



Guangdong OptoMedic Technologies Inc

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FloNavi 2100

HD Fluorescence Navigation System

FIONavi

Fluorescence Navigation System

Crystal Clear White Light

More Sensitive Fluorescence

Multi Image Modes

Interstation Section 3 Sect A new Era of surgical Visualization

01 Fluorescent Dye - ICG(Indocyanine Green)

- FDA Approved for Decades, it's Safe, Cost-effective, wide application range
- Intravenously Injection enable ICG to enter circulatory and lymphatic circulation
- Be excited with NIR(Near-infrared)after get bonded with Plasma Proteins

02 Imaging Principle







After receiving Excitation NIR with 805 nm Wavelength 835 nm Fluorescence signal will be Emitted



FloNavi system captures the emitted fluorescence signal, and overlap it on the white light image, to achieve accurate, real-time surgical visualization guidance

OptoMedic

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• 1920*1080P

Satisfy all regular General surgery

• Offers more accurate qualitative Fluorescence signal for latter stage of surgery, especially when ICG has already diffused for a while

Pseudo-Color Fluorescence Mode

- I CMOS Especially for Fluorescence • Seamless Fluorescence and
 - WL merging
- Without Changing Surgeons' surgical manner

Multi-Display Mode

White Light, Gray-scale/Pseudo-Color/Segmented Fluorescence Mode appears on the same screen

02 Excellent Fluorescence

- Low Latency time
- Extremely Sensitive
- True to Life color
- No Flickering Screen

01 Crystal Clear White Light

- Innovative 4 CMOS Technology, 1920×1080P
- Details Enhancement Technology, unique Algorithm brings more details to the image

Innovative Technology, **Advanced Tool for precise MIS**

Standard White Light Mode

3 CMOS WL Imaging



Segmented Fluorescence Mode







03 Multi Image Modes

- Standard White Light, Pseudo-Color Fluorescence Mode, Segmented Fluorescence Mode and Multi-Display Mode
- One Button Pressing can switch Image modes easily by Surgeons

Fluorescence Imaging Technology clinical applications

Vascular Perfusion Assessment, Lymph Nodes Mapping, Parenchyma Visualization, Tumor Identification, Biliary Duct Visualization and NerveVisualization

Clinical Indications for ICG guided Surgery



Hepatobiliary Surgery

- Intersegmental plane marking for Anatomical liver segmentectomy
- Primary hepatic carcinoma Location and Boundary define
- · Intraoperative complex biliary tract realtime imaging
- Assessment for bile duct anastomosis in liver transplantation





ICG staining during Hemi-hepatectomy



Thoracic Surgery

- Visualizing Pulmonary intersegmental Plan during Anatomical pulmonary segmentectomy
- Blood supply assessment for Anastomosis after Esophagectomy
- Mediastinal Lymph Nodes Mapping for Lung cancer staging



Gynecology

- · Sentinel Lymph Nodes Mapping of Cervical cancer and Endometrial Cancer
- All Lymph Nodes Mapping of Cervical cancer and Endometrial Cancer
- · Sentinel Lymph Nodes mapping of Vulval cancer





Pelvic Lymph Nodes mapping

Sentinel Lymph

Nodes visualization

Hepatic liver boundary marking



- · Visualizing Boundary of Renal parenchymal tumor Mapping Lymph nodes of prostatic cancer and Bladder Cancer
- Mapping Lymph nodes of Penile cancer



Gastrointestinal Surgery

- Gastric or Colorectal Lymph Nodes Mapping
- Assessment of Anastomosis perfusion
- Gastrointestinal Cancer Localization



Configurations and Specifications





| ltem | Model | Specifications |
|-----------------|-----------------------------------|--|
| Imaging System | OPTO-CAM2100 | The imaging system is consisted of : 4 CMOS HD Cameras which can capture White light and Near-infrared light at the same time; The white light resolution is 1920x1080P Our system offeres a seamless, and maximum 50 FPS Fluorescence light and White light emerging Surgeons will have a no flickering and Crystal Clear HD Images on the screen, meantime we offer an embedded USB interface on our Imaging system, which offers real-time Picture capture and Video recording function, just by pressing One Button |
| Light Source | OPTO-LED2100 | Dual LED Light Sources offer visible white light and near-infrared light |
| Medical Display | Medical HD display | • 26 inches, 1920 × 1080P |
| Endoscope | Laparoscope, Thoracoscope, etc | • HD fluorescence, 0/30 degrees |
| Surgical Cart | MTR-S100 | / |

OptoMedic reserves the right of final interpretation for parameters and configuration above. The parameters and indexes shall be subject to change without notice. In the case of any discrepancy, please refer to the technical document.

Company Profile

Guangdong OptoMedic Technologies Inc. is a high-tech company committed to providing high-performance medical devices and services utilizing cutting-edge optical and bio-optical technologies in the medical field.

OptoMedic was founded in July 2013 by a coalition of multidisciplinary experts in medical, biomedical, engineering, quality assurance as well as regulatory affairs. Dedicated to technological innovations, we provide our customers with an array of high-end medical devices, among which the intraoperative endoscopic fluorescence navigation system has become a global leader and been widely used across many departments in general surgery.

OptoMedic has subsidiaries and R&D labs in Suzhou, Beijing, Changsha, Wuhan, and aspires to be at the forefront of medical technology development through multidisciplinary collaborations with renowned research and clinical institutions including Tsinghua University, Suzhou Institute of Biomedical Engineering and Technology, Chinese Academy of Sciences, Peking University School of Pharmaceutical Sciences and tier-I teaching hospitals in China.



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