



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 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 visualisation, the EU-ME2 brings real clarity to your EUS procedures, supporting better detection and characterisation of lesions. A variety of new features such as harmonic echo and Elastography help to 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 optimise 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 localisation of tumours and more accurate identification of tissue properties and boundaries. Clearer image delineation helps enable more precise orientation 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



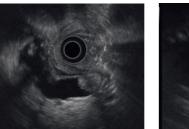
UNIQUE - NEW FUNCTIONS OFFER UNIQUE NEW POSSIBILITIES IN ENDOSONOGRAPHY





Tissue Harmonic Echo (THE)

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, an improved signal-to-noise ratio and fewer artefacts.







THE-R (radial)



THE-P (linear)

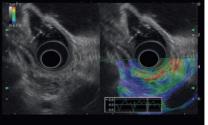


THE-R (radial)

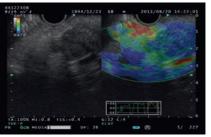


Elastography

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.



ELASTOGRAPHY



ELASTOGRAPHY





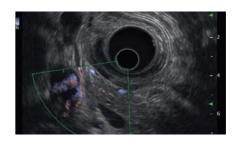


Pulse Wave Doppler measures blood flow velocities at specific locations, while cross-sectional images are viewed to spot the target vessel.



H-FLOW

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

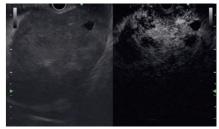




Contrast Harmonic EUS (CH-EUS)

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

Note: 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 provided with the products.





SPECIFIC - DESIGNED SPECIFICALLY TO OPTIMISE **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 miniature probes



- 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.



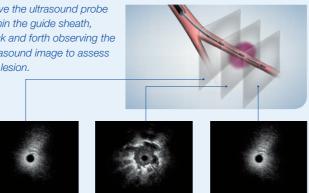
EVIS-ready and space-saving design

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 the EBUS GuideSheath procedure. By placing the GuideSheath with the inserted miniature probe near the target lesion, the probe can be withdrawn and forceps or a brush can be conveniently advanced to the site of the lesion for further sampling. Advancing the sampling device through the sheath after the miniature probe has been withdrawn helps to improve accuracy and shorten the examination time.



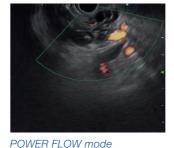


CLINICAL CASES

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 new functions, and the efficiency of the endosonography-specific design, the EU-ME2 will help you envision the future of endosonography.

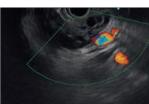
With a curved linear array ultrasound endoscope

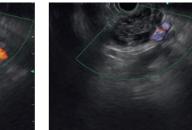






ELST (elastography)



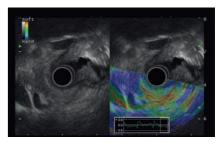


COLOR FLOW mode H-FLOW mode

With an electronic radial ultrasound endoscope





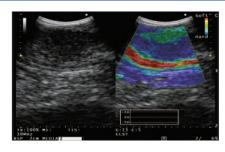


ELST (elastography)

EBUS







ELST (elastography)

B-mode

H-FLOW mode

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Power supply	Voltage		NTSC), 220-240 V AC (for PAL)	
	Voltage fluctuation	Within ±10%		
	Frequency		50/60 Hz	
	Frequency fluctuation		Within ±1 Hz	OUNNIN
	Consumption (electric power)		370 VA	A
Classification	Dimensions	Main unit	371 (W) × 175 (H) × 480 (D) mm 445 (W) × 184 (H) × 495 (D) mm (max.)	
		Keyboard	392 (W) × 39 (H) × 207 (D) mm	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND
	Weight	Main unit	22.5 kg	
		Keyboard	2.5 kg	
	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 EU-ME2 PREMIER PLUS		
	Degree of protection against explosion	The ultrasound cen from flammable gas	itre should be kept away ses	
TYPE BF applied part	This instrument can safely be app	olied to any part of the	body except the heart	
EMC	This instrument complies with t	the standards listed a	s follows: IEC 60601-1-2: 2001, IEC 6060	01-2-37: 2007
	CISPR 11 of emission: Group 1	·		
Ultrasound scanning format	Mechanical scanning, electroni			
Mechanical scanning	Display mode	B-mode	<u> </u>	
	Scanning	Radial scanning		
	Compatible equipment		canning 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, STO	C, enhance	
	Display processing	Rotation Rotatable (64 steps, clockwise/counterclockwise) Display area Full circle, bottom sector, top sector, scroll		lockwise)
				oll
		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		
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	Display range	2, 3, 4, 5, 6, 7, 8, 9	9, 12 cm	
	Display range Image adjustment	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STC	9, 12 cm C, enhance, compound	
	Display range	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area	9, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s	ector, scroll Curved linear array: convex
	Display range Image adjustment	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STC	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse	ector, scroll Curved linear array: convex
	Display range Image adjustment	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area	9, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s	ector, scroll Curved linear array: convex
	Display range Image adjustment	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse	
	Display range Image adjustment Display processing	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern	0, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen	
	Display range Image adjustment Display processing Cine memory	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern Over 600 frames ca	2), 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions	Cine review function
	Display range Image adjustment Display processing Cine memory	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting	2, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far	Cine review function
	Display range Image adjustment Display processing Cine memory Focus	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STC Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting COLOR FLOW mod	7, 12 cm 7, enhance, compound 8, Radial: Full circle, bottom sector, top s 8, Normal/inverse 9, Single-screen/dual-screen 1, be stored depending on the conditions 1, Near/far 1, Focus location adjustable, focus number.	Cine review function
	Display range Image adjustment Display processing Cine memory Focus FLOW mode	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STC Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting COLOR FLOW mod B+PW, Color+PW,	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode	Cine review function
	Display range Image adjustment Display processing Cine memory Focus FLOW mode PW mode	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STC Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting COLOR FLOW mod B+PW, Color+PW,	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode Power+PW, H-Flow+PW	Cine review function
	Display range Image adjustment Display processing Cine memory Focus FLOW mode PW mode Measurement THE (Tissue Harmonic Echo)	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern Over 600 frames or Auto preset Focus setting COLOR FLOW mod B+PW, Color+PW, Distance, area, circ THE-P, THE-R	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode Power+PW, H-Flow+PW	Cine review function
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	Display range Image adjustment Display processing Cine memory Focus FLOW mode PW mode Measurement THE (Tissue Harmonic Echo) mode *1, *2 CH-EUS mode *1, *2	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern Over 600 frames co Auto preset Focus setting COLOR FLOW mor B+PW, Color+PW, Distance, area, circ THE-P, THE-R Display pattern Preset (CH agent type) Frequency selection TIC analysis	O, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode Power+PW, H-Flow+PW sumstance, PW measurement CH-B, CH-Color 2 types, adjustable (middle or low) n 2 types, adjustable (CH-R or CH-P) Displays the change over time of the a	Cine review function er adjustable
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Recording data	Display range Image adjustment Display processing Cine memory Focus FLOW mode PW mode Measurement THE (Tissue Harmonic Echo) mode *1, *2 CH-EUS mode *1, *2	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting COLOR FLOW mod B+PW, Color+PW, Distance, area, circ THE-P, THE-R Display pattern Preset (CH agent type) Frequency selection TIC analysis Pressurisation state guide Strain ratio Still image	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode Power+PW, H-Flow+PW sumstance, PW measurement CH-B, CH-Color 2 types, adjustable (middle or low) n 2 types, adjustable (CH-R or CH-P) Displays the change over time of the a Strain graph, pressurisation bar Displays the amounts of the strain and BMP, JPEG, 3DV	Cine review function er adjustable verage brightness of each ROI
	Display range Image adjustment Display processing Cine memory Focus FLOW mode PW mode Measurement THE (Tissue Harmonic Echo) mode *1, *2 CH-EUS mode *1, *2 ELST mode (elastography) *2 Data format	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting COLOR FLOW mod B+PW, Color+PW, Distance, area, circ THE-P, THE-R Display pattern Preset (CH agent type) Frequency selection TIC analysis Pressurisation state guide Strain ratio	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode Power+PW, H-Flow+PW sumstance, PW measurement CH-B, CH-Color 2 types, adjustable (middle or low) n 2 types, adjustable (CH-R or CH-P) Displays the change over time of the a Strain graph, pressurisation bar Displays the amounts of the strain and BMP, JPEG, 3DV AVI	Cine review function er adjustable verage brightness of each ROI their ratio in two areas
	Display range Image adjustment Display processing Cine memory Focus FLOW mode PW mode Measurement THE (Tissue Harmonic Echo) mode *1, *2 CH-EUS mode *1, *2 ELST mode (elastography) *2 Data format Keyboard	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STO Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting COLOR FLOW mod B+PW, Color+PW, Distance, area, circ THE-P, THE-R Display pattern Preset (CH agent type) Frequency selection TIC analysis Pressurisation state guide Strain ratio Still image	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode Power+PW, H-Flow+PW sumstance, PW measurement CH-B, CH-Color 2 types, adjustable (middle or low) n 2 types, adjustable (CH-R or CH-P) Displays the change over time of the a Strain graph, pressurisation bar Displays the amounts of the strain and BMP, JPEG, 3DV AVI Keyboard with built-in trackball, LCD to	Cine review function er adjustable verage brightness of each ROI their ratio in two areas
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Recording data Ancillary equipment	Display range Image adjustment Display processing Cine memory Focus FLOW mode PW mode Measurement THE (Tissue Harmonic Echo) mode *1, *2 CH-EUS mode *1, *2 ELST mode (elastography) *2 Data format Keyboard Recording device	2, 3, 4, 5, 6, 7, 8, 9 Gain, contrast, STC Display area Direction Display pattern Over 600 frames ca Auto preset Focus setting COLOR FLOW mod B+PW, Color+PW, Distance, area, circ THE-P, THE-R Display pattern Preset (CH agent type) Frequency selection TIC analysis Pressurisation state guide Strain ratio Still image Movie data *1, *2	D, 12 cm C, enhance, compound Radial: Full circle, bottom sector, top s Normal/inverse Single-screen/dual-screen an be stored depending on the conditions Near/far Focus location adjustable, focus numb de, POWER FLOW mode, H-FLOW mode Power+PW, H-Flow+PW sumstance, PW measurement CH-B, CH-Color 2 types, adjustable (middle or low) n 2 types, adjustable (CH-R or CH-P) Displays the change over time of the at Strain graph, pressurisation bar Displays the amounts of the strain and BMP, JPEG, 3DV AVI Keyboard with built-in trackball, LCD to	Cine review function er adjustable verage brightness of each ROI their ratio in two areas buch panel and LED backlit keys

^{*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.

