

ELUXEO

7000 SYSTEM



FUJIFILM

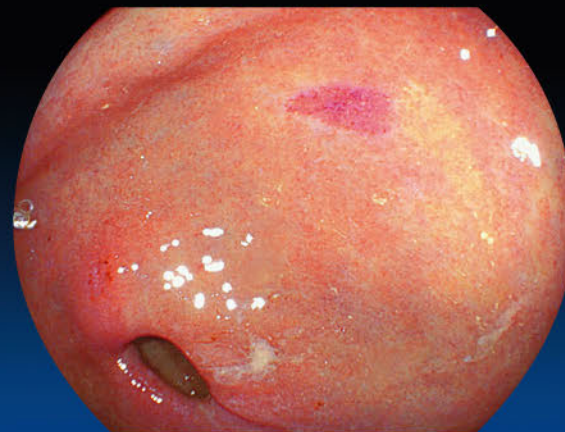




Welcome to BLI&LCI World



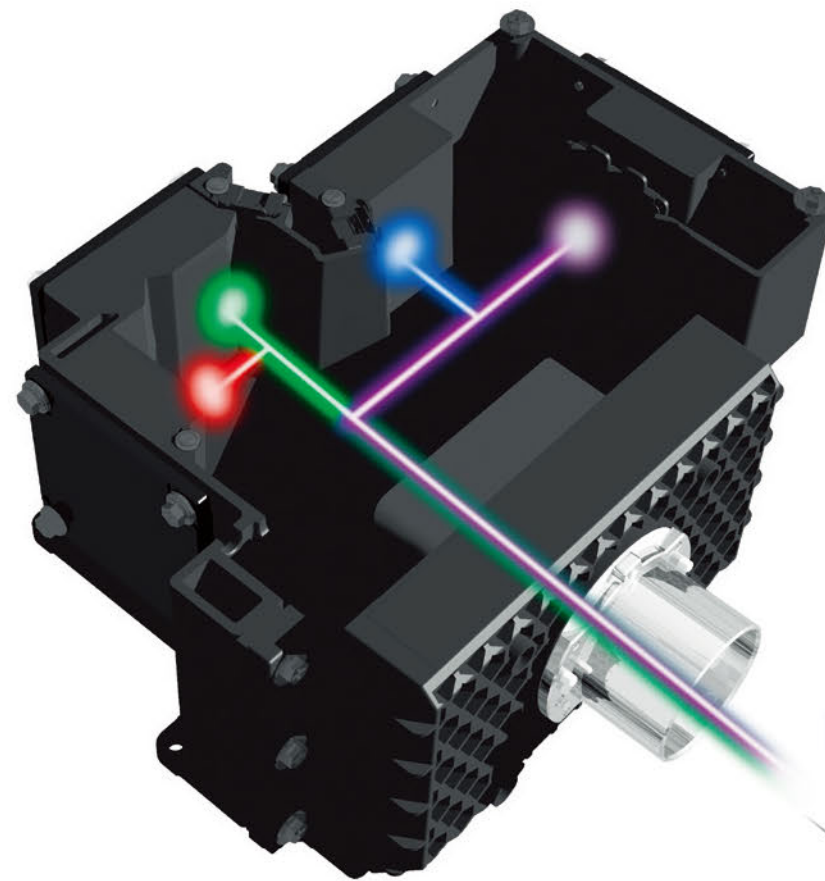
BLI Blue Light Imaging



LCI Linked Color Imaging

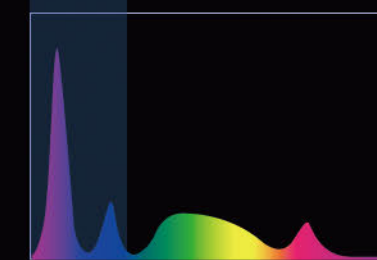
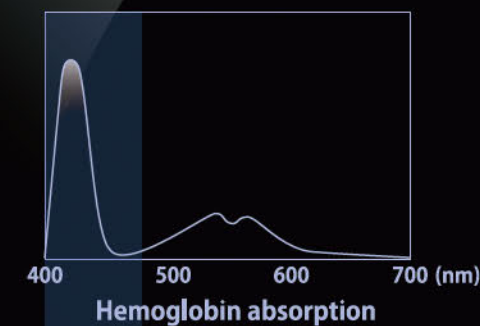
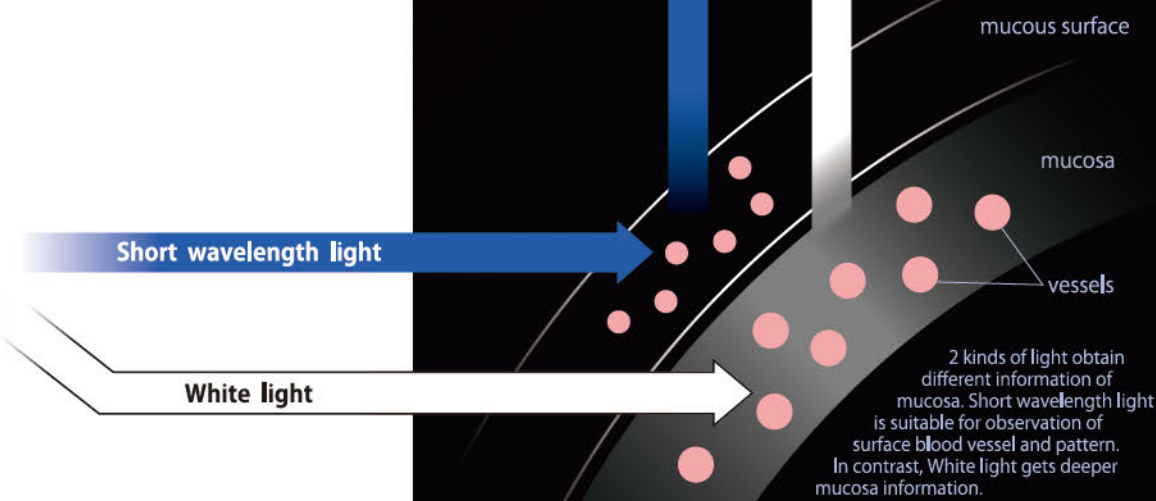
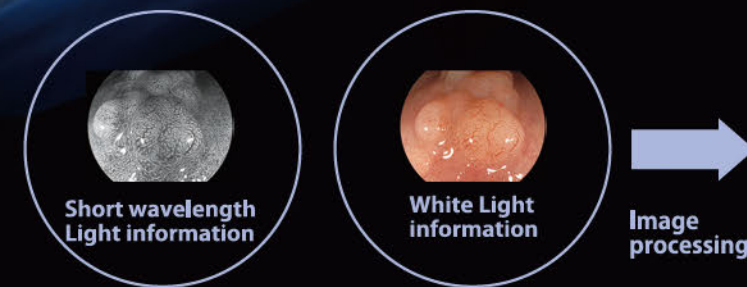
- For Better Diagnosis
- For Better Usability

For Better Diagnosis

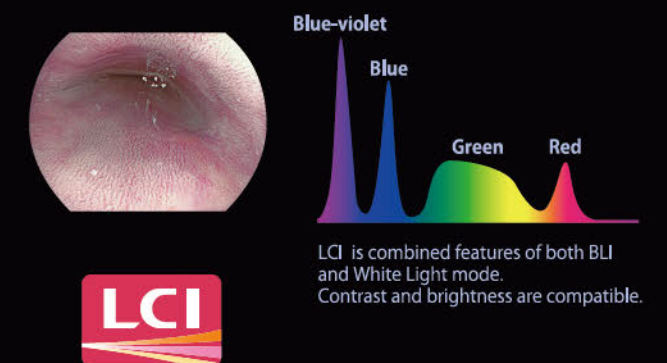
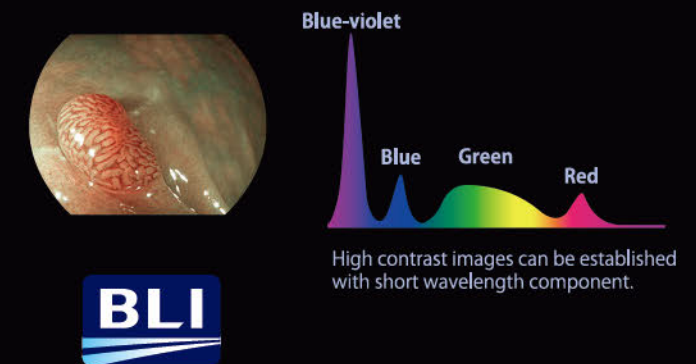
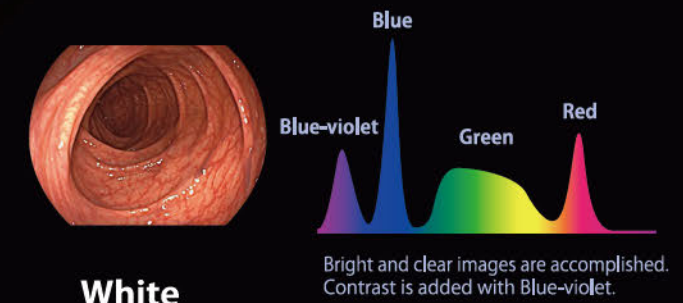


Multi-Light Technology

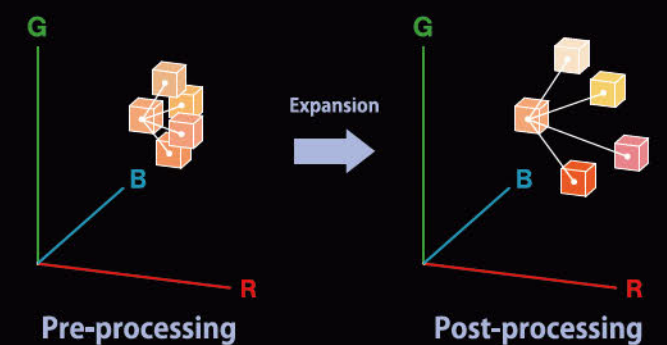
This technology enables creation of images suitable for intended purposes through image processing combined with accurate control of intensity ratio between multiple lights. 7000 system employs four types of high-intensity LEDs: Blue LED creating short wavelength light and Red/Green/Blue LEDs combined into white light. Multi-light technology performs signal processing for images obtained by white light and short wavelength light to produce LCI and BLI images.



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



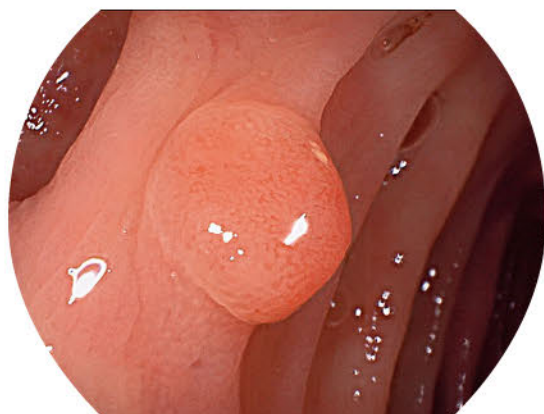
LCI Principle



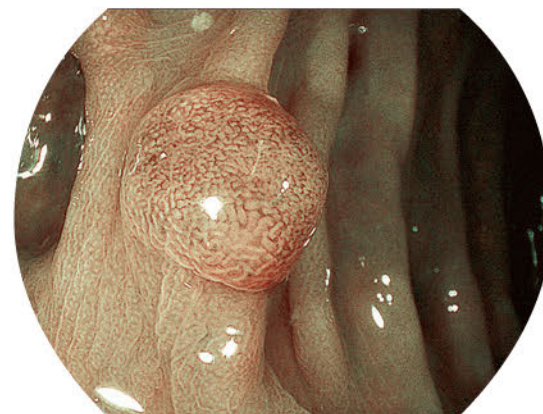
Expanding processing increases the color contrast nearby mucosal "Redness".

1 BLI (Blue Light Imaging)

Colon

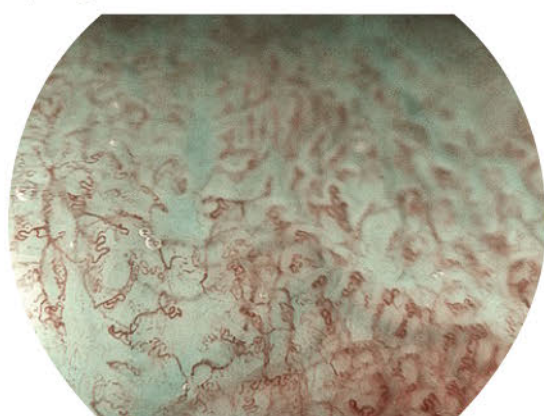


White Light mode



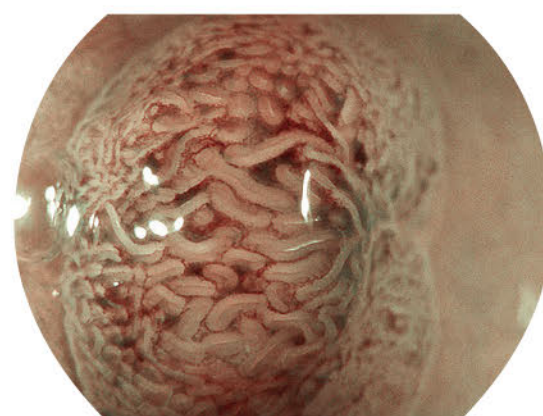
BLI mode

Esophagus



BLI mode

Colon

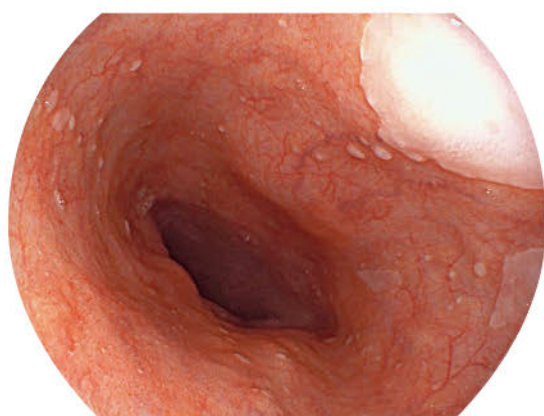


BLI mode

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

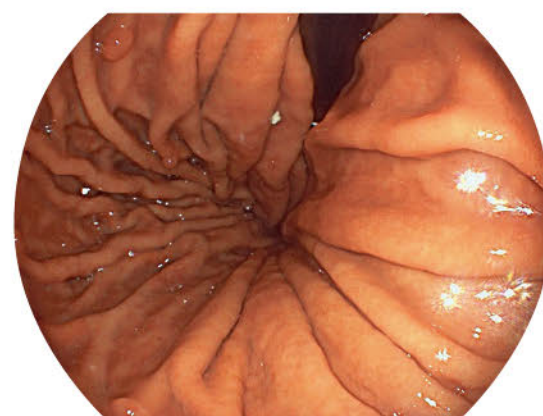
White Light

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.

2 LCI (Linked Color Imaging)

Stomach

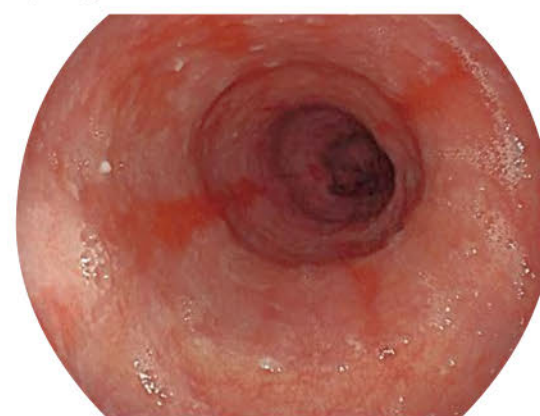


White Light mode



LCI mode

Esophagus



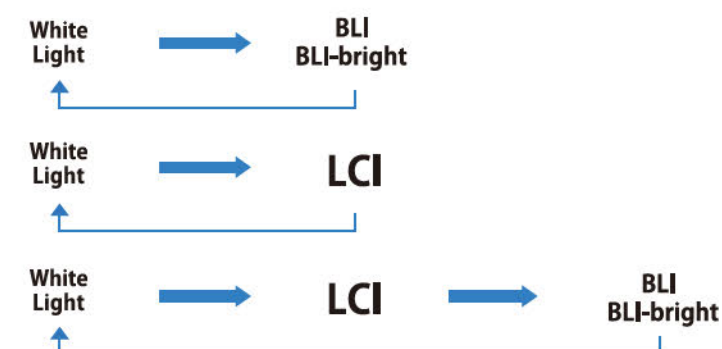
White Light mode



LCI mode

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

Observation modes can be switched by scope button.

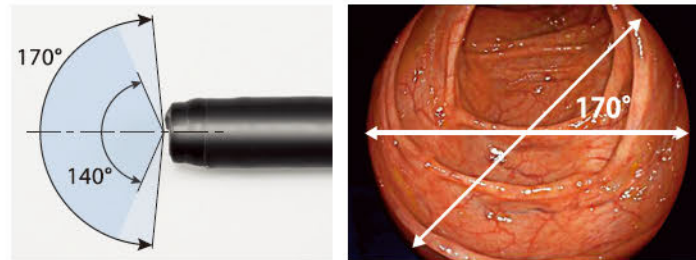


Scope button "2" enables observation modes to be switched in the default setting.



3 Wide 170° field of view

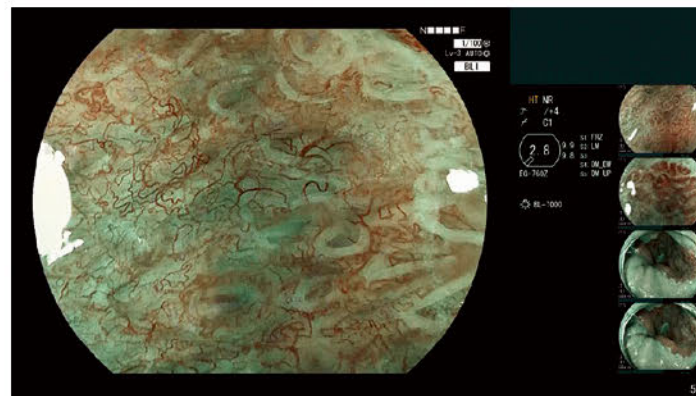
EC-760R-V/M, I, L, EC-760P-V/M, L and EC-760S-V/L



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

EG-760R, EG-760Z, EG-760CT, EC-760R-V/M, I, L, EC-760ZP-V/M, L, EC-760P-V/M, L, EC-760S-V/L and EC-760Z-V/M, L



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

EG-760Z, EC-760ZP-V/M, L and EC-760Z-V/M, L

Zoom function

Magnification Mode		Normal	Low	Middle	Hight	Maximum (x145*)
Continuous						
	2 Step					
	3 Step					
	5 Step					

*When using a 26 inch HD LCD monitor

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



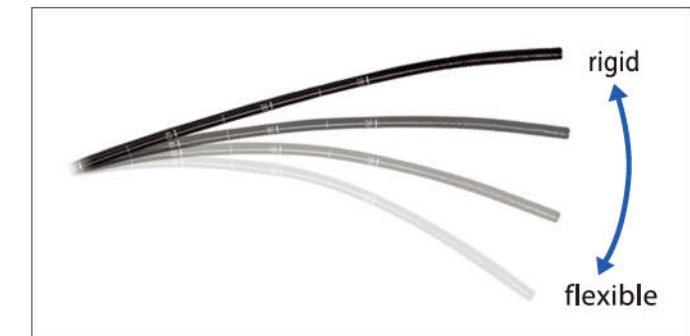
For Better Usability

1 Flexibility Adjustment Mechanism

EC-760R-V/M, I, L, EC-760ZP-V/M, L, EC-760P-V/M, L, EC-760S-V/L and EC-760Z-V/M, L



Index on flexibility adjustment ring

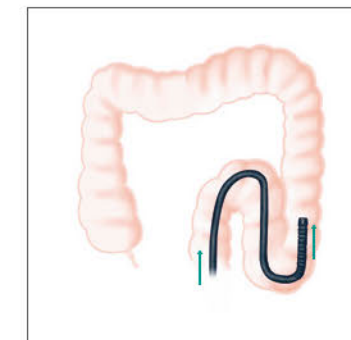


The flexibility of insertion tube can be adjusted with adjustment ring.

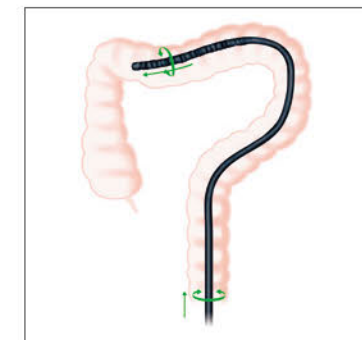
Advanced Force Transmission

EC-760R-V/M, I, L, EC-760ZP-V/M, L, EC-760P-V/M, L, EC-740T/M, L, EC-760S-V/L and EC-760Z-V/M, L

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



Passing the sigmoid colon



In deep insertion

Adaptive Bending

EC-760R-V/M, I, L, EC-760ZP-V/M, L, EC-760P-V/M, L, EC-740T/M, L, EC-760S-V/L and EC-760Z-V/M, L

The end of flexible portion is soft, allowing the scope to bend easily. Flexible portion is elastic, and easy to return to its straight shape.



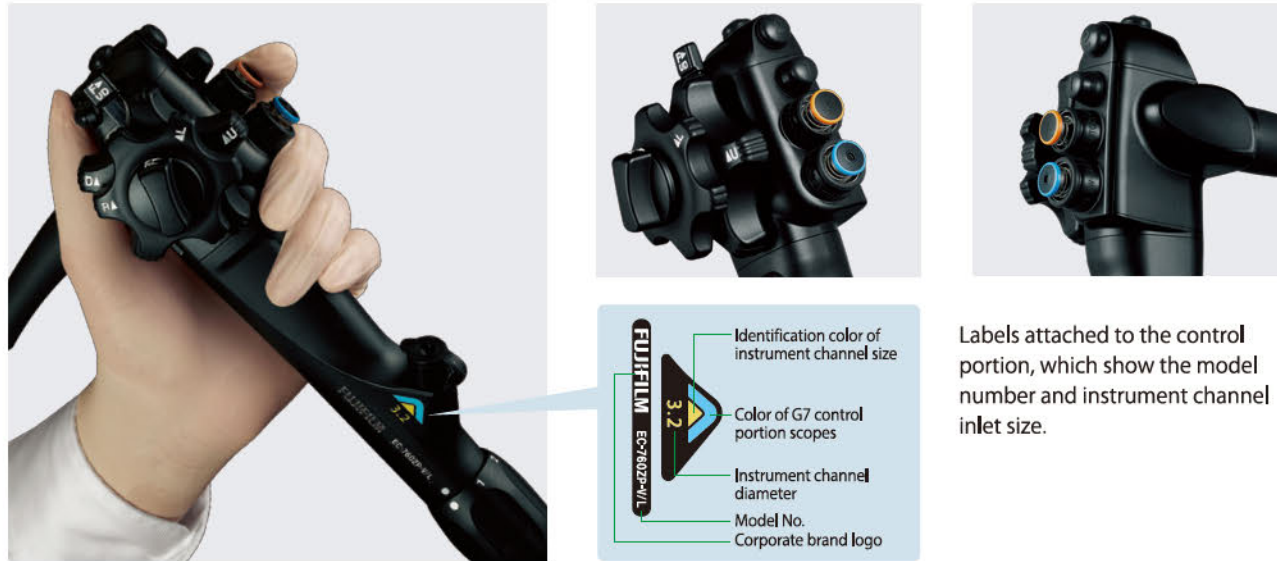
Bending easily



Returning to its straight shape easily

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.



3 One Step Connector with Contact-free Technology

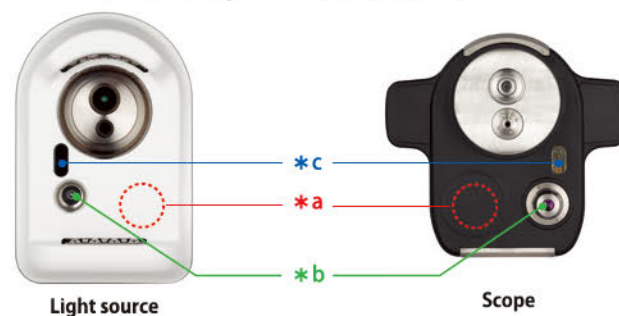


Scopes can be connected to light source in just 1 step operation.
Scope cable connection is no longer required in setting up. One Step Connector enhances efficiency of clinical workflow.

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

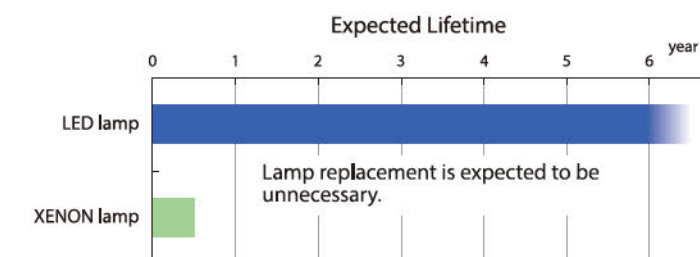
	BLI	BLI-bright	LCI	WLI	FICE
700 Series	○	○	○	○	○
600 / 500 Series	×	×	×	○	○

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.

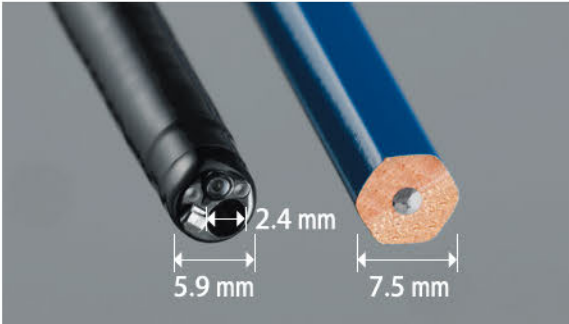


For Various Needs

1 Small diameter scopes

Slim scopes offering various functions necessary for examinations, with a potential to alleviate patients' discomfort

Upper G.I. tract scope
EG-740N



EG-740N, having 5.9-mm outer diameter and 2.4-mm instrument channel diameter, demonstrates good suction performance. Its slim body could support observations of stenosis and other areas where the scope insertion is difficult, offering a potential to alleviate patients' discomfort. Not only oral but also transnasal insertion is possible. EG-740N can be used for LCI/BLI as well as high-definition white light observation.

Lower G.I. tract scope
EC-760P-V/M, L

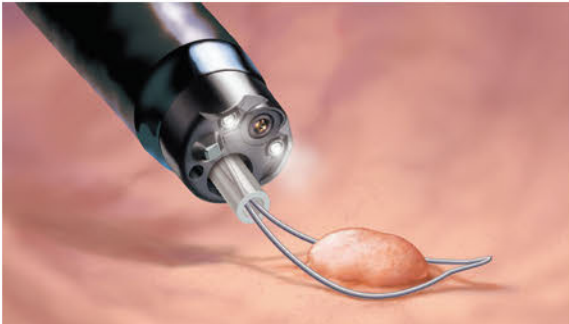


Loaded with Flexibility Adjustment Mechanism, Advanced Force Transmission and Adaptive Bending, these slim endoscopes 11.5 mm in diameter could be inserted into the body smoothly. A variety of feature including CMOS image sensor, LCI/BLI observations and water jet function make these scopes also useful as routine scopes.

2 Scopes for treatment

Accommodating various treatments with wide movement range

Upper G.I. tract scope for treatment
EG-760CT



Instrument channel diameter as large as 3.8 mm offers powerful suction performance. This scope is suitable for observations of areas having many residues or concern of bleeding. As this endoscope is compatible with an array of endotherapy devices, it accommodates various treatments such as polypectomy, EMR and POEM.

Lower G.I. tract scope for treatment
EC-740T/M, L



210° upward bending capability and small radius curvature allow for easy access to target observation point and lesions, supporting precise manipulation in EMR, ESD and other endoscopic procedures. In addition, with the distal end as small as 9.8 mm in diameter, these scopes are expected to be useful for cases where insertion is difficult.

Specification

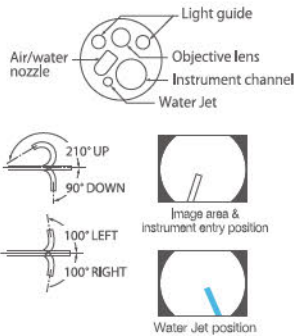
Upper G.I. tract scopes

EG-760CT



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	10.5 mm
Insertion tube diameter	10.8 mm
Minimum instrument channel diameter	3.8 mm
Image size	Super image

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

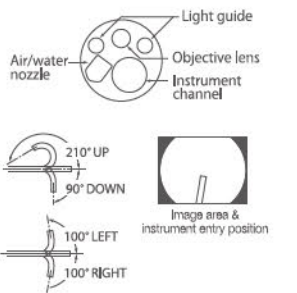


EG-740N



Field of view	140°
Viewing direction	0° (Forward)
Observation range	3~100 mm
Bending capability	UP: 210° DOWN: 90° RIGHT: 100° LEFT: 100°
Working length	1,100 mm
Total length	1,400 mm
Distal end diameter	5.8 mm
Insertion tube diameter	5.9 mm
Minimum instrument channel diameter	2.4 mm
Image size	Super image

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

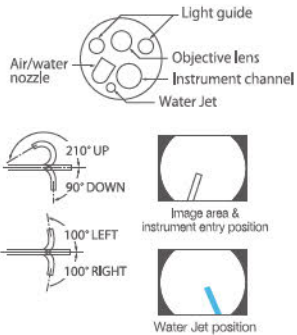


EG-760R



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
Insertion tube 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

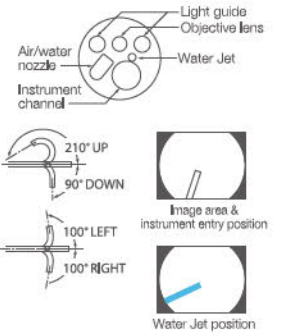


EG-760Z



Field of view	Normal: 140° Closest: 56°
Viewing direction	0° (Forward)
Observation range	1.5~100 mm Normal: 3~100 mm Closest: 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
Insertion tube diameter	9.8 mm
Minimum instrument channel diameter	2.8 mm
Image size	Super image

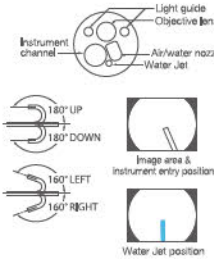
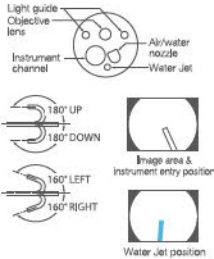
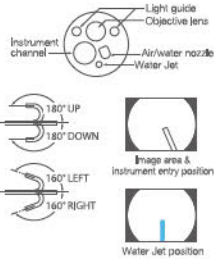
Product name: Video Endoscope GMDN: 38805
Generic name: Flexible video gastroduodenoscope



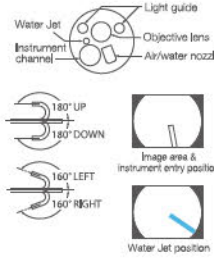
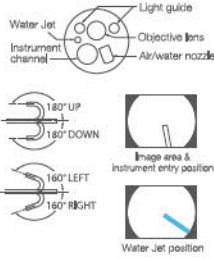
Specification

Lower G.I. tract scopes

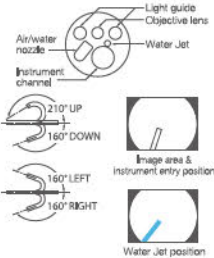
	EC-760R-V/M, I, L	EC-760P-V/M, L	EC-760S-V/L NEW
Field of view	170°	170°	170°
Viewing direction	0° (Forward)	0° (Forward)	0° (Forward)
Observation range	2~100 mm	2~100 mm	2~100 mm
Bending capability	UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160°	UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160°	UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160°
Working length	1,330 mm (M) /1,520 mm (I) /1,690 mm (L)	1,330 mm (M) /1,690 mm (L)	1,690 mm
Total length	1,650 mm (M) /1,840 mm (I) /2,010 mm (L)	1,650 mm (M) /2,010 mm (L)	2,010 mm
Distal end diameter	12.0 mm	11.1 mm	12.8 mm
Insertion tube diameter	12.0 mm	11.5 mm	12.8 mm
Minimum instrument channel diameter	3.8 mm	3.2 mm	3.8 mm
Image size	Super image	Super image	Super image
Flexibility adjustment mechanism	Available	Available	Available
	Product name: Video Endoscope GMDN: 36117 Generic name: Flexible video colonoscope, reusable	Product name: Video Endoscope GMDN: 36117 Generic name: Flexible video colonoscope, reusable	Product name: Video Endoscope GMDN: 36117 Generic name: Flexible video colonoscope, reusable



	EC-760Z-V/M, L NEW	EC-760ZP-V/M, L
Field of view	Normal: 140° Closest: 56°	Normal: 140° Closest: 56°
Viewing direction	0° (Forward)	0° (Forward)
Observation range	1.5~100 mm Normal: 3~100 mm /Closest: 1.5~2.5 mm	1.5~100 mm Normal: 3~100 mm /Closest: 1.5~2.5 mm
Bending capability	UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160°	UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160°
Working length	1,330 mm (M) /1,690 mm (L)	1,330 mm (M) /1,690 mm (L)
Total length	1,650 mm (M) /2,010 mm (L)	1,650 mm (M) /2,010 mm (L)
Distal end diameter	12.8 mm	11.7 mm
Insertion tube diameter	12.8 mm	11.8 mm
Minimum instrument channel diameter	3.8 mm	3.2 mm
Image size	Super image	Super image
Flexibility adjustment mechanism	Available	Available
	Product name: Video Endoscope GMDN: 36117 Generic name: Flexible video colonoscope, reusable	Product name: Video Endoscope GMDN: 36117 Generic name: Flexible video colonoscope, reusable



	EC-740T/M, L
Field of view	140°
Viewing direction	0° (Forward)
Observation range	3~100 mm
Bending capability	UP: 210° DOWN: 160° RIGHT: 160° LEFT: 160°
Working length	1,330 mm (M) /1,690 mm (L)
Total length	1,630 mm (M) /1,990 mm (L)
Distal end diameter	9.8 mm
Insertion tube diameter	10.7 mm
Minimum instrument channel diameter	3.2 mm
Image size	Super image
	Product name: Video Endoscope GMDN: 36117 Generic name: Flexible video colonoscope, reusable



	VP-7000
Power rating	Voltage 100 to 240 V ± 10 % Frequency 50/60 Hz Current consumption 0.8-0.5 A
Dimensions(WxHxD)	390x110x485 mm (incl. projection)
Weight	9.0 Kg
	Type of color NTSC/PAL Digital HDTV HD-SDI: 2, DVI-D: 2 Analog/Digital HDTV DVH: 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)
Observation	Structure emphasis Function to adjust the sharpness of the subject structure. Normal mode: Structure Emphasis (SE) 4 level, Detail Hi (DH) -4 to +4, Detail Lo (DL) -4 to +4, BLI, BLI-bright or LCI, SE A Mode and B Mode, A Mode 0 to 8, B Mode 0 to 8 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. 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.
Applicable endoscope	700/ 600/ 500 series endoscope
	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 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 E18P2TO-MS-111-STD or SFU22048E38P2TO-MS-121-STD *4 Searching and displaying images Search screen: Inspection No., Patient ID, Date of Inspection. Display: List, Thumbnail, Enlargement.
	Doctors' name Up to 20 doctors' names.
Data presetting	Setting by doctor The information such as color tone, iris mode, contrast, brightness, special light observation modes are kept by setting the doctor's name. Clinical procedure Up to 20 procedures.
Memory backup	When using lithium battery 6 years (based on FUJIFILM criteria)
Control connector	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 Current consumption 1.2-0.7 A
Dimensions(WxHxD)	390x155x485 mm (incl. projection)
Weight	12Kg
	Illumination source LED, qualifies 300W Xenon lamp intensity 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 air supply pressure 65 kPa
Automatic brightness adjustment	Automatic brightness adjustment method Brightness is automatically adjusted according to the video output (manually possible).
Air supply	Pump Diaphragm method pump Air supply pump HI/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 dotted 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



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”



Gas/Water Valve AW-604G



Water Tank WT-604G