

stryker



One platform.
Endless possibilities.

1688 Advanced Imaging Modalities (AIM) 4K Platform

A comprehensive visualization platform
for surgical specialties

Introducing the future of visualization

Stryker's 1688 AIM 4K Platform is the first system with fluorescence imaging designed into the 4K platform. Everything is managed by the Connected OR Hub, giving you seamless connectivity to images, data, and specialists you need.

Now your surgical teams can see in greater detail than ever with superior image clarity, more accurate color reproduction, and enhanced light quality. And with 4K Fluorescence, we've taken visualization beyond the limits of any previous technology.*

Brilliant 4K display

Consistently bright,
crystal-clear images



Powerful and versatile CCU

Adapts to multiple
specialties

L11 LED Light Source with AutoLight

Improved light control
and maintenance*

Printer

Print from 4K or HD



Connected OR HUB

Total control of the
visualization system.
Allows for streaming,
capture, recording, and
printing in 4K.

PneumoClear all-inclusive insufflator

Smart inflow/outflow
management with
heated, humidified,
and smoke evacuation
all-in-one tube set.
Complies with ULPA
standard.¹

VPI

Enables visual
assessment of blood
flow, tissue perfusion
and lymphatics.

*Compared to previous generations

Lighting the path **to informed decisions**

Technical Specification

Imaging System	1/2.8" Progressive Scan CMOS, Ultra High Definition, 3-Chip Video Camera
Scanning System	Horizontal: 135.00 kHz, Vertical: 60.00 Hz
Video Outputs	Two HDMI 2.0 outputs, Formats: 1080p (HDTV), 4K UHD (3840 x 2160)
Mounting	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)
Auto Shutter Range	1/60 – 1/22,478 second
Operating Conditions	Temperature: 10–30 °C, Relative Humidity: 25–75%
Transport and Storage Conditions	Temperature: -18–60 °C, Relative Humidity: 15–90%
Input Electrical Ratings	100–240V~ 50/60Hz 1.2A
Device Weight	12.0 lb (5.44 kg) Camera Console 1.0 lb (0.5 kg) Camera Head (approximate weight)
Dimensions	Camera Console: 13.0" w × 4.458" h × 16.627" d Camera Head Cable: 10 ft (3.05 m) sealed cable
Classification	Class I Equipment, Continuous Operation, Type BF Applied Part Ingress Protection, IPX7—Protected against the effects of temporary immersion in water (1688 Camera Heads)

Ordering Information

Part Number	Description
Camera Control Unit	
1688-010-000	1688 4K Camera Control Unit with Advanced Imaging Modality (also referred to as "1688 Video Camera")
Camera Head	
1688-210-105	1688 4K Camera Head, C-Mount, with Advanced Imaging Modality
1688-610-122	1688 4K Camera Head, Integrated Coupler, with Advanced Imaging Modality
Coupler	
1688-020-122	4K Coupler, C-Mount, with Advanced Imaging Modality
Light Source	
0220-230-300	L11 LED Light Source with Advanced Imaging Modality
Light Cable	
0233-050-300	AIM SafeLight Fiber Optic Cable, 5.0 mm x 10 ft (3.05 m)
Monitors	
240-031-050	4k 32" Surgical Display
Laparoscope	
0502-537-010	AIM HD Laparoscope, 5.4 mm, 0°, 30 cm
0502-537-030	AIM HD Laparoscope, 5.4 mm, 30°, 30 cm
0502-937-010	AIM HD Laparoscope, 10 mm, 0°, 33 cm
0502-937-030	AIM HD Laparoscope, 10 mm, 30°, 33 cm

Why use **fluorescence**?

Blood flow is one of the most important factors in tissue healing. Fluorescence imaging with Indocyanine Green (ICG)** means seeing beyond the naked eye, allowing the surgeon to visualize circulation, including tumor perfusion, lymphatics and blood vessels as well as tissue perfusion to help achieve the desired patient outcomes in both adult and pediatric patients. Fluorescence imaging with ICG has been demonstrated in over 300 clinical articles to aid in the visualization of blood flow, potentially mitigating the risk of complications caused by poor perfusion.² ICG is also utilised to identify biliary anatomy, providing confirmation and confidence in surgical decision making.³



Every mode and setting is activated with the touch of a button on the 1688 camera head

SPY modes | Image capture | Brightness | Video capture | Zoom control | Zoom control



With Stryker AutoLight technology, you are never left in the dark. Automatic light adjustment maintains consistent lighting regardless of distance from tissue or subject. The 1688 AIM 4K platform features enhanced visualization, leading to confident surgical decision making.

** ICG is a drug and is not provided by Stryker but is independently sourced by the customer. The approval status of the drug may vary. Please determine the status applicable at your hospital or in your country and consult the manufacturer's instructions of the drug for specifications and use.

Reference:

1. As described in DHFD15109
2. 'SPY Fluorescence Imaging Bibliography, 1000903302 Rev B'
3. Zarrinpar A, Dutson EP, Mobley C, Busuttil RW, Lewis CE, Tillou A, Cheaito A, Hines OJ, Agopian VG, Hiyama DT. Intraoperative Laparoscopic Near-Infrared Fluorescence Cholangiography to Facilitate Anatomical Identification: When to Give Indocyanine Green and How Much. Surgical Innovation. 2016. DOI: 10.1177/1553350616637671.

Disclaimer: The information presented is intended to demonstrate the breadth of Stryker's product offerings. A healthcare professional must always refer to the package insert, product label and/or instructions for use before using any of Stryker's products. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker's products in your area.

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