



अखिल भारतीय आयुर्विज्ञान संस्थान (एम्स) कल्याणी  
All India Institute of Medical Sciences (AIIMS) Kalyani  
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के तत्वावधान में एक सांविधिकनिकाय)  
(A Statutory Body under the Aegis of Ministry of Health and Family Welfare, GOI)  
राष्ट्रीय राजमार्ग - 34, बसन्तपुर, सागुना, कल्याणी, ज़िला - नदिया, पश्चिम बंगाल - 741245  
NH-34 Connector, Basantapur, Saguna, Kalyani, District Nadia, West Bengal 741245

**WEB CHALLENGE**

Page-01

To be uploaded in website:-

**Memo No. P-13020/1/21-(GeM Gen Sur)/267/366**

Date: 11.06.2021  
12

**Sub :** Procurement of **Stryker 1688 AIM-4K Laparoscopy with ICG and hand instrument set with SPY-PHY Machine set** for the department of General Surgery, AIIMS, Kalyani on Proprietary basis.

**Inviting Comments thereon.**

The department of General Surgery, AIIMS, Kalyani has requested for procurement of **Stryker 1688 AIM-4K Laparoscopy with ICG and hand instrument set with SPY-PHY Machine set** On Proprietary basis through **M/s. Stryker India Pvt. Ltd.**

The notice is being uploaded for general information of prospective Manufacturer/Authorized Distributor/Dealer to submit their objection/proposal/comments, if any on proprietorship of the item.

In case the product of any Manufacturer/Authorized Distributor/Dealer conforms to the enclosed specifications, they may submit their proposal for the supply of the same along with the brochures, point by point compliance of the enclosed specifications along with all documentary evidence. One quotation of the product may also be submitted.

The objection/proposal/comments, if any should be sent through email to [procurement@aiimskalyani.edu.in](mailto:procurement@aiimskalyani.edu.in) so as to reach on or before **dated 27/06/2021**. Failing which it will be presumed that no other firm is interested to offer comments/protest/object and case will be decided on its merits.

**Enclosures:**

- 1.) Proprietary Article Certificate from M/S. Stryker India Pvt. Ltd.
- 2.) Proprietary Article Certificate from Competent Authority, AIIMS, Kalyani
- 3.) Technical Brochure of the Instruments

*[Handwritten signature]*  
11/6/21



अखिल भारतीय आयुर्विज्ञान संस्थान (एम्स) कल्याणी  
All India Institute of Medical Sciences (AIIMS) Kalyani  
(स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के तत्वावधान में एक सांविधिकनिकाय)  
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NH-34 Connector, Basantapur, Saguna, Kalyani, District Nadia, West Bengal 741245


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Page-02

**Copy To:**

- |                      |                               |
|----------------------|-------------------------------|
| 1. Indenting Officer | : For kind information please |
| 2. PS to ED          | : For kind information please |
| 3. IT Cell           | : For kind information please |

  
Dy. FIC/FIC Procurement.  
AIIMS, Kalyani

  
ASO, Procurement  
AIIMS, Kalyani

Vatika Business Park  
10th Floor, Block- Two, Sect-49, Sohna Road  
Gurgaon- 122002, Haryana, India.  
t: +91-124-4850500, 600 f: +91-124-4850666

**stryker**

**PROPRIETARY CERTIFICATE**

We are hereby confirming that below mentioned product has an IRIS (Infrared Illumination System) feature and is the proprietary product of Stryker Corporation, USA. Manufacturing location details are given below:

Cat No.	Description	Manufacturing Location/ Distributed By
0220230300	L11 light source	Stryker Endoscopy, San Jose, USA

Stryker India is 100% subsidiary of Stryker Corporation, USA

**Signed and seal on behalf of Manufacturer**

**Deepak  
Sharma**

Digitally signed by  
Deepak Sharma  
Date: 2020.07.02  
21:32:02 +05'30'

**Stryker India Pvt. Ltd.**

Regd. Office: C-5, Safdarjung Development Area, Commercial Complex, New Delhi -110016.  
www.stryker.com CIN : U51505DL1999PTC100985





Novadaq Technologies ULC  
8329 Eastlake Drive, Unit 101  
Burnaby, British Columbia, Canada V5A 4W2  
T 604.232.9861 F 604.232.9841

February 20, 2020

### PROPRIETARY CERTIFICATE

Novadaq Technologies ULC, located at 8329 Eastlake Drive, Unit 101, Burnaby, British Columbia, V5A 4W2, Canada, certifies that the products mentioned below are proprietary products of Novadaq Technologies ULC, a part of Stryker Endoscopy.

#### SPY Portable Handheld Imaging (SPY-PHI) System

Item No.	Description
PC9001	Video Processor/Illuminator (VPI)
HH9030	SPY-PHI Handheld Imager
1-0011973	SPY-PHI Universal Box

#### PINPOINT Endoscopic Fluorescence Imaging System

Item No.	Description
PC9001	Video Processor/Illuminator (VPI)
PC9002	PINPOINT Camera
PC9004	PINPOINT Light Guide Cable
SC9104	Laparoscopes, standard length, 10 mm, 0 deg
SC9134	Laparoscopes, standard length, 10 mm, 30 deg
SC9144	Laparoscopes, standard length, 10 mm, 45 deg
SC9504	Laparoscopes, standard length, 5 mm, 0 deg
SC9534	Laparoscopes, standard length, 5 mm, 30 deg
SC9544	Laparoscopes, standard length, 5 mm, 45 deg
PC9017	No-Wrap Reprocessing Tray for two (2) Laparoscopes and one (1) Light Guide Cable
PC9018	No-Wrap Reprocessing Tray for one (1) Camera Head
CAB1090IN	Power Cable
1-0011975	PINPOINT International Box

#### SPY Fluorescence Imaging System

Item No.	Description
ND8010	Novadrape 8000 (Box of 10)
SP3055	SPY Fluorescence Imaging System 220V
013-00220-025	SPY Fluorescence Imaging System, Regional Box, India





Novadaq Technologies ULC  
8329 Eastlake Drive, Unit 101  
Burnaby, British Columbia, Canada V5A 4W2  
T 604.232.9861 F 604.232.9841

The following are products distributed by Novadaq Technologies ULC, a part of Stryker Endoscopy. These products are designed to be used specifically for Novadaq's SPY-PHI System and PINPOINT System.

**SPY Portable Handheld Imaging (SPY-PHI) System – accessories**

Item No.	Description
HH2020	SPY-PHI Drapes Only (Pack of 20)
HH1001	SPY-PHI Articulating Arm, Main Arm
HH1002	SPY-PHI Articulating Arm, Table Clamp
HH1003	SPY-PHI Articulating Arm, Imaging Head Holder

**PINPOINT Endoscopic Fluorescence Imaging System – accessories**

PC9017	No-Wrap Reprocessing Tray for two (2) Laparoscopes and one (1) Light Guide Cable
PC9018	No-Wrap Reprocessing Tray for one (1) Camera Head

February 20, 2020

Karena Dela Cruz  
Senior International Regulatory Affairs Specialist



(28) (119)

**AIIMS, KALYANI**

**Proprietary Article Certificate  
Valid for the Current Financial Year**

File No. and Date Reference :			
1	Description of article	Stryker 1688 AIM-4K Laparoscopy with ICG and hand instrument set with SPY-PHI Machine set	
2	Forecast of quantity /annual requirement	one	
3	Approximate estimated value for above quantity	One crore sixty five lac only	
4	Maker's name and address	Stryker India Pvt Ltd	
5	Name(s) of authorized dealers/ stockists	NA	
6	I approve the above purchase on PAC basis and certify that : - Note- Tick to retain only one out of (b), C-1) or (c-2) whichever is applicable and cross out others. Please do confirm (a) by ticking it - without which PAC certificate will be invalid.		
6 (a)	This is the only firm who is manufacturing / stocking this item. AND	Yes	
6 (b)	A Similar article is not manufactured / sold by any other firm, which could be used in lieu OR	Yes	
6 (c-1)	No other make/brand will be suitable for following tangible reasons (like OEM/ Warranty, spares.) : OR	NA	
6 (c)	No other make/brand will be suitable for following intangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since then to locate more sources) : OR	NA	
7	Reference of concurrence of finance wing to the proposal :		
History of PAC Purchase of this item for past three years may be given below :			
Name of the Supplier			
Order/ Tender Reference & Date	Quantity Ordered	Basic Rate on Order (Rs.)	Adverse Performance Reported if Any
Tata Memorial Hospital, Mumbai	1	Not available	Not available
Basavatarakam Indo-American cancer hospital and research	1	Not available	NO
AIIMS ,New Delhi	12 (Previous Model of 1588)	Not available	Not available

Signature of Approving Authority.....

Date..... 3/6/21..... Designation of Officer.....

Anindya Halder.  
Signature of the Indenting Officer

Assistant Professor.

General Surgery. 31/5/2021  
AIIMS-Kalyani.

# 1688 4K Platform

## GENERAL OVERVIEW

### 1688 AIM 4K Platform:

The 1688 AIM 4K Platform features several enhancements, such as brilliant 4K resolution and fluorescence, auto-light technology, better ergonomics and seamless standardization. Approved for use in a variety of specialties, including arthroscopy, laparoscopy, urology, gynecology, colorectal and ENT, the platform's vivid 4K display offers consistently bright, crystal-clear images for improved surgical visualization. The advanced system's L11 light source features Stryker's proprietary auto-light technology, which automatically corrects poor lighting in posterior compartments and self-adjusts based on anatomy.

### Features:

- **4K Fluorescence:** The 1688 AIM Platform is a native 4K system that includes the capability to perform real-time endoscopic visualization and near-infrared fluorescence imaging with activation control of SPY Modes from the camera head, including Overlay, ENV and Contrast. The 1688 AIM Platform is indicated for use during minimally invasive surgery using native 4K endoscope visible light as well as visual assessment of vessels, blood flow and related tissue perfusion, and at least one of the major extra-hepatic bile ducts (cystic duct, common bile duct and common hepatic duct), using near infrared imaging.
- **SPY Overlay:** Spy Overlay mode is best in class with an improved white-light image integrated with fluorescence in real time, no toggling necessary. This modality processes two white light images and inserts infrared in between to achieve an overlay on the white light image. Our color overlay is 2X faster than the average image; by collecting 120 frames per second versus the standard 60 frames per second.
- **SPY ENV:** Endoscopic near Infrared Fluorescent Visualization or ENV mode displays the image in a greyscale with green overlay. This fluorescence modality provides an enhanced visual assessment of blood flow, tissue perfusion, and biliary ducts when activated. Similar to 1588 ENV, but with improvements made to the gain, which makes this a great transition mode to use for any customers, familiar with 1588. With the 1688, surgeons are able to operate in ENV mode due to the improvements made.
- **SPY Contrast:** SPY Contrast is an incredibly detailed, high-contrast visualization of fluorescence. The image is displayed in black and white to provide a true "north" of perfusion.
- **IRIS:** The Stryker 1688 AIM 4K Platform includes an Infrared Illumination System (IRIS), designed to **trans-illuminate and visualize the ureters** during laparoscopic surgery.

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### Other features of the platform:

- **9 cross-specialty settings:** As with our previous generations, the 1688 AIM 4K platform is designed to provide outstanding white light visualization across all your minimally invasive surgeons within the hospital so that you can standardize to a single camera vendor for every specialty.
- **CMOS camera technology**
- **Programmable camera head buttons** allows further control from the sterile field and customization to improve efficiency.
- **Auto Light:** Auto-light technology maintains consistent light using a camera algorithm, which determines optimal lighting levels. The L11 rapidly adjusts the light output accordingly.
- **White Ring Technology:** The L11 Light Source has White Ring Technology to ensure the light cable is securely plugged in. There is an illuminated ring around the cable insertion point to indicate cable connection, safelight connection, and L11 power status.
- **Safelight Technology:** Designed to reduce the risk of OR fires, Stryker's proprietary Safelight Technology automatically shuts off the Stryker light source if the fibreoptic cable becomes disengaged from the scope.
- **4K Display:** Our latest display has a wider and more accurate colour gamut. It optimizes the visualization of the 1688 AIM 4K Platform by maximizing colour reproduction with 4x the resolution of a 1080p image

### High-definition medical video recorder

- It has provision to record the images and video sequences in OT.
- Should be compliant to Medical standards
- It should support wide range of recording resolutions  
1920 x 1080 (30Hz / 29.97Hz) to 640 x 480: Undiluted recording resolution  
Supported Input resolution
- It should have multiple HD & SD inputs/outputs
- Should have still image recording format of jpeg and video format of MPEG-4
- Display should be at least 3.5" LCD
- It should support recordable devices like USB Flash Drive, USB Hard Drive, Internal hard drive of 500 GB
- US FDA approved device

### TECHNICAL SPECS

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### 1688 Camera Console Unit

<b>Imaging System</b>	1/2.8" Progressive Scan CMOS Ultra-High Definition
<b>Scanning System</b>	Horizontal: 135.00 kHz Vertical: 60.00 Hz
<b>Video Outputs</b>	Two HDMI 2.0 outputs Formats: 1080p (HDTV), 4K UHD (3840 x 2160)
<b>Mounting</b>	Endoscope eyepiece used with C-mount coupler C-mount camera head used with C-mount scopes (C-mount coupler/scope thread: 1-32" UN 2A)
<b>Auto Shutter Range</b>	1/60 – 1/22,478 second
<b>Operating Conditions</b>	Temperature: 10–30 °C Relative Humidity: 25–75%
<b>Transport and Storage Conditions</b>	Temperature: -18–60 °C Relative Humidity: 15–90%
<b>Input Electrical Ratings</b>	100–240V~ 50/60Hz 1.2A
<b>Device Weight</b>	12.0 lb (5.44 kg) Camera Console 1.0 lb (0.5 kg) Camera Head (approximate weight)
<b>Dimensions</b>	Camera Console: 13.0" w × 4.458" h × 16.627" d (33.02 cm w × 11.32 cm h × 42.23 cm d) Camera Head Cable: 10 ft (3.05 m) sealed cable
<b>Classification</b>	Class I Equipment Continuous Operation Type BF Applied Part Ingress Protection, IPX7—Protected against the effects of temporary immersion in water (1688 Camera Heads)

### L11 Light Source with Advanced Imaging Modality

The L11 AIM Light Source and Safelight Cable are indicated for use to provide real-time endoscopic visible and near-infrared fluorescence imaging. The L11 AIM Light Source and Safelight Cable enable surgeons to perform minimally invasive surgery using standard endoscope visual light as

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well as visual assessment of vessels, blood flow and related tissue perfusion, and at least one of the major extra-hepatic bile ducts (cystic duct, common bile duct and common hepatic duct), using near-infrared imaging. The L11 AIM Light Source is also intended to trans illuminate the ureter during open or Laparoscopic surgical procedures.

## TECHNICAL SPECS

<b>Electrical:</b>	
Power Connection	100-240 V, 3.2 – 1.3 A
Frequency	50/60 Hz
Mains Fuse	T 5.0AH 250V
<b>Dimensions:</b>	
Width	12.5" (31.8 cm) width
Height	4.75" (12.1 cm) height
Depth	16.8" (42.7 cm) depth
Mass	16.0 lbs. (7.3 kg)
<b>Light Engine</b>	
Type	Red LED, Green LED, Blue LED, 808 nm Laser, 830 nm Laser
<b>Operating Conditions</b>	
Temperature	10-30 Degree Celcius
Humidity	25-75 %
<b>Laser Specifications</b>	
Laser	Emitted wavelength in ENV mode: 808 nm (Class 1M laser) Emitted wavelength in IRIS mode: 830 nm (Class 1 laser) Maximum output of laser radiation: Below Class 1M limit
<b>Classification and Approvals</b>	
	Class I Equipment Continuous Operation Type CF Applied Part Ingress Protection, IPX0—Ordinary Equipment Class 1M Laser Product Laser product classified per IEC 60825-1:2014, Safety of laser products – Part 1: Equipment classification and requirements This product complies with IEC 60825-1:2014 This product complies with 21 CFR, Subchapter J, Parts 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001

## 32" 4k Surgical Display

Our 32" 4K Surgical Display is designed to increase the visual experience in the operating room than with previous generations.

- Optimizes\_ the visualization of the Advanced Imaging Modalities.

*[Signature]*  
9/16/2021



- 4X the resolution of a 1080p image
- 4K pixel density offers a bright colorful viewing experience
- On-screen display with customized surgeon profiles

Relative Humidity Item		Description
LCD PANEL	Description	31.1" (812 mm) Diagonal
	Native Resolution	4096 (H) dots x 2160 (V) lines
	Display Colors	1,073,741,824 colors
	Pixel Pitch	0.1704 mm x 0.1704 mm
	Response time	Rise time: 11 ms Fall time: 9 ms
	Viewing angle	horizontal/vertical: 178°
Brightness and Contrast	Brightness	525 cd/m2
	Contrast	1500 : 1
Input & Output	Output	
	Input	
Temperature	1 x DVI 1 x HDMI (HDMI 1.4) 1 x HDMI 4K (HDMI 2.0) 1 x RS-232 (SPI router control) 1 x SDC device control interface (USB)	2 x USB (5 V, 1 A power only; not used for data transfer)
	Operating	50° – 104°F (10° – 40°C)
	Transport & Storage	0° – 140°F (-18° – 60°C)
Relative Humidity	Operating	25-75%
	Transport & Storage	15-90%
Electrical	Power Adaptor	Emitted wavelength in ENV mode: 808 nm (Class 1M laser) Emitted wavelength in IRIS mode: 830 nm (Class 1 laser) Maximum output of laser radiation: Below Class 1M limit

*9/6/2021*

Power Consumption		20-120 Watts
<b>Weight with Cable Cover (approximate)</b>		23.1 lb (10.5 kg)
<b>Unit Dimensions (W x H x D)</b>		756.7 x 453 x 77.2 mm 29.7 x 17.8 x 3 in
<b>VESA Mounting Interface Dimensions</b>		VESA 100 x 100 mm VESA 200 x 100 mm
<b>Accessory Mounting Interface Dimensions</b>		75 x 75 mm (x2)
<b>Current/Voltage Rating</b>	110V +/- 10V power outlets	Select a power supply cord that is UL Listed and C.S.A Certified, type SJT or SVT, 3 – conductor, 18 AWG, terminated in a molded on hospital grade plug cap rated 110V +/- 10V, 15A, with a minimum length of six feet.
	220V +/- 20V power outlets	Select a power supply cord that is internationally harmonized and marked "<HAR>", 3 – conductor, 0.75 mm^2 minimum wire, rated 220 V +/- 20 V, 10 A with a PVC insulated jacket. The cord must have a molded on plug cap rated 220 V +/-20 V, 10 A. The cord and plug cap must be suitable for medical use.

AIM Telescopes

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01/11/2021

- 5mm 0 & 30 Degree , 10mm 0 & 30 Degree AIM laparoscopes for Endoscopic Near Infrared (NIR) visualization.
- lens technology to enable visualization of fluorescent and near-infrared wavelengths
- Aspherical Lens Technology for minimized optical distortion
- Improved light transmission and edge brightness
- Laser welded enclosures for increased quality and durability

#### Insufflators 45L

Qty -1

- Min 45 liter of high flow & having LCD Display measurement
- Soft approach pressure control for safe recovery of abdominal pressure
- Should have four mode & visual and audible alarms with min 0.1 L flow rate
- Internal leakage detection capability
- Integrated Gas heating
- Having internal venting system for safety
- Should have video on screen display & Touch screen facility
- Unit should include heated tubing, hose & yoke
- With dedicated -Pediatric & Bariatric Modes

#### SPY Fluorescence Imaging technology for open procedure

##### 1. Video Processor and Illuminator (VPI)

The VPI shall be able to provide the VIS (visible) and NIR (near-infrared) illumination to the surgical endoscope via a flexible light guide simultaneously.

The VIS light source shall be consisted of light emitting diode array.

The NIR light source shall be consisted of NIR laser diode array.

The VPI shall be able to generate simultaneous real-time HD video color and ICG fluorescence images as an overlay in the same image.

NIR light source shall be triggered by the button on the camera.

It shall have an indicator in the monitor when NIR light source is on.

Video output signals: 2 HD-SDI, 1 DVI

It shall able to convert the video format between HD-SDI and 3G-SDI.

Output HD format: 1080i59.94, 1080p59.94

Picture elements: 1920 x 1080

Service port I/O: RS-232 (via D-subminiature 9-pin connector)

The device shall have four buttons at the front panel for quick operation and setting purpose:

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9/16/2021



Power on/off  
 Illumination button  
 White balance button  
 Menu setting

The device shall have three indicators at the front panel to indicate the following conditions:

Power indicator  
 Illumination indicator  
 Laser on indicator

An indication icon shall be shown on the monitor to indicate whether the white balance is completed.

The device shall be able to generate and display 4 different modes of images on the monitor simultaneously.

White Light mode - displays the image in white light  
 Black and White Fluorescence mode - displays the NIR Fluorescence image in greyscale and displays others in black.  
 NIR and VIS overlay mode - displays the NIR fluorescence which is superimposed in pseudo-color (green) on a white light image  
 Color-segmented Fluorescence mode - displays the NIR fluorescence intensities in a color spectrum that is superimposed on a white light image

Indication icons shall be shown on the monitor to differentiate the 4 modes of display.

Operating temperature: +10°C to +30°C

Operating Relative humidity: 10 to 85%

Storage/Transport conditions:

Temperature range (storage): -10°C to +55°C  
 Humidity range (storage): 10 to 85%  
 Humidity range (transport): 5 to 95%

Dimensions: 400mm x 200mm x 465 mm (WxHxD)

Weight: 13kg

Power consumption: 300 VA

Electrical safety:

According to IEC 60601-1  
 Type of protection against electric shocks: Class I  
 Degree of protection against electric shocks: CF-type

Laser class: 3R (According to IEC/EN 60825-1, Complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007)

Radio frequency emission: Group 1, Class A (According to CISPR 11/EN 55011)

Harmonic emissions: Class A (According to IEC/EN 61000-3-2)

Apertures for NIR radiation emission: Endoscope tip and light guide cable tip

Accessible NIR radiation (at the tip of the endoscope)

Wavelength: 805nm  
 Repetition rate: 20 pulse/ sec  
 Energy output(maximum): 2 mJ/pulse  
 Beam divergence: 75°+- 5°

 9/6/2021

Embedded Laser Source Classification: Class 4

## 2. Full HD Portable Handheld Imager

Image Sensors: CMOS HD sensor assembly

Resolution: 1080P

Frame rate: 60fps

Working distance: 10 - 40cm

Aspect ratio: 16:9 which can display captured images in widescreen monitor without any signal conversion. This prevents a loss of image quality caused by image ovalization.

Dimensions: 88mm x 136mm x 122mm (WxHxL)

Weight: 495g

Cable length: 3m

Operating temperature: +10 to +30°C

Atmospheric pressure: 70 kPa to 103 kPa

Storage/Transport conditions:

Relative humidity: 10 to 85%RH

Temperature: -10 to +55°C

The imager has twin anamorphic illumination ports to visually define FOV extent for the operator and ensure adequate illumination of anatomy irrespective of lighting conditions.

The imager is immune to ambient room lighting, which means room lights can be turned on during imaging.

The imager connects to the same VPI as the endoscopic camera to achieve MIS & Open fluorescence surgery in the same system.

The imager has a proprietary optional bed-mount arm to avoid fatigue of operator for long-term procedures.

The imager has a proprietary sterile drape so that it can be placed in the surgical field without contamination.

The imager shall have five buttons for quick functions and setting purpose

Two focus buttons for focusing the image

A button to toggle between VIS and NIR

A button to toggle between different modes of NIR

A button to call for menu functions

Basic functions including turning camera light on and off, white balance, screen capture and recording can be done using the buttons on the camera

The imager is not to be sterilized with any methods.

Optimized for simultaneous VIS (visible) imaging and fluorescent imaging in the NIR spectral range.

### Aluminum Sterilization tray

Tray for Camera & Light guide

2.20.1.1. Dimensions: 28cm x 10cm x 46cm (WxHxL)

*9/16/2021*

Tray for telescopes

2.20.2.1. Dimensions: 28cm x 10cm x 59.7cm (WxHxL)

#### **Articulating Arm**

- This arm is used to hold and position the camera head as per the surgical requirements
- This product has three components: the table clamp, the main arm and the imaging head holder
- The table clamp Provides an attachment point to the operating table side rail. Accepts and holds the column of the main arm in position and allows for full range of rotation.
- The Main Arm provides three-point positioning of the imaging head into the surgical field
- The imaging head holder Connects to the distal end of the main arm to provide an attachment point for the imaging head
- The arm is made up of metal with and has the ability to be sterilized for reuse through autoclaving

#### **7.0 Trolley**

- Trolley should be capable to mount above-mentioned system
- Should have space to keep CO2 cylinder
- Should have movable arm to mount monitor

**ALL ITEMS SHOULD BE US FDA CERTIFIED & EUROPEAN CE CERTIFIED FROM NOTIFIED BODY  
WARRANTY FOR 5 YEARS**

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9/6/2021





**The first**  
to fluorescence in 4K

**See** beyond



**stryker**

Introducing

**1688 AIM**

**4K Platform**



**The first**  
to fluorescence in 4K

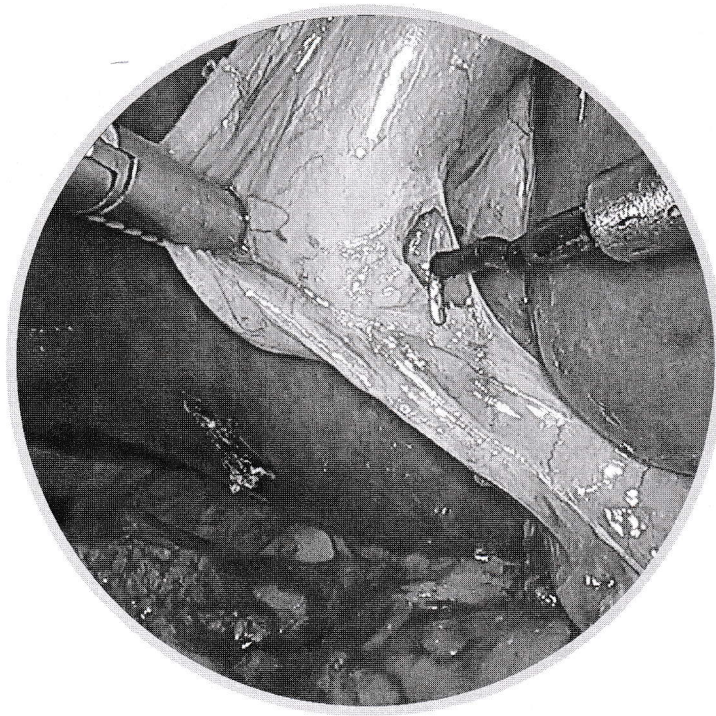
**See** beyond



**stryker**

# General Surgery

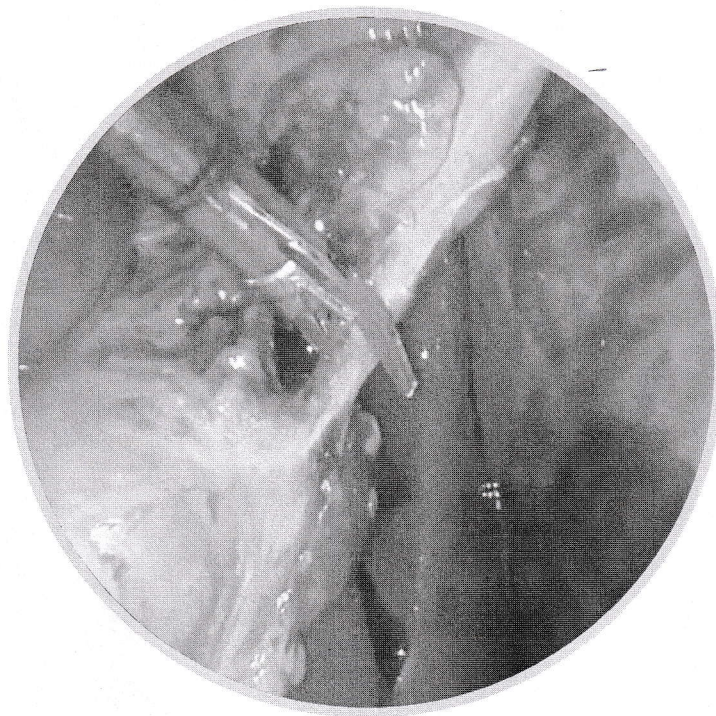
## Challenges



- Bile duct injuries present a real danger to patient outcomes
- Fluorescence requires separate camera systems
- Consistent lighting throughout the entirety of a case



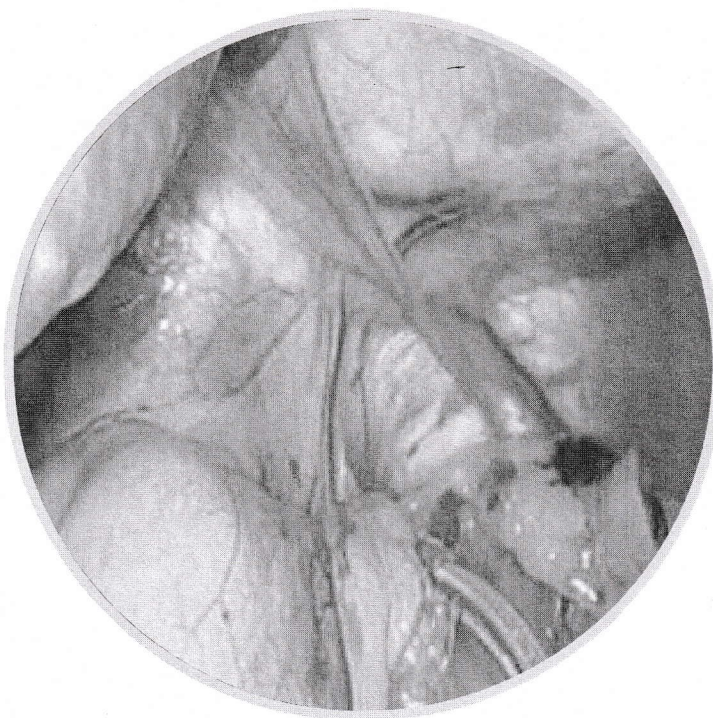
# General Surgery Solutions



- BDI rates reduced by 45% with use of fluorescence
- 4K resolution and SPY fluorescence, all in one system
- Consistent lighting throughout your procedure with automatic light adjustment

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## Bariatric Challenges



- 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%
- Fluorescence typically requires a separate camera system



## Bariatric Solutions



- Assess perfusion after anastomosis with **SPY fluorescence in 4K resolution**
- Assess fluorescence of ICG in the blood and assess blood flow to the staple line post anastomosis.
- **4K resolution** and **SPY fluorescence**, all in one system



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# Colorectal Challenges



- Rates of anastomotic leak in laparoscopic colorectal surgery range from 2.5-12%
- Ureteral injury accounted for 0.3% to 1.8% in lower pelvic procedures
- Fluorescence typically requires a separate camera system

# Colorectal Solutions



- Assess perfusion with SPY fluorescence in 4K resolution
- IRIS ureteral stents are designed to save time and reduce risk of ureteral injury
- 4K resolution and SPY fluorescence, all in one system



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# Gynecology

## Challenges



- Identification of the ureters in lower pelvic cases
- Smokey surgical view due to the use of cauterizing tissue
- Unique anatomy causes inconsistencies in lighting and inaccurate color reproduction



# Gynecology

## Solutions



- **IRIS ureteral stents** may save time and are designed to reduce risk of ureteral injury
- Improved deep pelvic lighting with auto-light
- Improved color reproduction for distinguishing anatomical variances with native 4k for every specialty



SS

stryker

4K

fluorescence

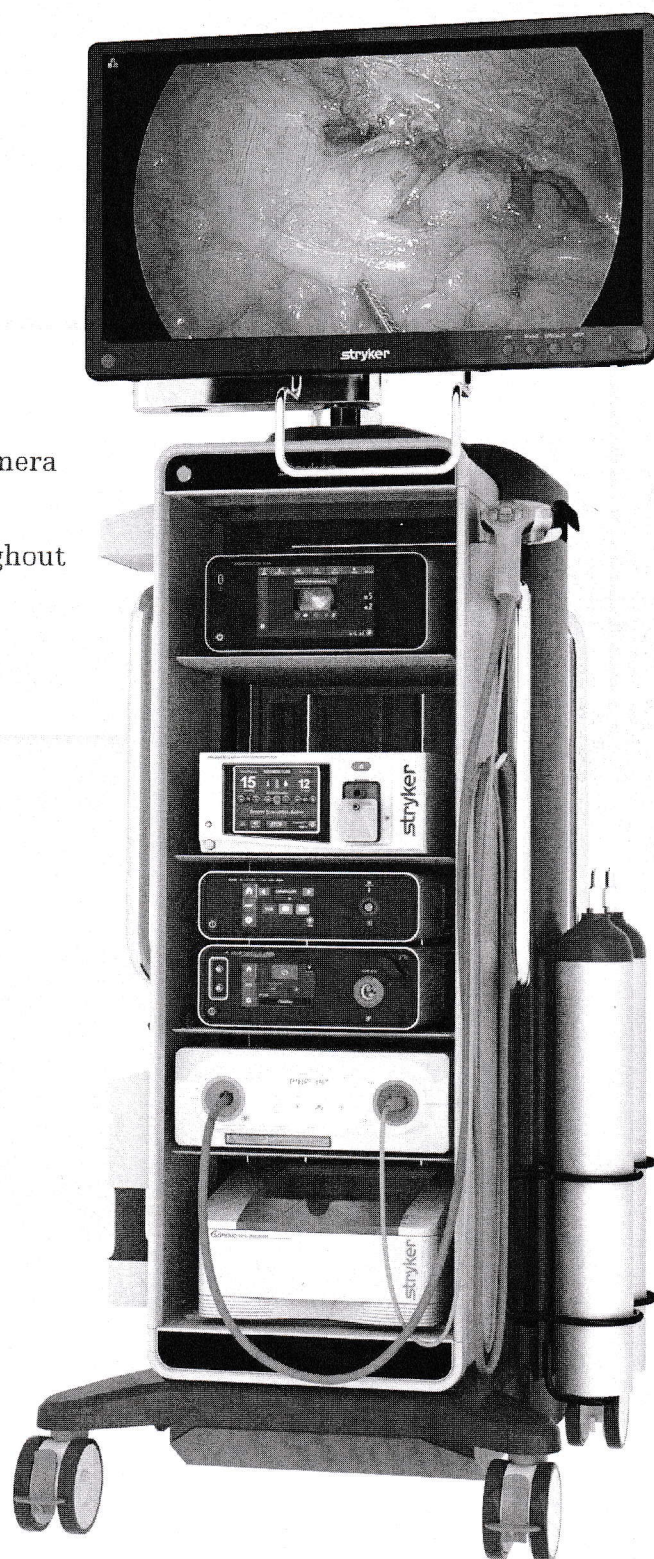
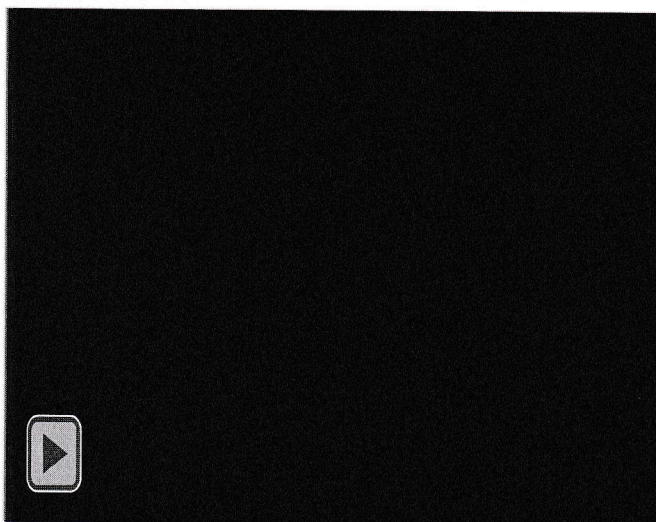
See your patients  
in a whole new light

Featuring:

- Clearer visualization with 4K resolution in camera and scope\*
- Bright auto-light for consistent lighting throughout procedure
- Brilliant 4K SPY fluorescence imaging

\* As compared to the 1539 AIM Platform

See beyond



← Previous

Next →



54

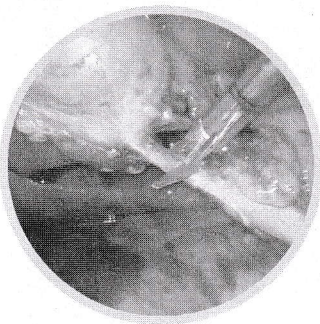
# 4K

fluorescence

## Why use fluorescence?

Blood flow is one of the most important factors in tissue healing. Fluorescence imaging with ICG means seeing beyond the naked eye, allowing the surgeon to visualize tissue perfusion and aim for the best patient outcomes possible. ICG has been proven in over 235 clinical articles to aid in the visualization of blood flow, potentially mitigating the risk of complications caused by poor perfusion. ICG is also utilized to identify biliary anatomy, providing confirmation and confidence in surgical decision making.

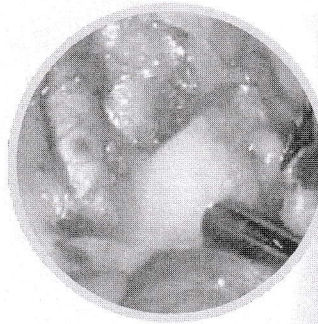
## Clinical applications of fluorescence



Clearer anatomy  
identification

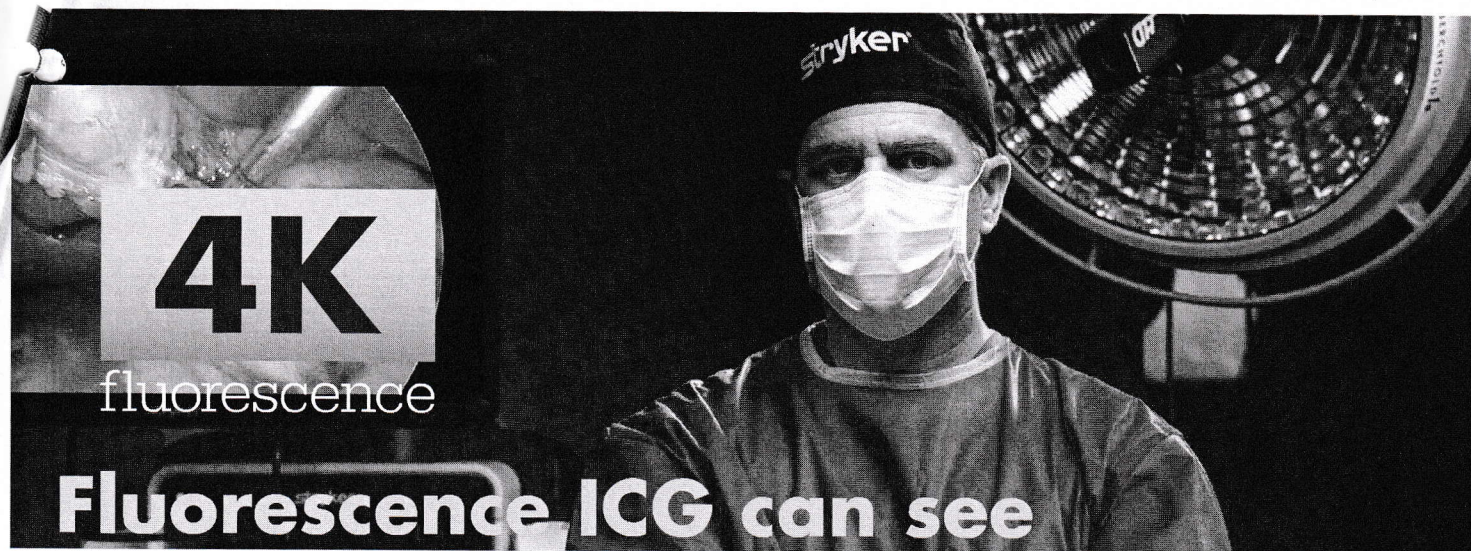


Perfusion assessment



SLN Mapping





# Fluorescence ICG can see what the eye cannot

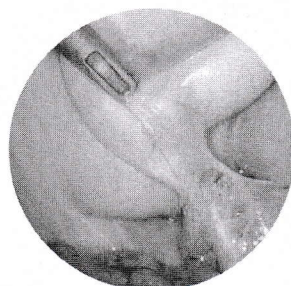
## Brilliance in SPY

See what's always been there, but from a new perspective. The Stryker 1688 AIM 4K Platform allows for real-time imaging of anatomy during surgery, with automated light control for a seamless workflow across multiple specialties. The Advanced Imaging Modalities allow surgeons to see beyond the pixels so they can provide optimal care for their patients.



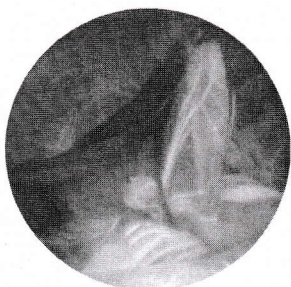
### SPY Overlay

4K fluorescence overlaid on a white light image



### SPY ENV

4K fluorescence displayed in grayscale and green



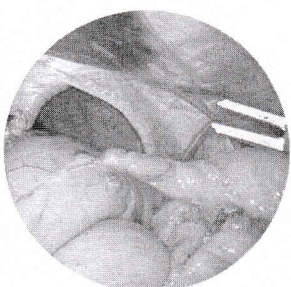
### SPY Contrast

High contrast visualization of 4K fluorescence in black and white



### IRIS

Lighted ureteral stents designed to mitigate the risk of ureteral injury



### AutoLight

Automatic light adjustment to maintain consistent lighting throughout procedure