



General Surgery

stryker

# SPY Fluorescence

## Imaging Technology

### Changing the Way You See Your Patients

The 1688 Advanced Imaging Modalities (AIM) 4K platform utilizes SPY Fluorescence Imaging Technology to assist in tissue perfusion assessment and critical anatomy identification.

#### Brilliant Visualization

Native Fluorescent 4K, designed to provide realistic color reproduction, results in a sharp, highly detailed image

#### Intuitive Functionality

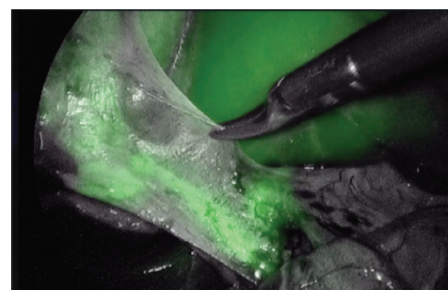
Customizable camera head button mapping for simple SPY mode toggling

#### Multiple Visualization Modes

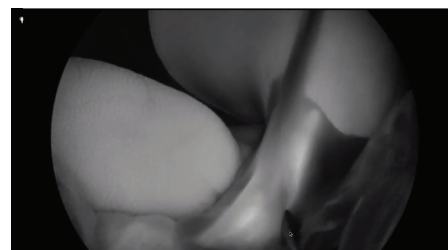
Combines enhanced fluorescence signal information to enable different viewing modes for use across multiple specialties



Overlay Fluorescence Mode



ENV Fluorescence Mode



Contrast Fluorescence Mode

See more. **Do more.**

# Identifying Critical Anatomy in General Surgery



## Clinical Impact

A clinical study attempted to understand the causes and prevention of laparoscopic bile duct injury<sup>1</sup>:

- The primary cause of error in 97% of cases resulting in Bile Duct Injury was a visual perceptual illusion, compared to 3% attributed to technical skill.<sup>1</sup>
- In Class III injuries, the common duct, erroneously believed to be the cystic duct, was deliberately cut.<sup>1</sup>

## Economic Impact

A separate study was conducted to estimate the average cost associated with both minor and major bile duct injuries<sup>2</sup>:

- It has been demonstrated that the rate of common bile duct injuries is significantly lower when routine imaging is used.<sup>2</sup>
- The mean cost per patient as related to in-hospital costs and loss of production<sup>2</sup>:
  - Minor bile duct injury - \$28,796<sup>2</sup>
  - Major bile duct injury - \$141,804<sup>2</sup>



# \$18,486

Average reported in-hospital cost per patient suffering a bile duct injury<sup>3</sup>

#### References:

1. Way LW, Stewart L, Gantert W, et al. Causes and prevention of laparoscopic bile duct injuries: analysis of 252 cases from a human factors and cognitive psychology perspective. Ann Surg. 2003;237(4):460-9.
2. Andersson R, Eriksson K, Blind PJ, Tingstedt B. Iatrogenic bile duct injury--a cost analysis. HPB (Oxford). 2008;10(6):416-9.
3. Bile Duct Injury cost originates from 2017 Medicare cost reports using Inpatient (ICD 10 PCS codes: S36.13XA(Injury of bile duct, initial encounter ) and S36.13XD (Injury of bile duct, subsequent encounter))

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