

## Specifications (Endobronchial Ultrasound Application)

Power supply	Voltage (Voltage fluctuation)	100-120 V, 220-240 V AC (±10%)	
	Frequency (Frequency fluctuation)	50/60 Hz (±1Hz)	
	Consumption electric power	300 VA	
Size	Dimensions	Main unit (Maximum)	370 (W) x 185 (H) x 480 (D) mm (430 (W) x 185 (H) x 500 (D) mm)
		Keyboard	393 (W) x 41 (H) x 205 (D) mm
	Weight	Main unit	23.0 kg
		Keyboard	2.7 kg
Classification	Type of protection	Class I	
	Degree of protection against electric shock of applied part	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 compliance	IEC 60601-1-2:2001 CISPR11 GROUP1, Class B		
Ultrasound scanning format	Mechanical scanning, Electronic scanning		
Mechanical scanning	Display mode	B mode	
	Scanning	Radial scanning	
	Compatible equipment	Mechanical radial scanning ultrasound, miniature probe	
	Usable frequencies	12 MHz, 20 MHz, 30 MHz	
	Display range	2, 3, 4, 6, 9, 12 cm	
	Image rotation	64 steps, Clockwise/Counterclockwise	
	Display area	Full circle, Bottom sector, Top sector, Scroll	
Electronic scanning	Image direction	Normal/Inverse	
	Display mode	B mode, Color flow mode, Power flow mode	
	Scanning	Curved linear array scanning	
	Compatible equipment	Electronic curved linear array scanning ultrasound endoscope	
	Usable frequencies	5 MHz, 6 MHz, 7.5 MHz, 10 MHz, 12 MHz	
	Display range	2, 3, 4, 5, 6, 9, 12 cm	
	Image rotation	64 steps, Clockwise/Counterclockwise	
	Display area (Curved linear array)	60 degrees	
	Image direction	Normal/Inverse	
	Focus	Focus point and number adjustable	
Color/Power flow mode	Mode	Normal mode, High-resolution mode	
	Velocity range	±6.0 - ±20.0 cm/s	
Measurement	Distance	Possible to measure distance between two points defined by the +, x, o or Δ symbols.	
	Area/Circumference	Measure area/circumference enclosed by caliper tracing.	
Video signal	SDTV output	VBS composite (Color, B/W), Y/C, RGB, YPbPr	
	HDTV output	RGB, YPbPr	
	DIGITAL output	IEEE1394	
Recording image data	Data format	Img format, Bmp format, Jpeg format	
	Storage device	Internal memory, External USB storage device	
	Cine memory	Maximum 160 frames, Cine review function	
Ancillary equipment	Keyboard	Keyboard with build-in trackball, LCD touch panel, and LED backlit keys	
	Photographic and recording units	Video printer (Color/Monochrome), VCR	
	Video system center	Current image selection Picture-in-picture Patient data	



EU-ME1



With EVIS EXERA II

# OLYMPUS®

Your Vision, Our Future



UNIVERSAL ENDOSCOPIC ULTRASOUND CENTER

## EU-ME1

Integrating radial and curved-linear endobronchial ultrasound into one compact processor

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

## OLYMPUS®

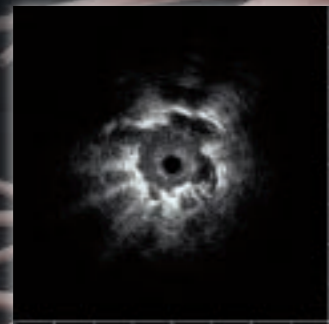
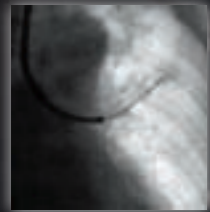
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***Integrating electronic and mechanical scanning capabilities in a single compact processor, the EU-ME1 facilitates a wide range of endobronchial ultrasound procedures.***

The world's first and only endoscopic ultrasound processor to integrate electronic and mechanical scanning, the EU-ME1 offers superb ultrasound image quality and functionality ideal for today's most advanced endobronchial ultrasound procedures. Whether it is EBUS-TBNA, radial EBUS with miniature probes, EBUS Guide Sheath technique, or EUS-FNA, the EU-ME1 is the solution.



**EBUS-TBNA**

**EBUS**



UNIVERSAL ENDOSCOPIC ULTRASOUND CENTER

**EU-ME1**

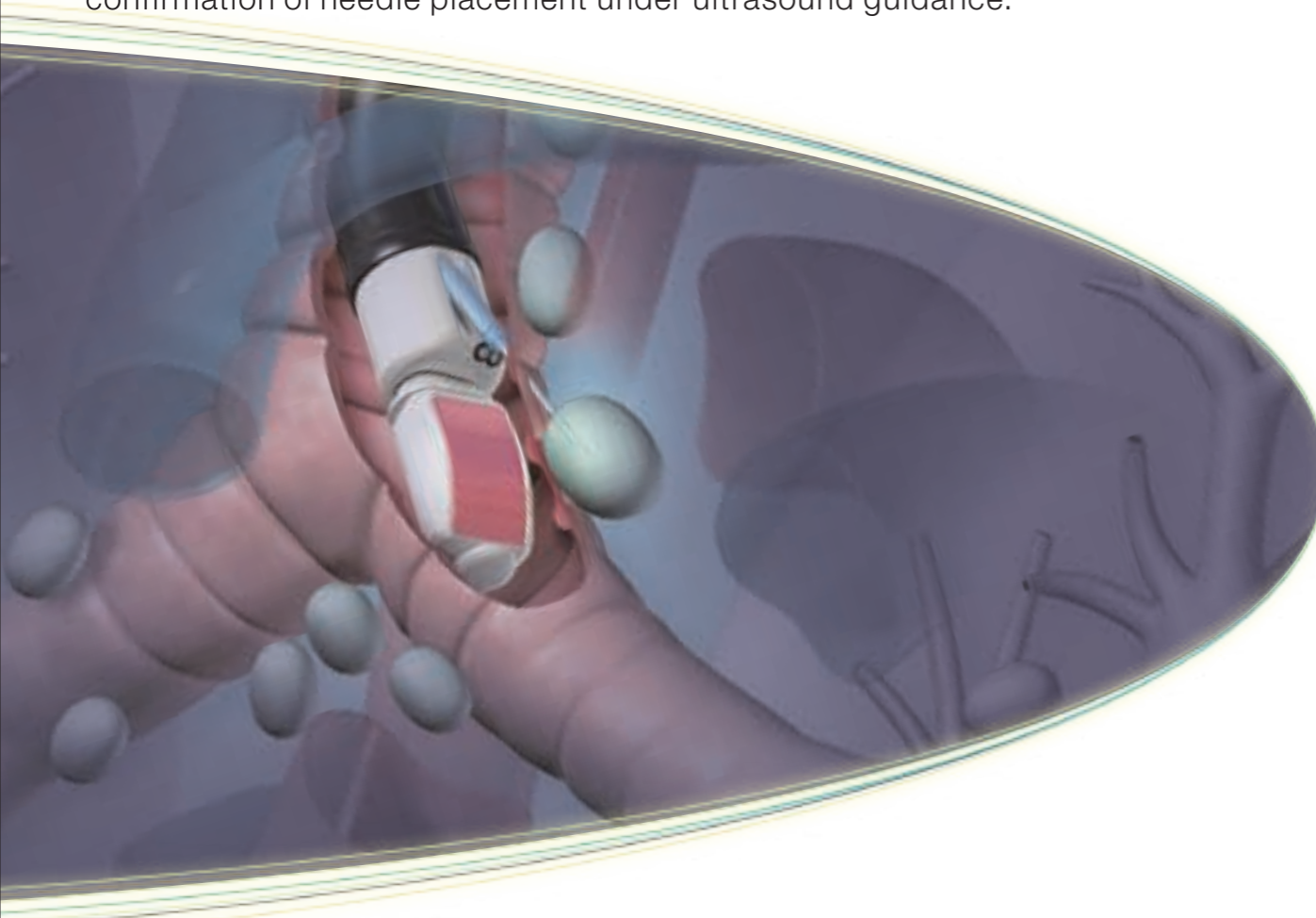
## FEATURES

- **Superb ultrasound image quality**  
When using electronic scanning instruments, the newly developed and optimized signal processing design offers high-resolution images, comparable to general-purpose ultrasound systems.
- **Enhanced functionality and ease-of-use**
  - All-in-one processor for ultrasound endoscopes and miniature probes.
  - Keyboard has better-positioned keys and a built-in touch panel and trackball for simple operation.
  - Endoscopic video processor and ultrasound processor can both be controlled with the EU-ME1 keyboard.
- **Compact, space-saving profile**  
The EU-ME1 boasts a slim, compact profile that can easily be integrated onto a conventional endoscopy workstation.
- **Output options**
  - Equipped with a USB port for connection with external storage devices.
  - IEEE 1394 interface for high-image-quality connection with digital video recorder.
  - HDTV signal output terminal for connection with HD monitor (applicable only when HDTV endoscopy system is used).

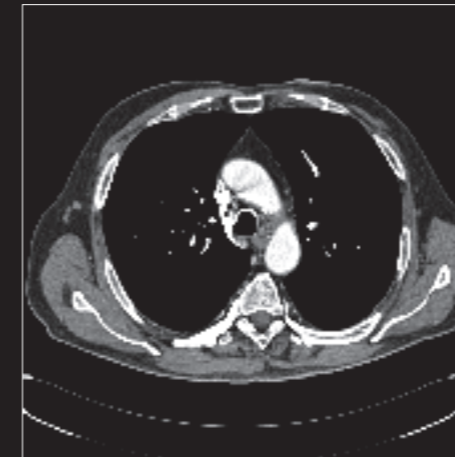


## Target specimens accurately through the minimally invasive **EBUS-TBNA** technique using **EU-ME1**.

One of today's most exciting new procedures for visualization and accurate staging of lung cancer is EBUS-TBNA. EBUS-TBNA has been proven to improve accuracy of lung cancer staging and thus improving patient care. The EU-ME1 allows real time visualization of the targeted node or mass and confirmation of needle placement under ultrasound guidance.



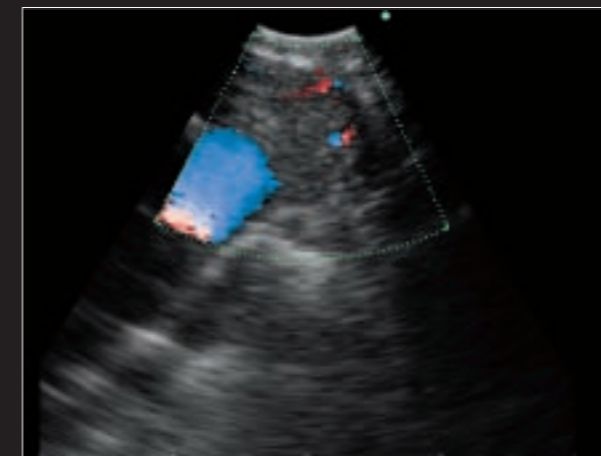
### EBUS-TBNA CLINICAL CASES



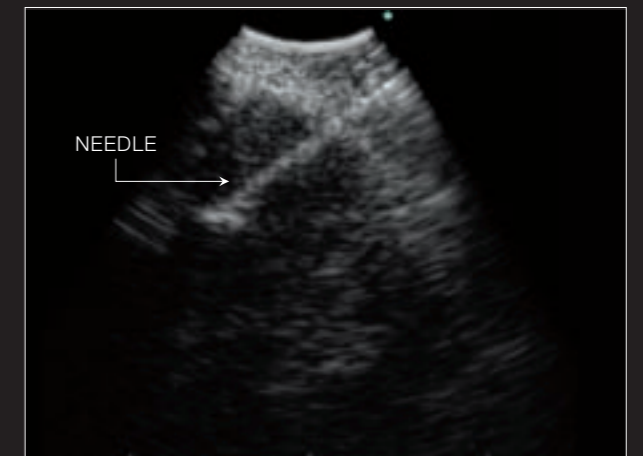
CT image



B-mode



High-resolution Color flow mode



B-mode (needle in lymph node)

### EVIS EXERA II ULTRASOUND BRONCHOFIBERVIDEOSCOPE



**NEW**

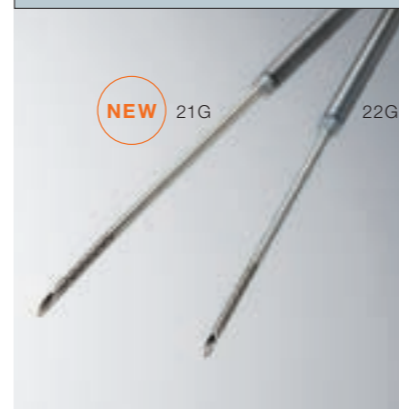
#### OLYMPUS BF TYPE UC180F

Wide 2.2 mm diameter channel and innovative detachable ultrasound cable

- Enlarged 2.2 mm channel for improved device insertion and suction capability.
- 60-degree ultrasound scanning range.
- High resolution B-mode.
- Doppler capable imaging.
- Innovative detachable cable design simplifies cleaning and facilitates easier placement into an automatic endoscope reprocessor.
- Olympus original "hybrid" design, combining video and fiberoptic technologies, allows a larger working channel diameter of 2.2 mm without compromising the slim insertion tube outer diameter.



### SINGLE USE ASPIRATION NEEDLE



**NEW**

#### NA-201SX-4021/4022

Echogenic dimpled needle tip for improved visibility on ultrasound images

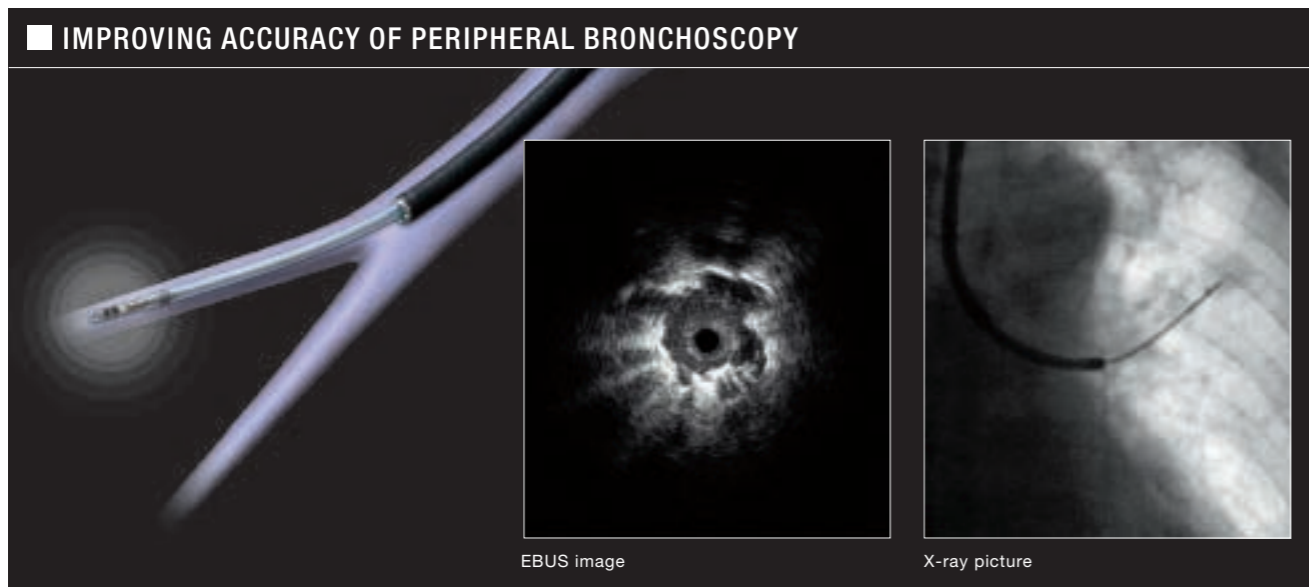
- Specifically designed for use with Olympus' EBUS-TBNA scopes.
- 21-gauge and 22-gauge needles are available providing options for all your aspiration needs.
- Adjustable sheath needle for precise positioning and puncture.
- Pre-sterilized and single-use design.

**ViziShot™**





**The EU-ME1 is ideal for use with the ultrasound miniature probe and Guide Sheath Kit. The Guide Sheath is a tool with the ability to improve efficiency and accuracy of transbronchial biopsy in peripheral pulmonary lesions.**

Once the lesion has been identified under ultrasound guidance, the Guide Sheath can be positioned adjacently, allowing biopsy forceps or cytology brushes repeated access to the region of interest without losing the target.



**ULTRASOUND MINATURE PROBES & GUIDE SHEATH KITS**

 <p><b>UM-S20-17S</b> <b>UM-S20-20R</b> <b>UM-S30-20R</b></p> <ul style="list-style-type: none"> <li>The UM-S20-17S is compatible with bronchoscopes having a 2.0 mm, or greater, working channel. The UM-S20-20R and UM-S30-20R require a 2.2 mm, or greater, channel.</li> <li>20 or 30 MHz scanning for high-resolution imaging of superficial lesions, improving observation and diagnosis.</li> <li>Four Guide Sheath Kit options are available: K-201 and K-202 for use with the UM-S20-17S. K-203 and K-204 are compatible with the UM-S20-20R and UM-S30-20R.</li> </ul>	<p><b>K-201/K-203</b> <b>K-202/K-204</b></p> <ul style="list-style-type: none"> <li>Kits include the Guide Sheath, stopper for positioning the guide sheath or ultrasound probe, and biopsy forceps (an additional cytology brush is included in kits K-201 and K-203).</li> <li>Provides continuous access to the region of interest for sampling.</li> <li>Guiding device (CC-6DR-1), available as an option, leads the Guide Sheath to the targeted lesion when it is difficult to advance the Guide Sheath.</li> </ul> 
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**GuideSheathKit**

