

Specifications

| | | | | |
|----------------------------|---|--|--|--|
| Power supply | Voltage | | 100-120 V, 220-240 V AC | |
| | Voltage fluctuation | | ±10% | |
| | Frequency | | 50/60 Hz | |
| | Frequency fluctuation | | ±1Hz | |
| | Consumption electric power | | 300 VA | |
| Size | Dimensions | | Main unit 370(W) x 185(H) x 480(D) mm Main unit (Maximum) 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 | |
| | Type of protection | | 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 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 endoscope Miniature probe | |
| | Usable frequencies | | C5, C7.5, C12, C20, 7.5 MHz, 12 MHz, 20 MHz, 30 MHz | |
| | Display range | | 2, 3, 4, 6, 9, 12 cm | |
| | Display processing | Rotation (Radial) | Rotatable (64 steps, Clockwise/Counterclockwise) | |
| | | Rotation (Radial at DPR/MPR) | Rotatable (512 steps, Clockwise/Counterclockwise) | |
| | | Display area | Full circle, Bottom sector, Top sector, Scroll | |
| | | Direction | Normal/Inverse | |
| | Cine memory | | Maximum 160 frames Cine review function | |
| | 3D | | Linear display, Oblique display, Surface display | |
| | Electronic scanning | Display mode | | B mode, Color flow mode, Power flow 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 MHz, 6 MHz, 7.5 MHz, 10 MHz, 12 MHz |
| Display range | | 2, 3, 4, 5, 6, 9, 12 cm | | |
| Display processing | | Rotation | Rotatable (64 steps, Clockwise/Counterclockwise) | |
| | | Display area (Radial) | Full circle, Bottom sector, Top sector, Scroll | |
| | | Display area (Curved linear array) | Curved linear array | |
| | | Direction | Normal/Inverse | |
| Cine memory | | Maximum 160 frames Cine review function | | |
| Focus | | Focus location adjustable Focus number adjustable | | |
| Color/Power flow mode | | Mode | Normal mode, High-resolution mode | |
| | | Velocity range | ±6.0 - ±20.0 cm/s | |
| 3D | | 3D display | | Provides online or real time 3D display by reconstructing multiple continuous 2D images acquired from 3D scanning. |
| | | MPR display | | Displays radial display images, vertical linear display images, horizontal display images and 3D display images simultaneously during 3D examinations with the screen divided into four. |
| Measurement | Distance Area/Circumference | | Possible to measure distance between two points defined by the +, x, o or Δ symbols. Measure area/circumference enclosed by caliper tracing. | |
| Estimation | Volume | | Available | |
| 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 storage device in conformity with USB | |
| Ancillary equipment | Keyboard | | Keyboard with build-in trackball, LCD touch panel, and LED backlit keys | |
| | Photographic and recording units | | Video printer (Color/Monochrome), VCR | |
| | Remote controllers | | Foot switch, Mechanical radial scanning ultrasound endoscope remote switches | |
| | Video system center | | The monitor display can be switched between endoscopic and ultrasound images. Displays the endoscopic image as a PinP subdisplay on the ultrasound image. | |
| | Current image selection | Can share patient data with a video system center. | | |
| Picture-in-picture | | | | |
| Patient data | | | | |



EU-ME1



MAJ-1715 RS Adapter (option)

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

OLYMPUS®

Your Vision, Our Future

Mechanical Scanning



Electronic Scanning

UNIVERSAL ENDOSCOPIC ULTRASOUND CENTER

EU-ME1

OLYMPUS®

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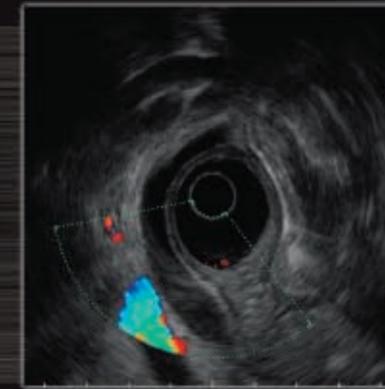
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Integrating both electronic and mechanical scanning technologies, the new EU-ME1 facilitates a wide range of endosonographic features and still provides the exceptional image quality you expect.

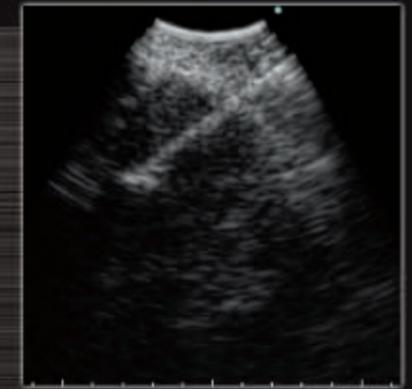
The first and only endoscopic ultrasound center to integrate mechanical and electronic scanning capability is now available from Olympus. The EU-ME1 paves the way for an exciting era of advanced interventional endosonographic procedures, while continuing to support conventional procedures. The EU-ME1 is fully compatible with Olympus mechanical echoendoscopes, Aloka-compatible echoendoscopes, Olympus esophageal/rectal ultrasound probes, and ultrasound miniature probes. Designed and optimized specifically for Endoscopic Ultrasound (EUS) applications, this system offers greatly improved electronic scanning as well as the high-quality ultrasound images our customers have come to expect. With its compact, space-saving profile, user-friendly design with touch-panel keyboard, and wide range of convenient and practical functions, the EU-ME1 is the total endosonography solution.



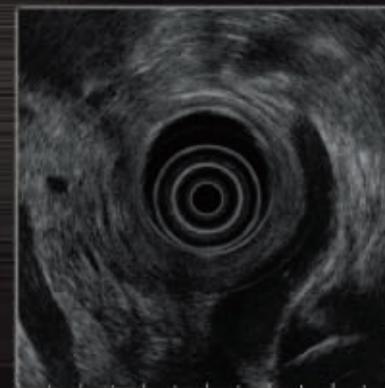
EUS-FNA



Color Doppler



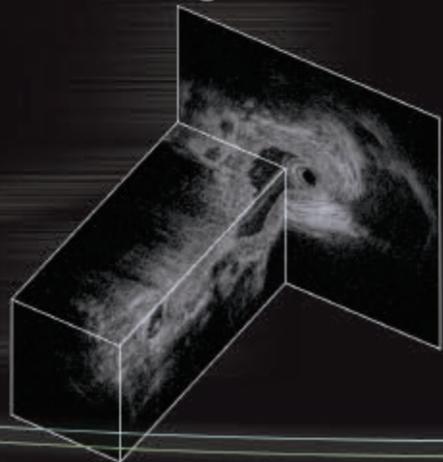
EBUS-TBNA



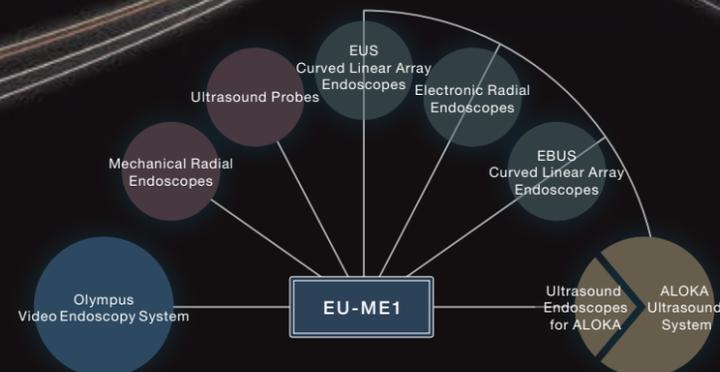
Broadband scanning



IDUS



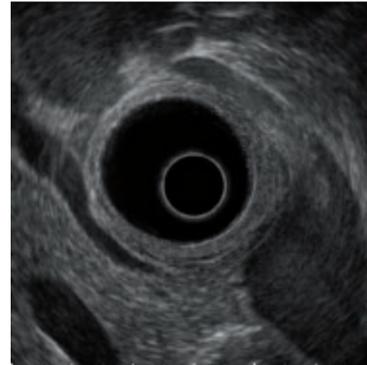
3D Image



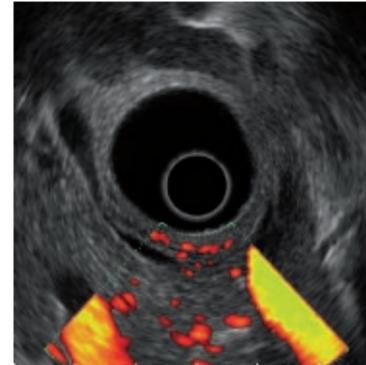
State-of-the-art electronic scanning can be used to support imaging, EUS-guided FNA, and interventional procedures, providing high-quality imaging capabilities and Doppler functionality.

ELECTRONIC RADIAL SCANNING ENDOSCOPE

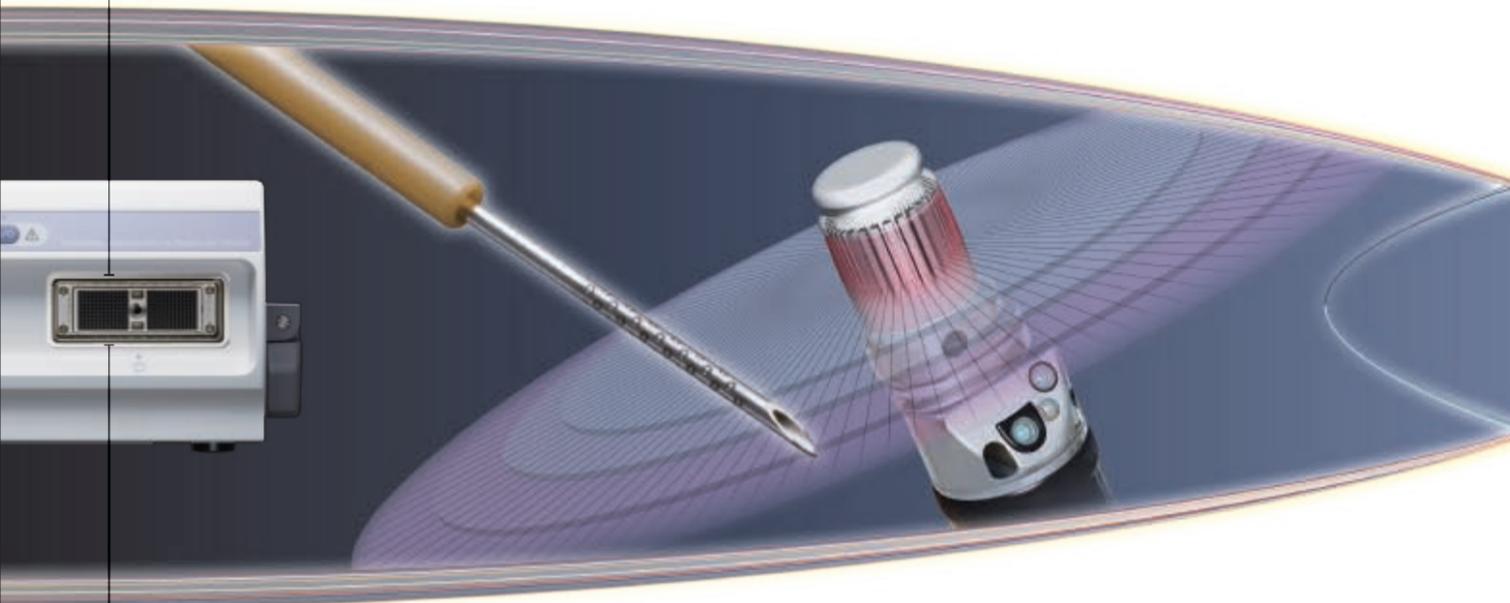
Designed to accommodate the world's first 360° electronic radial scanning ultrasound endoscopes, the EU-ME1 paves the way for state-of-the-art endoscopic ultrasonography with the color/power flow that incorporates a high-resolution mode to more readily identify vascular structures.



B-mode



Power flow mode



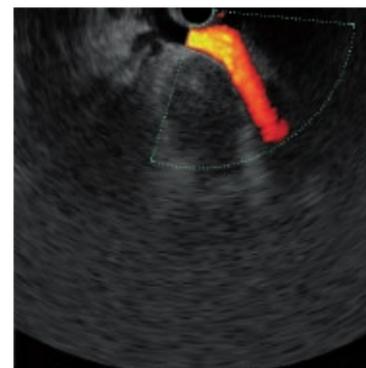
CURVED LINEAR ARRAY SCANNING ENDOSCOPE

The EU-ME1's curved linear array scanning guides FNA procedures with greatly improved ultrasound image and Doppler functions.

When an Olympus curved linear array scanning endoscope is connected to the EU-ME1, you can perform interventional procedures and EUS-guided FNA, to accurately acquire specimens from targeted lesions.



B-mode

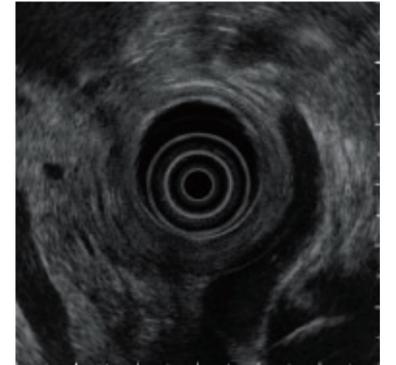


Power flow mode

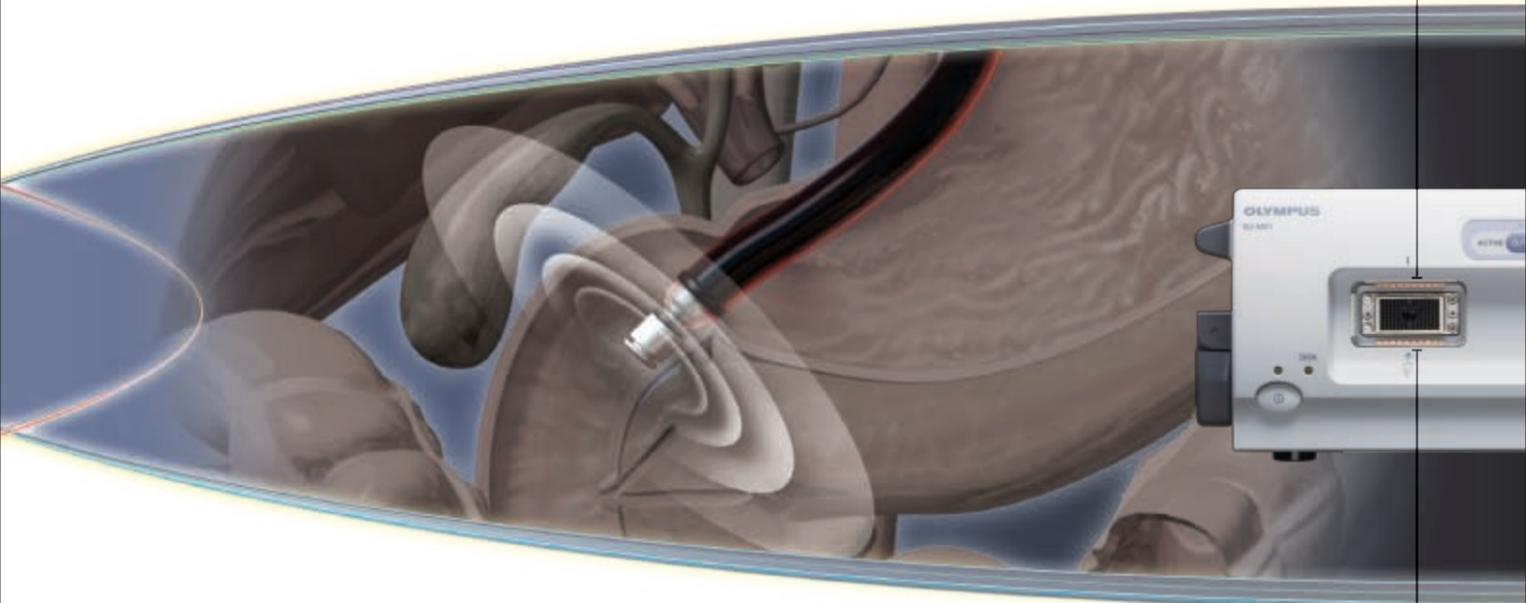
Incorporating technology unique to Olympus, the broadband echoendoscope and wide range of ultrasound probes offer EUS capabilities to support a variety of imaging procedures.

MECHANICAL RADIAL SCANNING ULTRASOUND ENDOSCOPES

With the versatile EU-ME1, you can also take advantage of Olympus' mechanical radial scanning technology, which uses a HyperBand transducer. True broadband scanning is provided using four different center frequencies to obtain high-resolution ultrasound images with deeper penetration. Depending on the frequency you choose, you can image deeper into the body or focus on the finer details of more superficial areas.

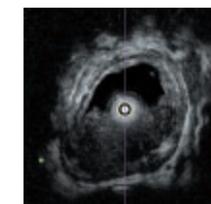


B-mode

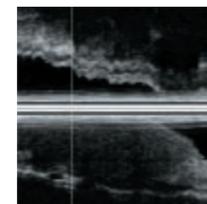


MECHANICAL RADIAL SCANNING ULTRASOUND PROBES

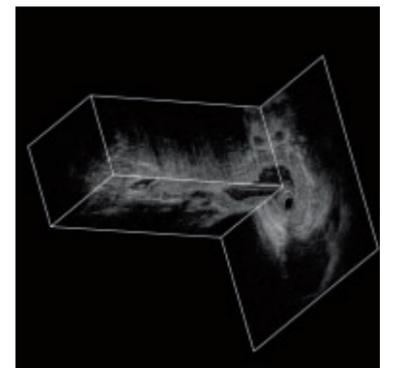
Olympus' originality doesn't stop at mechanical scanning echoendoscopes. We also offer a wide range of mechanical radial scanning miniature probes that can be passed down the channel of a standard endoscope to provide high quality ultrasound images within and beyond the gut wall, common bile duct, and pancreatic duct. Available with various frequencies, outer diameters, and applications, Olympus' wide range of ultrasound probes will meet your individual examination needs.



Radial image



Linear image



3D image

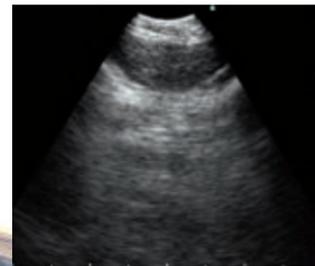
With EU-ME1, Olympus also provides a comprehensive endobronchial ultrasound system ideal for the staging and diagnosis of suspected lung cancer.

ENDOBONCHIAL ULTRASOUND-GUIDED TRANSBRONCHAL NEEDLE ASPIRATION

[CURVED LINEAR ARRAY SCANNING ENDOSCOPE]

Real time endobronchial ultrasound-guided transbronchial needle aspiration (EBUS-guided TBNA) is one of today's most exciting new minimally invasive techniques used for obtaining accurate specimens in patients with mediastinal lymph nodes suspected of malignancy.

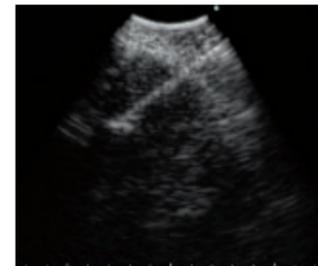
EBUS-TBNA enables you to puncture the target lesion while confirming needle tip location under ultrasound guidance, significantly improving accuracy. The leading experts are predicting that it will become the first choice of biopsy, performed before mediastinoscopy, for lung cancer staging.



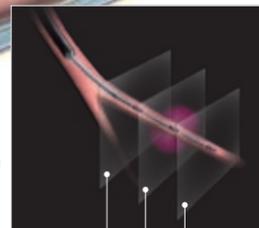
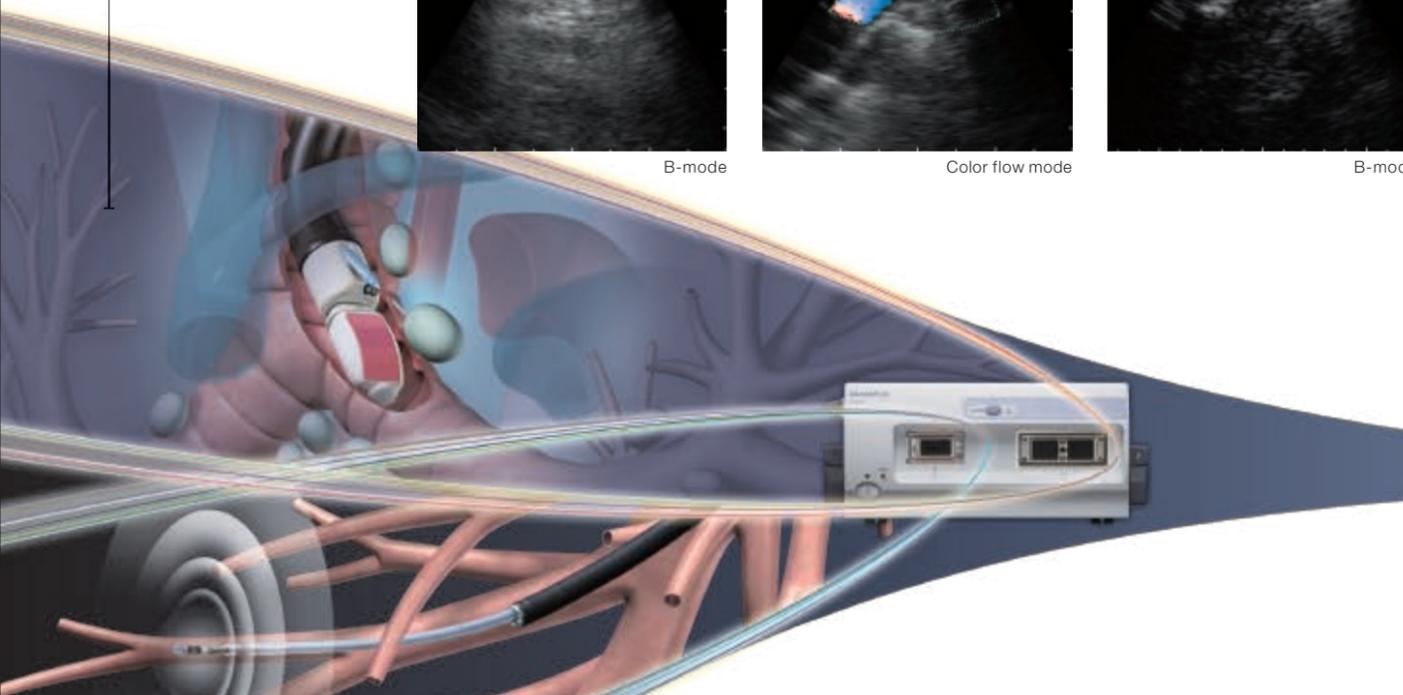
B-mode



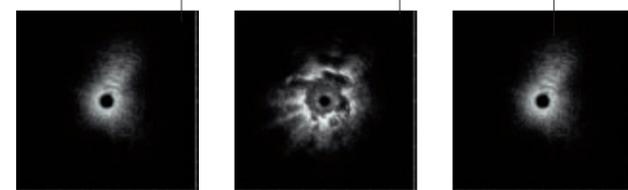
Color flow mode



B-mode



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



ENDOBONCHIAL ULTRASOUND GUIDE-SHEATH BIOPSY

[MINIATURE PROBES]

The EBUS Guide Sheath is another new technique for obtaining specimens in suspected peripheral lung cancer. By placing the guide sheath near the target lesion, previously delineated by the radial scanning miniature probe, you can perform biopsy or brush cytology repeatedly and easily. Advancing the sampling device through the sheath after the miniature probe has been withdrawn improves accuracy, and shortens examination time.

A compact, user-friendly design and extensive connectivity allow for simple system integration for basic and advanced EUS procedures performed in the same room.

Compact platform and EVIS-ready design that can be placed on a standard endoscopy cart

The EU-ME1 is designed to save space in your endoscopy suite. For all its advanced capabilities and versatile functions, the EU-ME1 boasts a slim, compact profile that fits easily on the shelf of an endoscopy cart and leaves plenty of room for all the other equipment you need. The picture-in-picture function allows for both endoscopy image and ultrasound image to be displayed on a single monitor.

Sophisticated keyboard with touch panel, trackball, and LED backlit keys

The EU-ME1 also features a newly designed keyboard that includes a touch panel, with fewer and better-positioned keys, a trackball, and LED backlit keys. This allows for more user-friendly operation and seamless integration with the Olympus EVIS endoscopy system.



A wide range of interfaces ensures expandability in the future

USB output

A built-in USB interface can connect to a wide variety of modern digital devices.

HDTV output

When used with the OEV191H monitor, the EU-ME1 can display both the endoscopic and ultrasound images via an HDTV signal using the picture-in-picture function.

IEEE1394 output

An IEEE1394 interface, for high-speed communications and isochronous real-time data transfer, can be connected to advanced digital storage devices.

RS Adapter (MAJ-1715)

An RS adapter (MAJ-1715) can be connected to echoendoscopes or probe driving units that have a round connector, ensuring backward compatibility.

