



**VARYNA STK-300**

4k NIR/ICG Endoscopy Imaging System

# 4K NIR/ICG Endoscopy Camera Control Unit

## 4K Endoscope System STK-300

- Accurate overlay of fluorescent regions
- Conveys vivid details in visualization effectively
- Advanced technology for processing high-quality 4K images
- Integration of both still image and video capture functionality
- Smart control mechanisms for exposure & light sources
- Certification for safety standards at CF level

## 4K Native Camera STC-300

- 4K image sensor \*2
- High frame rate (60fps)
- Ergonomic design
- IPX7 waterproof design

## Medical LED Light Source STS-300

- Intelligent control over white & near-infrared light sources
- Utilization of LED technology
- High stability and long service light
- High color rendition
- Insert detection



# 4K Endoscopy Peripheral Devices



## Medical Insufflator STIF-200/STIF-300

- Dual Pressure Monitor, Dual Flow Control
- High Flow
- Smoke Evacuation & Heatable
- Effective Temperature Control



## Surgical Monitor STM-600/700/800

- Higher Color Depth & Wider Color Gamut
- Unique ACRe Technology
- Versatile Connectivity & Display Modes
- Medical Grade Hygiene-friendly



## Telescopes

- Working with the dual-combination endoscope using white fluorescent light, which offers a large depth of field ranging from 3mm to 200mm, fulfills the need for clear imaging at different observation distances during medical procedures.

Model:	STIF-200	STIF-300
Input voltage	100V~240V	
Input frequency	50/60Hz	
Input power	150VA	
Gas type	Medical CO2 gas (Purity 99.99%)	
Filter interface	Tapered connection, diameter Ø 15mm	
Pressure range	1mmHg~30mmHg	
Pressure mode	Mode: Small cavity (for Kid) Pressure:1-15mmHg Mode: Normal cavity (for Adult) Pressure:1-30mmHg	
Weight	≤11kg	
Size (L*W*H)	407mm*350mm*142mm	
Flow regulation range	0.1L/min--50L/min	0.1L/min--35L/min
Heating function	Yes	Yes
Smoke evacuation	Yes	No
USB foot switch	Yes	No
Other functions	Self-check when powered on Intake air filtration Over-pressure alarm	Over-pressure release Under-pressure supplement Pipeline blockage alarm

Sizes	27"   32"   55"
Resolution	3840*2160P (60Hz, 30Hz)
Port	12G-SDI,DVI   3G SDI*4,HDMI,12G-SDI   3G SDI*4,HDMI,12G-SDI,DVI
Viewing angle	horizontal 178°/vertical 178°

	4K ICG Laparoscope	4K ICG Laparoscope
Diameter	10mm	5mm
Viewing angle	0°/30°/45°	0°/30°/45°
Working length	≥344mm	≥344mm
Depth of field	3-200mm	3-200mm
Field of vision	80°	80°

**Full Imaging Chain**

- 4K@60fps Full Imaging Chain
- 4 times of full HD with 4k resolution
- 3840 x 2160 4k resolution

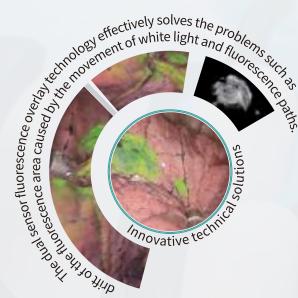
**BT.2020 Wide Color Range**

The BT.709 color range encompasses only 35.9% of BT.2020. When combined with 4K resolution, it can effectively portray intricate anatomical details, thereby enhancing the precision of surgical procedures.

**Precision Overlay**

White Light and Fluorescent Images, Precision Overlay.

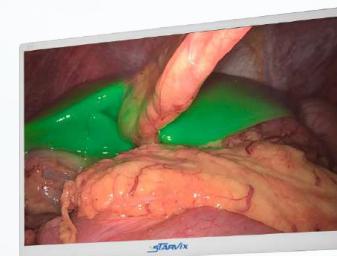
- 6-axis Active Alignment technology
- Super high precision image stereo algorithm

**Overlay Image**

Pure, delicate, and drift free, overlay image.

- 3D Noise Reduce algorithm
- 2D Noise Reduce algorithm

## 4K ICG Endoscopy Imaging System



Before Optimization



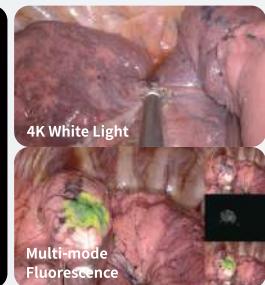
After Optimization

### Detail Presentation of the Overlay Area

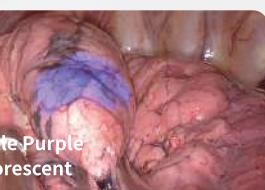
The exclusive dual-path image fusion algorithm effectively retains intricate organizational details within the fluorescent region of the overlay image.



Monochrome Fluorescence



4K White Light



Multi-mode Fluorescence



Traditional Green Fluorescence



Noble Purple Fluorescent

**Thoracic**

Lung segment identification, Nodule localization, Margin determination, and Lymph node tracing.

**Hepatobiliary**

Hepatic segment imaging, Microlesion identification, Lymph node tracing, Margin determination, and Biliary tract imaging.

**Urology**

Margin determination, Microlesion identification, Lymph node tracing.

**Gastrointestinal Surgery**

Margin determination, Nodule exploration, Lymph node tracing. Anastomotic assessment.

**Gynecology**

Margin determination, Lymph node tracing, Nodule exploration

## Application Departments