

ELUXEO

New Generation Endoscope System

7000 SYSTEM **NEW**



FUJIFILM

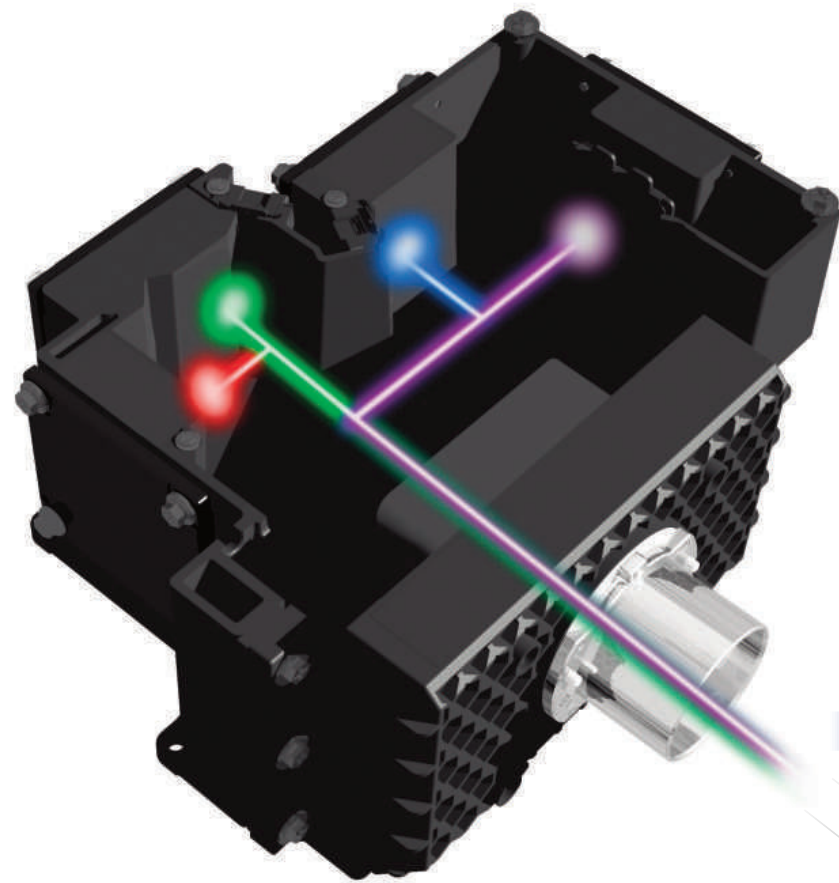


FUJIFILM

FUJIFILM Asia Pacific Pte. Ltd.

10 New Industrial Road, FUJIFILM Building, Singapore 536201
<http://www.fujifilm.com.sg>

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

White light

Short wavelength
Light information

White Light
information

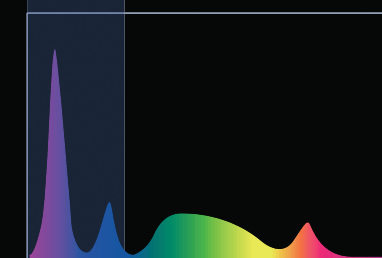
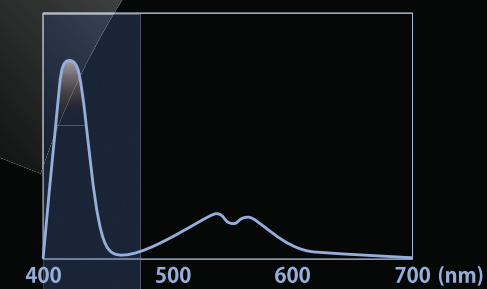
Image
processing

mucous surface

mucosa

vessels

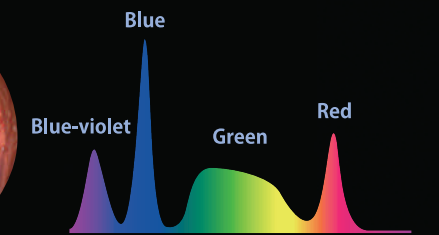
2 kinds of light obtain different information of mucosa. Short wavelength light is suitable for observation of surface blood vessel and pattern. In contrast, White light gets deeper mucosa information.



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



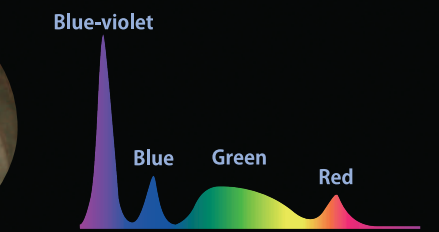
**White
Light**



Bright and clear images are accomplished. Contrast is added with Blue-violet.



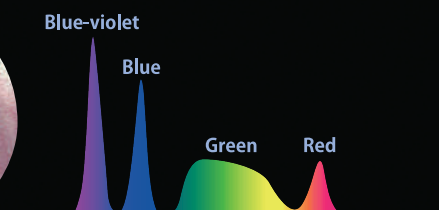
BLI



High contrast images can be established with short wavelength component.

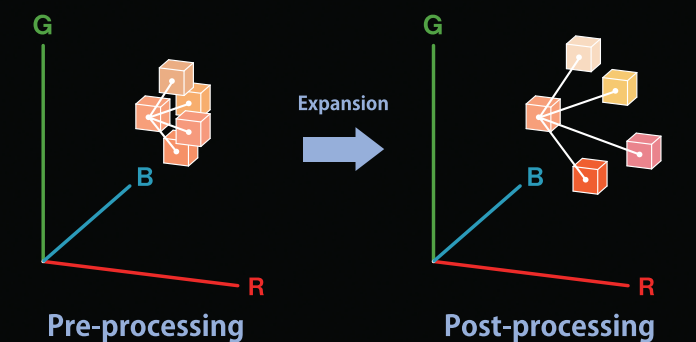


LCI



LCI is combined features of both BLI and White Light mode. Contrast and brightness are compatible.

LCI Principle

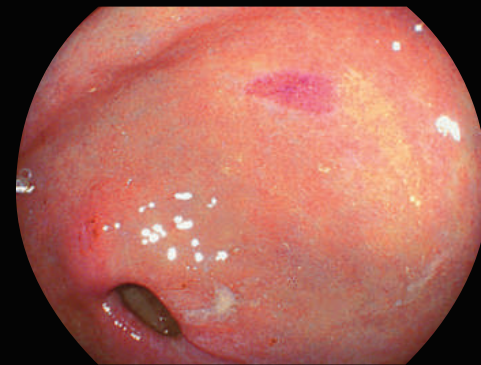


Expanding processing increases the color contrast nearby mucosal "Redness".

Welcome to BLI & LCI World



BLI Blue Light Imaging



LCI Linked Color Imaging



This is a simulated image. Actual image will differ.

ELUXEO

- Superior Diagnosis
- Superior Usability

1 BLI (Blue Light Imaging) **BLI**

Colon

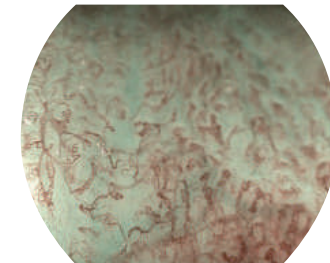


White Light mode



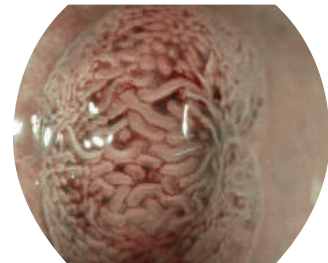
BLI mode

Esophagus



BLI mode

Colon



BLI mode

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

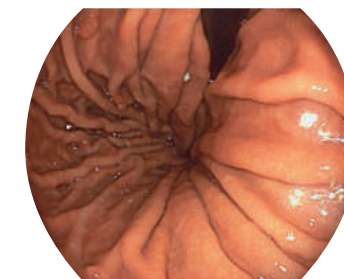
White Light

Esophagus



White Light mode

Stomach



White Light mode

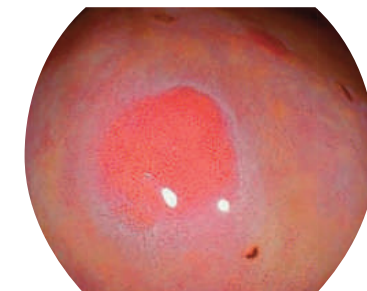
Bright, sharp, and stereoscopic images are accomplished with similar color tones to Xenon light source. Mega-pixel CMOS enables high-definition and quite low-level noise compatible.

2 LCI (Linked Color Imaging) **LCI**

Stomach



White Light mode

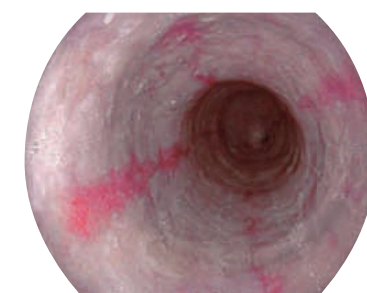


LCI mode

Esophagus



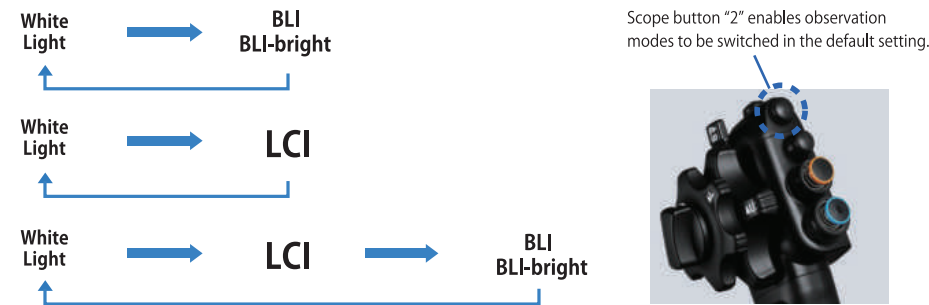
White Light mode



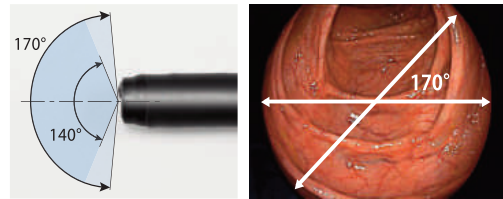
LCI mode

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.

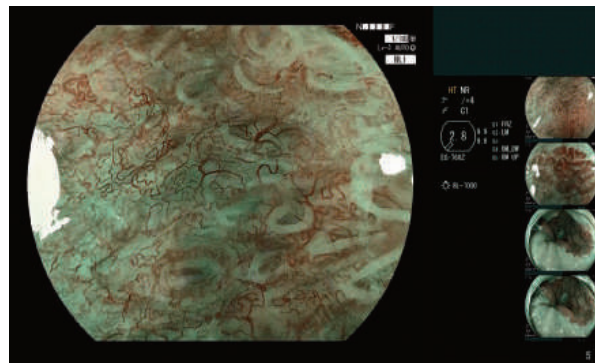


3 Wide 170° field of view



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	Hight	Maximum (x145*)
Continuous	[Continuous Zoom Bar]				
Step zoom	[Step Zoom Bars]				
2 Step	[2 Step Zoom Bar]				
3 Step	[3 Step Zoom Bar]				
5 Step	[5 Step Zoom Bar]				

*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.

Magnification Images

Low



Middle



Maximum



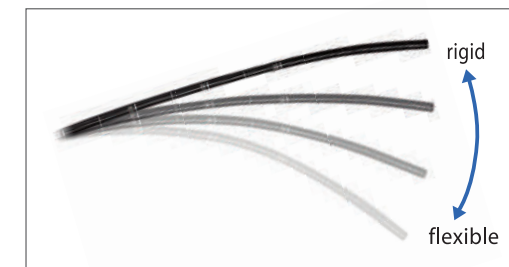
Superior Usability



1 Flexibility Adjuster



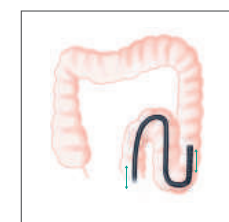
Index on flexibility adjustment ring



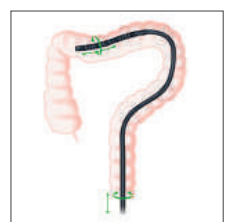
Flexibility Adjuster is equipped on EC-760R-V and EC-760ZP-V. The flexibility of insertion tube can be adjusted with adjustment ring.

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.



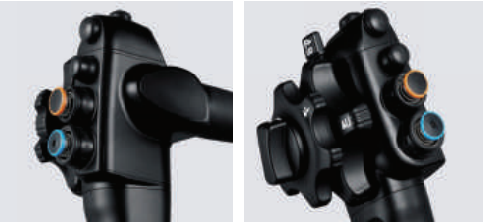
Passing the angulations



After passing through angulations

2 G7 control portion

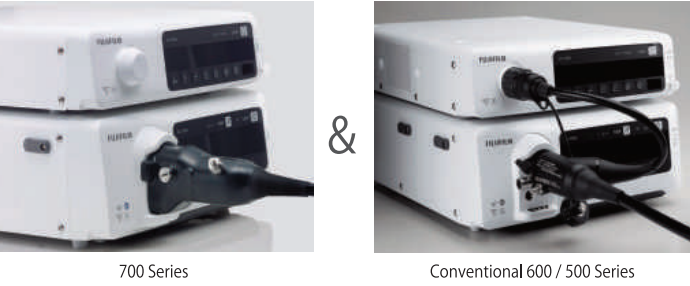
G7 control portion is developed from ergonomics point of view. Scope has a rounded surface to fit the hand, and button layout makes intuitive operation possible.



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

4 Wide compatibility to conventional endoscope

Compatible with 700 series, 600 / 500 series endoscopes.



	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

3 One Step Connector with Contact-free Technology

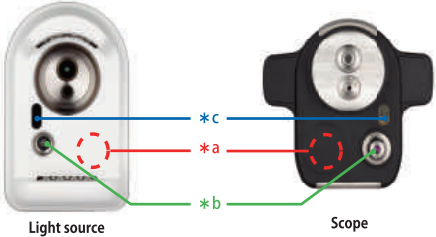


Scopes can be connected to light source in just 1 step operation. Scope cable connection is no longer required in setting up. One Step Connector enhances efficiency of clinical workflow.

Contact-free Technology

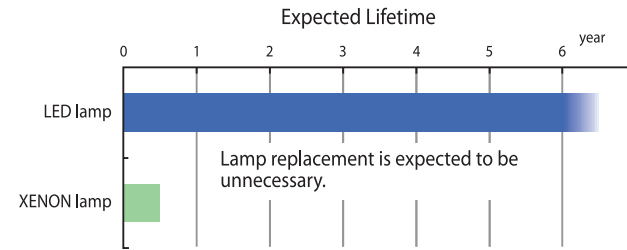
This's the generic name of below 3 points. It means connectors do not need to touch to transmit power and image data. By this technology,durability and reliability of scopes is expected to improve.

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



5 Low-energy, long-lasting 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. Note: The warranty period is 1 year after date of purchase.



Specification

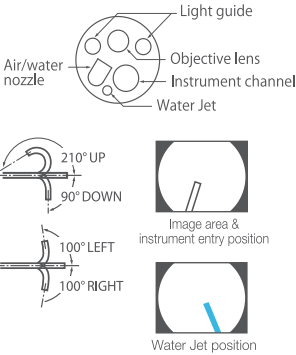
HD Ultra High Resolution Scopes (Upper G.I. tract)

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

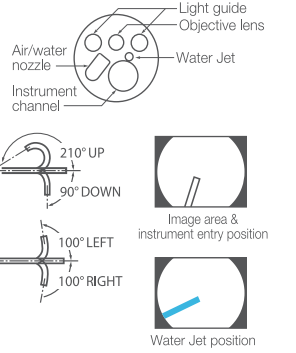


EG-760Z



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



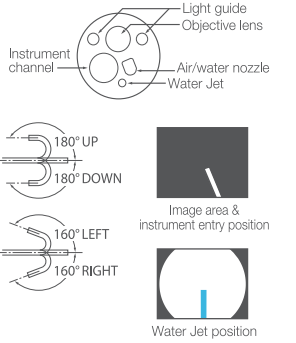
HD Ultra High Resolution Scopes (Lower G.I. tract)

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

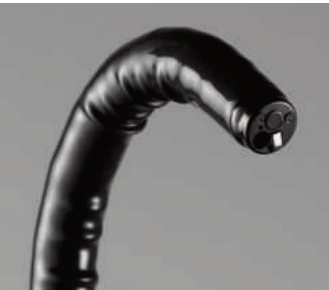


Field of view	170°
Viewing direction	0° (Forward)
Observation range	2~100 mm
Bending capability	UP: 180° DOWN: 180° RIGHT: 160° LEFT: 160°
Working length	1,330 mm (M) /1,520 mm (I) / 1,690 mm (L)
Total length	1,650 mm (M) /1,840 mm (I) / 2,010 mm (L)
Distal end diameter	12.0 mm
Flexible portion diameter	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

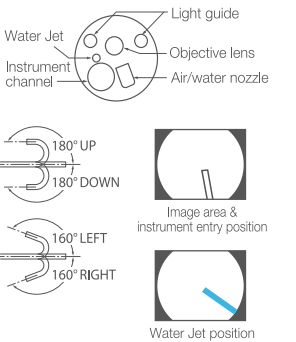


EC-760ZP-V/M, L



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



Electronic Video Bronchoscope – standard type

EB-580S

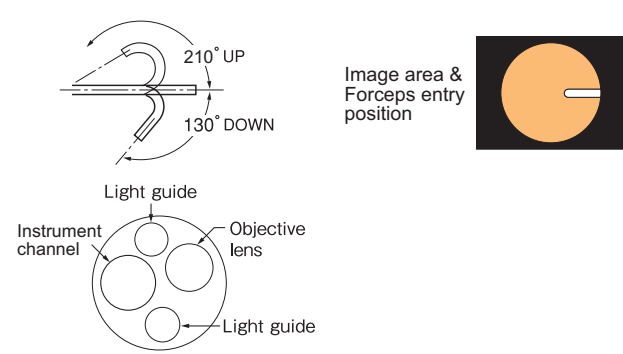
NEW

New high-resolution bronchoscope with improved operability thanks to 210°upward bending capability and 2.2mm diameter instrument channel.



Product name: Video Endoscope
GMDN: 17662
Generic name: Flexible video bronchoscope, reusable

Field of view	120°
Observation range	2-100mm
Distal end diameter	5.3mm
Insertion tube	5.1mm
Bending capability	UP 210° DOWN 130°
Working length	600mm
Total length	870mm
Instrument channel diameter	2.2mm



Electronic Video Bronchoscope – treatment type

EB-580T

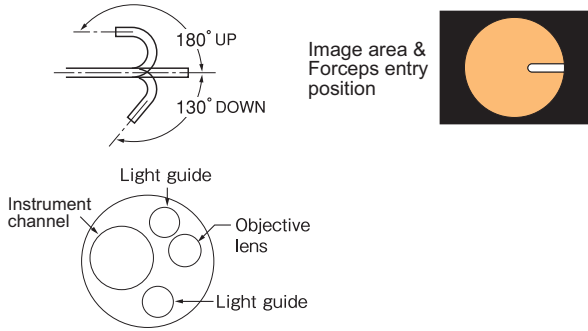
NEW

New high-resolution bronchoscope to support efficient treatment. Nd-YAG (Neodymium: Yttrium-Aluminum-Garnet) laser can be used with this endoscope.



Product name: Video Endoscope
GMDN: 17662
Generic name: Flexible video bronchoscope, reusable

Field of view	120°
Observation range	2-100mm
Distal end diameter	5.8mm
Insertion tube	5.9mm
Bending capability	UP 180° DOWN 130°
Working length	600mm
Total length	870mm
Instrument channel diameter	2.8mm



Accessories



FUJIFILM MONITOR



LEAKAGE TESTER (LT7)

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)	
DICOM	Available	
Weight	9.0 Kg	
Observation	Type of color	NTSC/PAL
	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.
	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
Applicable endoscope	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 quality setting status	Structure emphasis, Tone, Electronic Zoom Ratio, IEE observation modes, Focus Indicator.
Image recording	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 E1BP2TO4-MS-111-STD or SFU22048E3BP2TO4-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.
	Setting by doctor	The information such as color tone, iris mode, contrast, brightness, IEE observation modes are kept by setting the doctor's name.
Data presetting	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	Illumination source	LED
	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).
	Pump	Diaphragm method pump
Air supply	Air supply pump	HI/MID/LOW/OFF
	Method	Feeds water by pressurizing the detachable water container with air.
Indicators on front panel	Transmitted illumination	The light flashes with the maximum light intensity. Used to check the position of the distal end from outside the body.
	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.
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.

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



VP-7000

BL-7000

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