

EVIS EUS ENDOSCOPIC ULTRASOUND CENTER  
**OLYMPUS EU-ME2 PREMIER PLUS**  
**OLYMPUS EU-ME2 PREMIER**  
**OLYMPUS EU-ME2**

**Specifications**

Power Supply	Voltage	100 - 240 V AC (for NTSC) 220 - 240 V AC (for PAL)	
	Voltage fluctuation	Within ± 10%	
	Frequency	50/60 Hz	
	Frequency fluctuation	Within ± 1 Hz	
	Consumption electric power	370 VA	
Size	Dimensions	Main unit 371 (W) × 175 (H) × 480 (D) mm 445 (W) × 184 (H) × 495 (D) mm (maximum)	
		Keyboard 392 (W) × 39 (H) × 207 (D) mm	
	Weight	Main unit 22.5 kg	
		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 CISPR 11 of emission : Group 1, Class B		
Ultrasound Scanning 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	Gain, Contrast, STC, Enhance	
		Rotation	Rotatable
	Display processing	Display area	Full circle, bottom sector, top sector, scroll
		Direction	Normal/Inverse
	Cine memory	Maximum 160 frames, Cine review function	
	3D	3D display, MPR display	
	Measurement	Distance, Area, Circumstance	
	Electronic Scanning	Display mode	B-mode, FLOW mode, PW mode, THE mode, CH-EUS mode, Elastography mode
		Scanning	Radial scanning, Curved linear array scanning
Compatible equipment		Electronic radial scanning ultrasound endoscope 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
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	Distance, Area, Circumstance, PW measurement		
	THE (Tissue Harmonic Echo) mode *1, *2	THE-P, THE-R	
CH-EUS mode *1, *2	Display pattern	CH-B, CH-Color	
	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 mode (Elastography) *2	Pressurization state guide	Strain graph, Pressurization bar	
	Strain ratio	Displays the amounts of the strain and their ratio in two areas	
Recording Data	Data format	Still image : Bmp, Jpeg, 3dv Movie data *1, *2 : Avi	
	Keyboard	Keyboard with built-in trackball, LCD touch panel and LED backlit keys	
Ancillary Equipment	Recording device	Video printer (color/monochrome), DVR	
	Monitor display selection	Endoscopic/ultrasound image	
		Picture-in-picture	Displays the endoscopic image as PinP sub-display on the ultrasound image
	Video system center	Patient data	Shares patient data with the video system center



EU-ME2 PREMIER PLUS

**OLYMPUS**<sup>®</sup>

Your Vision, Our Future

**EVIS EUS**

EVIS EUS ENDOSCOPIC ULTRASOUND CENTER

**EU-ME2**

Dedicated ultrasound processor with versatile functions



\*1 Only available on EU-ME2 PREMIER/EU-ME2 PREMIER PLUS \*2 Only available on EU-ME2 PREMIER PLUS

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

**OLYMPUS**<sup>®</sup>

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For a complete listing of sales and distribution locations visit:  
[www.olympus.com](http://www.olympus.com)

# Envisioning the future of endosonography

The EU-ME2 is a high-quality compact ultrasound processor for use with OLYMPUS endoscopic and endobronchial ultrasound 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 procedures, supporting better detection and characterization of lesions. A variety of new features such as Elastography will explore the future of endosonography.

## Excellent

Improved basic functions ensure excellent ultrasound imaging

## Unique

New functions offer unique new possibilities in endosonography

## Specific

Designed specifically to optimize endosonographic procedures



# Excellent

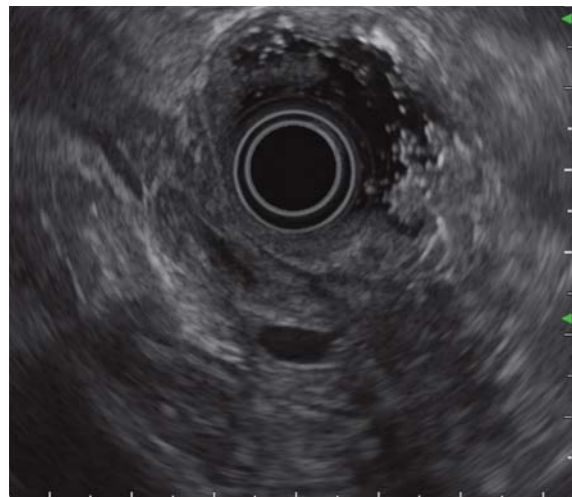
## Improved basic functions ensure excellent ultrasound imaging

### B-mode

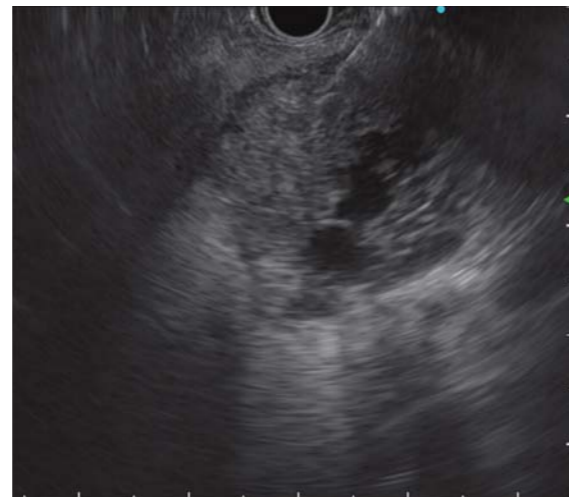
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B-mode image quality has been substantially improved, making it possible to support more efficient localization of tumors and more accurate identification of tissue properties and boundaries. Clearer image delineation helps enable more precise direction 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



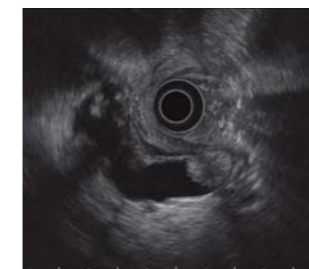
# Unique

## New functions offer unique new possibilities in endosonography

### Tissue Harmonic Echo (THE)

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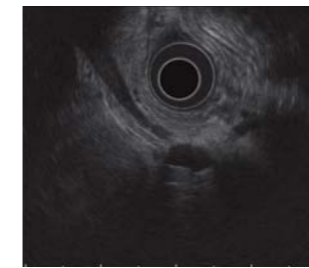
When ultrasound waves are propagated through tissue, distortion occurs and higher harmonic components are generated. The THE mode uses these components to build an image of the targeted area. Potential advantages of harmonic imaging include improved resolution, improved signal-to-noise ratio, and reduced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



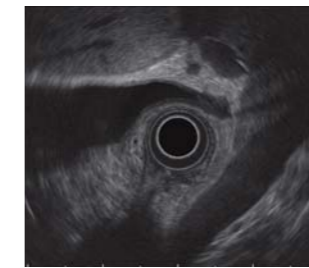
THE-P



THE-P



THE-R

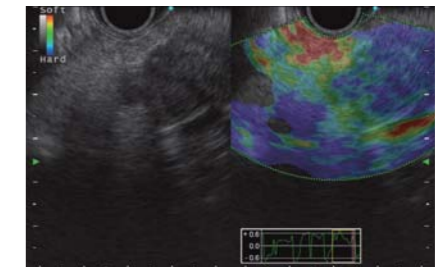
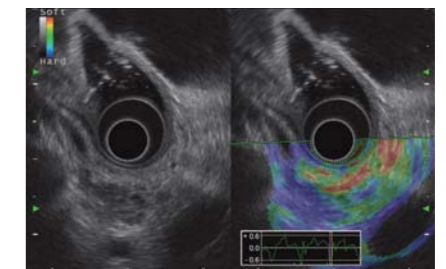


THE-R

### Elastography

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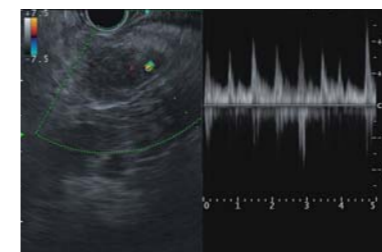
An advanced form of ultrasound, elastography displays the relative stiffness of tissues by taking advantage of the deformation caused by the compression or vibrations generated by the heartbeat or vascular pulsations.



### Pulse Wave Doppler

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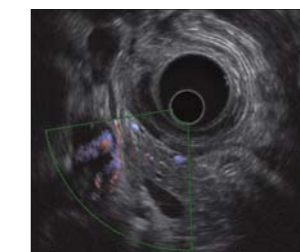
Pulse Wave Doppler measures blood flow velocities at specific locations, while cross-sectional images are viewed to spot the target vessel.



### H-FLOW

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

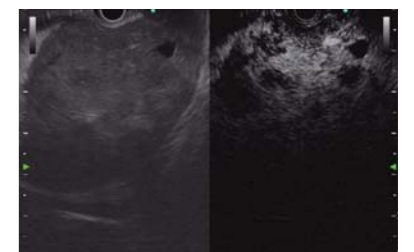


### Contrast Harmonic EUS (CH-EUS)

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Using technology designed to depict higher 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 ultrasound contrast medium according to the instructions attached to the products.



# 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 Endoscopes
- Ultrasound Probes



- Electronic Radial Endoscopes
- EUS Curved Linear Array Endoscopes
- EBUS Curved Linear Array Endoscopes

### 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 endoscopy and ultrasound images can be displayed on a single monitor.

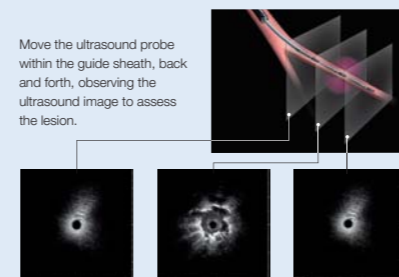
### EVIS-ready and space-saving design

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.

Move the ultrasound probe within the guide sheath, back and forth, observing the ultrasound image to assess the lesion.



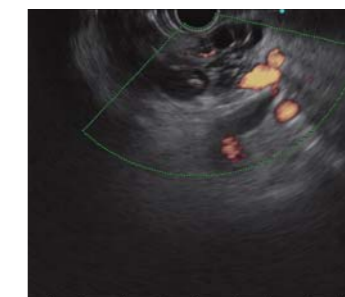
## Clinical Cases

See some of what you can do with the EU-ME2 using various types of ultrasound endoscopes and probes. 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.

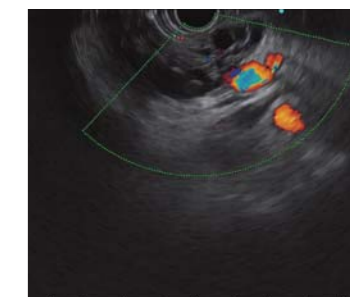
### With Curved Linear Array Ultrasound Endoscope



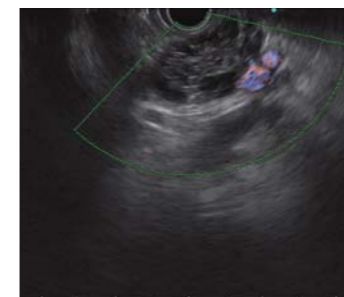
THE-P mode



POWER FLOW mode



COLOR FLOW mode

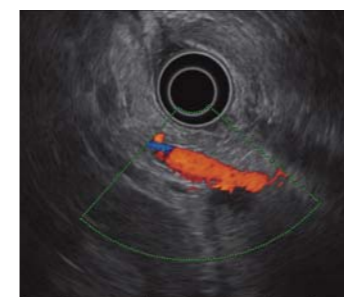


H-FLOW mode

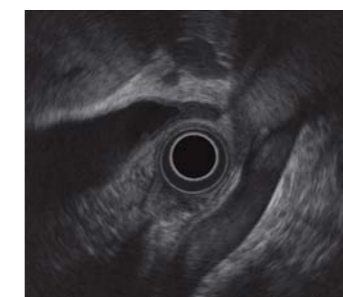


ELST (Elastography) mode

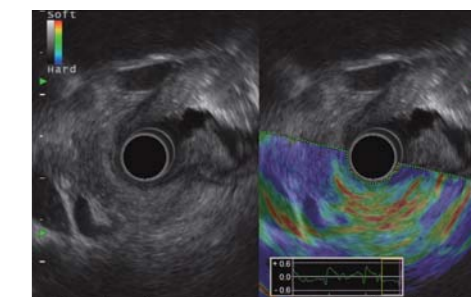
### With Electronic Radial Ultrasound Endoscope



COLOR FLOW mode



THE-R mode



ELST (Elastography) mode

### EBUS



B-mode



H-FLOW mode



ELST (Elastography) mode