



The Olympus EBUS Solution

# EU-ME2

**Universal ultrasound processor for curvilinear and radial EBUS.**



# EU-ME2 Ultrasound Reprocessor

## For Curvilinear and Radial EBUS

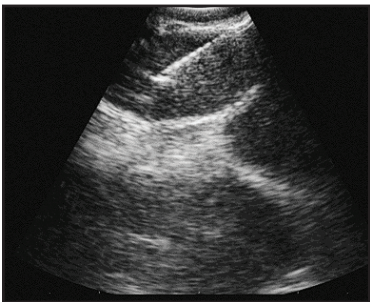
This versatile system allows real-time visualization of the targeted area for precise sampling of lymph nodes and pulmonary lesions.

Its unique design supports electronic and mechanical scanning for both curvilinear and radial EBUS in one compact box.



## Functionality

New features expand available modes of observation, designed to assist in diagnosis and improved quality of care.

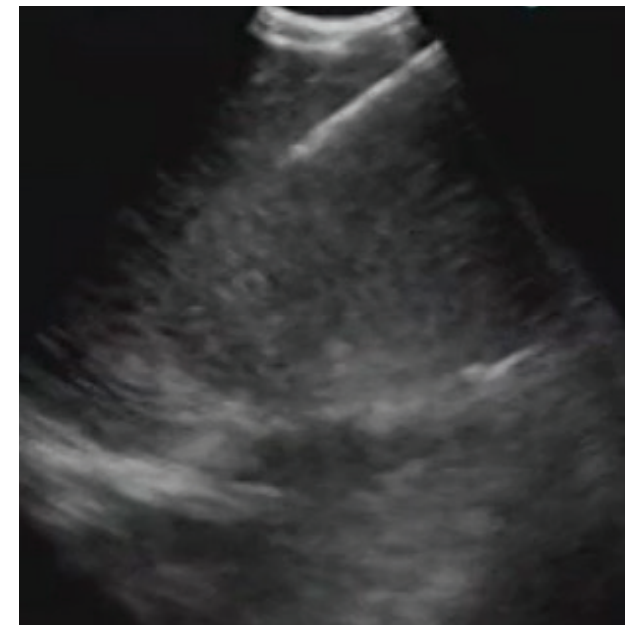


**B-mode:**  
Enhanced image quality makes it possible to accurately identify tissue properties and boundaries for precise, real-time sampling.

**High Resolution (H) FLOW Modes:**  
Allows imaging of small vessels in the region of interest. It also helps to identify lymph node vascularity in real-time.

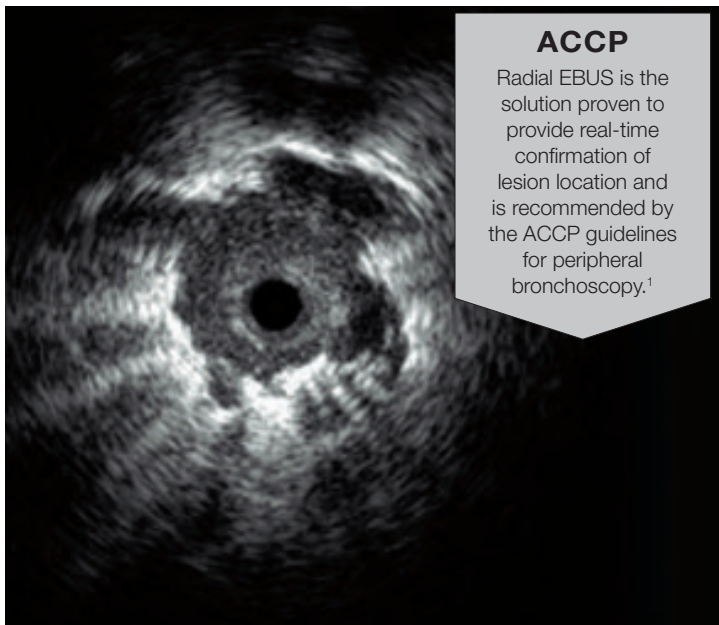
## Backward and forward compatibility

The versatile EU-ME2 is backward and forward compatible with a wide variety of Olympus EBUS and EUS scopes and radial EBUS probes. The processor offers a cost-effective solution to pulmonary, thoracic surgery, and gastroenterology departments that can be shared across specialties. The processor is available in two models to meet the needs of any size facility.



### Curvilinear EBUS

The EU-ME2 allows real-time visualization with outstanding image quality as the ViziShot EBUS-TBNA needle penetrates the lymph node under ultrasound guidance. This facilitates correct capsule-to-capsule technique, which helps to optimize specimen collection.



### Radial EBUS

Olympus offers the industry's first radial EBUS. Using the EU-ME2 ultrasound processor, radial EBUS provides a 360-degree image of the airway wall and surrounding structures external to the airway. The real-time ultrasound image enables direct visualization of the exact position of the lesion for sampling.

**ACCP**  
Radial EBUS is the solution proven to provide real-time confirmation of lesion location and is recommended by the ACCP guidelines for peripheral bronchoscopy.<sup>1</sup>

## Versatility

The EU-ME2 is fully compatible with a wide range of EBUS and EUS scopes and probes. With integrated electronic and mechanical scanning, the EU-ME2 supports both curvilinear and radial EBUS.

- Curvilinear array EBUS bronchoscope
- Mechanical radial EBUS probes
- Electronic radial scanning EUS scopes
- Curvilinear array scanning EUS scopes



## Olympus Ultrasound Comparison

| Key Functions                 | EU-ME2 | EU-ME2 Premier Plus |
|-------------------------------|--------|---------------------|
| Improved B-mode               | Yes    | Yes                 |
| High Resolution Flow (H-Flow) | Yes    | Yes                 |
| Pulse Wave Doppler (PWD)      | Yes    | Yes                 |
| Elastography                  | No     | Yes                 |
| Movie Recording               | No     | Yes                 |
| Tissue Harmonic Echo (THE)    | No     | Yes                 |

# EU-ME2 Ultrasound Processor

## Ordering Information

|                            |                                                             |                                       |                                                                                                                                                         |                                                                          |
|----------------------------|-------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Size                       | Dimensions                                                  | Main unit                             | 371 (W) × 175 (H) × 480 (D) mm<br>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<br>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:<br>IEC 60601-1-2: 2001<br>IEC 60601-2-37: 2007<br>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                                                                                                                            |                                                                          |
|                            | Display processing                                          | Rotation                              | Rotatable                                                                                                                                               |                                                                          |
|                            |                                                             | 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, H-Flow mode, PWD mode, THE mode, ELST mode                                                                                                      |                                                                          |
|                            | Scanning                                                    |                                       | Radial scanning, curvilinear array scanning                                                                                                             |                                                                          |
|                            | Compatible equipment                                        |                                       | Electronic radial scanning ultrasound endoscope<br>Electronic curvilinear 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<br>Curvilinear array: Convex                                                                    |                                                                          |
|                            |                                                             | Direction                             | Normal/inverse                                                                                                                                          |                                                                          |
|                            |                                                             | Display pattern                       | Single-screen/dual-screen                                                                                                                               |                                                                          |
|                            | Cine memory                                                 |                                       | Over 600 frames storable, depending on the conditions<br>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                                                                                                           |                                                                          |
|                            | PWD (Pulse Wave Doppler) mode                               |                                       | B+PW, Color+PW, Power+PW, H-Flow+PW                                                                                                                     |                                                                          |
|                            | Measurement                                                 |                                       | Distance, area, circumstance, PW measurement                                                                                                            |                                                                          |
|                            | THE (Tissue Harmonic Echo) mode*                            |                                       | THE-P, THE-R                                                                                                                                            |                                                                          |
|                            | ELST (Elastography) mode*                                   |                                       | Pressurization state guide                                                                                                                              | Strain graph, pressurization bar                                         |
|                            | Recording Data                                              | Data format                           | Still image                                                                                                                                             | BMP, JPEG, 3DV                                                           |
|                            |                                                             |                                       | Movie data*                                                                                                                                             | Avi                                                                      |
|                            | Ancillary Equipment                                         | Keyboard                              |                                                                                                                                                         | Keyboard with built-in trackball, LCD touch panel and LED backlight keys |
| Recording device           |                                                             | Video printer (color/monochrome), DVR |                                                                                                                                                         |                                                                          |
| Video system center        |                                                             | Monitor display selection             | Endoscopic/ultrasound image                                                                                                                             |                                                                          |
|                            |                                                             | 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 EU-ME2 Premier Plus

## The Olympus EBUS Solution

### Proven Precision in Real Time

The EU-ME2 ultrasound processor belongs to the Olympus EBUS Solution family of products. Olympus offers everything you need to perform real-time lymph node and peripheral lesion sampling in one complete system for improved efficiency and quality patient care.

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