

EP-8000 Specification

Compatible endoscope	800 / 700 / 600 system endoscopes 580 series endoscopes EB-530H, EB-530P, EB-530S, EB-530XT, EB-530US
Output	12G-SDI, 3G-SDI, DVI-D, RGB-TV
Input	Digital 2 channel PoP
External memory	USB Flash Drive
Power rating	100-240V~, 50/60Hz, 3.0A-1.5A
Dimensions (W×H×D)	395 × 210 × 515 mm
Weight	18 kg
Light source	Multi LED
Air supply pump	High, Mid, Low, Off

Product name : Processor GMDN : 34540

Generic name : Endoscopic video image processing / light source system

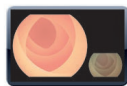
Technologies For *ELUXEO* 8000 System



Triple Noise Reduction



Extended Dynamic Range



Multi Observation Mode



One-step Connector



Contact-free Technology



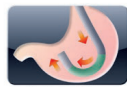
Advanced Force Transmission

Upper Endoscopes



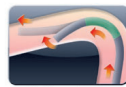
Advanced Force Transmission

Lower Endoscopes



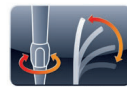
Adaptive Bending

Upper Endoscopes



Adaptive Bending

Lower Endoscopes



Flexibility Adjuster

Lower Endoscopes



EC-860P/M,L
EC-860S/M,I,L



EG-840T
EG-840TP



EG-860R

FUJIFILM
Value from Innovation



Endoscope system
with integrated LED light source

ELUXEO
8000 System



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M.I.Tech

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Next generation of endoscopy for all the professionals

Empowering your daily workflow with advanced technology and sophisticated functions.

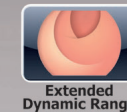
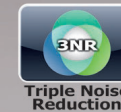


ELUXEO
8000 System

8000 system means combination of EP-8000 and 800 system endoscopes

1 Advanced Image Quality

Image processing has been redesigned and supports 4K resolution output. All from the 800 system endoscopes are equipped with CMOS sensor.



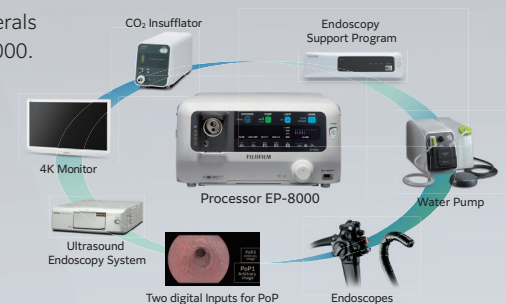
2 Expanded Therapeutic Solution

Provide ACI (Amber-red Color Imaging) and two therapeutic endoscopes.



3 Efficient Workflow

Linking functions with peripherals and other systems with EP-8000.



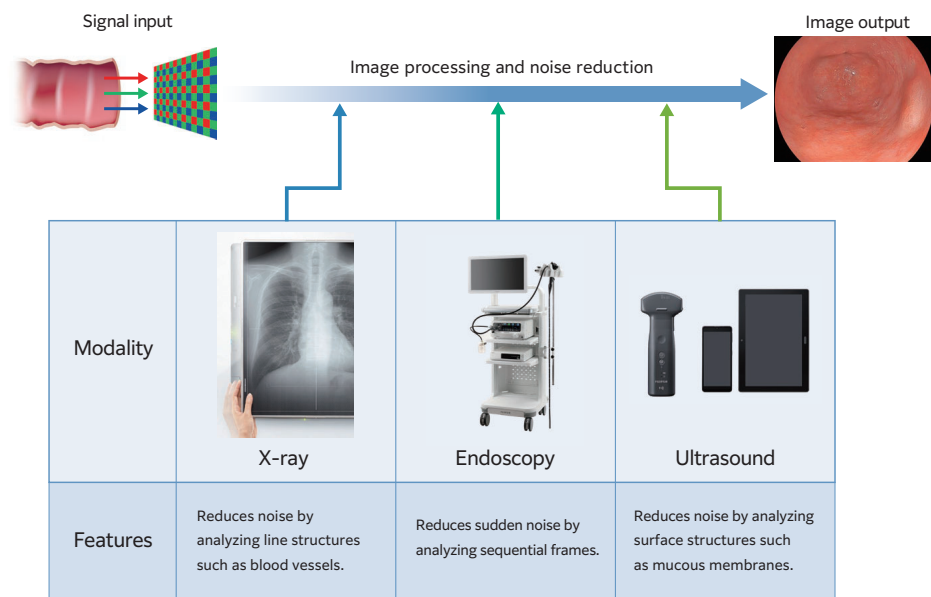
Brighter and sharper images with less halation

Due to the combination of FUJIFILM's **Triple Noise Reduction (3NR)** and **Extended Dynamic Range** technology, images become brighter and sharper ever than before with less halation.



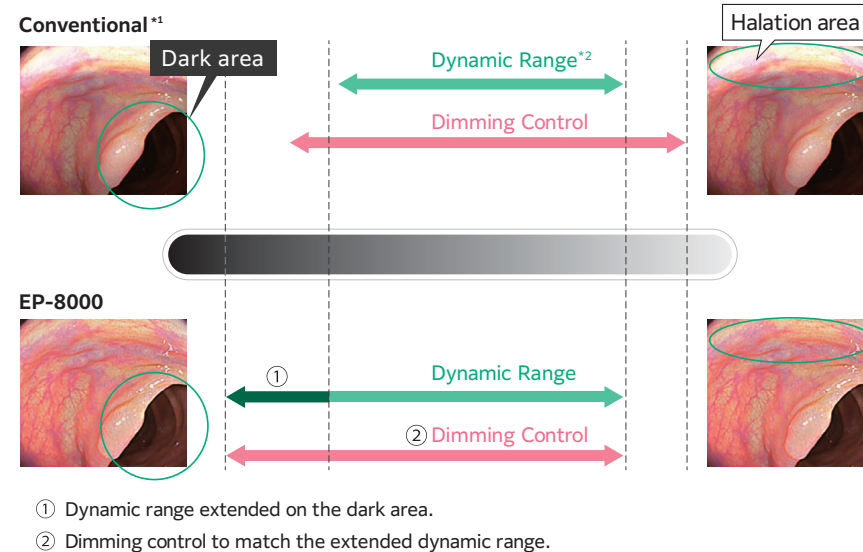
Triple Noise Reduction

FUJIFILM's latest Triple Noise Reduction synergizes proprietary noise reduction technologies from three core imaging modalities from X-ray, Ultrasound and conventional Endoscopy noise reduction technology.



Extended Dynamic Range

FUJIFILM's dimming and tone control technology 'Extended Dynamic Range' dynamically adjusts the brightness of the near and far field and reduces halation in the near field. This results in an overall bright and detailed video image.



^{*1} VP-7000/BL-7000

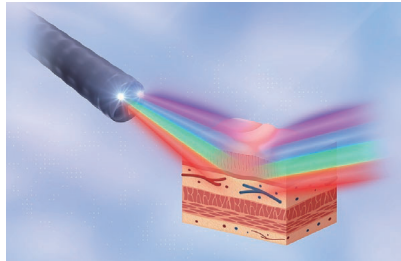
^{*2} Dynamic Range is the range of tonal difference between the lightest light and darkest dark of an image



Multi Light Technology with LED

Achieving improved diagnostic and therapeutic results in endoscopic procedures is highly dependent on image quality. As one of the world's largest imaging companies, our long-standing experience in medical imaging has allowed FUJIFILM's engineers to develop Multi Light Technology, fulfilling the need for the improved visualization in endoscopy- today in the future. This illumination system is able to use the observation modes LCI, BLI, and ACI. Specifically designed for this illumination. 700 and 800 system endoscopes provides detailed high-resolution imaging for both diagnosis and pre-therapeutic assessment.

Specific light spectrum settings targeting the mucosal layers result in improved contrast and higher definition of imaging.

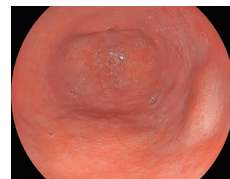
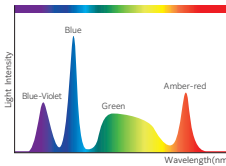


Cost-saving LED light source

For xenon lamps, replacement every 500 hours is recommended. If the endoscope is used for approximately 1,000 hours per year, 12 lamps will need to be replaced in 6 years. While LED lamps have longer durability with lower energy consumption, resulting in a better cost-efficiency.

White Light Imaging (WLI)

ELUXEO 8000 system provides high image quality in terms of sharpness and brightness for diagnostic and therapeutic procedures in daily clinical practice.

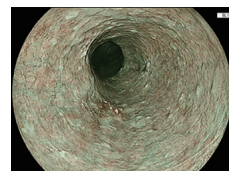
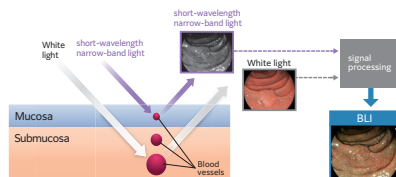
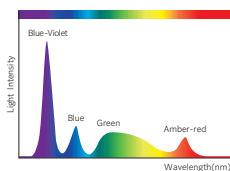


White light Imaging



BLI(Blue Light Imaging)mode

High-intensity contrast imaging with BLI is expected to be helpful for improved visualization of superficial vascular and mucosal patterns. Focusing on the characteristics of short wavelength absorption of hemoglobin (at 410 nm) combined with specific white light spectral colors results in improved contrast imaging.

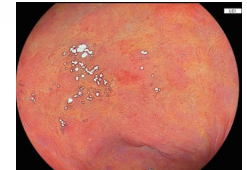
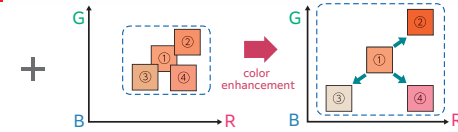
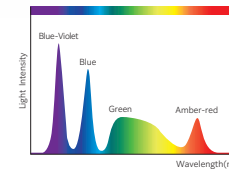


BLI(Blue Light Imaging)mode



LCI(Linked Color Imaging)mode

LCI differentiates the red color spectrum more effectively than White Light Imaging thanks to its preprocess composition of light spectrum and FUJIFILM's original signal processing. The increased color contrast in red color leads to improved visibility of abnormalities, inflammation and delineation.

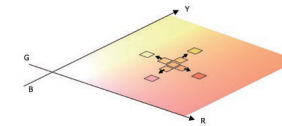
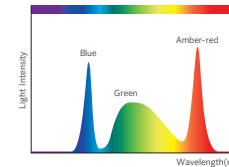


LCI(Linked Color Imaging)mode



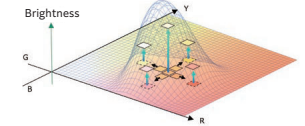
ACI(Amber-red Color Imaging)mode

ACI is an observation mode that combines LCI color enhancement technology with brightness enhancement technology. LCI employs short-wavelength light to emphasize mucosal surface, whereas ACI employs long-wavelength light to emphasize more deeper information. It is developed with intention which improving the visualization of slight difference of blood color (e.g., localization of bleeding source).



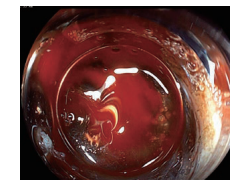
Color enhancement

LCI employs a red color tone as a reference that is close to the mucous membrane, whereas ACI references red color tones similar to blood. In both light modes the contrast of red color tones is increased in a post-processing step.



Brightness enhancement

ACI is emphasize the difference in color shade by adjusting the brightness. This further enhances the contrast of the red color tones close to blood.



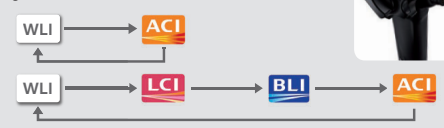
White light Imaging



ACI (Amber-red Color Imaging) mode

Switching observation modes

With a simple push of a button, you can easily switch between the following observation modes. The order and settings can be changed as desired.



Observation modes compatibility

	BLI BLI-brt	LCI	ACI	FICE
800 / 700 system endoscopes	✓	✓	✓ ^{*3}	✓
600 system endoscopes	—	—	—	—
580 series endoscopes	—	—	—	✓
530 series endoscopes ^{*4}	—	—	—	—

^{*1} Only 740 series, 760 series, 840 series, 860 series endoscopes

^{*4} Only EB-530H, EB-530P, EB-530S, EB-530XT, EB-530US

Efficient Workflow

The EP-8000 has enhanced linkage and expandability with various peripherals and systems. It supports easy operation and efficient workflow management.

GW-100 CO₂ Insufflator

The EP-8000 can automatically detect the use of GW-100 CO₂ insufflator and deactivate the air insufflation of the EP-8000 to help prevent the over insufflation.



4K Monitor

Now 4K ready, the EP-8000 is installed with a 12G-SDI output, providing the possibility of 4K video quality.



EP-8000



Endoscopy Support Program

In combination with the EX-1 functional extension unit, CAD EYE supports detection and characterization in the colon.

CADEYE



JW-3 Water Pump

The EP-8000 can now be configured to enable water jet activation at the press of the endoscope switch when used in combination with the JW-3 water pump.



Ultrasound Endoscopy System

Ultrasound endoscopic images can be consolidated and stored on the EP-8000 for centralized management.



Endoscopes



Two digital inputs for PoP

The EP-8000 system is equipped with two digital video input terminals, allowing for two PoP video images to be displayed simultaneously on the endoscopy monitor.



Endoscopes Compatibility

The EP-8000 is compatible with a wide variety of FUJIFILM's Endoscopes ranging from 500/600 system xenon light based endoscopes to the more advanced 700 and 800 system ELUXEO generation endoscopes.



800 system endoscopes
700 system endoscopes



600 system endoscopes
580 series endoscopes
530 series endoscopes¹⁶

¹⁶ EB-530H, EB-530P, EB-530S, EB-530XT and EB-530US only

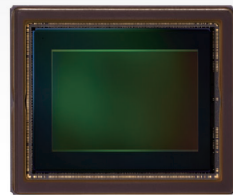
800 SYSTEM ENDOSCOPES



High-resolution CMOS sensor

Compared to the conventional endoscopes^{**}, the sensors integrated in the 800 system endoscopes enable to image with less noise.

^{**} 760 series endoscopes



CMOS Image Sensor^{*8}

^{*8} It may differ from actual image

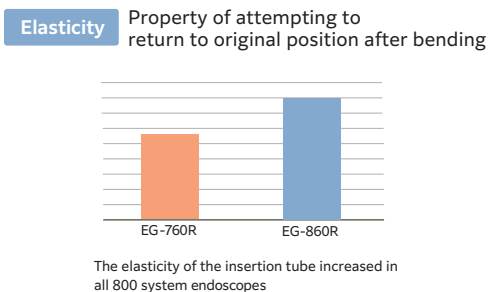
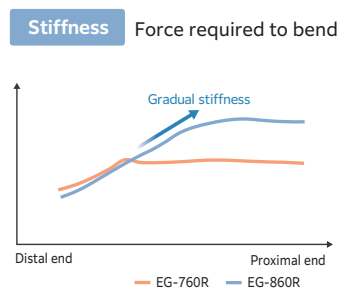


EP-8000+EG-860R

INSERTION SPECIFICATION ①

Streamlined design concept for Insertion Tubes

Since conventional generations, FUJIFILM's 'gradual stiffness' technology has been incorporated in their colonoscopes in which the stiffness changes over the length of the endoscope being softest at the distal end and hardest at the proximal end. This technology now expands towards the 800 system gastroscopes, aiming to improve insertion and operability in the upper gastrointestinal tract.

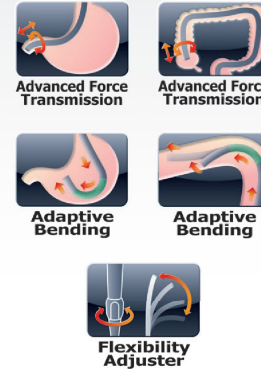


These features are expected to improve endoscopic operability not only colonoscope insertion, but also in the upper gastrointestinal tract, such as during duodenal insertion.

INSERTION SPECIFICATION ②

Three features to support insertion

We have also retained the insertion-related features that have been well received by customers since our conventional models.



Advanced Force Transmission

The insertion tube is designed to easily transmit push-pull and rotation movements by the endoscopist's hand to the distal end of the endoscope, reducing the torque load when performing rotary operations.

Adaptive Bending

The end of the bending section is soft, allowing the endoscope to bend easily. At the same time, it is designed to return more easily to its straight form after passing through the tight curves of the colon.

Flexibility Adjuster

The stiffness of the flexible portion of the 800 system colonoscope can be easily adjusted according to the endoscopist's preference by turning the flexible adjustment ring (levels 0-3).

USABILITY

For better daily operation

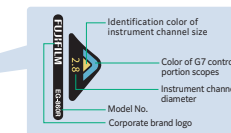
In addition to scope performance, usability also improved.



G7 grip for comfort in daily practice

The G7 grip is designed to have an easy and comfortable feel to enhance performance and reduce stress during clinical procedures.

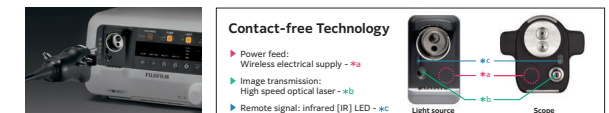
Each 800 system endoscopes displays the information required to choose compatible accessories, which helps to facilitate on-the-spot decision making.



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

One-step Connector for easy plug-in

One-step connector to incorporate an integrated wireless power supply that provides high-speed transmission of data. The design helps to simplify the cleaning process and reduces the potential for accidental damage.

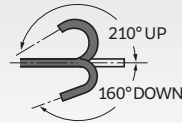


EG-840T/EG-840TP - Therapeutic Type

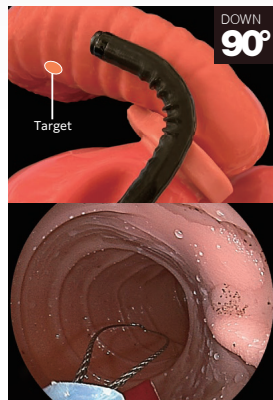


160° Down Angulation

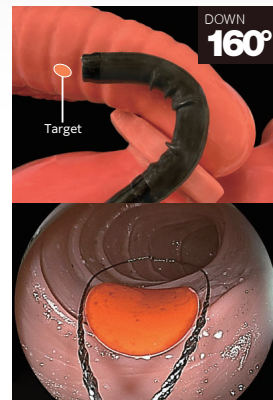
The down-angulation of EG-840T and EG-840TP increased to 160° from 90° while maintaining an up-angulation of 210° which can be found on all 700 series gastroscopes. It is expected to facilitate the observation and treatment of lesions and sites that have been difficult to approach in the past.



Duodenum

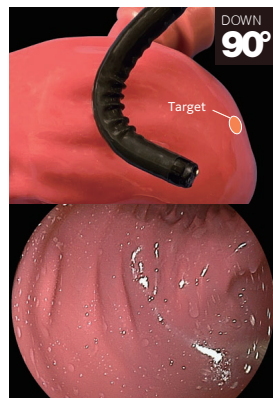


EG-760R

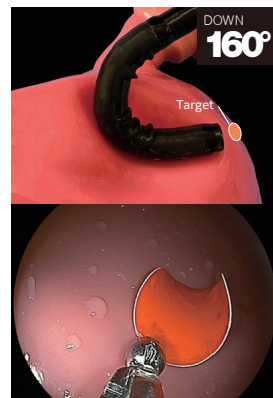


EG-840T

Stomach - cardia



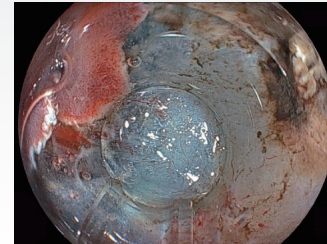
EG-760R



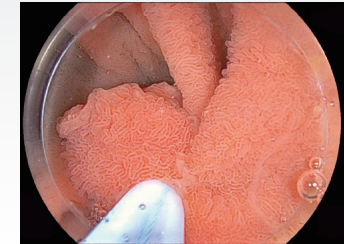
EG-840T

Close observation at 2 mm

The 2mm close-up observation is expected to improve visibility during treatment.



*9



*9



White Light Imaging

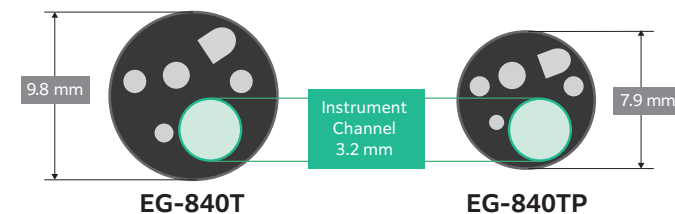


BLI (Blue Light Imaging)

*9 The images are not strictly close observation at 2 mm

3.2 mm Instrument channel with Water Jet function

The EG-840TP has a slim insertion tube diameter of 7.9 mm and manages to incorporate an instrument channel of 3.2 mm, beyond a water jet function. This specification allows fine manipulations even in areas with narrow physical space. The EG-840T has the same instrument channel diameter of 3.2 mm but an insertion tube of 9.8 mm diameter. The insertion tube is stiffer compared of the EG-840TP's and therefore could be useful in areas with a larger space.



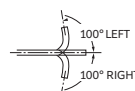
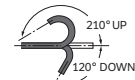
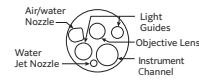
Specification

Upper G.I. tract endoscopes

EG-860R



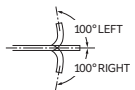
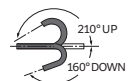
Field of view	140°
Viewing direction	0°
Observation range	2-100 mm
Bending capability	UP: 210° Down: 120° Right: 100° Left: 100°
Working length	1,100 mm
Total length	1,400 mm
Distal end diameter	8.9 mm
Insertion tube diameter	8.9 mm
Minimum instrument channel diameter	2.8 mm
Product name	Video endoscope GMDN: 38805
Generic name	Flexible video gastroduodenoscope



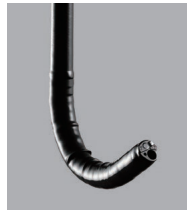
EG-840T



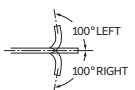
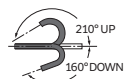
Field of view	140°
Viewing direction	0°
Observation range	2-100 mm
Bending capability	UP: 210° Down: 160° Right: 100° Left: 100°
Working length	1,100 mm
Total length	1,400 mm
Distal end diameter	9.8 mm
Insertion tube diameter	9.8 mm
Minimum instrument channel diameter	3.2 mm
Product name	Video endoscope GMDN: 38805
Generic name	Flexible video gastroduodenoscope



EG-840TP



Field of view	140°
Viewing direction	0°
Observation range	2-100 mm
Bending capability	UP: 210° Down: 160° Right: 100° Left: 100°
Working length	1,100 mm
Total length	1,400 mm
Distal end diameter	7.9 mm
Insertion tube diameter	7.9 mm
Minimum instrument channel diameter	3.2 mm
Product name	Video endoscope GMDN: 38805
Generic name	Flexible video gastroduodenoscope

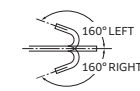
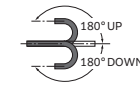
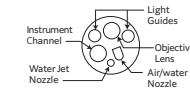


Lower G.I. tract endoscopes

EC-860S/M

Field of view	170°	170°	170°
Viewing direction	0°	0°	0°
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	1,520 mm	1,690 mm
Total length	1,650 mm	1,840 mm	2,010 mm
Distal end diameter	12.8 mm	12.8 mm	12.8 mm
Insertion tube diameter	12.8 mm	12.8 mm	12.8 mm
Minimum instrument channel diameter	3.8 mm	3.8 mm	3.8 mm

Product name : Video endoscope GMDN: 36117
Generic name : Flexible video colonoscope, reusable



EC-860P/M

Field of view	170°	170°
Viewing direction	0°	0°
Observation range	2-100 mm	2-100 mm
Bending capability	UP: 180° Down: 180° Right: 160° Left: 160°	UP: 180° Down: 180° Right: 160° Left: 160°
Working length	1,330 mm	1,690 mm
Total length	1,650 mm	2,010 mm
Distal end diameter	11.5 mm	11.5 mm
Insertion tube diameter	11.5 mm	11.5 mm
Minimum instrument channel diameter	3.2 mm	3.2 mm

Product name : Video endoscope GMDN: 36117
Generic name : Flexible video colonoscope, reusable

