



Veterinary4K

Fluorescence Endoscopic Camera System



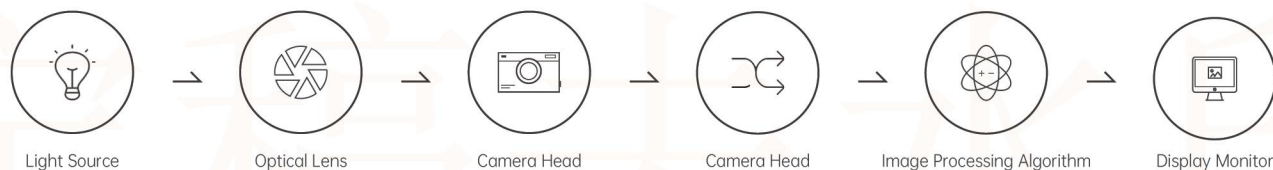
4K Fluorescence Imaging System

- The 4K fluorescence imaging system is an advanced surgical visualization solution that combines ultra-high-definition resolution with fluorescence imaging technology. It provides clear, real-time visualization of anatomical structures with enhanced tissue contrast, enabling safer and more precise surgical operations.
- By integrating multiple fluorescence color modes (including green, yellow, red, cyan, and others) and real-time image enhancement, the system supports intraoperative identification of vessels, lymph nodes, bile ducts, and tumors. Its triple-split screen and wide color gamut ensure accurate anatomical recognition and surgical navigation.

Applicable Surgical Fields

- **Hepatobiliary Surgery:** Ideal for bile duct visualization and liver segment navigation using ICG fluorescence. Helps surgeons avoid bile duct injury and perform precise hepatic resections.
- **Thoracic Surgery:** Used for lung segment identification, lymph node mapping, and fluorescence-guided thoracoscopic surgeries. Enhances accuracy in minimally invasive thoracic procedures.
- **Gynecology:** Assists in sentinel lymph node mapping and tumor localization in procedures such as endometrial or cervical cancer surgeries.
- **Gastroenterology:** Provides enhanced contrast for visualization of blood supply and tumors in gastrointestinal surgeries, including colorectal and gastric operations.
- **Urology:** Enables better identification of ureters, lymphatic structures, and tumors during procedures such as partial nephrectomy or bladder tumor resection.

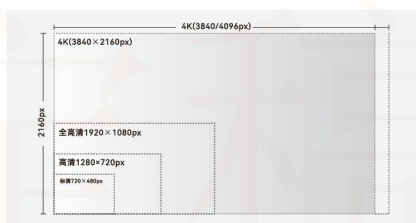
Veterinary4K Fluorescence Endoscopic Camera System



Main Features

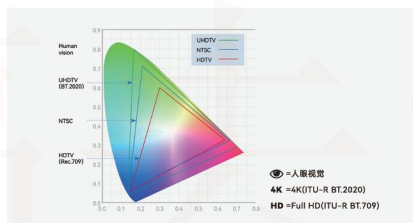
3840×2160 Ultra HD Resolution

Higher image detail enables clearer tissue differentiation and more precise surgical decisions. Fine anatomical structures (such as capillaries, nerves, etc.) are displayed with clarity, helping surgeons identify critical areas and ensure surgical precision during procedures.



BT.2020 Color Space

Closer to the color perception of the human eye, this spectrum provides more realistic tissue representation. It helps distinguish between tissues such as fat and muscle, enhancing surgical accuracy and confidence in navigation.



21", 27", 32" Inche Display Monitors

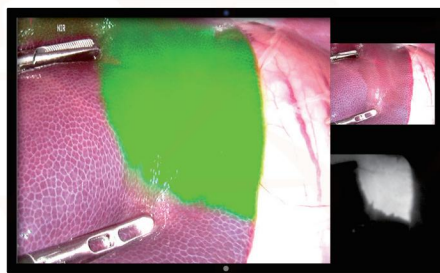
Immersive surgical visual experience suitable for different needs and preferences. These monitors feature electronic zoom and wide viewing angles, assisting surgical operations and enhancing precision.



Bottom Features

Fluorescence Imaging

Visualizes fluorescence signals to enhance anatomical structures and tissue contrast during surgery.



Triple-Split Display

Presents richer imaging layouts to provide comprehensive visual data during procedures.

6 Fluorescence Color Modes

Supports standard green, as well as red, yellow, blue, cyan, and purple fluorescence. Each color mode helps visualize different tissues with high accuracy and contrast, improving diagnostic confidence.

Adjustable Fluorescence Enhancement

ICG mode included. Enhances low-signal fluorescence visualization, improving the clarity of faint fluorescence areas during surgery.

UE 4K-R100 Configuration Sheet

Product Name	Description	Quantity
4K Image Processing Center 4K fluorescent camera image system (CIS-400) 	- Output Resolution: 3840×2160, 1920×1080 - Imaging Modes: Thoracoscopy, Hysteroscopy, Fiberscope, ENT - Image Adjustment: White balance, color, sharpness, brightness, digital zoom, customizable buttons, surgical mode, fluorescence mode, metering area, multi-screen, color enhancement, image enhancement, noise reduction etc..... - Signal Output: HDMI×2, 3G-SDI×4, HD-SDI×1	Advanced imaging center supporting various endoscopic modes with customizable image adjustment. Offers multiple simultaneous 4K video outputs.
Medical Endoscopic Light Source led+laser light source (LS-400) 	light + laser - Color Temperature: 5000K-6500K	brightness illumination for surgical procedures. Compatible with both white light and fluorescence imaging.
4K Ultra HD Camera Head (CH-01) 	- Zoom Range: f15-f35 - Operation: Supports 3 customizable physical buttons; functions include digital zoom, vascular enhancement, exposure correction, anti-fog, brightness boost, image correction, fluorescence display, snapshot, recording - Sterilization Method: Low-temperature hydrogen peroxide, ETO	Intelligent 4K camera head with multi-functional, programmable buttons. Supports a wide range of clinical imaging features. Sterilizable via multiple methods.
4K Display Monitor (MM-400) 	- Resolution: 3840×2160 - Aspect Ratio: 16:9	Medical-grade ultra-high definition display with real-time 4K image rendering and wide-angle visibility.
4K Fluorescent Scope, 5mm (FS-400-5) 	- Viewing Angle: 30° - Diameter: 5 mm - Working Length: 330 mm - Sterilization: Autoclave, Plasma, ETO	Specifically designed for thoracic procedures. Offers high-resolution imaging, fluorescence support, and compatibility with various sterilization methods.

UE 4K-R100 Configuration Sheet

Product Name	Description	Quantity
Coupler White light (CR-01) 	- 4K f18mm	High-resolution optical coupler for white light applications. Ensures optimal clarity and brightness for standard endoscopic procedures.
Coupler Fluorescence (CR-02) 	- 4K f22mm	Specialized coupler designed for fluorescence endoscopy. Offers enhanced sensitivity and clarity in fluorescence imaging environments.
light guide cable (LGC-01) 	- Length: 3m	Flexible and durable light guide cable used to transmit illumination from the white light source to the endoscope

Operation conditions

Item	Temperature Range	Relative Humidity	Atmospheric Pressure	Power Input
Parameter	5°C~40°C	30%~ 80% (non-condensing)	700 hPa ~ 1060 hPa	~220V.50Hz,2A

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