Enhancing the quality of life of people worldwide

FUJIFILM is known as the world’s largest photographic and imaging company and is pioneering in diagnostic imaging and information systems for healthcare facilities. The current endoscopic equipment provides high-definition video endoscopy and endoscopic ultrasound for gastroenterologists and pulmonologists. The actual range of endoscopes and the EPX-4450HD processor technology come with FICE Dual Mode and DICOM on-board.

We will use leading-edge, proprietary technologies to provide top-quality products and services that contribute to the advancement of culture, science, technology and industry, as well as improved health and environmental protection in society. Our overarching aim is to help enhance the quality of life of people worldwide.

Innovative solutions
As one of the leading companies in the development of endoscope technology, FUJIFILM regularly sets new benchmarks in the industry, for example with devices for double balloon endoscopy and transnasal endoscopy. However, the focus at FUJIFILM is very much on holistic patient care. Our service portfolio therefore also includes competent technical assistance, a comprehensive range of hygiene products and individual consulting.

New opportunities
Whether it is with the most advanced optical technology, state-of-the-art digital image processing or new examination methods, FUJIFILM is always creating new opportunities in the world of endoscopy. In this way, we are making a significant contribution to the early detection of diseases and their successful treatment.

Dedicated research, the continuous enhancement of our technology, the highest quality demands and close working relationships with international specialists set the global standard in FUJIFILM endoscopy and endosonography.

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600 series and EPX-4450HD Technology

600 series CMOS endoscope & EPX-4450HD system: a solution for new horizons in endoscopy realized by CMOS Technology

With advanced total solutions, FUJIFILM is ready to fulfill a broad range of diagnostic and therapeutic endoscopic requirements.

600 series CMOS endoscopes feature leading-edge optical technologies to provide clear, bright endoscopic images for easier and more accurate diagnosis. The ergonomic grip design ensures a smooth and comfortable handling. The fully digital processor EPX-4450HD employs state-of-the-art digital signal processing. This system is also optimized to employ the latest FICE imaging capability. FUJIFILM’s endoscopy system is a total solution to support image input, processing and sharing, surely contributing to more efficient endoscopy from now on with its excellent performance.
The leading-edge 600 series CMOS endoscopes with full digital processor EPX-4450HD realize advanced observation and diagnosis

**CMOS Technology**

**Over megapixel CMOS image sensor producing high-definition image**

By adopting over megapixel CMOS image sensor, 600 series endoscopes enable high-definition image to be produced. And the leading-edge CMOS Technology realizes less noise and brilliant image. To adopt CMOS image sensor can change the analog signal to digital in the tip of scope. During transmission of signal, the digital signal is much less affected by the noise from the outside. Those features make advanced observation and diagnosis possible.

**Megapixel 60P (60 frames/s progressive) video realizes smooth and clear video ability**

CMOS Technology realizes 60P video even though over megapixel. With the 60 frame progressive scanning method, it is possible to produce not only smooth and clear video but also high-definition and less blur still images.

**Improved operability**

New positioning of the functional switches, air/water and suction valve minimize finger travel and improve efficiency.

**Improved cleaning and disinfection**

Cleanliness and safety focused on full defense against contamination. Easily soiled air/water valve is removable and autoclavable. A smoother, flatter surface assures all areas receive optimal contact with cleaning and high-performance disinfecting solutions.

**Flexible portion**

In upper and lower gastrointestinal endoscopy, the great flexibility of the endoscope allows easy insertability and the comfort of the examinee.

**Light-weight connector**

The connectors incorporated in the 600 and 500 series endoscopes are slim, light-weight, and easy to handle. Procedures are easy when the endoscope has to be removed/attached for cleaning and disinfection on every occasion of endoscopy.

**Water jet function**

Main endoscopes for the lower gastrointestinal tract have a water jet nozzle in addition to the forceps channel. The water jet nozzle effectively removes mucus on the surface being examined.
FICE (Flexible spectral Imaging Color Enhancement)

FICE – "Flexible spectral Imaging Color Enhancement" – in the new EPX-4450HD yields diagnostic results without any need for tissue staining. The procedure digitally limits the wavelengths of the light and displays it in up to ten different color combinations. The endoscope switch allows physicians to switch between the conventional image and the FICE image in a split second, ensuring an uninterrupted examination with the eyes always concentrated on the monitor.

FICE with CMOS Technology

FICE combination with CMOS Technology provides advanced FICE image
Through high-definition and improved noise reduction, FICE images are sharper and clearer than ever. It enables easier differentiation between lesion-affected and non-affected tissue.

Close Focus with CMOS Technology

Close Focus with CMOS Technology enhance image for diagnosis
The newly designed high performance optical system enhances close focus observation capability up to 2 mm. The focus at the edges of an image has been improved, minimizing distortion in observation of a lumen. Through a combination with the Megapixel CMOS image sensor, high performance optical system assists various observations ranging from close-up to distant views.

Anti-blur function

Anti-blur function: extracting the best still image from multiple images
The anti-blur function offers sharpest and clearest images for review and documentation in any occasion.

Achieving always optimal illuminated images with automatic control of the photometric mode
The automatic photometric mode optimally adjusts the lighting in accordance with the positioning of the endoscope, providing you with a well-balanced picture from close-up to distant focusing.

* Available with the 600 and 500 series endoscopes
E-Zoom (Electronic Zoom) provides better visibility
E-Zoom image can be provided by pressing the scope button once. Normally, E-Zoom enhance noise of image. However less noise 600 series FICE image allow to use E-Zoom function. It is possible to observe the detail of surface pattern as well as vascular pattern.

Dual Mode simultaneously display a FICE image and white light image on the same monitor
By having a dual view of a FICE image and white light image on the same monitor, you can collect more information for examination and diagnosis.

Change the FICE preset pattern with the endoscope switch in real-time*
Use the endoscope button to select up to three wavelength patterns from presets. You can switch quickly, moving to the next FICE image with a single push of a button which allows selection of the best pattern for the respective diagnosis.

Newly developed insertion portion for better insertion into the colon
Gradual Stiffness
The flexibility of the insertion portion gradually increases toward the distal end. Gradual stiffness level is adjusted as comfortable for insertion. It is possible to transmit the insertion power to the tip of scope more effectively.

Endoscopes with Gradual Stiffness
- EC-600WD/M, L (New)
- EC-600WM/W/WL (New)
- EC-590WD/M/L (New)
- EC-590WD5/M, EC-590WD5/L
- EC-590WD4/W4/WL4
- EC-600WD5/W5/WL5

Improved torque and force transmission and operation ability
By adopting newly developed insertion portion both torque and force transmission have been improved. Even when the tip of scope is located in the deep part of colon, the tip of scope can react sensitively. It’s small diameter of 12.0mm (for EC-600WD/M/WL) aims to produce better operability and reduce patient’s discomfort.

Anti-Slip
Improved grip performance with newly-designed surface shape
Ribbed surface prevents slipping and improves handling of the endoscope. Colonoscopy can be performed more easily and comfortably even in long examinations.
Video Gastroscope
▶ **EG-600WR**

- **Field of view**: 140°
- **Observation range**: 2 – 100 mm
- **Bending capacity**: UP 210° / DOWN 90° / RIGHT 100° / LEFT 100°
- **Distal end diameter**: 9.2 mm
- **Flexible portion diameter**: 9.3 mm
- **Forceps channel diameter**: 2.8 mm
- **Working length**: 1,100 mm
- **Total length**: 1,400 mm
- **Water jet**: Equipped

- **Image area & Forceps entry position**

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**Multi Zoom function**

The new gastroscope EG-600ZW and the new colonoscope EC-600ZW are both equipped with a Multi Zoom function. This function has four different focus modes: "2 Step", "3 Step", "5 Step" and "Continuous". In the Step Zoom modes, the focus can be switched between different magnification levels (such as between Normal and Low, or Low and Middle) with a simple press of a button. The users can choose the mode that suits them most based on their preference and level of expertise.

The newly designed optical system provides a wider observation range and makes it easier to focus on the target from close distances. The focus has also been improved to provide smoother transitions between the different magnification levels.

- **Field of view (Normal)**: 140° / (Closest): 56°
- **Observation range (Normal)**: 1.5-100 mm
- **Bending capacity**: UP 210° / DOWN 90° / RIGHT 100° / LEFT 100°
- **Distal end diameter**: 9.9 mm
- **Flexible portion diameter**: 9.8 mm
- **Forceps channel diameter**: 2.8 mm
- **Working length**: 1,100 mm
- **Total length**: 1,400 mm
- **Water jet**: Equipped

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Video Colonoscope
▶ **EC-600WM / WI / WL**

- **Field of view**: 140°
- **Observation range**: 2 – 100 mm
- **Bending capacity**: UP 180° / DOWN 180° / RIGHT 160° / LEFT 160°
- **Distal end diameter**: 12.0 mm
- **Flexible portion diameter**: 12.0 mm
- **Forceps channel diameter**: 3.8 mm
- **Working length**: 1,330/1,520/1,690 mm
- **Total length**: 1,630/1,820/1,990 mm
- **Water jet**: Equipped

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**Video Colonoscope**
▶ **EC-600ZW/M, L**

- **Field of view**: 140° / (Closest): 56°
- **Observation range (Normal)**: 1.5-100 mm
- **Bending capacity**: UP 180° / DOWN 180° / RIGHT 160° / LEFT 160°
- **Distal end diameter**: 12.8 mm
- **Flexible portion diameter**: 12.8 mm
- **Forceps channel diameter**: 3.8 mm
- **Working length**: 1,330/1,690 mm
- **Total length**: 1,630/1,990 mm
- **Water jet**: Equipped

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*When using a 19 inch LCD monitor*
Forceps channel diameter of 2.4mm for transnasal scope (EG-580NW2)

By increasing the forceps channel diameter from 2.0mm to 2.4mm, the suction capacity improved by approximately 1.4 times compared with previous models. When a biopsy forcep is inserted, the suction performance is increased by approximately 7 times, thus assisting faster examinations.

Approx. 1.4x higher suction performance

**Video Gastroscope - Transnasal Type**

**EG-580NW2**

- **Field of view**: 140°
- **Observation range**: 3-100 mm
- **Bending capability**: UP 210° / DOWN 90° / LEFT 100°
- **Distal end diameter**: 5.0 mm
- **Flexible portion diameter**: 5.0 mm
- **Forceps channel diameter**: 2.4 mm
- **Working length**: 1,100 mm
- **Total length**: 1,400 mm

**Video Gastroscope - Treatment Type**

**EG-580RD**

- **Field of view**: 140°
- **Observation range**: 3-100 mm
- **Bending capability**: UP 210° / DOWN 90° / LEFT 100°
- **Distal end diameter**: 9.8 mm
- **Flexible portion diameter**: 9.8 mm
- **Forceps channel diameter**: 3.2 mm
- **Working length**: 1,100 mm
- **Total length**: 1,400 mm
- **Water jet**: Equipped

**Video Colonoscope – Slim/Treatment Type**

**EC-580RD/M, EC-580RD/L**

- **Field of view**: 140°
- **Observation range**: 3-100 mm
- **Bending capability**: UP 210° / DOWN 160° / LEFT 160°
- **Distal end diameter**: 9.8 mm
- **Flexible portion diameter**: 10.5 mm
- **Forceps channel diameter**: 3.2 mm
- **Working length**: 1,330 / 1,690 mm
- **Total length**: 1,630 / 1,990 mm
- **Water jet**: Equipped

**Smart Bend (EC-580RD/M,L)**

Smart Bend provides excellent maneuverability, observation and treatment by 210° up angulation, smaller bending radius and shorter rigid part

Smart Bend features allow precise manipulation, enabling observation and treatment of areas usually difficult to approach, like overlapping or folded parts. Thus, the great bendability helps a wide range of procedures efficiently including screening, diagnosis, and treatment such as EMR and ESD.
New therapeutic Double Balloon Endoscope with 3.2 mm diameter forceps channel – ideal for various procedures

High-definition therapeutic Double Balloon Endoscope EN-580T

3.2 mm forceps channel

A large forceps channel of 3.2 mm in diameter for efficient treatment

The 3.2 mm diameter forceps channel suits various procedures like hemostasis and balloon dilation. As it enables blood or mucus to be aspirated while a therapeutic device is inserted, quicker hemostasis is possible. The large forceps channel is also intended for easier insertion and removal of a balloon catheter before and after dilation of structures.
580 New Super CCD with Close Focus

Superior image quality in close focus for more detailed diagnosis

The new high-definition Super CCD ensures vivid and high quality images, while the newly designed Close Focus optics enhances the possibility of obtaining more detailed images, thus allowing the compilation of a wide range of data necessary for diagnosis. Used in combination with FICE, it provides better contrast for vascular and surface patterns in close focus, emphasizing the structure of tissue aspects and vessels.

One-touch connector and relocated balloon air feed inlet

Newly designed one-touch connector and relocated balloon air feed inlet for better operability

The balloon air feed inlet has been relocated from the control portion to the connector portion, creating a better examination environment. Also, a one-touch type connector especially designed for the balloon air feed inlet on the endoscope is provided, making the preparation simpler.

Enteroscope – Treatment Type

EN-580T / EN-530T

Viewing direction 0° (Forward)
Field of view 140°
Observation range 2-100 mm
Distal end diameter 5.4 mm
Flexible portion diameter 5.3 mm
Bending capability UP 180° / DOWN 180°
RIGHT 160° / LEFT 160°
Working length 2,000 mm
Total length 2,300 mm
Forceps channel diameter 3.2 mm
New Super CCD EN-580T
Super CCD EN-530T
590 series endoscopes

**High-quality image endoscope with Super CCD**

The FUJIFILM Super CCD provides high-definition image quality and supports the detection of smallest lesions.

### Super CCD 590 series endoscopes

**Colonoscope – Standard Type**

**EC-450B15**

- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 6 - 100 mm
- Distal end diameter: 9.8 mm
- Flexible portion diameter: 9.3 mm
- Bending capability: UP 180° / DOWN 180°
- Working length: 1,520 mm
- Total length: 1,820 mm
- Forceps channel diameter: 2.8 mm

### Overtube

**TS-13140**

- Overtube model: TS-13140, TS-13101
- Outer diameter: 13.3 mm, 13.2 mm
- Total length: 1,490 mm, 990 mm
- Applicable endoscope: EN-540T, EN-520T

**BS-2**

- Outer diameter: 30 mm

### Balloon Setting Tools

**ST-05B and ST-10**

### Balloon controller

**PB-20**

- Power: 35 mm
- Maximum flow rate of pump: 170 ml ± 50 ml / 10 sec
- Dimensions: 350 (W)x130(H)x420(D)mm
- Weight: 10 kg (Main unit), 0.4 kg (Remote switch)
- Balloon air outlets: 2 points (for endoscopes; for overtube)

### Video Gastroscope

**EG-590WR**

- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 6 - 100 mm
- Distal end diameter: 9.8 mm
- Flexible portion diameter: 9.3 mm
- Bending capability: UP 180° / DOWN 180°
- Working length: 1,100 mm
- Total length: 1,400 mm
- Forceps channel diameter: 2.8 mm

**Colonoscope – Standard Type**

**EC-450B15**

- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 6 - 100 mm
- Distal end diameter: 9.8 mm
- Flexible portion diameter: 9.3 mm
- Bending capability: UP 180° / DOWN 180°
- Working length: 1,520 mm
- Total length: 1,820 mm
- Forceps channel diameter: 2.8 mm

**Overtube**

**TS-13140**

- Overtube model: TS-13140, TS-13101
- Outer diameter: 13.3 mm, 13.2 mm
- Total length: 1,490 mm, 990 mm
- Applicable endoscope: EN-540T, EN-520T

**BS-2**

- Outer diameter: 30 mm

**Balloon Setting Tools**

**ST-05B and ST-10**

**Balloon controller**

**PB-20**

- Power: 35 mm
- Maximum flow rate of pump: 170 ml ± 50 ml / 10 sec
- Dimensions: 350 (W)x130(H)x420(D)mm
- Weight: 10 kg (Main unit), 0.4 kg (Remote switch)
- Balloon air outlets: 2 points (for endoscopes; for overtube)

**Colonoscope – Standard Type**

**EC-450B15**

- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 6 - 100 mm
- Distal end diameter: 9.8 mm
- Flexible portion diameter: 9.3 mm
- Bending capability: UP 180° / DOWN 180°
- Working length: 1,520 mm
- Total length: 1,820 mm
- Forceps channel diameter: 2.8 mm

**Overtube**

**TS-13140**

- Overtube model: TS-13140, TS-13101
- Outer diameter: 13.3 mm, 13.2 mm
- Total length: 1,490 mm, 990 mm
- Applicable endoscope: EN-540T, EN-520T

**BS-2**

- Outer diameter: 30 mm

**Balloon Setting Tools**

**ST-05B and ST-10**

**Balloon controller**

**PB-20**

- Power: 35 mm
- Maximum flow rate of pump: 170 ml ± 50 ml / 10 sec
- Dimensions: 350 (W)x130(H)x420(D)mm
- Weight: 10 kg (Main unit), 0.4 kg (Remote switch)
- Balloon air outlets: 2 points (for endoscopes; for overtube)
### Video Gastroscope – Optical Magnification
**EG-590ZW**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>View direction</td>
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</tr>
<tr>
<td>Field of view</td>
<td>WD: 140° / TL: 55°</td>
</tr>
<tr>
<td>Observation range</td>
<td>WD: 6 - 100 mm / TL: 2 - 3 mm</td>
</tr>
<tr>
<td>Distal end diameter</td>
<td>10.8 mm</td>
</tr>
<tr>
<td>Flexible portion diameter</td>
<td>9.8 mm</td>
</tr>
<tr>
<td>Bending capability</td>
<td>UP 210° / DOWN 90° / RIGHT 100° / LEFT 100°</td>
</tr>
<tr>
<td>Working length</td>
<td>1,300 mm</td>
</tr>
<tr>
<td>Total length</td>
<td>1,400 mm</td>
</tr>
<tr>
<td>Forceps channel diameter</td>
<td>2.8 mm</td>
</tr>
</tbody>
</table>

*590 series endoscopes provide high-definition image*

### Video Colonoscope – Optical Magnification

**EC-590WM4, EC-590WL4, EC-590WL4**

<table>
<thead>
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<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>View direction</td>
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<tr>
<td>Field of view</td>
<td>WD: 140° / TL: 55°</td>
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<tr>
<td>Observation range</td>
<td>WD: 6 - 100 mm / TL: 2 - 3 mm</td>
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<tr>
<td>Distal end diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Flexible portion diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Bending capability</td>
<td>UP 180° / DOWN 180° / RIGHT 160° / LEFT 160°</td>
</tr>
<tr>
<td>Working length</td>
<td>1,330 mm / 1,520 mm / 1,690 mm</td>
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<tr>
<td>Total length</td>
<td>1,630 mm / 1,820 mm / 1,990 mm</td>
</tr>
<tr>
<td>Forceps channel diameter</td>
<td>3.8 mm</td>
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<tr>
<td>Water jet</td>
<td>Equipped</td>
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</table>

**EC-590ZW3/M, EC-590ZW3/L**

<table>
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<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
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<td>0° (Forward)</td>
</tr>
<tr>
<td>Field of view</td>
<td>WD: 140° / TL: 55°</td>
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<tr>
<td>Observation range</td>
<td>WD: 6 - 100 mm / TL: 2 - 3 mm</td>
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<tr>
<td>Distal end diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Flexible portion diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Bending capability</td>
<td>UP 180° / DOWN 180° / RIGHT 160° / LEFT 160°</td>
</tr>
<tr>
<td>Working length</td>
<td>1,330 mm / 1,690 mm</td>
</tr>
<tr>
<td>Total length</td>
<td>1,630 mm / 1,990 mm</td>
</tr>
<tr>
<td>Forceps channel diameter</td>
<td>3.8 mm</td>
</tr>
<tr>
<td>Water jet</td>
<td>Equipped</td>
</tr>
</tbody>
</table>
2500 system

The new high-definition standard in endoscopy

The FUJIFILM high-definition system represents the standard in digital endoscopy – in terms of both technology and cost-efficiency. It enables us to provide you with endoscopy equipment that is more affordable than ever before. At the heart of the system is the EPX-2500 video processor, which delivers images in high definition without loss in quality.

- The EPX-2500 video processor
  High definition in everyday work

  The EPX-2500 combines convenient operation with high-definition images that have optimal illumination. The digital video output (DVI) of the EPX-2500 produces images in high definition without loss of quality. Furthermore, the processor is equipped with a range of functions.

- Two ports for connecting FUJIFILM 200 series and 530 series endoscopes
- Integrated xenon light source for bright, uniformly illuminated images
- Quick and simple operation
- Picture-in-picture function with freeze mode for live-display
- Better imaging of blood vessels
- 2x zoom for instant enlargement

- High-quality 530 series endoscopes
  cover screening, diagnosis and treatment

530 series endoscopes feature high-quality endoscopes which serve various kinds of examination and diagnosis. The entire upper and lower G.I. including ultra-slim endoscopes.
530 series endoscopes

Video Gastroscope – Transnasal Type

**EG-530NW**
- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 4-1000 mm
- Distal end diameter: 6.0 mm
- Flexible portion diameter: 5.8 mm
- Bending capability: UP 150° / DOWN 120°
- Working length: 1,100 mm
- Total length: 1,400 mm
- Forceps channel diameter: 2.0 mm

**EG-530NP**
- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 3-1000 mm
- Distal end diameter: 6.0 mm
- Flexible portion diameter: 5.1 mm
- Bending capability: UP 210° / DOWN 120°
- Working length: 1,100 mm
- Total length: 1,400 mm
- Forceps channel diameter: 2.0 mm

**EG-530WR**
- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 4-1000 mm
- Distal end diameter: 6.4 mm
- Flexible portion diameter: 3.5 mm
- Bending capability: UP 210° / DOWN 90°
- Working length: 1,100 mm
- Total length: 1,400 mm
- Forceps channel diameter: 2.8 mm

Video Gastroscope – Slim Type

**EG-530FP**
- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 3-1000 mm
- Distal end diameter: 6.5 mm
- Flexible portion diameter: 5.8 mm
- Bending capability: UP 210° / DOWN 90°
- Working length: 1,100 mm
- Total length: 1,400 mm
- Forceps channel diameter: 2.0 mm

Video Gastroscope – Treatment Type

**EG-530CT**
- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 3-1000 mm
- Distal end diameter: 10.8 mm
- Flexible portion diameter: 10.8 mm
- Bending capability: UP 210° / DOWN 90°
- Working length: 1,100 mm
- Total length: 1,400 mm
- Forceps channel diameter: 2.0 mm
- Water jet: Equipped

**EG-530D**
- Viewing direction: 0° (Forward)
- Field of view: 140°
- Observation range: 3-1000 mm
- Distal end diameter: 11.5 mm
- Flexible portion diameter: 11.5 mm
- Bending capability: UP 210° / DOWN 90°
- Working length: 1,100 mm
- Total length: 1,400 mm
- Forceps channel diameter: 3.8 mm / 2.8 mm
- Water jet: Equipped

530 series endoscopes
Easy operability of the insertion portion

The stiffness of the insertion portion has been improved for easier stomach stretching and insertion capability.

Improved operability

Easy to catch the papilla

The objective lens arrangement and bending performance have been properly arranged to catch the papilla easily from various endoscope positions.

Improved insertion capability of ERCP accessories into the papilla

Newly designed forceps elevator has been applied to enhance accessory control more precisely and securely, facilitating easier ERCP treatment.

Easy operability of the insertion portion

The stiffness of the insertion portion has been improved for easier stomach stretching and insertion capability.

Excellent image quality

FUJIFILM’s Super CCD, which has been exclusively developed for the endoscope, is built-in, providing clear images.

Improved cleaning and disinfection

Removable distal end cap*

The ED-530XTB is equipped with a disposable distal end cap. It enables brushing all channels and helps to improve the hygienic environment.

**ED-530XT8 only**

Covered tilt-up mechanism

A covered tilt-up mechanism of the forceps elevator maintains the elevator wire clean without any additional cleaning procedure.

**Video Duodenoscope – Treatment Type**

**ED-530XT, ED-530XTB**

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<thead>
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<th>Viewung direction</th>
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</thead>
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<td>Bending capability</td>
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<td>Total length</td>
<td>1,550 mm</td>
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<td>Forceps channel diameter</td>
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**Video Colonoscope**

**EC-530WM3, EC-530WI3, EC-530WL3**

<table>
<thead>
<tr>
<th>Viewing direction</th>
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<th>M3</th>
<th>ML3</th>
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<td>Distal end diameter</td>
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<td>Flexible portion diameter</td>
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</tr>
<tr>
<td>Bending capability</td>
<td>UP 180° / DOWN 180° / RIGHT 160° / LEFT 160°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working length</td>
<td>1,690 mm</td>
<td>1,820 mm</td>
<td>1,990 mm</td>
</tr>
<tr>
<td>Total length</td>
<td>1,990 mm</td>
<td>2,085 mm</td>
<td>2,005 mm</td>
</tr>
<tr>
<td>Forceps channel diameter</td>
<td>3.8 mm</td>
<td>3.2 mm</td>
<td>2.8 mm</td>
</tr>
</tbody>
</table>

**Water jet Equipped**

**Video Colonoscope – Slim Type**

**EC-530LP**

<table>
<thead>
<tr>
<th>Viewing direction</th>
<th>LP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of view</td>
<td>140°</td>
</tr>
<tr>
<td>Observation range</td>
<td>3-100 mm</td>
</tr>
<tr>
<td>Distal end diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Flexible portion diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Bending capability</td>
<td>UP 180° / DOWN 180° / RIGHT 160° / LEFT 160°</td>
</tr>
<tr>
<td>Working length</td>
<td>1,690 mm</td>
</tr>
<tr>
<td>Total length</td>
<td>1,990 mm</td>
</tr>
<tr>
<td>Forceps channel diameter</td>
<td>3.2 mm</td>
</tr>
</tbody>
</table>

**Video Colonoscope – Treatment Type**

**EC-530DL**

<table>
<thead>
<tr>
<th>Viewing direction</th>
<th>DL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of view</td>
<td>140°</td>
</tr>
<tr>
<td>Observation range</td>
<td>3-100 mm</td>
</tr>
<tr>
<td>Distal end diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Flexible portion diameter</td>
<td>12.8 mm</td>
</tr>
<tr>
<td>Bending capability</td>
<td>UP 180° / DOWN 180° / RIGHT 160° / LEFT 160°</td>
</tr>
<tr>
<td>Working length</td>
<td>1,690 mm</td>
</tr>
<tr>
<td>Total length</td>
<td>1,990 mm</td>
</tr>
<tr>
<td>Forceps channel diameter</td>
<td>3.8 mm</td>
</tr>
</tbody>
</table>

**Water jet Equipped**
**Video Colonoscope**

**EC-530FL, EC-530FL**

- **Viewing direction:** 0° (Forward)
- **Field of view:** 140°
- **Observation range:** 3-100 mm
- **Distal end diameter:** 12.8 mm
- **Flexible portion diameter:** 12.6 mm
- **Bending capability:** UP 180° / DOWN 180°, RIGHT 160° / LEFT 160°
- **Working length:** 1,520 mm
- **Total length:** 1,820 mm
- **Forceps channel diameter:** 3.8 mm
- **Water jet:** Equipped

**Video Sigmoidoscope**

**ES-530WE**

- **Viewing direction:** 0° (Forward)
- **Field of view:** 140°
- **Observation range:** 3-100 mm
- **Distal end diameter:** 12.8 mm
- **Flexible portion diameter:** 12.6 mm
- **Bending capability:** UP 180° / DOWN 180°, RIGHT 160° / LEFT 160°
- **Working length:** 1,320 mm
- **Total length:** 1,690 mm
- **Forceps channel diameter:** 3.8 mm
- **Water jet:** Equipped

**Enteroscope – Treatment Type**

**EN-530T**

- **Viewing direction:** 0° (Forward)
- **Field of view:** 140°
- **Observation range:** 2-100 mm
- **Distal end diameter:** 9.4 mm
- **Flexible portion diameter:** 9.3 mm
- **Bending capability:** UP 180° / DOWN 180°, RIGHT 160° / LEFT 160°
- **Working length:** 2,000 mm
- **Total length:** 2,300 mm
- **Forceps channel diameter:** 3.2 mm

**Therapeutic Accessories**

**FlushKnife BT / FlushKnife**

Aimed at achieving enhanced usability ideal for all physicians from ESD trainees to skilled practitioners.

Water jet system maintains the sharpness of the knife

The water jet system keeps the tip of the knife clean by washing off debris and lesion tissue adhering to the tip, thereby maintaining the sharpness of the knife throughout the treatment.

One knife covers from marking to arrest of bleeding, achieving high versatility

One knife carries out procedures including marking, incision, dissection, and arrest of bleeding. The high versatility improves operation and cost efficiencies.

The tip is designed to enhance safety and treatment capability

FlushKnife BT has a ball tip, which produces good traction, enabling the target tissue to be dissected smoothly. The ball tip touches a wider part of the tissue and arrests bleeding more efficiently.

Safer and more efficient treatment is achieved by using the protruding knife length best suited for each treatment area.
Years of research and development to reduce patient discomfort and improve operator efficiency during endoscope examinations led to the development of Sonart, the integration of ultrasonographic diagnosis and endoscopy systems.

For a more accurate diagnosis, advanced image processing technology integrates improved endoscope maneuverability and insertion capability. The compact, one-cart system supports various applications.

Features of short-type ST hoods
Shorter distance from the endoscope tip and wider inner diameter of the distal end than current hoods, enhancing visibility. Two drain equipped. Easier insertion of accessories with the guide ditch eliminated.

Endoscopic ultrasonography

EUS Tower – all-in-one stack concept
SU-8000

Flexible image display and switching
Keyboard operation facilitates smooth examinations and allows switching among an ultrasound image, an endoscopic image, and a picture-in-picture image with patient’s history images.

One knife covers from marking to arrest of bleeding, achieving high versatility
Grasp the mucous membrane using the serrated jaws, lift and make an incision. Grasp and lift the submucosa, look to confirm, and dissect. Coagulate any bleeding spots using the high-frequency jaws.

Single use Alligator Scissor Forceps

ClutchCutter

Rotatable alligator scissor forceps supports to perform a more efficient and safer ESD.

Serrated jaws
Securely grip the mucous membrane.

Rotating jaws
Approach the lesion at a more precise angle.

Insulated outer edge
Minimize the risk of damaging local tissue.

Flexible image display
and switching
Keyboard operation facilitates smooth examinations and allows switching among an ultrasound image, an endoscopic image, and a picture-in-picture image with patient’s history images.
**Ultrasonic endoscopes**

**EG-530UR2, EG-530UT2**
EG-530UR2 and EG-530UT2 endoscopes combine FUJIFILM’s high-quality endoscope features with the most advanced ultrasound technology, to create an unsurpassed diagnostic and treatment system.

**Excellent insertion capability**
Newly designed structure of flexible portion improves insertion capability. The tip with a small bending radius allows better observation.

**Consideration of the safety of fine needle aspiration**
Dotted yellow guidelines are visualized on the monitor to ensure the safety of paracentesis.

**High-quality endoscopic image**
Equipped with the Super CCD, this ultrasound endoscope offers bright, vivid, high-definition image.

**In pursuit of balloon operability**
An air/water and suction button inflates water to the balloon and deflates water from the balloon.
Proprietary piping technology enables water flow to be quickly stopped. One-liter water bottle enables prolonged water use and minimizes the need for constant refilling.

### Ultrasonic Oscillator

- Viewing direction: 160° (UP), 160° (DOWN)
- Flexible portion diameter: 2.8 mm
- Scanning mode: Color Doppler, Power Doppler, PW Doppler, M mode, THI
- Scanning method: Electronic convex scan
- Scanning angle: 110° (Combination with SU-7000), 124° (Combination with SU-8000)
- Frequency: 5 MHz / 7.5 MHz / 10 MHz / 12 MHz
- Contact method: Balloon method, degassed water congestion method, contacting method

### Water Pump

- **JW-2**
  - Specially designed for advanced endoscopic examination
  - Proprietary piping technology enables water flow to be quickly stopped. One-liter water bottle enables prolonged water use and minimizes the need for constant refilling.
  - **EPX-4450HD integrates into the hospital network environment with DICOM interfaces**

### Endoscopic CO2 Regulator

- **GW-100**
  - Directly connectable to medical CO2 pipeline in the hospital
  - The endoscopic CO2 regulator GW-100 is a versatile system, which can be connected to medical CO2 pipeline or CO2 gas cylinder.
  - **Easy-to-use CO2 flow rate switching function**
    - The CO2 flow rate can be selected by one push of the button on the front panel.
  - **Compact and lightweight**
    - The system is compact and lightweight, saving space on a cart.
  - **Dimensions**: 145x170x390mm (WxHxD)
  - **Weight**: 6kg
  - **Power Requirements**: 100-240VAC±10%, 50/60Hz, 0.3A
  - **Applicable Gas**: CO2 gas for medical use (Connectable to CO2 cylinder or medical gas pipeline)
  - **Gas Supply Pressure**: 65kPa (max.)

### Convex Scan Ultrasonic Video Endoscope

- **EG-530UT2**
  - Viewing direction: Forward oblique 45°
  - Field of view: 140°
  - Observation range: 3-100 mm
  - Flexible portion diameter: 12.1 mm
  - Scanning mode: Color Doppler, Power Doppler, PW Doppler, M mode, THI
  - Scanning method: Electronic convex scan
  - Scanning angle: 110° (Combination with SU-7000), 124° (Combination with SU-8000)
  - Frequency: 5 MHz / 7.5 MHz / 10 MHz / 12 MHz
  - Contact method: Balloon method, degassed water congestion method, contacting method

### Radial Scan Ultrasound Video Endoscope

- **EG-530UR2**
  - Viewing direction: 10° (Forward)
  - Field of view: 140°
  - Observation range: 3-100 mm
  - Flexible portion diameter: 11.5 mm
  - Scanning mode: Color Doppler, Power Doppler, PW Doppler, B mode, M mode
  - Scanning method: Electronic radial scan
  - Scanning angle: 360°
  - Frequency: 5 MHz / 7.5 MHz / 10 MHz / 12 MHz
  - Contact method: Balloon method, degassed water congestion method, contacting method
Digital output  HD-SDI: HDTV 1080i (2ch)
DVI (Digital Visual Interface): 1280 x 1024 p
Ethernet: 100 / 10 Base

Analog output  RGB: 1280 x 1024 p
SDTV (NTSC, PAL): RGB/Y, C, Composite

Color adjustment  Brightness, Red, Green, Blue, R-Hue, Chroma; 9 settings
Detail  Hi, LO, 0 settings
Contrast (gamma)  3 settings
BLD  Hi, Mid, Lo, Off
Picture in picture  On, Off, Size: 1/4, 1/3
Auto gain control  Off, +6 dB, +8 dB
Zoom  Average / Peak
Zoom Electric zoom: x0.7 ~ x 2.0, 0–20 steps

Lamp rated value Main lamp: 11.7 V 150 W Xenon lamp
Emergency lamp: 75 W Halogen lamp
Brightness control  9 settings
Lamp cooling method  Forced air cooling
Air supply pump  Hi, Low, Off
Power  120 V 60 Hz 2.7 A / 230 V 50 Hz 1.4 A
Dimensions (W x D x H)  375 x 495 x 190 mm (including projections)
Weight  17.0 kg

XL-4450 Light source

Lamp rated value  Main Lamp: 300 W Xenon lamp
Emergency Lamp: 75 W Halogen lamp
Light control  Automatic light control
Lamp cooling method  Forced air cooling
Air supply pump  High, Mid, Lo, Off
Light frame  On, Off
Transmittivity: Illumination  On, Off
Power rating  120 V 60 Hz 3.3 A / 230 V 50 Hz 1.7 A
Dimensions (W x H x D)  280 x 155 x 450 mm
Weight  13 kg

VP-4450 HD Processor

Digital output  HD-SDI, HDTV (1080i, 525i, 625i, 1080p)
DVI (Digital Visual Interface): 1280 x 1024 p
Ethernet: 100 / 10 BaseT

Analog output  RGB: 1280 x 1024 p
SDTV (NTSC, PAL): RGB/Y, C, Composite

Color adjustment  Brightness, Red, Green, Blue, R-Hue, Chroma; 9 settings
Detail  Hi, LO, 0 settings
Contrast (gamma)  3 settings
BLD  Hi, Mid, Lo, Off

Audio output terminal
Video output terminal
Video input terminal
Network terminal

Video Processor  EPX-450HD

Video Processor  EPX-2500

Ultrasonic Processor  SU-8000

Processors