## Endoscopic Ultrasonic Processor | SU-1 -H-, SU-1 -S-

**Specifications**

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Power rating</th>
<th>Frequency rating</th>
<th>Current consumption (rated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 100–240 V</td>
<td>50 Hz / 60 Hz</td>
<td>2.0-1.2 A</td>
<td>2.0-1.2 A</td>
</tr>
</tbody>
</table>

### Image display

- **Type**: Convex, Radial
- **Display**: 17", 15", 12" display
- **Sound**: Linear, Bandpass, Filters
- **Input**: S-video terminal
- **Output**: 1DVI terminal (digital), 1DVI terminal (digital / analog), 2HD-SDI terminal, 1RCA terminal, 2Remote terminal

### Image output terminals

- **Terminals**: Video terminal (1), S-video terminal (1), RGB TV terminal (1), DVI terminal (digital) (1), DVI terminal (digital / analog) (1), HD-SDI terminal (2), RCA terminal (2), Remote terminal (input) (1)

### Measurement items

- **Items**: Distance, Circumference, Area, Volume, Velocity

### Storage

- **Format**: JPEG, TIFF, DICOM
- **Device**: Internal / External memory (USB)

### Accessories

- **Item**: Keyboard, Footswitch

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## Ultrasound Endoscope (Curved Linear Array) | EG-580UT

### Specifications

- **Viewing direction**: 45° (Forward Oblique)
- **Observation range**: 3-100 mm
- **Distal end diameter**: 13.9 mm
- **Flexible portion diameter**: 12.4 mm
- **Bending capability**: Up 150° / Down 150°, Right 120° / Left 120°
- **Working length**: 1,550 mm
- **Overall length**: 3.8 mm
- **Forceps channel diameter**: 2.2 mm
- **Scanning modes**: Color Doppler, Power Doppler, PW Doppler, 0, B-mode, M-mode, 3D mode
- **Display**: Electronic, linear scanning display
- **Scan angle**: 15°<sup>2</sup> (in combination with SU-1)
- **Frequency**: 2.0-1.2 MHz

**Product name**: Ultrasonic Endoscope
**GMDN**: 40761
**Generic Name**: Flexible ultrasonic gastroduodenoscope

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## Ultrasound Endoscope (Radial Scan) | EG-580UR

### Specifications

- **Viewing direction**: 0° (Forward)
- **Observation range**: 5-100 mm
- **Distal end diameter**: 11.4 mm
- **Flexible portion diameter**: 11.1 mm
- **Bending capability**: Up 150° / Down 90°, Right 120° / Left 120°
- **Working length**: 1,290 mm
- **Overall length**: 1,550 mm
- **Forceps channel diameter**: 2.2 mm
- **Scanning modes**: Color Doppler, Power Doppler, PW Doppler, 0, B-mode, M-mode
- **Display**: Electronic, radial scanning display
- **Scan angle**: 360°<sup>2</sup> (in combination with SU-1)
- **Frequency**: 2.0-1.2 MHz

**Product name**: Ultrasonic Endoscope
**GMDN**: 40761
**Generic Name**: Flexible ultrasonic gastroduodenoscope

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*Specifications are subject to change without notice.*
Next-generation Endoscopic Ultrasonography system supports high-precision ultrasonography diagnostic and therapeutic procedures

In order to achieve various requirements, from daily diagnostic examinations to advanced therapeutic procedures, Fujifilm has just developed a New Endoscopic Ultrasonography system: SU-1, EG-580UT and EG-580UR. The SU-1, EG-580UT and EG-580UR bring high resolution image and endoscope performance to your endoscopic ultrasonography procedures supporting your daily examination.
The flat keyboard design is realized by using a touch panel and touch pad. The layout of the buttons facilitates the use of frequently used functions. Cleaning after the examination is easier with this new flat design.

**Point 1**

**High-resolution B-mode images**

With a new ultrasonic wave transmission and reception design resulting from the development of a proprietary image processing technology and a high-sensitivity transducer, the SU-1 achieved a significant improvement in high-resolution B-mode images. The location of the affected area, minute vessels or pancreatic duct can be viewed clearly thus supporting high-precision endoscopic ultrasonographic diagnosis.

**Point 2**

**Various imaging modes**

- **THI (Tissue Harmonic Imaging) Mode**
  Images are configured using higher harmonic components that are generated when ultrasound waves are reflected by the body tissue. By increased resolution and reduced artifacts, this mode enables ultrasound image observation with reduced noise.

- **CH (Compound Harmonic) Mode**
  This mode visualizes clear images in deep-lying areas while maintaining high-resolution images in shallow-lying areas to support accurate diagnoses.

- **THI (Tissue Harmonic Imaging) Mode**
  Images are created by extracting and emphasizing higher harmonic signals reflected by injected contrast agents, assisting in the detection of tumors and abnormal growths.

- **CHI (Contrast Harmonic Imaging) Mode**
  Images are created by extracting and emphasizing higher harmonic signals reflected by injected contrast agents, assisting in the detection of tumors and abnormal growths.

- **Elastography Mode**
  Relative stiffness of the tissue is visualized as a color distribution map by way of calculating the distortion of the tissue caused by external compression or inner vibration, and displaying disparities in stiffness levels as different colors.

- **Sound Speed Correction Mode**
  Images are recomposed using the estimated optimal sound speed inside the body. With the SU-1, it is possible to set the ROI (Region of Interest) and display a clearer image of the targeted area.

**Point 3**

**User-friendly keyboard**

The flat keyboard design is realized by using a touch panel and touch pad. The layout of the buttons facilitates the use of frequently used functions. Cleaning after the examination is easier with this new flat design.

- **Touch panel**
- **Touch pad**
Ultrasonic Endoscope (Curved Linear Array)

NEW

EG-580UT

The endoscope has improved insertion and observation performance as well as therapeutic performance such as FNA (Fine Needle Aspiration) thanks to its excellent maneuverability and wide puncture range.

Point 1
Improved insertion performance
The rounded tip section facilitates passage through narrow lumens and the shorter rigid section helps the endoscope pass through tight angles in the larynx. The 40° forward oblique-view and 140° wide angle reduce the difficulty of managing the endoscope’s insertion route.

Point 2
Improved observation performance
A wide area can be covered with minimal work using powerful bending functions (UP150°/DOWN150°/LEFT120°/RIGHT120°). Furthermore, access to target positions has improved due to the shorter rigid section and smaller bending radius.

Point 3
Wide-angle puncture direction supporting wider FNA accessibility
Wide puncture range enables FNA of target lesions from a variety of positions. Combined with the improved bending performance, small bending radius and the optimized location of the transducer, broader FNA accessibility is achieved.

Point 4
Forceps elevator hold mechanism
Forceps elevator lever on the control portion clicks in place to maintain the forceps position. This function reduces strain on the thumb caused by repeatedly operating the lever during procedures, facilitates flexible and subtle endoscopic operations during therapeutic procedures and supports stable puncture trajectory.
High-resolution endoscopic images

Both EG-580UR and EG-580UT are equipped with a Fujifilm high resolution image sensor, the High Resolution Super CCD, which provides vivid and high quality images. Together with a highly efficient optical lens, a wide range of data necessary for diagnosis can be obtained to support accurate endoscope examinations.

Point 1

190° upward bending capability supports enhanced maneuverability

Together with the shorter rigid section, the distal end is highly maneuverable. The enhanced maneuverability makes retroflexion easier for observation of the fundus and cardia.

Point 2

Slim distal end diameter of 11.4mm supports improved insertion performance

Equipped with a slim distal end diameter of 11.4mm, round tip design and a direct forward-view, the EG-580UR can be inserted into narrow lumens as with routine gastroscopic procedures.

Point 3

ϕ2.8mm forceps channel supporting improved suction power

Suction performance is increased by adopting a larger forceps channel of ϕ2.8mm. By quickly suctioning blood and other body fluids, a clear view can be obtained during endoscopic observation.

Point 1

High-resolution endoscopic images

Both EG-580UR and EG-580UT are equipped with a Fujifilm high resolution image sensor, the High Resolution Super CCD, which provides vivid and high quality images. Together with a highly efficient optical lens, a wide range of data necessary for diagnosis can be obtained to support accurate endoscope examinations.

Point 2

New highly maneuverable flexible portion

Materials for the flexible portion were thoroughly reviewed, particularly with attention to elasticity, to attain enhanced maneuverability, torquability and insertion capabilities. Using the new unique material, the flexible portion is designed to be stiffer at the control portion side and becomes gradually flexible towards the distal end side for better pushability.

Point 3

New easy-to-grip and operation-friendly control portion

We have renewed the layout and size of the components of the control portion and repositioned the angulation knobs to improve accessibility. The new grip is designed to have an easy and comfortable feel to optimize the performance and minimize stress during clinical procedures.
**Ultrasonic Bronchoscope** EB-530US

- **Equipped with the Super CCD Honeycomb**
  Equipped with the Super CCD Honeycomb at the tip of the endoscope, this ultrasonic bronchoscope offers high-resolution endoscopic images.

- **Distal end outer diameter of 6.7 mm**
  The ultra-slim endoscope with a distal end outer diameter of 6.7 mm reduces patient discomfort and improves maneuverability and insertion capability.

- **Multilateral approaches to improving maneuverability**
  Full support for observation, diagnosis, and treatment of lesions and tissue collection in the bronchial region. Multilateral efforts improve maneuverability for safer diagnoses.

- **Paracentesis while constantly monitoring the position of the needle with 10° forward oblique view**
  The use of the 10° forward oblique view and optimal positioning of the ultrasonic transducer improve maneuverability and safety during paracentesis. The opening of the forceps channel is constantly displayed in an endoscopic image to help locate the puncture needle.

- **Two lights to support paracentesis**
  Two lights on opposite sides illuminate the front and eliminate shadows during paracentesis. An appropriate needle angle facilitates smooth paracentesis at the target site.

- **Appropriate bending angle for easy paracentesis**
  A large bending angle facilitates paracentesis at the target site.

**Ultrasonic Probe** SP702

- **Clear images without rotation irregularities**
  Shortening of the distal rigid portion and optimization of the inner structure ensures clear images without rotation irregularities even when the endoscope is bent.

- **Small, lightweight system with improved installation performance**
  This small, lightweight system can be a stand-alone system or set in an existing endoscopy system.

**Specifications**

- **Ultrasonic Bronchoscope** EB-530US

<table>
<thead>
<tr>
<th>Function</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of view</td>
<td>120°</td>
</tr>
<tr>
<td>Distal end diameter</td>
<td>6.7 mm</td>
</tr>
<tr>
<td>Forceps channel diameter</td>
<td>2.0 mm</td>
</tr>
<tr>
<td>Bending capability</td>
<td>Up 130° / Down 90°</td>
</tr>
<tr>
<td>Working length</td>
<td>610 mm</td>
</tr>
<tr>
<td>Color Doppler</td>
<td>Yes</td>
</tr>
<tr>
<td>Power Doppler</td>
<td>Yes</td>
</tr>
<tr>
<td>Pulse wave</td>
<td>Yes</td>
</tr>
<tr>
<td>B mode</td>
<td>Yes</td>
</tr>
<tr>
<td>M mode</td>
<td>Yes</td>
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- **Ultrasonic Probe** SP702

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<th>Frequency</th>
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<tbody>
<tr>
<td>P2035-M</td>
<td>210mm</td>
<td>2.6 mm</td>
<td>7.5 MHz / 10 MHz / 12 MHz</td>
</tr>
<tr>
<td>P2035-L</td>
<td>360mm</td>
<td>2.6 mm</td>
<td>7.5 MHz / 10 MHz / 12 MHz</td>
</tr>
<tr>
<td>P2015-M</td>
<td>210mm</td>
<td>2.0 mm</td>
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**Ultrasonographic examination of the region of interest is easily and quickly performed during endoscope examination in a way similar to that of a biopsy.**

**Ultrasonography performed any time during routine endoscopy**

**The cine memory function allows retrieval of any image within 2.5 seconds before freezing, eliminating concern about the timing of freezing.**

**The small control pad can easily display a specific image.**