

New Generation Endoscope System

7000 SYSTEM **NEW**

ELUXEO



FUJIFILM



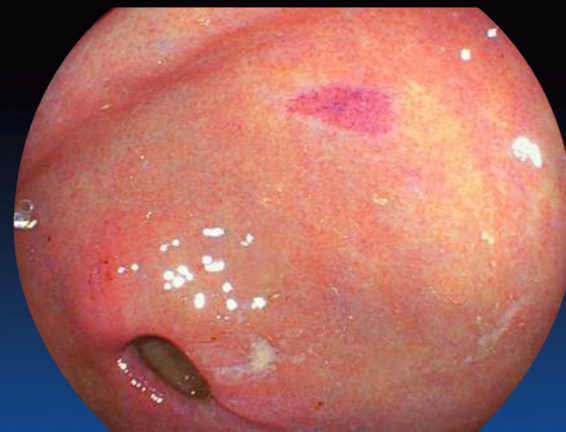


This is a simulated image. Actual image will differ.

Welcome to BLI & LCI World



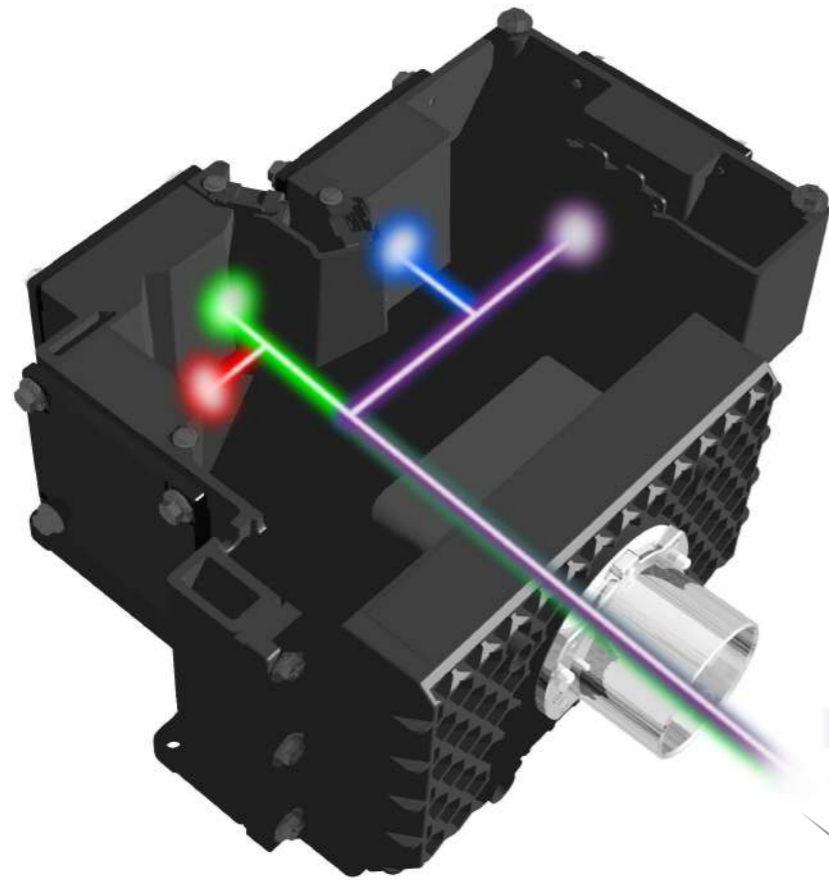
BLI Blue Light Imaging



LCI Linked Color Imaging

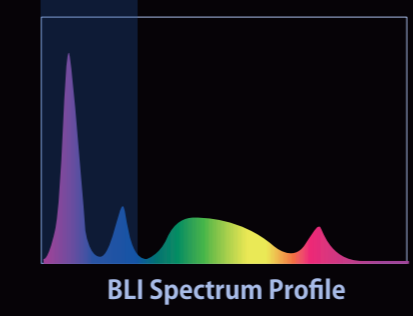
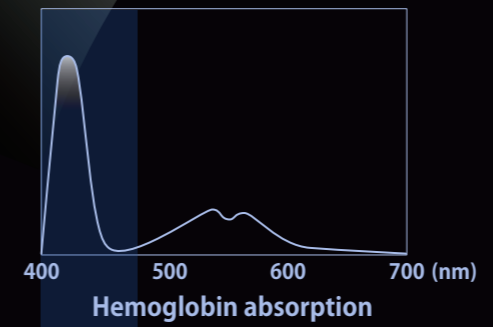
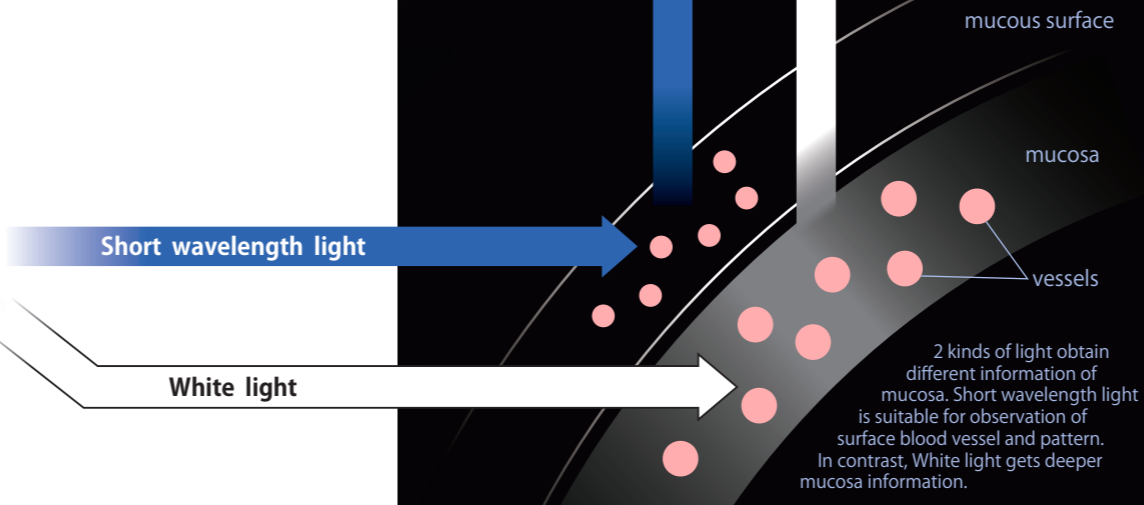
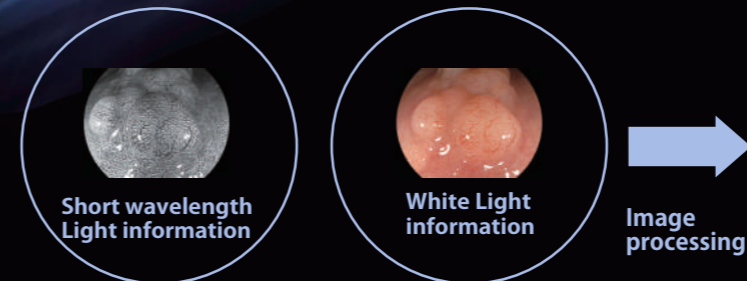
- Superior Diagnosis
- Superior Usability

Superior Diagnosis



Multi-Light Technology

High-intensity 4 LED lights are controlled independently with high accuracy. Blue LED creates short wavelength light, Red/Green/Blue LED are combined as white light. Short wavelength light and white light are invented on 7000 system.

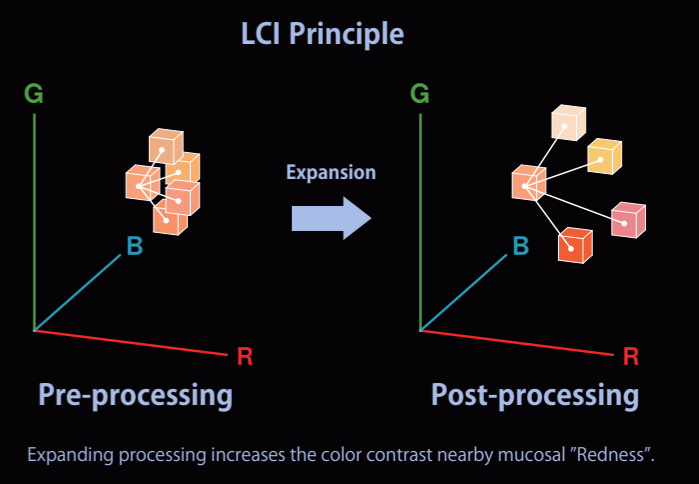


Short wavelength light around 410 nm is strongly absorbed by hemoglobin.

White Light

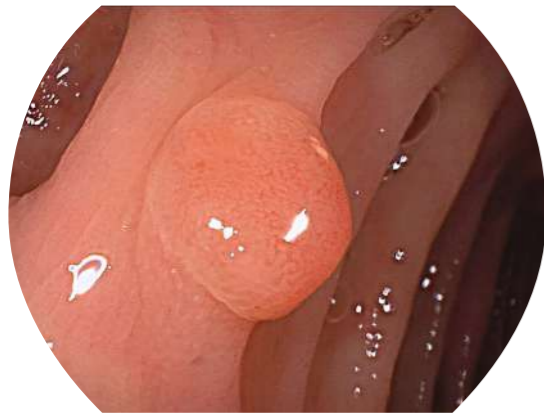
BLI

LCI

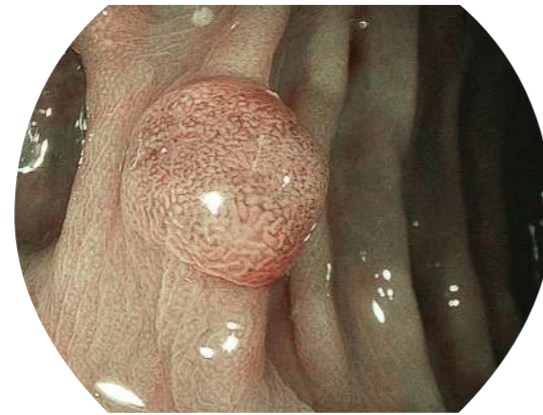


1 BLI (Blue Light Imaging) 

Colon

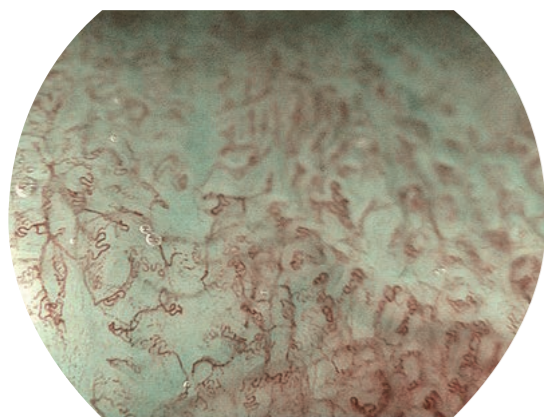


White Light mode



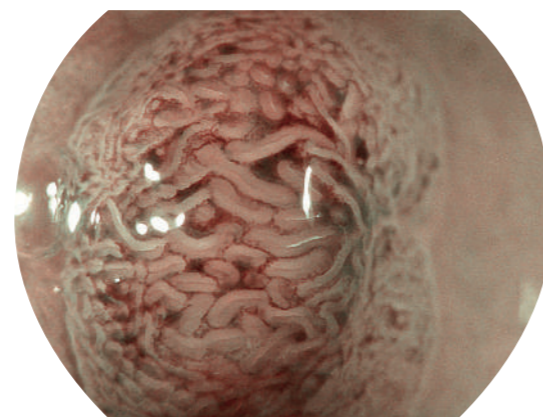
BLI mode

Esophagus



BLI mode

Colon



BLI mode

High contrast images suitable for observing microvascular and microsurface pattern are provided. Magnifying endoscopy is excellent with BLI.

2 LCI (Linked Color Imaging) 

Stomach

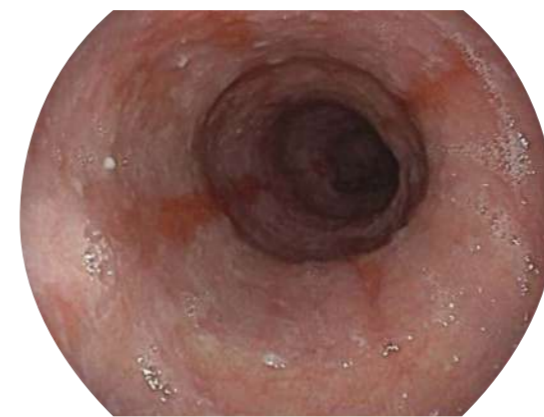


White Light mode

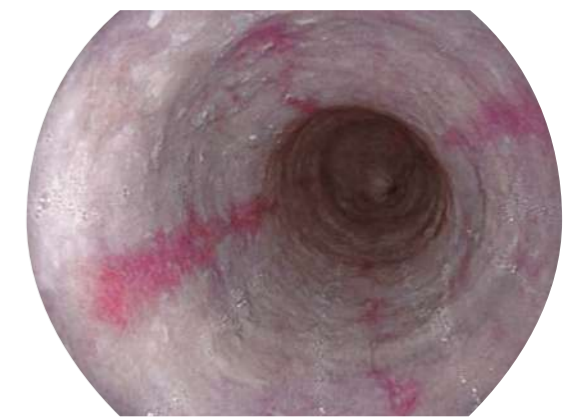


LCI mode

Esophagus



White Light mode

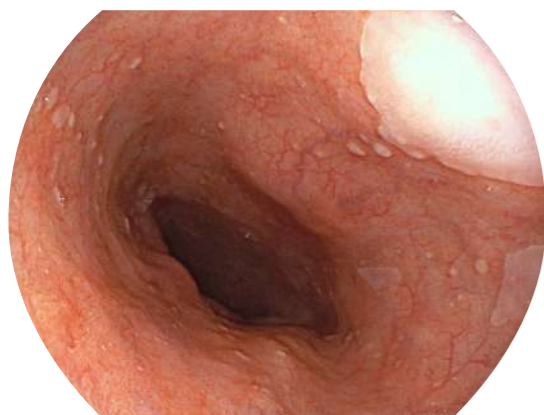


LCI mode

LCI would be helpful for detection with surface pattern and vessels. Slight color difference is visualized with natural tone, using "Red" component.

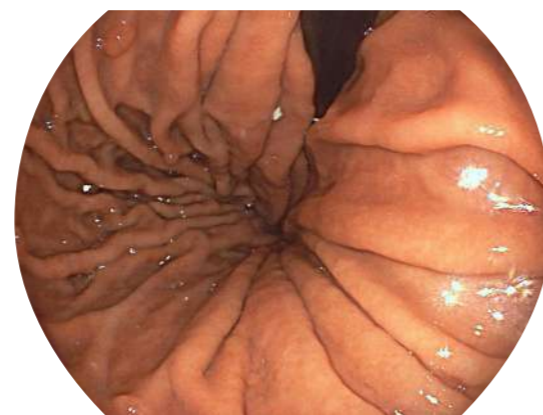
White Light

Esophagus



White Light mode

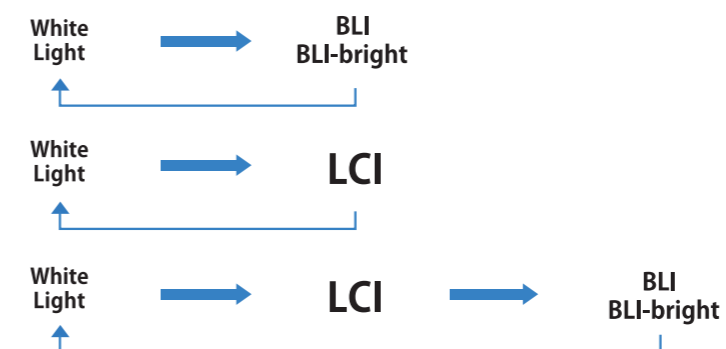
Stomach



White Light mode

Bright, sharp, and stereoscopic images are accomplished with similar color tones to Xenon light source. Mega-pixel CMOS enables high-definition and quite low-level noise compatible.

Observation modes can be switched by scope button.

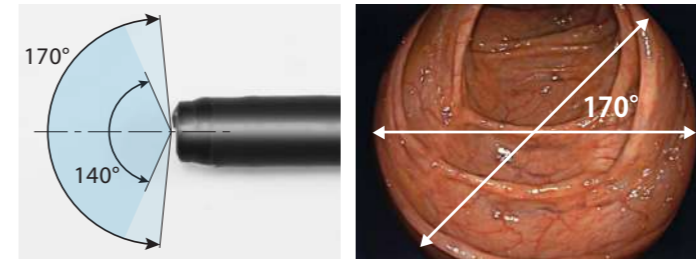


Scope button "2" enables observation modes to be switched in the default setting.



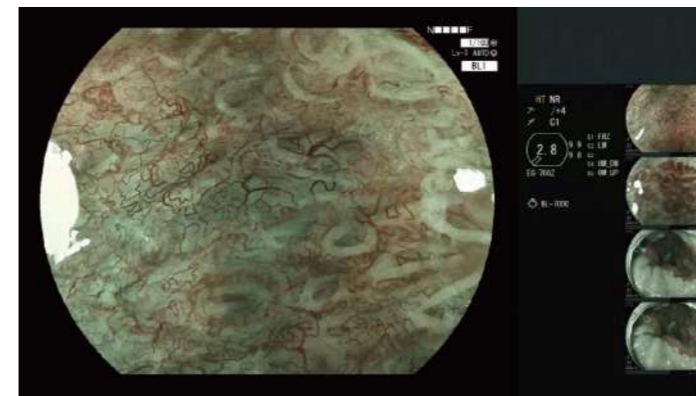


3 Wide 170° field of view



Wide 170° field of view is available with EC-760R-V. Even areas that are hard to observe such as the reverse side of folds could be observed and approached smoothly.

4 Megapixel CMOS + HDTV output



Full HD display

High-definition images with quite low noise level are established by Megapixel CMOS sensor. It allows superior visualization for Full HD display.

5 Multi Zoom

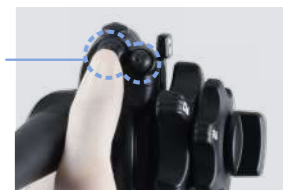
Zoom function

| Magnification Mode | | Normal | Low | Middle | High | Maximum (x145*) |
|--------------------|--------|---------------------------------------|-----|--------|------|-----------------|
| Step zoom | 2 Step | [Progress bar from Normal to Low] | | | | |
| | 3 Step | [Progress bar from Normal to Middle] | | | | |
| | 5 Step | [Progress bar from Normal to Maximum] | | | | |

*When using a 26 inch HD LCD monitor

Multi Zoom function are equipped on EG-760Z / EC-760ZP-V. With Continuous mode, Step Zoom mode of "2 Step", "3 Step" and "5 Step" are available. In this modes, images can be magnified in stages by simple press of button.

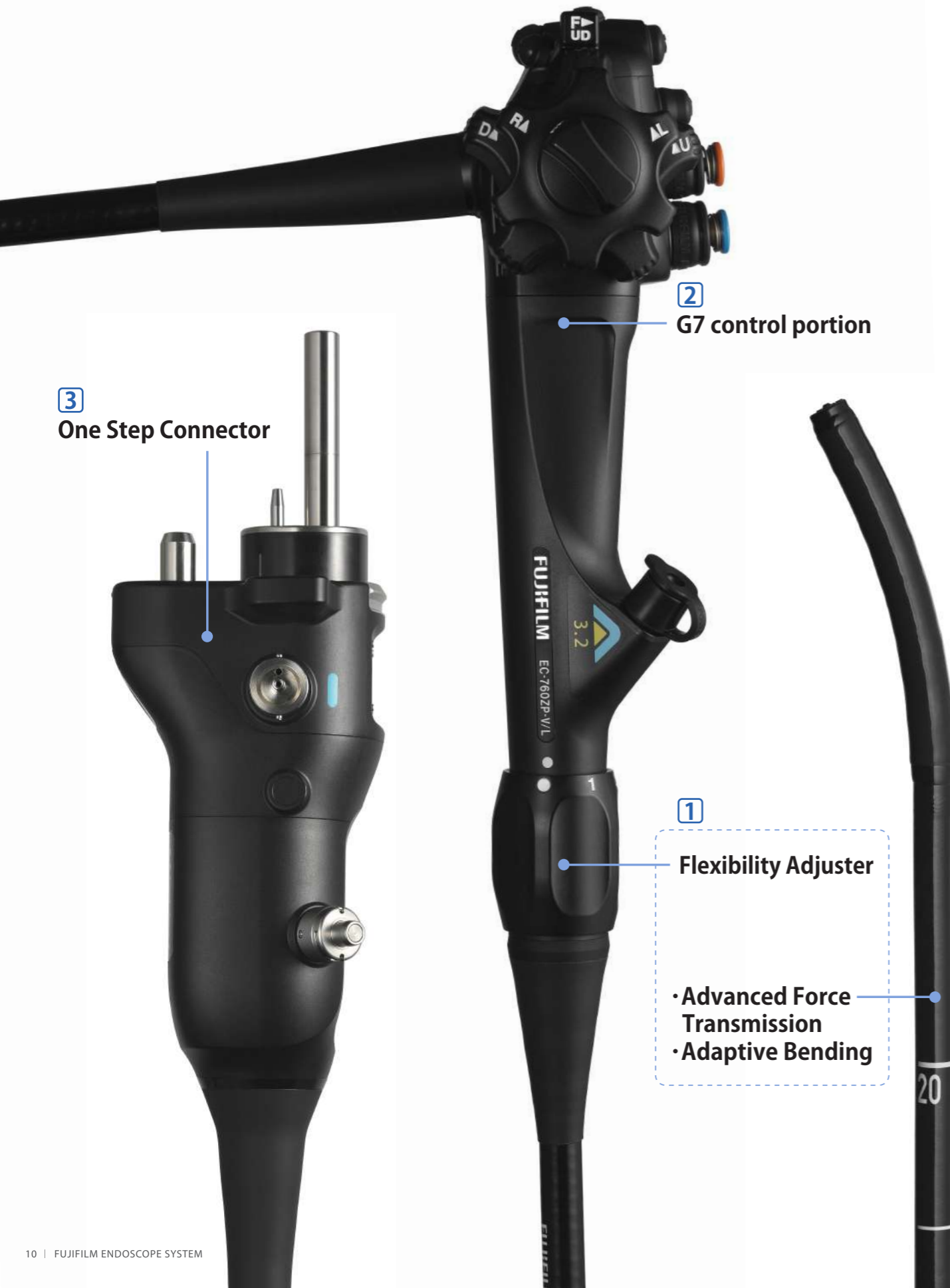
Switches for zoom in/out



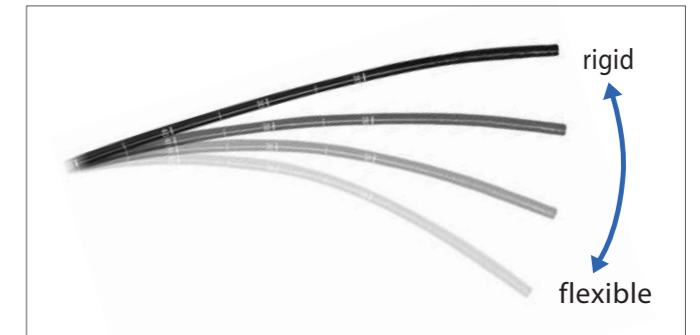
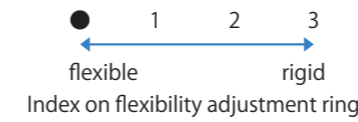
Magnification Images



Superior Usability



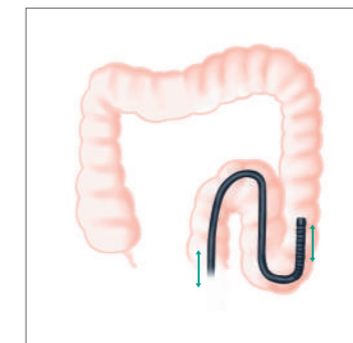
1 Flexibility Adjuster



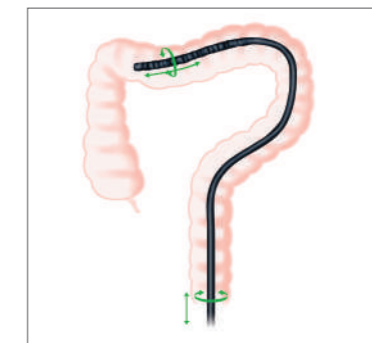
Flexibility Adjuster is equipped on EC-760R-V and EC-760ZP-V. The flexibility of insertion tube can be adjusted with adjustment ring.

Advanced Force Transmission

The flexible portion is designed to transmit operator's movements, pushing, pulling and rotating, to the distal end of endoscope.



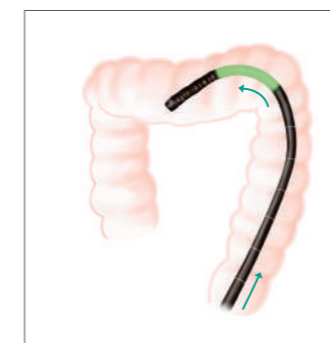
Passing the sigmoid colon



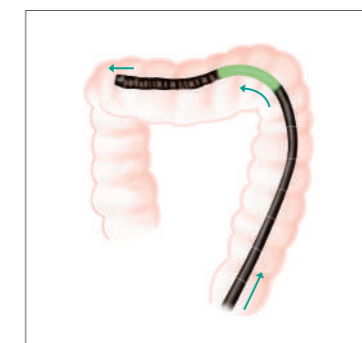
In deep insertion

Adaptive Bending

The end of flexible portion is soft, allowing the scope to bend with the angulations. Flexible portion is elastic, and easy to return to its straight shape after passing through angulations.



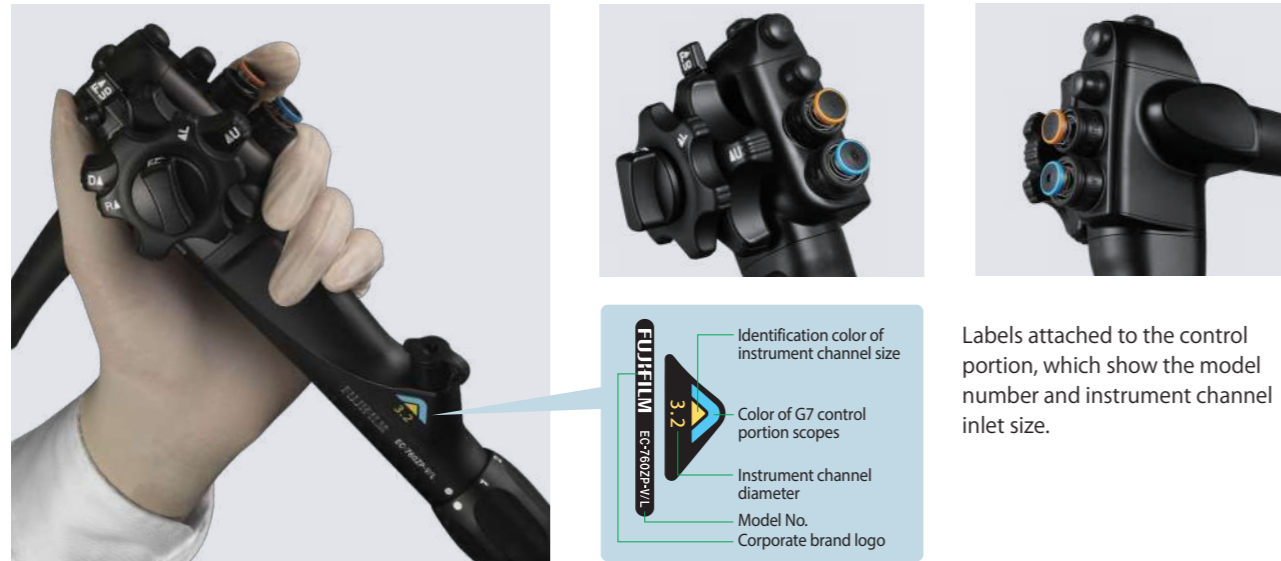
Passing the angulations



After passing through angulations

2 G7 control portion

G7 control portion is developed from ergonomics point of view. Scope has a rounded surface to fit the hand, and button layout makes intuitive operation possible.



Labels attached to the control portion, which show the model number and instrument channel inlet size.

3 One Step Connector with Contact-free Technology

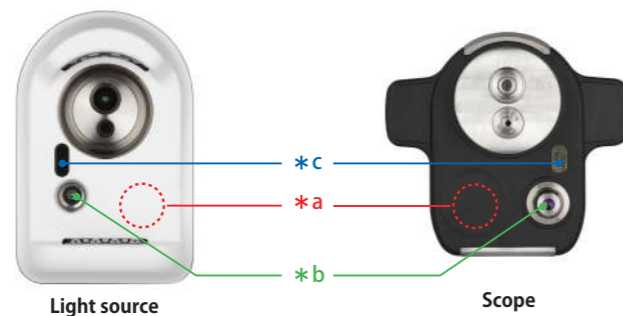


Scopes can be connected to light source in just 1 step operation. Scope cable connection is no longer required in setting up. One Step Connector enhances efficiency of clinical workflow.

Contact-free Technology

This's the generic name of below 3 points. It means connectors do not need to touch to transmit power and image data. By this technology, durability and reliability of scopes is expected to improve.

- ▶ Power feed: Wireless electrical supply - *a
- ▶ Image transmission: High speed optical laser - *b
- ▶ Remote signal: infrared [IR] LED - *c



4 Wide compatibility to conventional endoscope

Compatible with 700 series, 600 / 500 series endoscopes.



700 Series

&



Conventional 600 / 500 Series

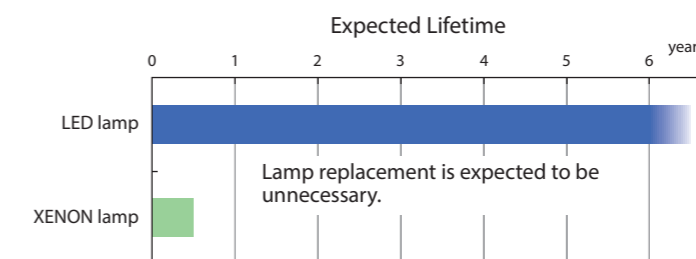
| | BLI | BLI-bright | LCI | WLI | FICE |
|------------------|-----|------------|-----|-----|------|
| 700 Series | ○ | ○ | ○ | ○ | ○ |
| 600 / 500 Series | × | × | × | ○ | ○ |

600/500 endoscopes can be used with White light and FICE mode.
* FICE : Flexible spectral Imaging Color Enhancement

5 Low-energy, long-lasting and bright light source

When compared to standard xenon light sources, the LED light source* consumes about a third of the energy and lasts longer. Life time of the 4 LED light is expected for 6 years based on Fujifilm evaluation condition. Intensity of BL-7000 qualifies that of 300W Xenon lamp.

*The warranty period is 1 year after date of purchase.



Specification

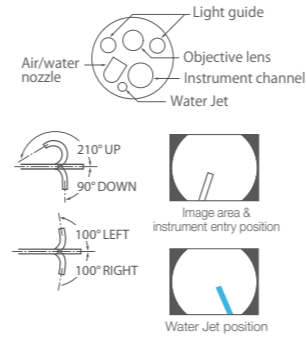
Upper G.I. tract scopes

EG-760R

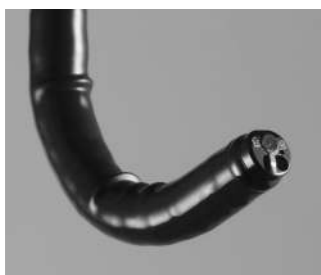


| | |
|-------------------------------------|--|
| Field of view | 140° |
| Viewing direction | 0° (Forward) |
| Observation range | 2~100 mm |
| Bending capability | UP: 210° DOWN: 90° RIGHT: 100° LEFT: 100° |
| Working length | 1,100 mm |
| Total length | 1,400 mm |
| Distal end diameter | 9.2 mm |
| Flexible portion diameter | 9.3 mm |
| Minimum instrument channel diameter | 2.8 mm |
| Image size | Super image |

Product name: Video Endoscope GMDN: 38805
Generic name: Flexible video gastroduodenoscope

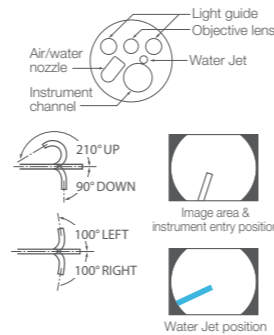


EG-760Z



| | |
|-------------------------------------|---|
| Field of view | Normal: 140° Close: 56° |
| Viewing direction | 0° (Forward) |
| Observation range | 1.5~100 mm Normal: 3~100 mm Close: 1.5~2.5 mm |
| Bending capability | UP: 210° DOWN: 90° RIGHT: 100° LEFT: 100° |
| Working length | 1,100 mm |
| Total length | 1,400 mm |
| Distal end diameter | 9.9 mm |
| Flexible portion diameter | 9.8 mm |
| Minimum instrument channel diameter | 2.8 mm |
| Image size | Super image |

Product name: Video Endoscope GMDN: 38805
Generic name: Flexible video gastroduodenoscope



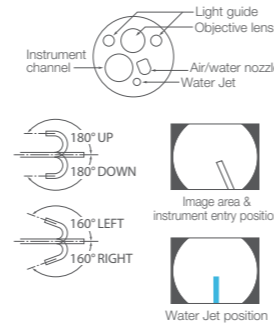
Lower G.I. tract scopes

EC-760R-V/M, I, L

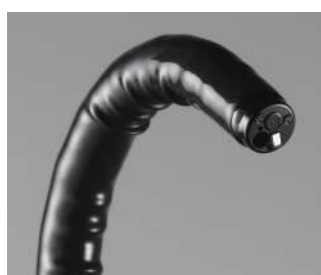


| | |
|-------------------------------------|---|
| Field of view | 170° |
| Viewing direction | 0° (Forward) |
| Observation range | 2~100 mm |
| Bending capability | UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160° |
| Working length | 1,330 mm (M) / 1,520 mm (I) / 1,690 mm (L) |
| Total length | 1,650 mm (M) / 1,840 mm (I) / 2,010 mm (L) |
| Distal end diameter | 12.0 mm |
| Flexible portion diameter | 12.0 mm |
| Minimum instrument channel diameter | 3.8 mm |
| Image size | Super image |
| Flexibility Adjustment | Available |

Product name: Video Endoscope GMDN: 36117
Generic name: Flexible video colonoscope

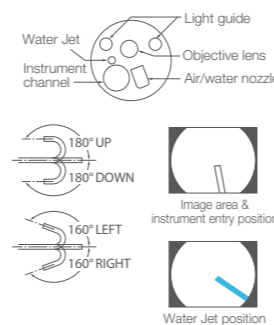


EC-760ZP-V/M, L



| | |
|-------------------------------------|---|
| Field of view | Normal: 140° Close: 56° |
| Viewing direction | 0° (Forward) |
| Observation range | 1.5~100 mm Normal: 3~100 mm Close: 1.5~2.5 mm |
| Bending capability | UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160° |
| Working length | 1,330 mm (M) / 1,690 mm (L) |
| Total length | 1,650 mm (M) / 2,010 mm (L) |
| Distal end diameter | 11.7 mm |
| Flexible portion diameter | 11.8 mm |
| Minimum instrument channel diameter | 3.2 mm |
| Image size | Super image |
| Flexibility Adjustment | Available |

Product name: Video Endoscope GMDN: 36117
Generic name: Flexible video colonoscope



VP-7000

| | | |
|--|--|--|
| Power rating | Voltage | 100 to 240 V ± 10 % |
| | Frequency | 50/60 Hz |
| Dimensions(WxHxD) | Current consumption | 0.8-0.5 A |
| | | 390x110x485 mm (incl. projection) |
| Weight | | 9.0 Kg |
| | Type of color | NTSC/PAL |
| Observation | Digital HDTV | HD-SDI: 2, DVI-D: 2 |
| | Analog/Digital HDTV | DVI-I: 1 |
| | Analog SDTV | RGB TV: 1, S VIDEO: 1, VIDEO: 1 |
| | Screen resolution | SXGA (Default), Full HD |
| | Color adjustment | Brightness, Red, Green, Blue, Red tone, Chroma in nine levels (-4 to +4). Contrast in five levels (-1 to +4). |
| | Contrast | Available in three levels (-1 to +1). |
| | Iris mode | Function to control the screen brightness. AVE (controls brightness in general), PEAK (controls brightness in highlight areas), AUTO (sets average or peak iris automatically) |
| | Structure emphasis | Function to adjust the sharpness of the subject structure. SE (Structure Emphasis) 4 level, DH (fine section) -4~+9, DL (structure section) -4~+9. |
| | Tone | Function to emphasize slight differences between colors by emphasizing the degree of vividness of color. ON/OFF. |
| | Enlargement of the image | Function to enlarge the endoscopic image. |
| Applicable endoscope | Special light observation mode | BLI, BLI-bright, LCI |
| | FICE | Ten settings available. |
| | Mask types | Type 1, Type 2, Type 2/Dual Mode. |
| | Freeze mode | Function to freeze the endoscopic images. |
| | Peak detection | Function to obtain the highest contrast image. |
| | Shutter speed | Normal 1/60-1/200, High 1/100-1/400, High (zoom scope) 1/100-1/800 |
| | Assignment of switches | Scope Switch (1-5), Multi buttons on the front panel (1, 2), Foot Switch (1, 2), *1 |
| | Other functions | Electronic Zoom, PoP Function, Network function, Dual Mode function. |
| | Remote control | Fujifilm specified peripherals can be controlled. |
| | Patient information | Patient ID, Patient Name, Sex, Age, Date of Birth, Comments, Hospital name, Doctor name *2 |
| Data display | Other information | Timer, Laptime |
| | Recording status | Digital printer status, shooting counter, number of recordable images in internal storage device |
| Image recording | Image quality setting status | Structure emphasis, Tone, Electronic Zoom Ratio, IEE observation modes, Focus Indicator. |
| | Image compression rate | TIFF: no compression, JPEG: approx. 1/5, 1/10, 1/20 |
| | Number of recordable images in internal storage device | TIFF: 840, JPEG 1/20: 21,690, JPEG 1/10: 16,270, JPEG 1/5: 5,910 *3 |
| | Recommended external storage device | Swissbit SFU-22048 E1BP2TO-I-MS-111-STD or SFU22048E3BP2TO-I-MS-121-STD *4 |
| Data presetting | Searching and displaying images | Search screen: Inspection No., Patient ID, Date of Inspection. Display: List, Thumbnail, Enlargement. |
| | Doctors' name | Up to 20 doctors' names. |
| Memory backup | Setting by doctor | The information such as color tone, iris mode, contrast, brightness, IEE observation modes are kept by setting the doctor's name. |
| | Clinical procedure | Up to 20 procedures. |
| Control connector | When using lithium battery | 6 years (based on FUJIFILM criteria) |
| | | Light source: 1, Remote: 2, Peripherals: 2, Keyboard: 1, Card reader: 1, Digital printer: 1, Footswitch: 1, Network: 1. |
| Category of medical electric equipment | Type of protection against electric shock | Class I equipment |
| | Degree of protection against electric shock | Type BF applied part |
| | Degree of explosion protection | Prohibited in oxygen-rich environment/ flammable gas atmosphere. |

*1 Some limitations by endoscopes.
*2 Max. 45 patients
*3 The number of recordable images varies depending on the type of image.
*4 Concerning other external storage devices, please contact your representative or local dealer.
Product name: Processor GMDN: 18034
Generic name: Endoscopic Video image processor

BL-7000

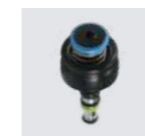
| | | |
|--|---|---|
| Power rating | Voltage | 100V to 240 V ~ ± 10 % |
| | Frequency | 50/60 Hz |
| Dimensions(WxHxD) | Current consumption | 1.2-0.7 A |
| | | 390x155x485 mm (incl. projection) |
| Weight | | 12Kg |
| | Illumination source | LED, qualifies 300W Xenon lamp intensity |
| Illumination | Durability of LED | 6 years (based on FUJIFILM criteria) |
| | Lighting system | Switching regulator |
| | Light control method | LED Auto power control |
| | Light cooling method | Forced air cooling |
| | Special light observation mode | BLI, BLI-bright, LCI |
| | Maximum light output | 1400 lm (based on FUJIFILM criteria) |
| Automatic brightness adjustment | Maximum air supply pressure | 65 kPa |
| | Automatic brightness adjustment method | Brightness is automatically adjusted according to the video output (manually possible). |
| Air supply | Pump | Diaphragm method pump |
| | Air supply pump | HU/MID/LOW/OFF |
| Water supply | Method | Feeds water by pressurizing the detachable water container with air. |
| | Transmitted illumination | The light flashes with the maximum light intensity. Used to check the position of the distal end from outside the body. |
| Indicators on front panel | Light limitation | To avoid the blood of a bleeding patient becoming clotted by the illuminating light. Used to limit the maximum light intensity. |
| | Illumination mode | OFF/1/2/3. Observation modes can be switched by pressing the illumination mode button. |
| Memory of set value | | Set values are maintained even after turning off the system. |
| | Type of protection against electric shock | Class I equipment |
| Category of medical electric equipment | Degree of protection against electric shock | Type BF applied part |
| | Degree of explosion protection | Prohibited in oxygen-rich environment/ flammable gas atmosphere. |

Product name: Light source GMDN: 35158
Generic name: Endoscopic light source, line-powered



New Accessories (Valve, Tank)

For routine examination



Air / Water Valve AW-603



Suction Valve SB-605



Water Tank WT-603

Used with CO₂ Regulator "GW-100"



Air / Water Valve AW-604G



Water Tank WT-604G