

EVIS EUS

EVIS EUS Endoscopic Ultrasound Center

EU-ME3

Advancing the Dimensions of Endosonography



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Focused on Your Expertise



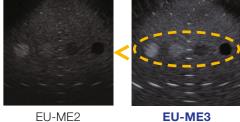
Improved Ultrasound Imaging

Enhanced Visualization

Enhanced B-mode

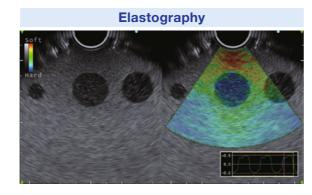
The EU-ME3 provides outstanding image quality and functionality – compatible to a high-end ultrasound center – in a compact body. B-mode image quality has been substantially enhanced compared to our conventional processor (EU-ME2).





Improved Elastography

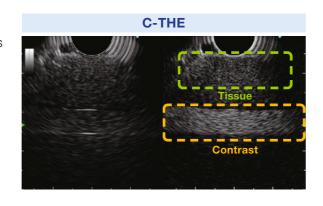
The EU-ME3 features an elastography function which visualizes the amount of strain in the tissue (tissue stiffness) during compression and retraction, making it possible to obtain more information about tissue properties.



Contrast Harmonic Echo (CHE)

Contrast Harmonic Echo (CHE) images harmonic components from ultrasound contrast agents.

The newly added C-THE mode images signals from biological tissue and the contrast.



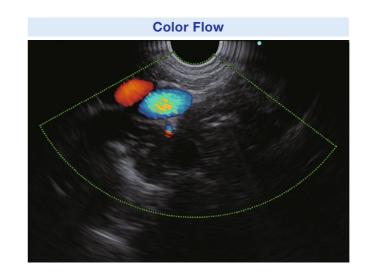
Tissue Harmonic Echo (THE)

When ultrasound waves are propagated through tissue, distortion is produced and harmonic components are generated. The Tissue Harmonic Echo (THE) mode uses these components to build an image of the targeted area, providing a more detailed granular depiction. Advantages of harmonic imaging include improved resolution, improved signal-to-noise ratio, and fewer artifacts.

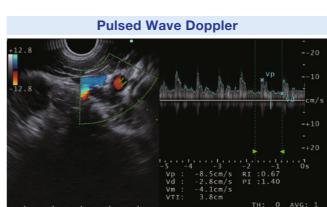
Doppler Modes

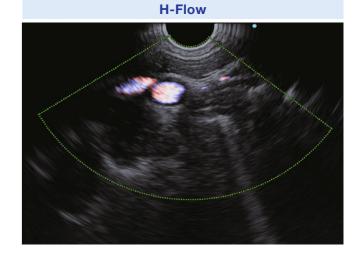
The EU-ME3 offers three basic Doppler modes to distinguish blood flow more clearly – Color Flow, Power Flow, and Pulsed Wave Doppler (PWD). Doppler modes can be used to support safer procedures, benefitting both the patient and the physician.

In addition to the three basic Doppler modes, the EU-ME3 also features H-Flow. H-Flow is a more sensitive Doppler mode that shows directional blood flow with less blooming. It is especially useful for imaging small vessels around the tip of the echoendoscope.









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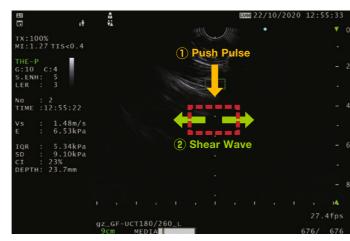
Designed for Enhanced Usability

Enhancing Functionality

Shear Wave Quantification (SWQ)

SWQ provides an absolute value of tissue stiffness within a region of interest. It performs this quantitative tissue assessment by calculating the propagation velocity of shear waves, generated from a push-pulse.





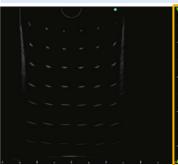
Elastography (i-ELST)

i-ELST is a new technology incorporated into the EU-ME3 that makes it easier to display elastic images, even when displacement due to pulsation is modest.

s-FOCUS

The EU-ME3 is equipped with an s-FOCUS mode that reduces the change in resolution with distance from the ultrasound transducer surface. s-FOCUS eliminates the need to manually adjust the focal zones during the procedure.

s-FOCUS (Entire Range)



Excellent Operability

Keyboard Usability

The keyboard was designed with a simple layout in mind and includes a user-friendly built-in touch panel, LED backlit keys and a trackpad for ease of use and cleaning. The larger LCD touch panel allows for a greater range of functions to be displayed at one time.





Ease of Targeting

The position and size of the Doppler region of interest (ROI) can be conveniently adjusted with a trackpad or buttons on the touch panel.

Enhancing Versatility

Wide Range of Compatibility

Integrating both electronic and mechanical scanning technologies, the EU-ME3 is compatible with echoendoscopes and miniature probes, creating a total endosonography solution for a full range of applications.



Customizable Features

Software options are available to meet the needs of any facility. Because the functions are optional, you can select and add the necessary functions according to your needs and budget.



Comparison of Ultrasound Functions

	EU-ME2	EU-ME2 PREMIER	EU-ME2 PREMIER PLUS	EU-ME3
B-mode	~	~	~	✓
THE (Tissue Harmonic Echo)	-	~	~	~
Flow	~	~	~	~
PWD (Pulsed Wave Doppler)	~	~	~	~
CHE (Contrast Harmonic Echo)	-	~	~	✓ (Software Option)
Elastography	-	-	~	✓ (Software Option)
SWQ (Shear Wave Quantification)	-	-	-	✓ (Software Option)

^{*} For Gl. Only compatible with GF-UCT180/260 and GF-UE190/290.

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EVIS EUS ENI	DOSCOPIC U	LTRASOUND	CENTER OLYMPUS EU-ME3
	Voltage		220 – 240 V AC
Power Supply	Voltage fluctu	uation	Within ±10%
			50/60 Hz
	Frequency flu		Within ±1 Hz
	Consumption	electric power	340 VA
	Dimensions	Main unit	371 (W) × 175 (H) × 480 (D) mm 445 (W) × 184 (H) × 530 (D) mm (max.)
Size		Keyboard	392 (W) × 39 (H) × 210 (D) mm
	Weight	Main unit	21.5 kg (without software option case) 21.8 kg (with software option case)
		Keyboard	2.5 kg
	Type of prote electric shock	ection against <	Class I
Classification		otection against k or applied part	TYPE BF applied part where no classification mark appears, the device is a TYPE BF applied part.
	explosion	otection against	The Ultrasound Center should be kept away from flammable gases.
Ultrasound Sc	anning Form	at	Mechanical scanning, electronic scanning
	Display mode		B-mode
	Scanning		Radial scanning, helical scanning
Mechanical Scanning	Usable freque	encies	12 MHz, 20 MHz
	Display range		2, 3, 4, 6, 9, 12 cm
	Display processing	Rotation	Rotatable
		Display area	Full circle, bottom sector, top sector, scroll
		Direction	Normal/Inverse
	Cine		Over 1,500 frames storable depending on the conditions. Cine revie
	memory		function
	3D		3D display, MPR display
Measurement Display mode			Distance, area, circumstance
		9	B-mode, FLOW mode, PW mode, CHE mode, ELST mode
	Scanning		Radial scanning, curved linear array scanning
	Usable freque		5 MHz, 6 MHz, 7.5 MHz, 10MHz, 12MHz
	Display range		2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 cm
	D: 1	Rotation	Rotatable during radial scanning
	Display processing	Display area	Radial: Full circle, bottom sector, top sector, scroll, Curved linear array: Fixed
	processing	Direction	Normal/Inverse
	0:		Over 2,000 frames storable depending on the conditions. Cine review
Electronic Scanning	Cine memory	′	function
	Focus	Auto preset	s-FOCUS, AUTO, MANUAL
		Focus settings	Focus location and Focus number adjustable.
	FLOW mode		COLOR-FLOW mode, POWER-FLOW mode, H-FLOW mode
	PW mode		B+PW, COLOR+PW, POWER+PW, H-FLOW+PW
	Measuremen	t	Distance, area, circumstance, PW measurement
	THE mode		THE-P mode, THE-R mode
		Display pattern	CHE, C-THE
	CHE mode (Software Options)	Preset (CH agent type)	2 types (Low acoustic pressure, Middle acoustic pressure), selectab
		Frequency selection	2 types (CHE-P, CHP-R)
	ELST mode (Software Options)	Pressurization guide	Pressurization bar, Strain graph
		Strain ratio	Measures strain or ratio of strain of 2 areas.
	SWQ (Softwa	are Options)	Calculates and displays transmission speed and elasticity of shear wave in ROI.
Recording Data	Data format	Movie data	AVI
	Keyboard		Built-in track pad and touch panel.
	Recording de	evice	DVR
Ancillary Equipment		Monitor display	Endoscopic/ultrasound image
_quipinent	Video system . center		
	center	Sub screen	Endoscopic image can be displayed in sub screen.

This product may not yet be available in all countries.

It can only be purchased in a specific country once all regulatory requirements of such country for making the product available on the market are met. As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.

