VISUALLY ASSESS TISSUE PERFUSION. IN REAL TIME.¹,²,†

EleVision™
IR Platform‡

Value analysis brochure

¹Bench test results may not necessarily be indicative of clinical performance.
‡Includes the VS3 Iridium system with camera, microscope, endoscopes, and associated accessories.
Table of Contents

3 Executive summary
4 Technology overview
5 Features and benefits
6 Video demonstration link
7 Clinical and economic evidence
8 Differentiated features
9 Service plans
10 Ordering information
WHEN PERFUSION MATTERS, OUR TECHNOLOGY EMPOWERS YOU.¹,²,†

Real-time qualitative and quantitative IR fluorescence imaging measures the relative fluorescence signal intensity — so you can assess perfusion in real time.¹,²,†

Join us as we enter a new frontier in fluorescence-guided medicine — where technology allows you to see beyond the human eye.

More information during your procedures
Surgeons no longer have to rely solely on their sight and experience to assess tissue perfusion. The EleVision™ IR platform enables real-time informed decision making during surgery — when blood flow and tissue perfusion assessment matter.¹,²,†

One system, many applications
The EleVision™ IR platform is the only visualization system capable of real-time fluorescence signal intensity measurements in both open and laparoscopic procedures.² IR fluorescence imaging provides adjunctive information to help surgeons visually assess tissue perfusion — assisting surgeons in clinical decision making and flap design during plastic and reconstructive surgery.²,§
The EleVision™ IR delivers high-definition visualization integrated with real-time IR fluorescence imaging. So surgeons don’t have to sacrifice image quality or change their technique.

Your partner in patient care
Our clinical and technical experts provide education, training, and support so your team confidently uses the EleVision™ IR platform to optimize outcomes.

Because, like you, we put patients first. And as the world’s leading medical technology, services, and solutions company, we’re committed to taking healthcare further, together.

¹Bench test results may not necessarily be indicative of clinical performance.
²Compared to Stryker SPY™ Elite fluorescence imaging system, Stryker PinPoint™ endoscopic fluorescence imaging, Stryker SPY-PHI™ SPY portable handheld imaging system, Storz NIR/ICG Near™ infrared fluorescence imaging, Olympus Visera™ EliteII, Stryker AIM 1588, Stryker AIM 1688. March 2020.
§As evaluated in a feasibility prospective clinical study involving the EleVision™ IR platform during free-flap surgeries in a variety of plastic and reconstructive surgical procedures (n=8 patients).
The EleVision™ IR platform allows surgeons to see critical patient anatomy with high definition imaging — and assist in the assessment of tissue perfusion during surgery.¹,²,†

The EleVision™ IR platform:
- Uses an innovative laser technology in conjunction with indocyanine green (ICG) for high-definition imaging
- Produces simultaneous white light and infrared (IR) fluorescence images — and merges the two in real time
- Provides real-time qualitative and quantitative IR fluorescence imaging by measuring the relative fluorescence signal intensity¹,²,†
- The system’s open camera system creates a uniform edge-to-edge illumination pattern, resulting in sharp peripheral image and consistent measurement of the fluorescence signal intensity¹,†

It works in four steps:
1. Inject patient with ICG
2. Laser excites ICG bound to blood proteins
3. High-definition camera captures fluorescence images
4. Image provides adjunctive information to help assess blood flow and tissue perfusion during surgery.

†Bench test results may not necessarily be indicative of clinical performance.
REAL-TIME VISUALIZATION. ONE SYSTEM.1,2,†

The EleVision™ IR platform empowers surgeons with adjunctive information to help assess tissue perfusion when making decisions during surgery.1,2,†

DESIGNED FOR THE OR
- Control from the sterile field
- Multiple viewing options on touchscreen monitor
- Automatic processing based on distance from tissue
- OR lights can stay on — allowing continuous visibility of the operative field1
- Automatic HD video recording

COMPACT
- Small footprint makes it easy to move around the OR
- Can be used for both open and laparoscopic procedures (both white light and fluorescence imaging for a complete surgical procedure)
- Lightweight open camera for handheld or articulating arm use

HIGH QUALITY IMAGES
- HD for both fluorescence and visible white light imaging
- Real-time overlay of IR fluorescence and visible light images
- Qualitative and quantitative measurement of IR intensity1,2,†
- Option to export images to external monitor or hard drive

†Bench test results may not necessarily be indicative of clinical performance.
HOW CAN FLUORESCENCE IMAGING HELP GUIDE SURGERY?
LET'S SEE.

Click here to watch our procedural videos
FLUORESCENCE IMAGING IN PLASTIC AND RECONSTRUCTIVE PROCEDURES.

Use of IR fluorescence in plastic and reconstructive procedures involving free flaps may provide decisive clinical information through the visual assessment of tissue perfusion²,†

COMPLICATION RATES UP TO 32% HAVE BEEN REPORTED⁴,⁺,§

Necrosis of breast tissue, nipple, or transplanted flap — often caused by poor blood perfusion and ischemia — is one of the most common complications⁵–⁹

UP TO 30% INCIDENCE OF SKIN FLAP NECROSIS REPORTED AFTER MASTECTOMY¹⁰–¹⁵

50% INCREASE IN COSTS REPORTED FOR THOSE PATIENTS¹⁶,§,Ω

SEE THE RELATIVE IR FLUORESCENCE SIGNAL INTENSITY¹,²,††

Enables visualization of areas with relative fluorescence signal intensity below 30% to help surgeons assess inadequate tissue perfusion where it has the potential to be a risk factor for necrosis in plastic and reconstructive surgery²,¹⁷

† As evaluated in a feasibility prospective clinical study involving the EleVision™ IR platform during free-flap surgeries in a variety of plastic and reconstructive surgical procedures (n=8 patients). ‡ Complication defined as an adverse, postoperative, surgery-related event that required additional treatment. Complication rates evaluated at two years postoperatively. § As evaluated in a retrospective cohort of women who underwent mastectomy and tissue expander reconstruction (n=25 matched control analysis). Ω Within 30 days of mastectomy and tissue expander reconstruction. †† Bench test results may not necessarily be indicative of clinical performance.
DIFFERENTIATED FEATURES IN FOUR KEY AREAS†

1. **High sensitivity that can detect low doses of ICG**\(^3,1\)
   An independent evaluation based on benchtop data by Dartmouth College found the EleVision™ IR platform was able to detect dye concentrations with at least 100 times more sensitivity than Stryker’s Spy Elite™ system.\(^3,1\)

2. **Real-time absolute and relative quantitative pixel intensity measurements**
   The EleVision™ IR platform provides real-time qualitative and quantitative IR fluorescence imaging by measuring the relative fluorescence signal intensity. This helps surgeons visually assess perfusion and blood flow in both open and minimally invasive surgeries.\(^1,2,1\) Stryker’s Spy Elite™ system can perform a similar function only when playing back recorded videos, while the Stryker Pinpoint™ system doesn’t have this functionality.

3. **Sharp peripheral image for both IR and visible light images**\(^1,1\)
   The EleVision™ laparoscope uses two separate channels for the IR and visible light images.\(^1,1\) The Stryker Pinpoint™ system uses a single channel laparoscope for both visible and IR images, which means it can only sharply focus on one image at a time.

4. **Imaging convenience in open procedures**
   The EleVision™ IR platform’s dynamic focus camera allows for a flexible range of working distances (20 cm to 45 cm), real-time white light and fluorescence image, and allows image export to secondary displays.\(^1\) Stryker’s Spy Elite™ open surgery system requires a fixed imaging distance of 30 cm.

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†Comparison of the EleVision™ IR platform to Stryker Spy Elite™ and Stryker Pinpoint™ systems based on marketing materials and 510(k) submission.‡Bench test results may not necessarily be indicative of clinical performance.

\(^3\)Compared to Stryker SPY™ Elite Fluorescence imaging system, Stryker PinPoint™ Endoscopic fluorescence imaging, Stryker SPY-PHI™ SPY Portable Handheld Imaging System, Storz NIR/ICG Near™ Infrared Fluorescence Imaging, Olympus Visera™ Elitell, Stryker AIM 1588, Stryker AIM 1688. March 2020.
Tier One
Annual Service Plan

Terms:
▪ Unlimited repairs (original spare parts included)
▪ Unlimited phone support
▪ Unlimited software support
▪ Priority shipment of loaner equipment
▪ Full labor coverage and travel cost coverage
▪ Annual system check-up

Exclusions:
▪ Scopes are not included in this program
▪ Damaged components due to misuse do not qualify under this service program

Tier Two
Annual Service Plan

Terms:
▪ Unlimited repairs (scopes and original spare parts included)
▪ Unlimited phone support
▪ Unlimited software support
▪ Priority shipment of loaner equipment
▪ Full labor coverage and travel cost coverage
▪ Annual system check-up

Exclusions:
Damaged components due to misuse do not qualify under this service

†Please refer to the service agreement for full list of terms and conditions.
# ORDERING INFORMATION

**EleVision™ IR platform**

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<th>CODE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>143-0014</td>
<td>VS3 Iridium Full System 110V (open and MIS)</td>
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<td>VS3 Iridium MIS 110V (MIS only)</td>
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<td>Open High Definition Vision System 110V</td>
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<td>Iridium MMS Drapes (10 each)</td>
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LET’S FOCUS ON PATIENT OUTCOMES, TOGETHER.

Contact your local Medtronic sales representative for more information about the EleVision™ IR platform.