fujifilm.com)