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GUANGDONG
OPTOMEDIC TECHNOLOGIES, INC.

广东欧谱曼迪科技有限公司

www.optomedic.com

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4K

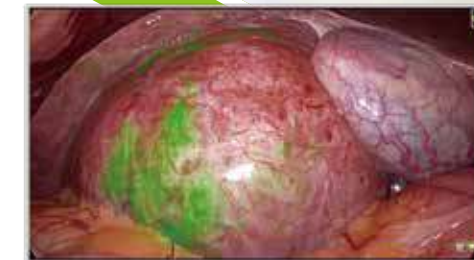
Endless Pursuit of Precision

Ultra-clear Fluorescence
Navigation Endoscopy System

Dual-camera



4CMOS Technology



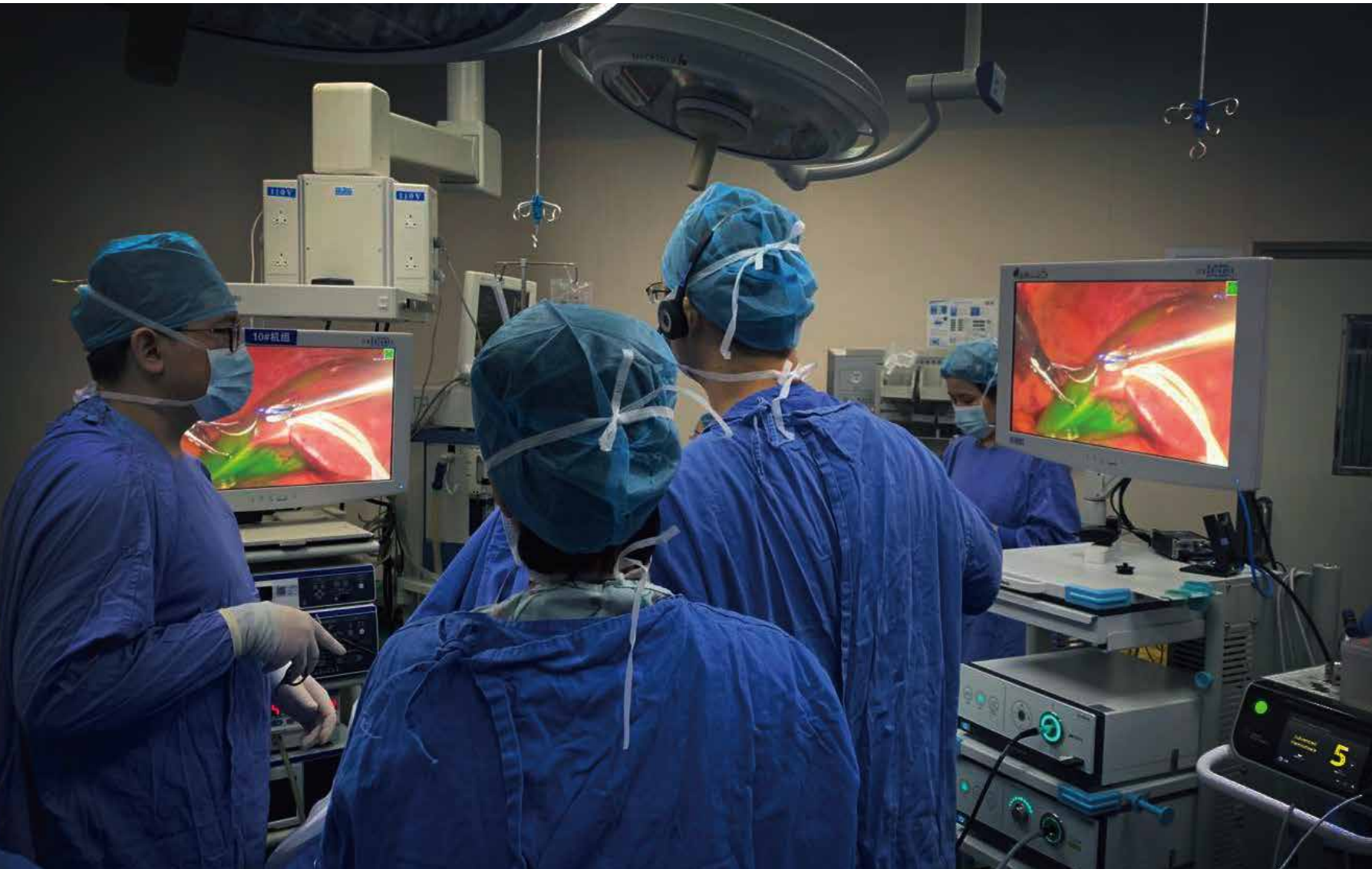
COMPANY PROFILE

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 or 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-1 teaching hospitals in China.

PRODUCT SERIES



- *FloNavi® 2100 Fluorescence Endoscopic Imaging System*
- *FloNavi® 3100 Fluorescence Open Surgery Imaging System*
- *FloNavi® 214K 4K Fluorescence Endoscopic Imaging System*
- *WhtNavi® 104K 4K White Light Endoscopic Imaging System*

FloNavi® 2100 Fluorescence Endoscopic Imaging System

Fluorescence navigation - leading the new era of functional imaging

01 Fluorescent Agent-ICG

- ICG, Indocyanine Green Dye, featured with no side effects, wide application, and low cost, has been clinically approved by FDA for many years.

02 Imaging Principle

- ICG enters the human lymph and blood circulation through tumor surrounding tissue or intravenous injection.
- It binds to protein in blood and after exposed to NIR with a wavelength of 805 nm, proteins will emit fluorescence signal with a wavelength of 835 nm.
- FloNavi®2100 will capture the signal, and fuse the signal onto white light imaging in real-time, to achieve the goal of :

- Lymphatic System Mapping
- Tissue Perfusion Assessment
- Accurate Tumor Boundary Localization

| FEATURES

01 Brilliant High-definition Imaging

- Innovative 4CMOS technology with a resolution of 1920x1080P.
- Vividly colored and high contrast images brought by enhancement technology with unique Dual-Camera and algorithms.

02 The precision fluorescence imaging system

- Innovative coating treatment and premium optics bring ultra-high sensitivity.
- Provide a clear, bright image without flickering or delay.

03 Imaging modalities

- Standard White Light Mode, Standard Fluorescence Mode, Pseudo-Color Fluorescence Mode and Multi-Display Mode.
- Switch mode by pressing the camera button, which is extremely convenient to use.

| CONFIGURATION AND PARAMETERS

Item	Model	Parameters Specification
Imaging System	OPTO-CAM2100	The imaging system is featured with: 4CMOS HD CMOS that can capture white and near-infrared light images at the same me; fusing white light with fluorescence imaging; 60 Hz; HD pictures and videos can be instantly captured and recorded via the USB.
Light Source	OPTO-LED2100	A dual-light source with LED visible light and near-infrared light.
Medical Display	Medical HD display	26/27 inches, 1920 × 1080P
Endoscope	Laparoscope, Thoracoscope, etc.	HD fluorescence, 0/30 degrees
Surgical Cart	MTR-S100	/

FloNavi® 3100 Fluorescence Open Surgery Imaging System



Industry-leading Innovative **4CMOS** Technology

FloNavi® 3100 camera head is compatible with FloNavi® 2100 HD Fluorescence Endoscopic System.

| FEATURES

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03 Imaging modalities

- Standard White Light Mode, Standard Fluorescence Mode, Pseudo-Color Fluorescence Mode and Multi-Display Mode.
- Switch mode by pressing the camera button, which is extremely convenient to use.

| CONFIGURATION AND PARAMETERS

Item	Model	Parameters Specification
Imaging System	OPTO-CAM3100	The imaging system is featured with: 4CMOS HD sensor that can capture white and near-infrared light images at the same time; Fusing white light with fluorescence imaging; 60 frames/second; HD pictures and videos can be instantly stored and recorded via the USB output.
Medical Display	Medical HD display	26/27 inches, 1920x1080P
Surgical Cart	MTR-S100	/

FloNavi® 214K 4K Fluorescence Endoscopic Imaging System



True real 4K Ultra HD Fluorescence

Brilliant High-definition Imaging

- Innovative 4CMOS technology with a resolution of 3840x2160P;
- Vividly colored and high contrast images brought by enhancement technology with unique algorithms.

The precision fluorescence imaging system

- Innovative coating treatment and premium optics bring ultra-high sensitivity.
- Provide a clear, bright image without flickering or delay.

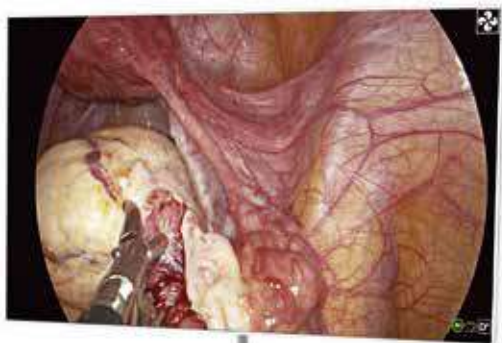
| FEATURES

- **White Light Mode**
 - 4K white light imaging with a resolution on of 3840x2160P, 50Hz/60Hz.
- **Standard FL Mode**
 - NIR sensing through a separate optical path and camera.
 - Fluorescence imaging fused onto standard white light imaging.
- **Color Scale FL Mode**
 - The time-varying spatial distribution of the fluorescence reagent is captured and displayed in pseudo-color, to highlight the region of interest.
- **Multi-display Mode**
 - Simultaneous display of the standard WL and Fluorescence mode, as well as the Simultaneous display of the standard WL and Fluorescence mode, as well as the Mono-Fluorescence mode.

| CONFIGURATION AND PARAMETERS

Item	Model	Parameters Specification
Imaging System	OPTO-CAM214K	The imaging system is featured with: 4K HD sensor that can capture white and near-infrared light images at the same time; 3840x2160P; fusing white light with fluorescence imaging;60 frames/second; HD pictures and videos can be instantly stored and recorded via the USB output.
Light Source	OPTO-LED214K	A dual-light source with LED visible light and near-infrared light.
Medical Display	4K Display	32 inches, 3840x2160P
Endoscope	Laparoscope, Thoracoscope, etc.	4K fluorescence, 0/30 degrees
Surgical Cart	MTR-S100	/

WhtNavi® 104K 4K White Light Endoscopic Imaging System



4k Ultra HD Endoscope Modular Platform

Auto-adaptive Light Adjustment

- There is no need to frequently adjust the light intensity, adapt to all surgeons.

Optimized algorithm to reveal more details and provide clear image

- Drive unique optimization algorithms through intelligent analysis to efficiently optimize image's clarity, color, contrast, and details.

FUNCTIONS

01 Brilliant High-definition Imaging

- 4K 3CMOS technology with alternative resolution of 3840*2160P, 4096*2160P; Vividly colored and high contrast images brought by enhancement technology with unique algorithms.

02 Advanced Imaging Enhancement

- W+: Brightness Enhancement for Dark Field
C+: Color Enhancement
D+: Details Enhancement

03 Adaptive Light Source Adjustment

- There is no need to frequently adjust the light intensity, adapt to all surgeons.

CONFIGURATION AND PARAMETERS

NO.	Item	Mode/Specification
01	Image Processing Unit	OPTO-CAM104K
02	4K white light manual camera head	OPTO-CHD104KH
03	Light source	OPTO-LED104K
04	Monitor	32"/55"
05	Endoscope	0° /30°
06	Surgical cart	MTR-S100