

# SU-1

## Endoscopic Ultrasonography System



- High-resolution B-mode imaging
- Various imaging modes
- Compact size design

### Advanced image processing technology integrated in a compact body.

#### High-resolution B-mode imaging

With a new ultrasonic wave transmission and reception design, the SU-1 realizes high-resolution B-mode images with the aim of enabling more accurate and efficient ultrasonography diagnoses.



(Radial)



(Convex)

#### Various imaging modes

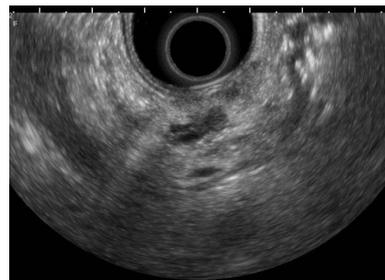
##### THI (Tissue Harmonic Imaging) Mode

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.



##### CHI (Contrast Harmonic Imaging) Mode\*

Images are created by extracting and emphasizing higher harmonic signals reflected from the injected contrast agents, assisting in the detection of tumors and abnormal growths.

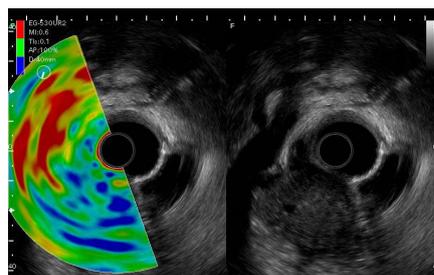


(CHI Mode)

(B-Mode)

##### 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.

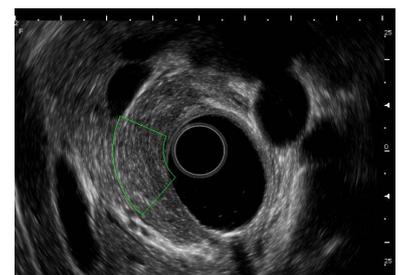


(Elastography Mode)

(B-Mode)

##### 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.



Specifications		
Power supply	Power rating	100-240 VAC±10%
	Frequency rating	50 / 60 Hz
	Current consumption (rated)	2.0 - 1.2 A
Size	Dimensions	390 x 135 x 485 mm
	Weight	13 kg
Display	PinP	Endoscopic / Ultrasound Imaging
	Observation screen display	Hospital, Date, Time, Patient
Applicable endoscopes	Convex	EG-530UT2, EB-530US
	Radial	EG-530UR2
Frequency		5, 7.5, 10, 12MHz
Measurement functions	Measurement items	Distance, Circumference, Area, Volume, Velocity

Ultrasound image display	Scanning system	Electronic scanning
	Probe type	Convex, Radial
	Scanning mode	B-mode, M-mode, Color Doppler, Power Doppler, Pulse Doppler, THI, CH
Recording	Special modes*	CHI, Elastography
	Data formats	JPEG, TIFF, DICOM
	Recording devices	Internal / External memory (USB)
Accessories	Cine memory	Record, Replay
		Keyboard, Footswitch

\*CHI and Elastography modes are available only in SU-1 (Identifier -H-).

•Product name: Ultrasonic processor  
 •Model No.: SU-1  
 •GMDN: 40761  
 •Generic Name: Ultrasound system, imaging, general-purpose