

stryker

1588 AIM platform



Next level
visualisation
is here



stryker



Next level
visualisation

**Designed to safeguard
critical anatomy**

**Customised
surgeon
experience**

One system, multiple specialties

1588 AIM platform **optimise your OR**

3 out of 5

decision-makers look to improve clinical results when deciding to purchase¹

See and do more with
1588 AIM Platform



Hospitals are looking for standardised operating rooms that address clinical needs across multiple specialties.²

Patient Safety in Mind:

The 1588 AIM platform was designed for visualisation of critical anatomy in MIS cases, with unique advanced imaging modalities that allow for visualisation in near infrared, and infrared wavelengths.

Designed to help standardize:

Designed for optimal visualisation across multiple surgical specialties. The 1588 AIM Camera System is designed to give you customised control over surgical devices in the operating room.

Optimal Workflow:

SDC3 technology allows each surgeon to create a customised operating room environment, while providing a consistent and efficient experience

Together with our customers,
we are driven
to make healthcare better.

1588 AIM platform general surgery



2.5-12%

Rates of **anastomotic leak** in laparoscopic colorectal surgery range from 2.5-12%.^{3, 4}

Shortly after the introduction of laparoscopic cholecystectomy, the rate of **injury to the common bile duct** increased to 0.5%.⁵

0.5%

4.4%

Anastomotic leak is a **dreaded complication** of a Roux-en-Y gastric bypass. The leak incidence after a laparoscopic Roux-en-Y gastric bypass is up to 4.4%.⁶

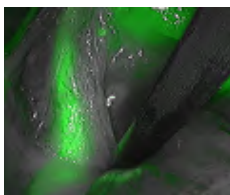
See and do more in general surgery

The 1588 AIM platform consists of three imaging modalities in IRIS, ENV and Clarity with 9 dedicated surgical camera specialty settings. The 1588 AIM platform delivers a high definition, standardised solution, designed to improve patient results.



IRIS

- Visualisation technology designed to reduce the risk of ureteral damage
- Activation of IRIS on the L10 light source transilluminates the ureters with an infrared lighted fiber



ENV

- Enhances visualisation of anatomy in real-time during minimally invasive surgery
- Provides an enhanced visual assessment of blood flow, tissue perfusion, and biliary ducts using fluorescent light when ENV mode is activated
- Used with a fluorescent indocyanine green (ICG) dye



Clarity

- Real-time video enhancement device designed to improve visualisation by increasing clarity, contrast, and detail
- Military-grade technology helps surgeons see through smoke and suboptimal conditions with improved image quality of up to 48%⁷

1588 AIM platform arthroscopy



Office staff spend valuable time scanning surgical photos into patient charts. The process of managing surgical images can be **redundant and expensive** for facilities.

Visualisation deep in the posterior compartment is often dark with instrumentation in the foreground, **which can make debridement and repair of hip and knee anatomy difficult.**

See and do more in **orthopaedic surgery**

The 1588 AIM platform allows you to see more in orthopaedic surgery. The 1588 AIM camera is designed to enhance visualisation by highlighting the posterior compartment and improving visual acuity.

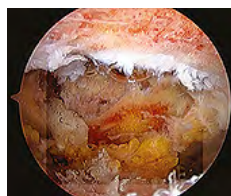


1588 AIM platform:



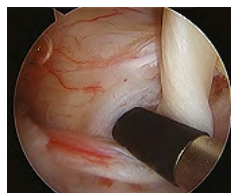
DRE

- Designed to improve visualisation in the surgical field by creating a brighter image in dark and posterior compartments by up to 150%⁸
- Activation of DRE is done with a touch of a button on the 1588 AIM camera head



Clarity

- Real-time video enhancement device designed to improve visualisation by increasing clarity, contrast and detail
- Military-grade technology helps surgeons see through suboptimal conditions with improved image quality of up to 48%⁷

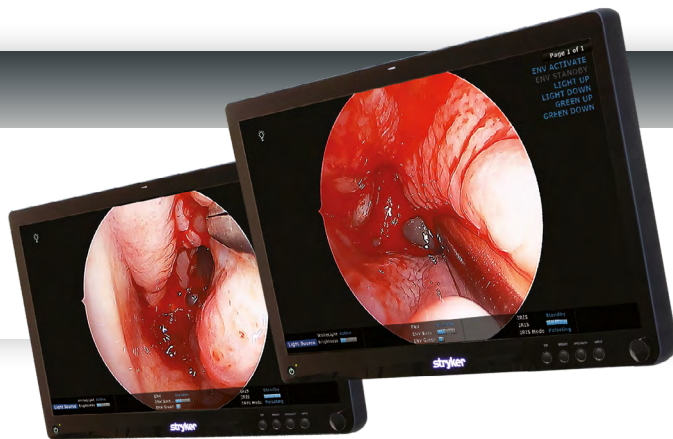


Desaturation

- Advanced imaging modality within the 1588 AIM camera system that decreases the saturation of colour in the image to the level preferred by the surgeon

1588 AIM platform

ENT & neurosurgery



Providing visualisation solutions common to ENT and neurosurgical environments

Without lighting the entire scene, the field of vision and depth of focus will be challenged. Moving the endoscope closer to anatomy can create triangulation issues with instrumentation.

Overly-red surgical images cause darkening and red tinting to non-bloody tissue. Removing the intense reds of a surgical image helps surgeons to **clearly delineate between inflamed and non-inflamed tissue.**

See and do more in ear, nose, throat, & skull

The 1588 AIM platform allows you to see more in ENT surgery. The 1588 AIM camera system is designed to improve visualisation by creating a brighter image deep in the nasal cavity. The AIM platform also includes a “desaturation” mode, which allows for better colour control by decreasing saturation in an image.

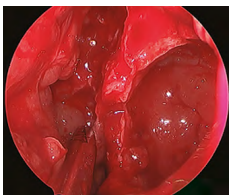


1588 AIM platform:



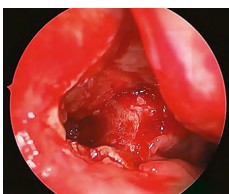
DRE

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Desaturation

- Reduces intense reds up to 66% in bloody surgical environments¹⁰



Clarity

- Real-time video enhancement device designed to improve visualisation by increasing clarity, contrast and detail
- Military-grade technology helps surgeons see through suboptimal conditions with improved image quality of up to 48%¹¹

1588 AIM platform gynecology



0.3% to 1.8%

Ureteral injuries have a documented incidence rate of 0.3% to 1.8% in lower pelvic procedures.^{12, 13}

See and do more in **gynecologic surgery**

The 1588 AIM platform allows you to see more in gynecological surgery. The platform is designed to enhance visualisation by illuminating ureters, visualisation of fluorescent blood flow and seeing through visual impediments that typically occur during surgery.



1588 AIM platform:

IRIS

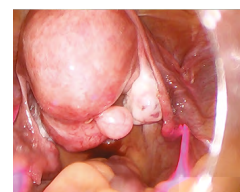
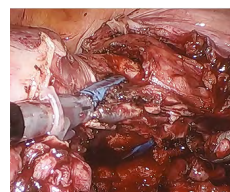
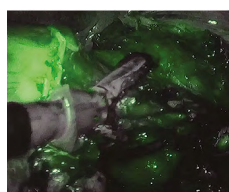
- Visualisation technology designed to reduce the risk of ureteral damage
- Activation of IRIS on the L10 light source transilluminates the ureters with an infrared-lit fibre

Clarity

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ENV

- Enhances visualisation of anatomy in real-time during minimally invasive surgery
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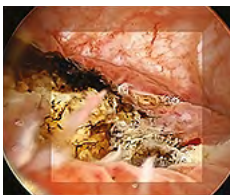
1588 AIM platform urology



See and do more in urology

The 1588 AIM platform allows you to see and do more in urology. The platform is designed to enhance visualisation by seeing through visual impairments typically present during urological surgery, and by highlighting the posterior compartment.

1588 AIM platform:



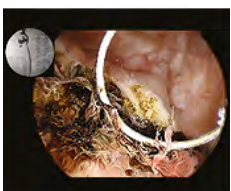
Clarity

- Real-time video enhancement device designed to improve visualisation by increasing clarity, contrast, and detail
- Military-grade technology helps surgeons see through suboptimal conditions with improved image quality of up to 48%⁷



DRE

- Designed to improve visualisation in the surgical field by creating a brighter image in dark and posterior compartments by up to 150%⁸
- Activation of DRE is done at the touch of a button on the 1588 AIM camera head

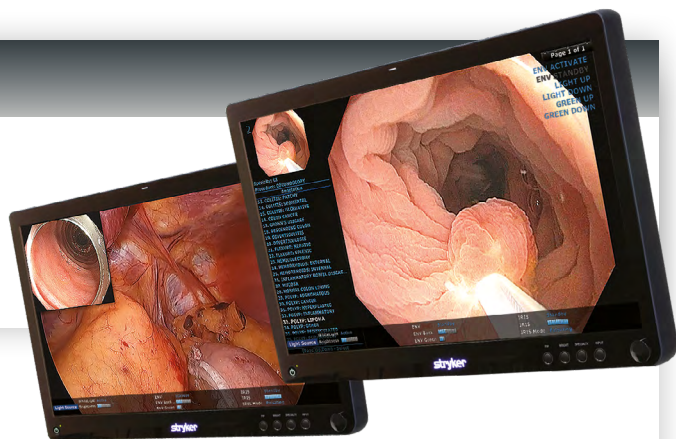


Desaturation

- Advanced imaging modality within the 1588 AIM camera system that decreases the saturation of colour in the image to the level preferred by the surgeon

1588 AIM platform

GI surgery



20%

During colonoscopy, up to 20% of polyps may be missed on initial examination, especially flat and small mucosal lesions¹⁵

See and do more in gastrointestinal surgery

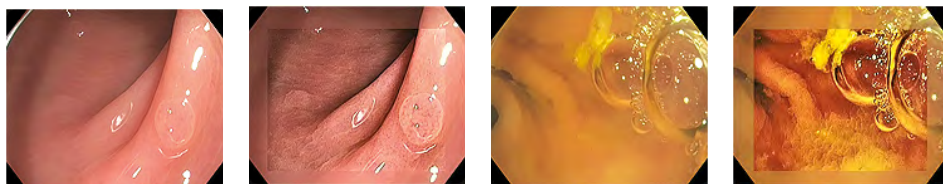
The 1588 AIM platform allows you to see more in GI surgery. The video enhancement capabilities built into Clarity are designed to allow surgeons to more precisely identify polyps and adenomas during colonoscopies.



1588 AIM platform:

Clarity

- Real-time video enhancement device designed to improve visualisation by increasing clarity, contrast, and detail
- Military-grade technology helps surgeons see through suboptimal conditions with improved image quality of up to 48%⁷
- Enhances tissue level detail and possible abnormalities, polyps, and adenomas
- Designed to improve colour to enhance contrast and depth when viewing surgical footage



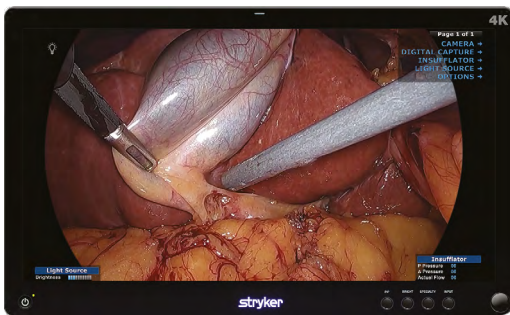
Improves image quality by up to 48%⁷

Complete control of your operating room with SDC3



Customised OR experience

All surgical devices connected to the SDC3 are configured to your preferred settings at the touch of a button.



Seamless surgical workflow

With device and voice control, connected surgical devices respond to your immediate needs from the sterile field, giving you complete control.

- Customised annotations for anatomical labelling
- Customised device monitoring overlays
- Toggle through advanced imaging modalities at the touch of a button with device control

Elevated surgical content

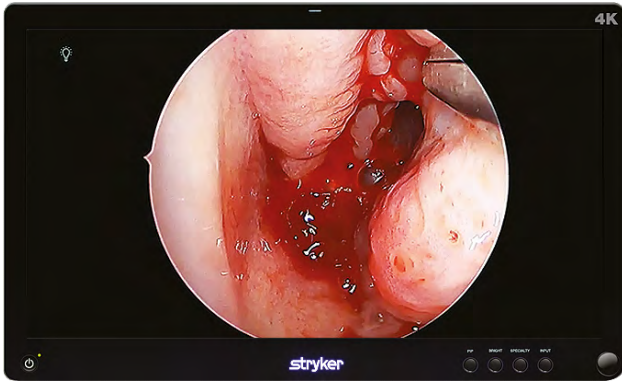
Enhance the patient experience with HD digital content labelled for better patient understanding with the MySDC3 iPad app.



Securely share surgical images and post operative instructions. Insert surgical images into a customised template containing your postoperative instructions with your facility data.

Streamline postoperative media management by storing images directly to the patient's chart.





Further enhance **your image in 4K**

32" 4K Surgical Display

- Optimises¹⁶ the visualisation of the 1588 Advanced Imaging Modalities (AIM): ENV, IRIS, Clarity, DRE & Desaturation
- 4X the resolution of a 1080p image
- 4K pixel density offers a bright colourful viewing experience
- Full integration with SDC3 to control surgeon profiles which include monitor settings and onscreen-displays for a consistent, seamless OR experience
- 10.5 kg allows for easy installation

Footnotes:

1. Source: Google and HIMSS Analytics, "Hospital Decision Makers Study," May 2013, n=74203 What are the factors that drive your decision to purchase?
2. Chan, Carmen. Medtech 360. 2015 Millennium Research Group. Published September 2015, page 19
3. Schlachta CM, Mamazza J, Gregoire R, Burpee SE, Poulin EC. Could laparoscopic colon and rectal surgery become the standard of care? A review and experience with 750 procedures. *Can J Surg.* 2003; 46:432-40.
4. Matthiessen P, Hallbook O, Andersson M, Rutegard J, Sjobahl R. Risk factors for anastomotic leakage after anterior resection of the rectum. *Colorectal Dis.* 2004;6:462-9.
5. Archer, Stephen et al. Bile duct injury during laparoscopic cholecystectomy. Results of a national survey. *Ann Surg.* 2001 Oct; 234(4): 549.
6. Brethauer, Stacy, et al. Risks and benefits of bariatric surgery: Current evidence. *Cleveland Clinic Journal of Medicine.* 2006: 73
7. Data on File: ECO21631
8. Data on File: ECO21929, 158% average luminance increase in test samples. Statistical difference detected between DRE on and off using a 1-sided paired t-test (p=0.049).
9. Data on file, Stryker Endoscopy ECO21929, "DRE AND POSTERIOR LIGHTING MARKETING CLAIMS".
10. Data on file, Stryker Endoscopy TR16427, "CAMERA DESATURATION TEST REPORT".
11. Data on file, Stryker Endoscopy ECO21631, "CLARITY PEAK SIGNAL-TO-NOISE RATIO VERIFICATION".
12. Parpala-Sparman T, Paananen I, Santala M, Ohtonen P, Hellstrom P. Increasing numbers of ureteric injuries after the introduction of laparoscopic surgery. *Scand J Urol Nephrol.* 2008;42(5):422-427
13. Anand et al. "Utility of intraoperative cystoscopy in detecting ureteral injury during vaginal hysterectomy". *Female Pelvic Med Reconstr Surg.* 2015 Mar-Apr;21(2):70-6.
14. Redan et al. "Protect the ureters". *JLS.* Apr-Jun;13(2):139-41. 2009.
15. Yeung, et al. Advances in endoscopic visualisation of colorectal polyps. 2011 Apr;13(4):352-9. doi: 10.1111/j.1463-1318.2009.02142.x.
16. Over 1080p, based on Advan Spec Sheet. 4K technology has 1,073,824 colors compared to 16,780,000 for HD

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