

# ELUXEO® 8000

Endoscopy system



From  
diagnosis to  
treatment



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# WELCOME, FUTURE

## A new era of possibilities in endoscopy – tomorrow is more exciting than ever

As we look to the future, we are excited by the endless possibilities for advancements in endoscopy technology. We are continually inspired by questions about how endoscopy will evolve with advancements in AI and how we will ensure that progress is accessible to all. With over 90 years of imaging heritage, we are committed to supporting the endoscopy community with our innovations, knowledge, and quality craftsmanship.

Our goal is simple: to make endoscopy better than ever before for both the patient and the clinician.

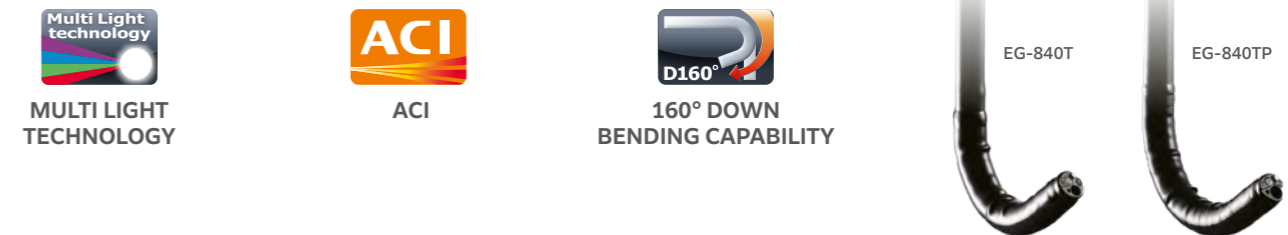
## Advanced image quality

Image processing has been redesigned and now supports 4K resolution output. With Triple Noise Reduction and Extended Dynamic Range Technology, the images become sharper and brighter than ever before. All endoscopes of the 800 series are equipped with a CMOS sensor.



## Expanded therapeutic solution

The EP-8000 processor offers the new ACI (Amber-red Color Imaging) observation mode, designed to enhance the visualisation of slight colour tone differences of blood colour (e.g. for the estimating of the bleeding source). Furthermore, the portfolio has been extended by two gastroscopes dedicated to advanced treatment.



## Efficient workflow

Designed for ease-of-use and dynamic workflow management, the EP-8000 offers improved connectivity that can be expanded with various peripheral devices and systems.



\* Combine equipment displaying this logo to ensure that you view 4K images on your monitor.

Triple Noise Reduction

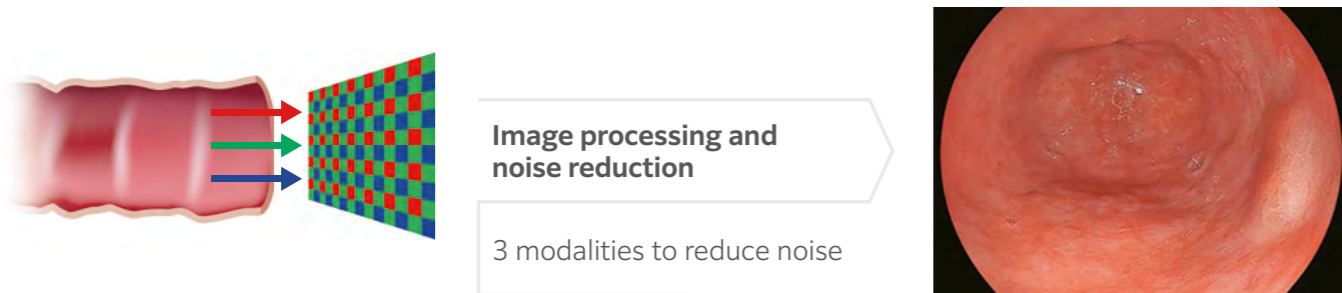


Extended Dynamic Range

# BRIGHTER & SHARPER IMAGES WITH LESS HALATION

## Triple Noise Reduction

Fujifilm's latest Triple Noise Reduction (3NR) combines proprietary noise reduction technologies from three core imaging modalities including; X-ray, Ultrasound and conventional Endoscopy.



**1. from X-ray:**  
By analysing line structures such as blood vessels



**2. from Endoscopy:**  
By analysing sequential frames



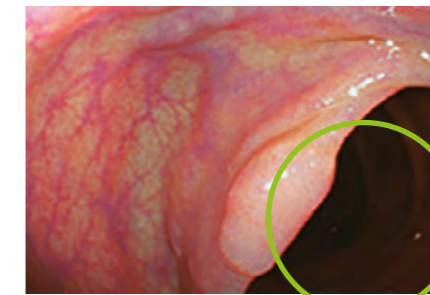
**3. from Ultrasound:**  
By analysing surface structures such as mucous membranes



## Extended Dynamic Range

Fujifilm's dimming and tone control technology 'Extended Dynamic Range' dynamically adjusts the brightness of the near and far field, reducing halation in the near field. This results in an overall brighter and more detailed video image.

### VP-7000 / BL-7000



Dark area

Dynamic range\*

Dimming control



Halation area

### EP-8000



Dark area

1 Dynamic range

2 Dimming control



Halation area

1. **Dynamic range** extended on the dark area  
2. **Dimming control** to match the extended dynamic range

\* Dynamic Range is the range of tonal difference between the lightest light and darkest dark of an image

## Multi Light Technology

**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 improved visualisation in endoscopy – today and in the future.

**This illumination creates high-quality images** with White Light Imaging and the observation modes LCI, BLI and ACI. With a simple push of a button, you can easily switch between the observation modes.

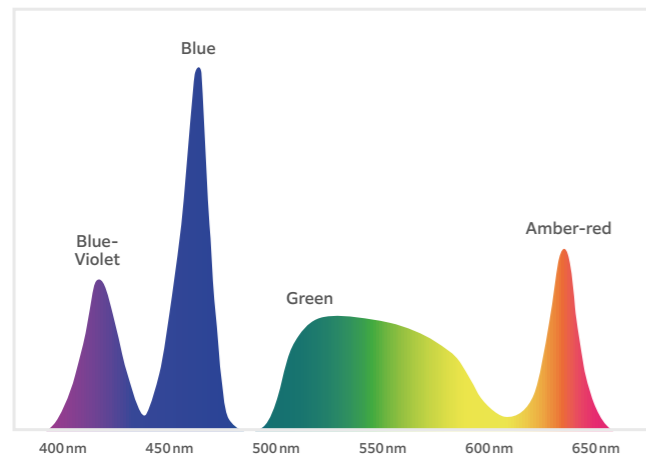
## Example of ESD workflow & usage of each observation mode

**ELUXEO® 8000 endoscopy system** provides detailed high-resolution imaging for both diagnosis and pre-therapeutic assessment as well as therapeutic interventions.



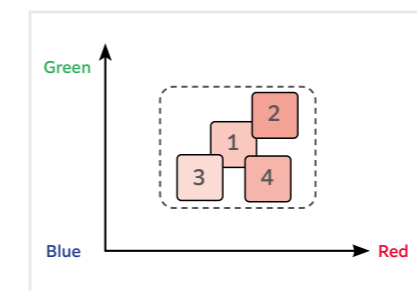
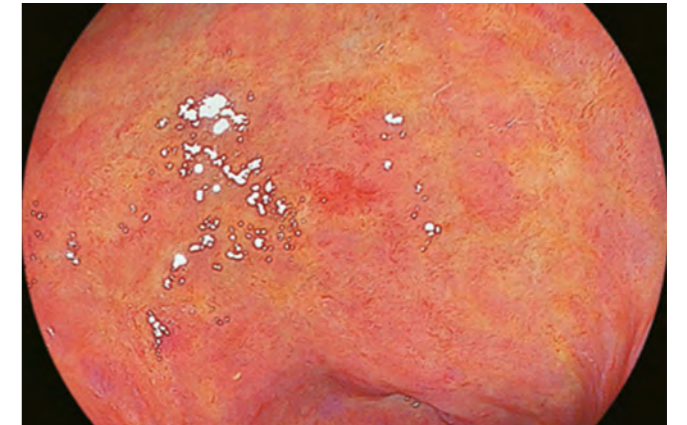
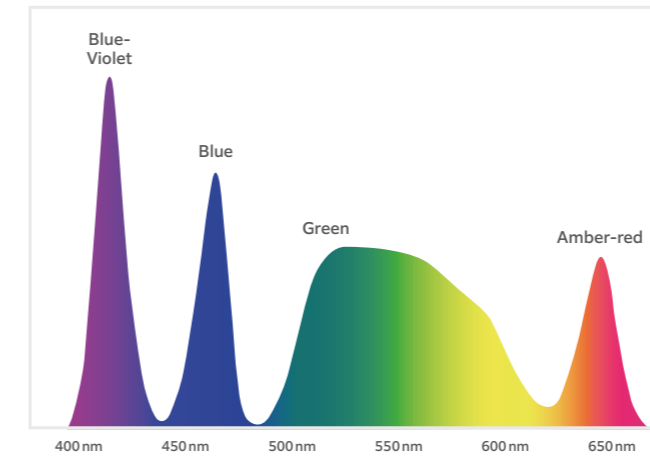
### White Light Imaging

The endoscopic system provides high image quality in terms of sharpness and brightness to gather necessary visual information for diagnostic and therapeutic procedures in daily clinical practice.

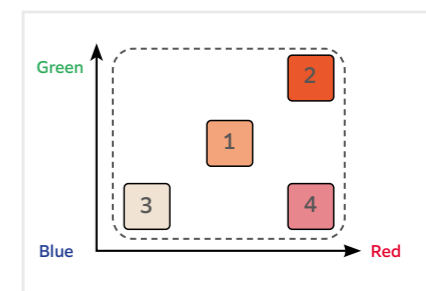


### LCI (Linked Color Imaging) mode

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

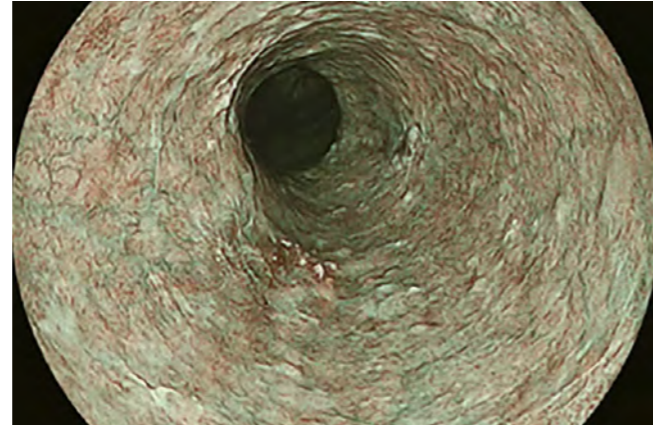
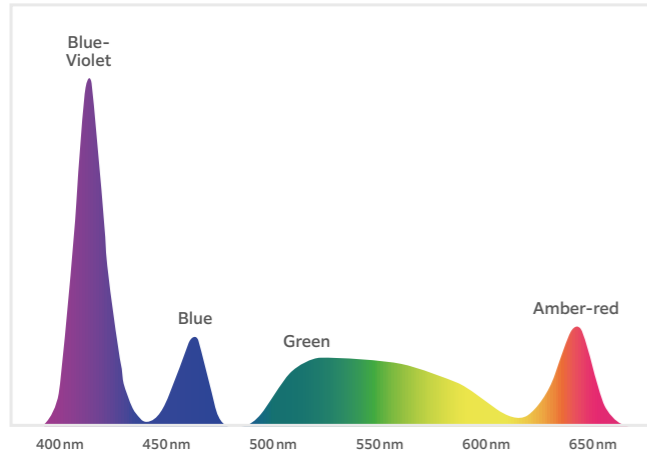


Colour enhancement



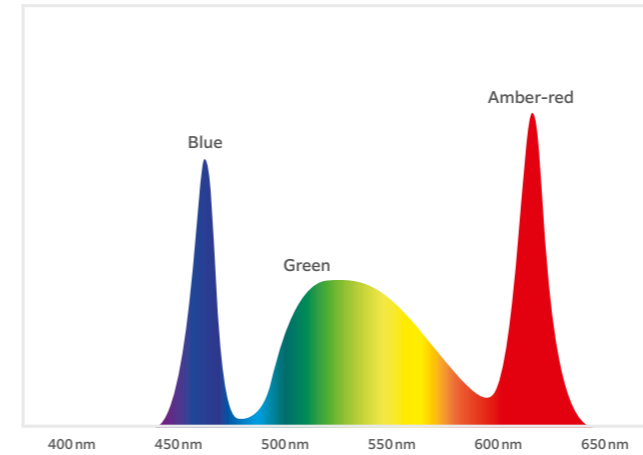
## BLI (Blue Light Imaging) mode

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



## ACI (Amber-red Color Imaging) mode

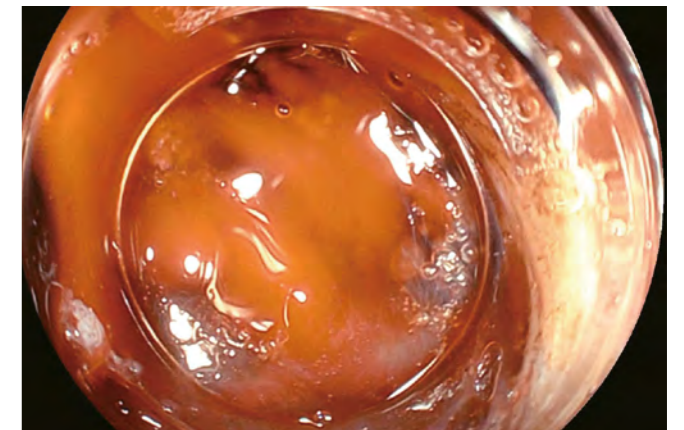
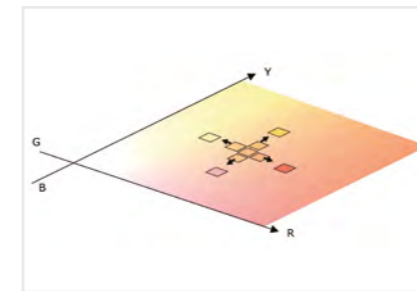
ACI is an observation mode that combines LCI colour enhancement technology with brightness enhancement technology. ACI specifically aims to visualise subtle nuances in red colouration while maintaining a colour tone similar to White Light Imaging, potentially making it a tool for identifying bleeding sources during ESD and other 3rd space endoscopy treatments.



White Light Imaging

### Colour enhancement

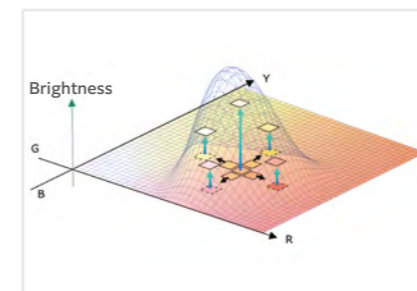
LCI employs a red colour tone as a reference that is close to the mucous membrane, whereas ACI references red colour tones similar to blood. In both observation modes the contrast of red colour tones is increased in a post-processing step.



ACI Mode

### Brightness enhancement

ACI emphasises the difference in colour shade by adjusting the brightness. This further enhances the contrast of the red colour tones closest to blood.



### 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

Endoscope	BLI	LCI	ACI	FICE
800 / 700 system endoscopes	●	●	●*	●
600 system endoscopes				●
580 series endoscopes				●
530 series endoscopes**				●

\* Only 860 series, 840 series, 760 series, 740 series endoscopes  
\*\* Only EB-530H, EB-530P, EB-530S, EB-530T, 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.



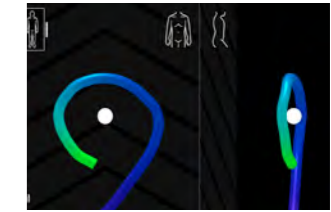
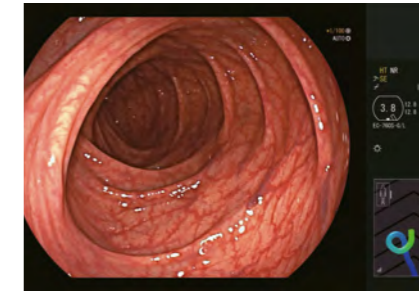
### GW-100 CO2 Insufflator

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.

### Endoscope visualisation system



Fujifilm's Endoscope Visualisation System displays the shape of the endoscope in real-time by reproducing a coloured graphical representation of the endoscope next to endoscopic view.



The endoscope shape is to be displayed on the monitor by using the PoP function



### 4K Monitor



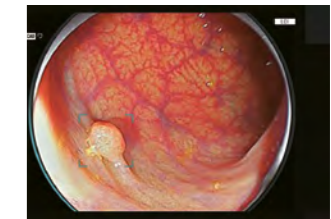
Now 4K ready, the EP-8000 is installed with a 12G-SDI output, providing the possibility of 4K video quality.



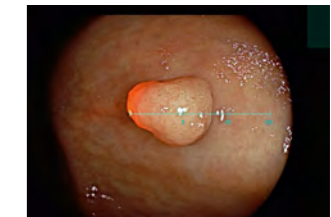
### Endoscopy support



CAD EYE aims to support the detection and characterisation of colorectal polyps. It works with all ELUXEO® 800 & 700 series colonoscopes combined with EW10-EC02 software and EX-1 hardware.



SCALE EYE is designed to assist endoscopists in estimating the size of an object (e.g. polyp) in the colon.



### Ultrasound Endoscopy System

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



### 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.



### 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

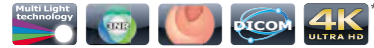
The EP-8000 is compatible with a wide variety of Fujifilm's endoscopes ranging from 530\*/580/600 system xenon light based endoscopes to the more advanced 700 and 800 system ELUXEO® generation endoscopes.



\* Combine equipment displaying this logo to ensure that you view 4K images on your monitor.

\*Only EB-530H, EB-530P, EB-530S, EB-530T, EB-530XT, EB-530US

## EP-8000 ELUXEO HIGH-PERFORMANCE VIDEO PROCESSOR



To achieve high image quality standards, the ELUXEO® 8000 system features the LED Multi Light source. Now 4K ready, the EP-8000 system is installed with a 12G-SDI output, providing the possibility of 4K video quality. Its enhanced linkage and expandability with various peripherals and systems support easy operation and efficient workflow management.

The EP-8000 is compatible with a wide variety of Fujifilm's endoscopes ranging from 530\*\*/580/600 system xenon light based endoscopes to the more advanced 700 and 800 system ELUXEO® generation endoscopes.

Light source	Multi LED
Air supply pump	High, Mid, Low, Off
Compatible endoscopes	800, 700, 600, 580 series endoscopes EB-530H, EB-530P, EB-530S, EB-530T, 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, 3.0–1.5A
Dimensions (W x H x D)	395 x 210 x 515 mm (including projection)
Weight	18.0 kg



EG-840T | EG-840TP | EG-860R | EG-840N | EC-860P/M, L | EC-860S/M, I, L

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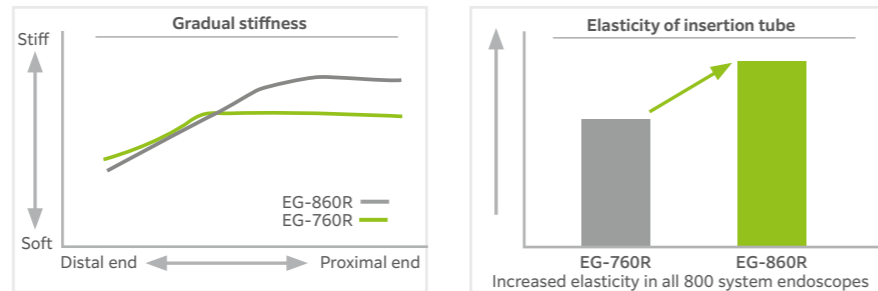
\* Combine equipment displaying this logo to ensure that you view 4K images on your monitor.  
\*\* Only EB-530H, EB-530P, EB-530S, EB-530T, EB-530XT, EB-530US

## Endoscopy technology

### Streamlined design concept for insertion tubes

Since conventional generations, Fujifilm's "gradual stiffness" technology has been incorporated into 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 series gastroscopes, aiming to improve insertion and operability in the upper gastrointestinal tract.

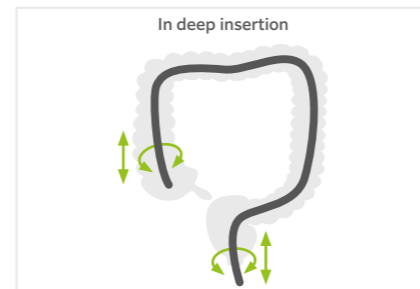
These features are expected to improve endoscopic operability, not only for colonoscope insertion, but also in the upper gastrointestinal tract, such as during duodenal insertion.



### Advanced Force Transmission



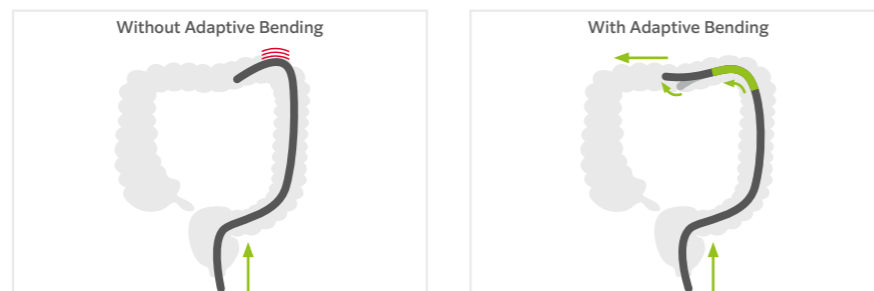
The insertion tube is designed to easily transmit push-pull and rotation movements from the endoscopist's hand to the distal end of the endoscope, reducing the torque load when performing rotary operations.



### Adaptive Bending



The end of the bending section is soft, allowing the endoscope to bend easily. The flexible bending section has been designed to return more easily to its straight form after passing through the tight curves of the colon.



### Flexibility Adjuster



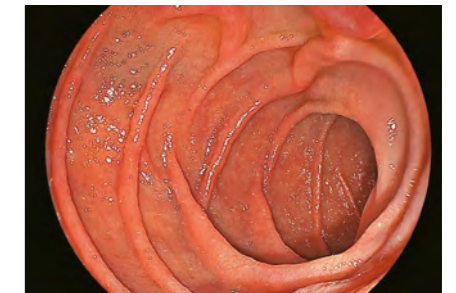
The stiffness of the insertion tube of the 800 system colonoscope can be easily adjusted according to the endoscopist's preference by turning the flexibility adjustment ring (levels 0 - 3).

## Image quality

### High-resolution CMOS sensor



Compared to the conventional 760 series endoscopes, the high-sensitivity sensors integrated in the 800 series endoscopes enable the image to be viewed with less noise.



## Usability

### 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 series endoscope displays the information required to choose compatible accessories, which helps to facilitate on-the-spot decision making.



### 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.





# THERAPEUTIC GASTROSCOPES

## Excellent bending capability

The EG-840TP and the EG-840T therapeutic gastroscopes feature a high-sensitivity CMOS sensor and provide a unique 160 degrees down-angulation to also access difficult-to-reach areas.

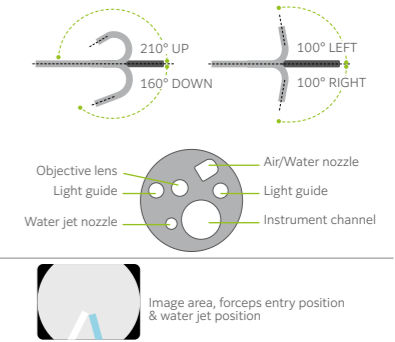
The instrument channel diameter of 3.2 mm provides a good balance of suction performance and control of the inserted instrument, making it possibly suitable for advanced therapeutic interventions like ESD.



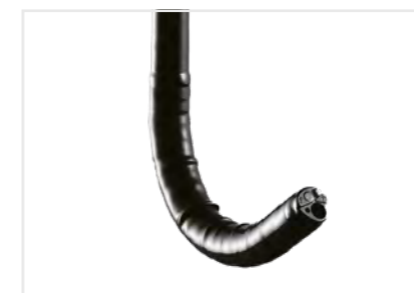
### EG-840T ELUXEO® VIDEO GASTROSCOPE Therapeutic type



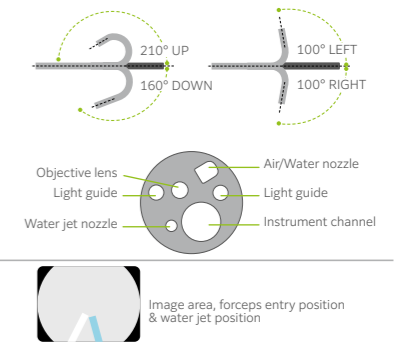
Viewing direction	0° (Forward)
Field of view	140°
Observation range	2 - 100mm
Bending capability	Up 210°/Down 160° Right 100°/Left 100°
Ø Distal end	9.8 mm
Ø Insertion tube	9.8 mm
Minimum Ø of instrument channel	3.2mm
Working length	1,100 mm
Total length	1,400mm



### EG-840TP ELUXEO® VIDEO GASTROSCOPE Slim therapeutic type

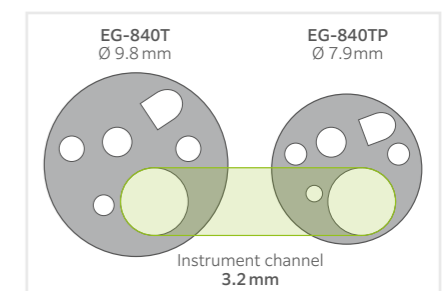


Viewing direction	0° (Forward)
Field of view	140°
Observation range	2 - 100mm
Bending capability	Up 210°/Down 160° Right 100°/Left 100°
Ø Distal end	7.9 mm
Ø Insertion tube	7.9 mm
Minimum Ø of instrument channel	3.2mm
Working length	1,100 mm
Total length	1,400mm



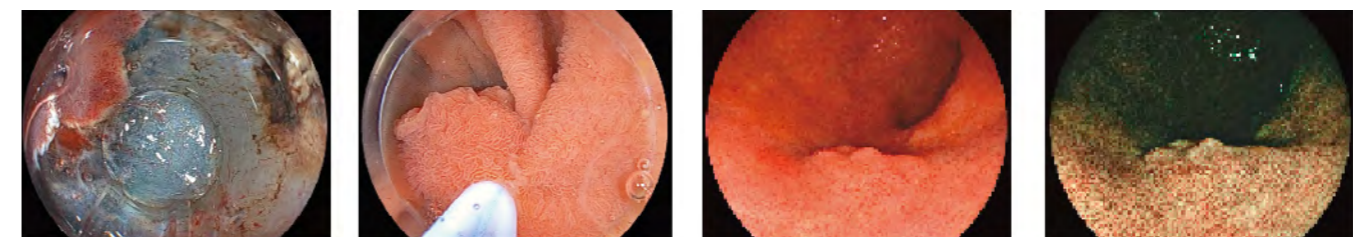
### 3.2 mm instrument channel with Water Jet function

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 to EG-840TP endoscopes and therefore could be useful in areas with a larger space.



### Close observation at 2 mm

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



The illustrated image does not strictly show close observation at 2 mm

The illustrated image does not strictly show close observation at 2 mm

White Light Imaging mode

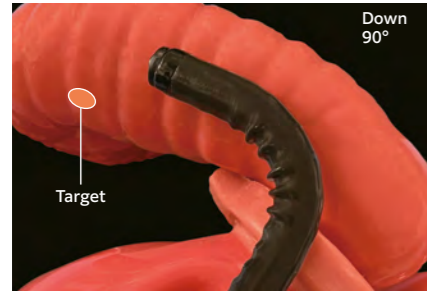
BLI Imaging Mode

\* Combine equipment displaying this logo to ensure that you view 4K images on your monitor.

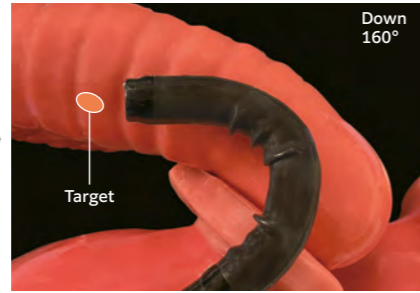
## 160° down angulation

The down-angulation of EG-840T and EG-840TP has been increased to 160° from 90° while maintaining an upwards-angulation of 210° which can be found in 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.

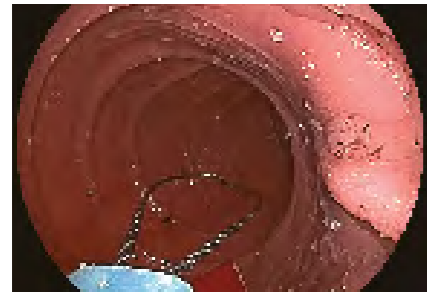
### Duodenum



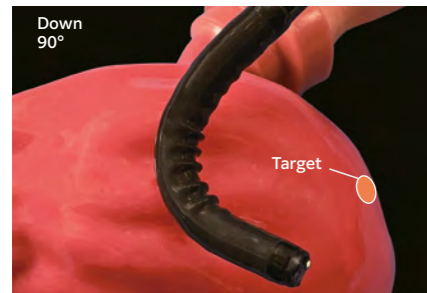
EG-760R



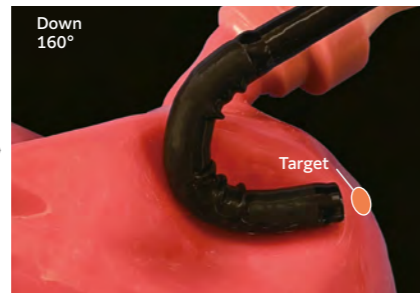
EG-840T



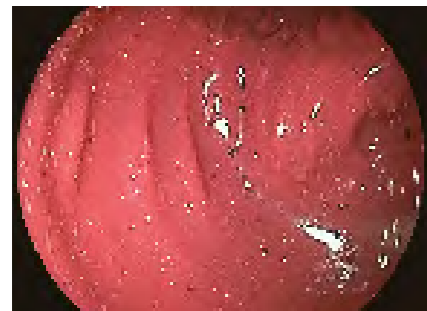
### Stomach



EG-760R



EG-840T



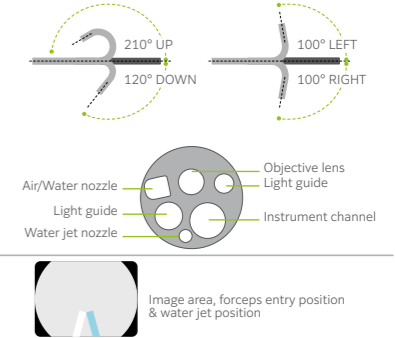
## EG-860R ELUXEO® VIDEO GASTROSCOPE Routine type



This routine gastroscopically for the ELUXEO® 800 series is equipped with high sensitivity CMOS sensor. It allows observation from as little as 2 mm in depth and has a down angulation of 120°.



Viewing direction	0° (Forward)
Field of view	140°
Observation range	2 - 100 mm
Bending capability	Up 210°/Down 120° Right 100°/Left 100°
Ø Distal end	8.9 mm
Ø Insertion tube	8.9 mm
Minimum Ø of instrument channel	2.8 mm
Working length	1,100 mm
Total length	1,400 mm



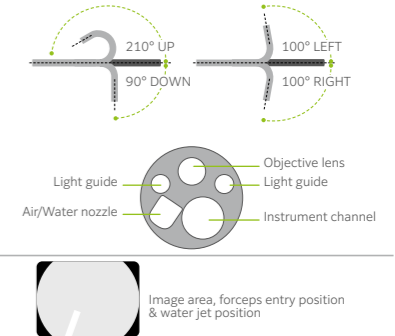
## EG-840N ELUXEO® VIDEO GASTROSCOPE Ultra slim type



The ultra slim gastroscopically equipped with a high sensitivity CMOS sensor has a distal end diameter of 5.8 mm which is expected to be useful for narrow GI anatomy and for cases featuring stenosis. The slim distal end also supports a soft transnasal insertion and offers the potential to alleviate patients' discomfort.



Viewing direction	0° (Forward)
Field of view	140°
Observation range	2 - 100 mm
Bending capability	Up 210°/Down 90° Right 100°/Left 100°
Ø Distal end	5.8 mm
Ø Insertion tube	5.9 mm
Minimum Ø of instrument channel	2.4 mm
Working length	1,100 mm
Total length	1,400 mm

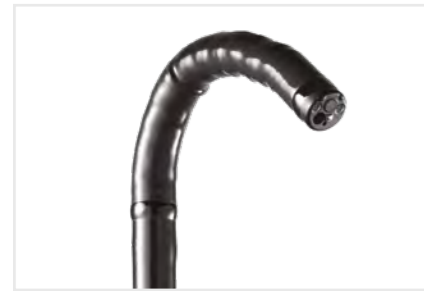


\* Combine equipment displaying this logo to ensure that you view 4K images on your monitor.

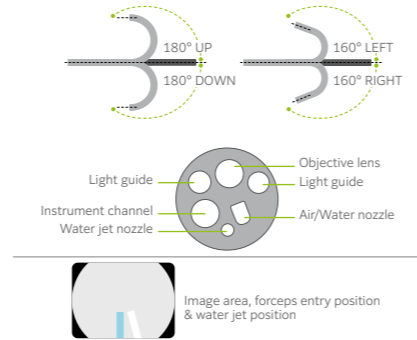
## EC-860P/M, L ELUXEO® VIDEO COLONOSCOPE Slim type



This slim colonoscope has a distal end diameter of only 11.5 mm and is therefore expected to be useful for narrow GI anatomy, cases featuring stenosis and therapeutic use. A wide 170° field of view enables a visualisation even in hard-to-observe areas. The Flexible Adjuster is expected to support easier insertion.



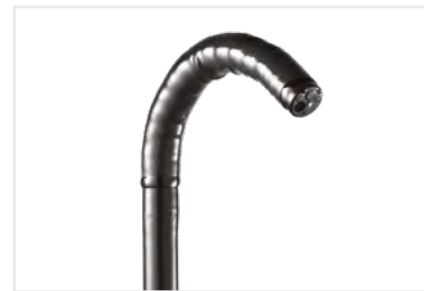
Viewing direction	0° (Forward)
Field of view	170°
Observation range	2 - 100 mm
Bending capability	Up 180°/Down 180° Right 160°/Left 160°
Ø Distal end	11.5 mm
Ø Insertion tube	11.5 mm
Minimum Ø of instrument channel	3.2 mm
Working length	1,330 mm 1,690 mm
Total length	1,650 mm 2,010 mm



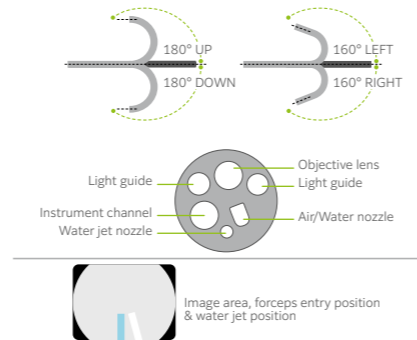
## EC-860S/M, I, L ELUXEO® VIDEO COLONOSCOPE Routine type



This routine colonoscope is equipped with a high-sensitivity CMOS sensor and has a wide field of view of 170° as well as a large Instrument channel of 3.8 mm. It is available in three lengths.



Viewing direction	0° (Forward)
Field of view	170°
Observation range	2 - 100mm
Bending capability	Up 180°/Down 180° Right 160°/Left 160°
Ø Distal end	12.8 mm
Ø Insertion tube	12.8 mm
Minimum Ø of instrument channel	3.8 mm
Working length	1,330 mm 1,520 mm 1,690 mm
Total length	1,650 mm 1,840 mm 2,010 mm



\* Combine equipment displaying this logo to ensure that you view 4K images on your monitor.

# FUJIFILM

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