



Endoscopic Ultrasonography





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The New Endoscopic Ultrasonography System from Fujinon

A system that integrates ultrasonographic diagnosis and treatment, with Fujinon's high quality digital imaging.

Fujinon has developed its new endoscopic ultrasonography system to meet the demands of physicians for a better gastrointestinal diagnosis and ultrasound-guided FNA system architecture.

We started with clear image projection, then we added features which satisfy the most stringent requirements for usability and flexibility. Finally, we combined high-quality video imaging, radial ultrasound scanning and convex ultrasound scanning into a fully integrated system, utilizing the new *SU-7000* processor and the new *EG-530UR* and *EG-530UT* ultrasound endoscopes.

A new age in endoscopic Ultrasonography is born.



A Compact, High-Quality, Endoscopic Ultrasonography and Video Imaging System



State of the Art Technology and Flexible Operation for Enhanced Diagnostic Accuracy

Developed specifically for ultrasonic endoscopes, the **SU-7000** allows high-quality ultrasonography to be incorporated with conventional endoscopy into a single cart, resulting in a highly functional, compact system.

Integration of Fujinon's high-performance endoscopy with a state-of-the-art ultrasonography system allows physicians to make the best use of limited examination space without compromising diagnostic and therapeutic quality. The system offers easy keyboard operation and convenient presentation of endoscopic video and ultrasound images with the Picture-in-Picture display function. The **SU-7000** allows the use of both radial scope and Fine Needle Aspiration (FNA) convex scope, for unsurpassed observation, diagnosis, and treatment capability.

Comprehensive Integrated Keyboard

This well designed keyboard brings the essential functions of the SU-7000 within easy reach.



Integrated Compact Flash Media Card Slot*

The CF card allows direct recording and reproduction of images during examination. Post-exam transfer of images to a PC is easily accomplished with no image deterioration.

*Compact Flash is a trademark of SanDisk Corporation





Variable Modes

The color doppler function provides hemodynamic information in diseased areas.

Imaging of organs surrounding the region of interest and observation of vascularity, allows safer and more reliable FNA.



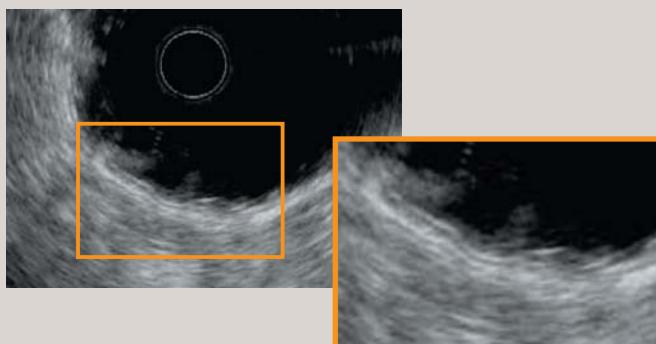
B mode



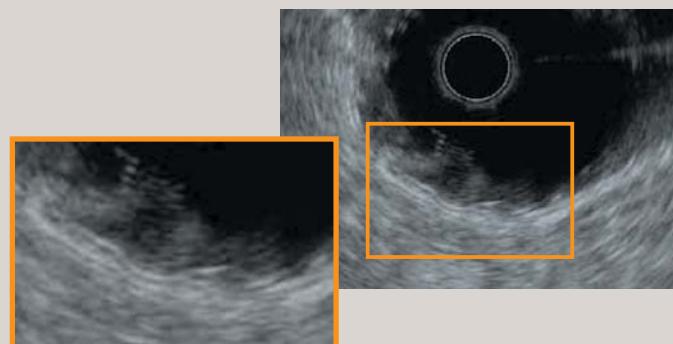
CFM mode

Image processing

Our proprietary image processing eliminates blur in hyperechoic regions.



Unprocessed Image



Processed Image

Variable Frequency

The system can precisely delineate ultrasound images in a multitude of frequencies from 5 to 12 MHz. Thus, finely detailed images of the layers of the gastric wall, as well as organs such as the pancreas, can be clearly delineated.



5MHz



7.5MHz



10MHz



12MHz

Picture-in-Picture Display Function

The Picture-in-Picture display function permits simultaneous presentation of two images—an endoscopic video image and an ultrasonographic image—ensuring safe operation.



Superb Image Quality and Innovative Features for Unsurpassed Operability



Fujinon's new **EG-530UR** and **EG-530UT** endoscopes combine our high-quality video endoscope features with the most advanced ultrasound technology, to create an unsurpassed diagnostic and treatment system.

Handling Ability

All the handling features and lightweight, ergonomic qualities of our reliable G5 endoscopes, have been incorporated in the **EG-530UR** and **EG-530UT**, to ease the stress of hours of use on both the practitioner and patient.

The bending radius of these endoscopes is better than any other in their class.

As a result of the increased visualization and observation capacity, it is possible to detect and examine previously difficult to detect lesions.

High Resolution Image

Our high-resolution SUPER CCD chip technology provides the best in high-definition, high-resolution imaging. The real-time image can be frozen and saved as a single high-quality image. This quality is not the result of excellent resolution alone; it is also the result of the RGB filtering capability of the Super CCD that realizes minute differences in the all-important red spectrum, providing a clear picture of tiny blood vessels.

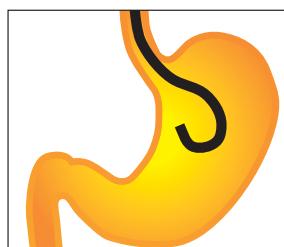
Through attention to detail and the maximization of digital technology, a new era of comfort in ultrasonographic endoscopy is born.

Bending Capability of the EG-530UR:

U/ D/ R/L 180/90/100/100 degrees

Bending Capability of the EG-530UT:

U/ D/ R/L 160/160/120/120 degrees



Clinical Data





Endoscopic
Ultrasonography

EG-530UR radial scan ultrasound video endoscope (for observation)

The EG-530UR, with a small outer diameter of 11.4 mm and excellent bending capabilities, allows physicians to perform endoscopic ultrasonography in a similar way to conventional endoscopy. The scope tip bending angle permits observation of previously difficult to access areas and improves screening efficiency. In combination with ultrasound images, endoscopic video images of high quality, captured with our high-resolution Super CCD, greatly aid diagnosis.



EG-530UR

EG-530UT convex scan ultrasound video endoscope (for treatment)

The thin distal tip of the EG-530UT has a large channel (3.8 mm) that permits EUS-FNA, drug injection, and passage of other therapeutic devices such as a drainage tube. With excellent bending capabilities comparable to conventional endoscopes, the EG-530UT provides better access to lesions and greater flexibility in treatment.



EG-530UT

Dotted green guidelines on-screen, aid in accurate positioning of the FNA needle.



SU-7000

Power	Voltage	100V·120V	230V
	Consumption current	1.8A	1.0A
Size	Size (W)x(D)x(H)	400x260x465mm	
	Weight	28kg	
Classification		Class 1	
		Type BF	
Ultrasound image display	Probe type	Convex·Radial	
	Scanning mode	Power Doppler / Color Doppler / PW Doppler / M mode / B mode / THI	
	Scanning method	Electronic scan	
	Display range	2-14cm	
Frequency		5-12MHz	
Signal processing	Focus	Digital beam forming	
	STC	6 phases	
Measurement		Distance / area / volume / velocity / time / angle / ratio / histogram	
Display		Patient information / comment / date / time	
Recording		Video, VTR, Filing	
Remote control		Foot switch	
Others	Picture-in-Picture	Selection of endoscopic image/ultrasound image	
	Memory card	CF card	

EG-530UR

Endoscopic Functions	Viewing direction	Forward viewing	Forward oblique 40°
	Observation range	3~100mm	3~100mm
	Field of view	140°	140°
	Distal end diameter	Ø11.4mm	Ø13.9mm
	Flexible portion diameter	Ø11.5mm	Ø12.1mm
	Bending capability: UP/DOWN	180°/90°	160°/160°
	LEFT/RIGHT	100°/100°	120°/120°
	Forceps channel diameter	Ø2.2mm	Ø3.8mm
	Working length	1254mm	1254mm
	Total length	1554mm	1554mm
Ultrasonic Functions	Scanning mode	Color Doppler / Power Doppler / PW Doppler / B mode / M mode/ THI	
	Scanning method	Electronic radial	Electronic convex
	Scanning area	360°	Scanning range 110° taking the direction of forward oblique 60° as the central axis
	Frequency	5MHz/ 7.5MHz/10MHz / 12MHz	
	Contact method	Balloon method / degassed water congestion method / contacting method	

EG-530UT



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Due to a continuous process of product improvement, specifications are subject to change without notice.

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