

EVIS EUS

EVIS EUS ENDOSCOPIC ULTRASOUND CENTER

EU-ME2

Dedicated ultrasound processor with versatile functions



Envisioning the future of endosonography

The EU-ME2 is a high-quality compact ultrasound processor for use with OLYMPUS endoscopic and endobronchial ultrasound (EUS and EBUS) equipment that has been designed for integration with conventional endoscopy on a single workstation. With its high resolution and an image display that promotes clear visualization, the EU-ME2 brings real clarity to your EUS and EBUS procedures, supporting better detection and characterization of lesions. A variety of new features such as the Elastography mode will explore the future of endosonography.

Excellent

Unique

Specific

Improved basic functions ensure excellent ultrasound imaging

New functions offer unique new possibilities in endosonography

Designed specifically to optimize endosonographic procedures



Excellent

Improved basic functions ensure excellent ultrasound imaging

B-mode



B-mode image quality has been substantially improved, making it possible to support more efficient localization of tumors and more accurate identification of tissue properties and boundaries. Clearer image delineation helps enable more precise direction for puncturing and aspiration during EUS-FNA and may make it easier to develop effective therapeutic practices.

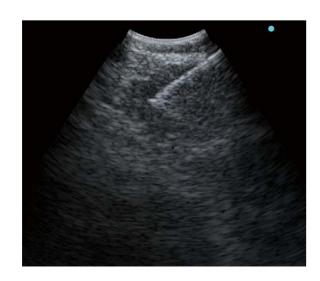
Electronic Radial Scanning







Electronic Curved Linear Array Scanning (EBUS-TBNA)



Unique

New functions offer unique new possibilities in endosonography

Tissue Harmonic Echo (THE) mode







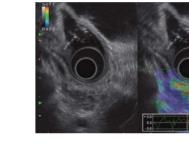


When ultrasound waves are propagated through tissue, distortion occurs and harmonic components are generated. The THE mode uses these components to build an image of the targeted area. Potential advantages of harmonic imaging include improved resolution, improved signal-to-noise ratio, and



THF-P



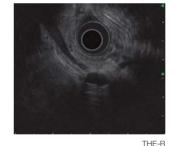


An advanced form of ultrasound, elastography displays the

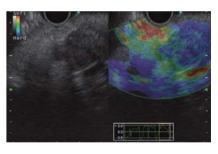
relative stiffness of tissues by taking advantage of the

deformation caused by the compression or vibrations

generated by the heartbeat or vascular pulsations.







Pulse Wave Doppler (PW) mode



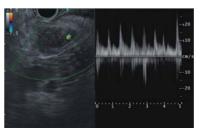




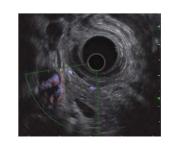




Pulse Wave Doppler measures blood flow velocities at specific locations, while cross-sectional images are viewed to spot the target vessel.

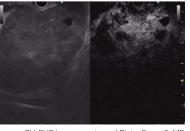


Especially useful for imaging small vessels around the tip of the endoscope, the H-FLOW mode can help facilitate more precise maneuvering during EUS-FNA/EBUS-TBNA by making it potentially less difficult to avoid vessels.



Using technology designed to depict harmonics, the CH-EUS mode is expected to help realize enhanced sensitivity to tumors and other abnormal growths.

* Regulations and usage of ultrasound contrast agents vary according to the country where they are used and the type of agents. Please use the



CH-EUS image courtesy of Pietro Fusaroli, MD (University of Bologna/ Hospital of Imola)

Specific

Designed specifically to optimize endosonographic procedures

Fully compatible with a wide range of **EUS** and **EBUS** scopes and probes

Integrating both electronic and mechanical scanning technologies, the EU-ME2 is a total endosonography solution compatible with virtually all available OLYMPUS ultrasound endoscopes and miniature probes, providing access to a full range of endosonographic applications.

- Mechanical Radial Scanning EUS Scopes
- Ultrasound Probes



- Electronic Radial Scanning EUS Scopes
- Curved Linear Array Scanning EUS Scopes
- Curved Linear Array Scanning EBUS Scopes

Single monitor and single keyboard

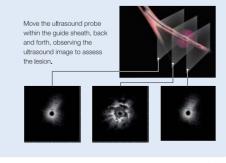
The EU-ME2 features a user-friendly keyboard with a touch panel and trackball. The picture-in-picture function is standard, and when available, both endoscopic and ultrasound images can be displayed on a single monitor.

EVIS-ready and space-saving design

The EU-ME2 is designed to save space in your endoscopy suite. As an integral part of the OLYMPUS EVIS endoscopy system, it fits snugly on the standard endoscopy trolley, leaving plenty of room for all the other equipment you need.

Full support for endobronchial ultrasonography

The EU-ME2 is designed to support a wide range of EBUS procedures, such as EBUS guide-sheath guided transbronchial biopsy. By placing the guide sheath near the target lesion, which has been delineated by the miniature probe, you can easily perform brush cytology. Advancing the sampling device through the sheath after the miniature probe has been withdrawn helps improve accuracy and shorten examination time.



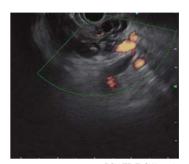
Clinical Cases

See some of what you can do with the EU-ME2 using various types of ultrasound endoscopes. With the excellent performance made possible by improved functions, the expanded possibilities offered by unique new functions, and the efficiency of the endosonography-specific design, the EU-ME2 will help you envision the future of endosonography.

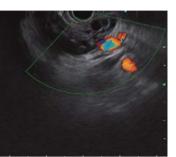
With Electronic Curved Linear Array Scanning EUS Scopes



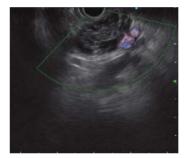
THE-P mode



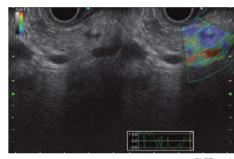
POWER FLOW mode



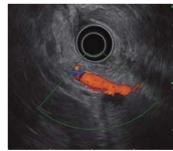
COLOR FLOW mode



H-FLOW mode

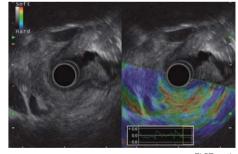


With Electronic Radial Scanning EUS Scopes



COLOR FLOW mode



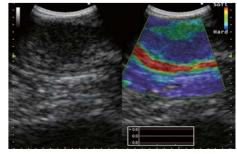


With Electronic Curved Linear Array Scanning EBUS Scopes





H-FLOW mode



ELST mode

OLYMPUS EU-ME2 PREMIER PLUS OLYMPUS EU-ME2 PREMIER OLYMPUS EU-ME2

Specifications

Specification	าร		
	Voltage		100 - 240 V AC (for NTSC)
Power Supply			220 - 240 V AC (for PAL)
	Voltage fluctuation		Within ± 10% 50/60 Hz
	Frequency Frequency fluctuation		Within ± 1 Hz
	Consumption electric power		370 VA
			371 (W) × 175 (H) × 480 (D) mm
Size	Dimensions	Main unit	445 (W) × 184 (H) × 495 (D) mm (maximum)
		Keyboard	392 (W) × 39 (H) × 207 (D) mm
	Weight	Main unit	22.5 kg
	Worght	Keyboard	2.5 kg
Classification	Type of protection against electric shock		Class I
	Degree of protection against electric shock of applied part		TYPE BF applied part Where no classification mark appears, the device is a TYPE BF applied part
	Degree of protection against explosion		The ultrasound center should be kept away from flammable gases
TYPE BF Applied Part			This instrument can safely be applied to any part of the body except the heart
EMC			This instrument complies with the standards listed as follows: IEC 60601-1-2: 2001 IEC 60601-2-37: 2007 GISPR 11 of emission: Group 1, Class B
Ultrasound Scanning			<u> </u>
Format			Mechanical scanning, Electronic scanning
Mechanical Scanning	Display mode		B-mode
	Scanning		Radial scanning
	Compatible equipment		Mechanical radial scanning ultrasound endoscope, Miniature probe
	Usable frequencies		C5, C7.5, C12, C20, 7.5, 12, 20 MHz
	Display range		2, 3, 4, 6, 9, 12 cm
	Image adjustment	5	Gain, Contrast, STC, Enhance
	Display processing	Rotation	Rotatable
		Display area	Full circle, bottom sector, top sector, scroll
	Cina maman	Direction	Normal/Inverse
	Cine memory 3D		Maximum 160 frames, Cine review function 3D display, MPR display
	Measurement		Distance, Area, Circumstance
Electronic Scanning			B-mode, FLOW mode, PW mode, THE mode, CH-EUS mode,
	Display mode		ELST mode
	Scanning		Radial scanning, Curved linear array scanning
			Electronic radial scanning ultrasound endoscope
	Compatible equipment		Electronic curved linear array scanning ultrasound endoscope
	Usable frequencies		5, 6, 7.5, 10, 12 MHz
	Display range		2, 3, 4, 5, 6, 7, 8, 9, 12 cm
	Image adjustment		Gain, Contrast, STC, Enhance, Compound
	Display processing	Display area	Radial : Full circle, bottom sector, top sector, scroll Curved linear array : Convex
		Direction	Normal/Inverse
		Display pattern	Single-screen/Dual-screen
	Cine memory		Over 600 frames storable depending on the conditions Cine review function
	Focus	Auto Preset	Near/Far
		Focus setting	Focus location adjustable, 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
	Measurement	-11	Distance, Area, Circumstance, PW measurement
	THE (Tissue Harmonic Ed		THE-P, THE-R CH-B, CH-Color
	CH-EUS (Contrast Harmonic EUS) mode *1, *2	Display pattern Preset (CH agent type)	2 types, adjustable (middle or low)
		Frequency selection	2 types, adjustable (CH-R or CH-P)
		TIC analysis	Displays the change over time of the average brightness of each ROI
	ELST (Elastography) mode *2	Pressurization state guide	Strain graph, Pressurization bar
		Strain ratio *3	Displays the amounts of the strain and their ratio in two areas
		Still image	Bmp, Jpeg, 3dv
Recording Data	Data format	Movie data *1, *2	Avi
Ancillary Equipment	Keyboard		Keyboard with built-in trackball, LCD touch panel and LED backlit keys
	Recording device		Video printer (color/monochrome), DVR
		Monitor display selection	Endoscopic/Ultrasound image
	Video system center	Picture-in-picture	Displays the endoscopic image as PinP sub-display on the ultrasound image
		Patient data	Shares patient data with the video system center
** Only available on EULA	AEO DDEMIED *O O-L	lable on ELLMES DOCKAR	TO DI LIO. *O Not associable to accompany



EU-ME2 PREMIER PLUS

*1 Only available on EU-ME2 PREMIER *2 Only available on EU-ME2 PREMIER PLUS *3 Not available in some areas

Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

