

**OLYMPUS**<sup>®</sup>

Your Vision, Our Future



EVIS EXERA ULTRASONIC BRONCHOFIBERVIDEOSCOPE

OLYMPUS **BF** TYPE **UC160F** -OL8



**A More Efficient and More Accurate Method for Diagnosis and Staging in the Lung.**



# An endobronchial ultrasound-guided TBNA system specifically designed for diagnostic biopsies in the lung

Unlike conventional transbronchial needle aspiration biopsies or mediastinoscopy, endobronchial ultrasound-guided TBNA's breakthrough combination of maximum reliability and minimum invasiveness is expected to make it the biopsy method of choice for more accurate diagnosis and staging in the lung. As a leader in this field, Olympus introduces an endobronchial ultrasound-guided TBNA system designed specifically for diagnosis and staging in the lung. Featuring an innovative ultrasonic "hybrid scope" with linear-scanning ultrasound imaging capability and a dedicated aspiration needle, the BF-UC160F-OL8 is paving the way for improved diagnosis and staging of lung cancer.

2R

A lymph node 8 mm in size located between the trachea and the right carotid artery (RCA). The right jugular vein (RJV) can be seen in proximity.



2R

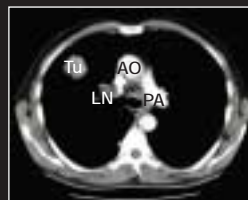
4R

4L

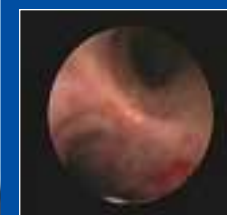
11L

4R

Puncture of a lymph node (LN). Note the reflexions caused by air in lung tissue (Lu).

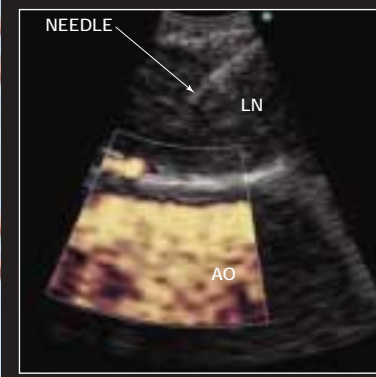
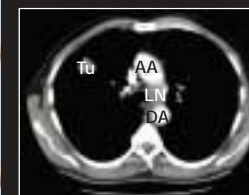


Tumor stenosis of the upper lobe artery. Power Doppler shows residual blood flow.



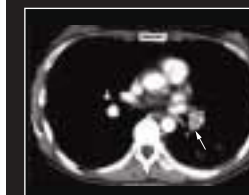
4L

A lymph node (LN) with needle echo and power doppler image of the aorta (AO) at the level of the aortic arch.



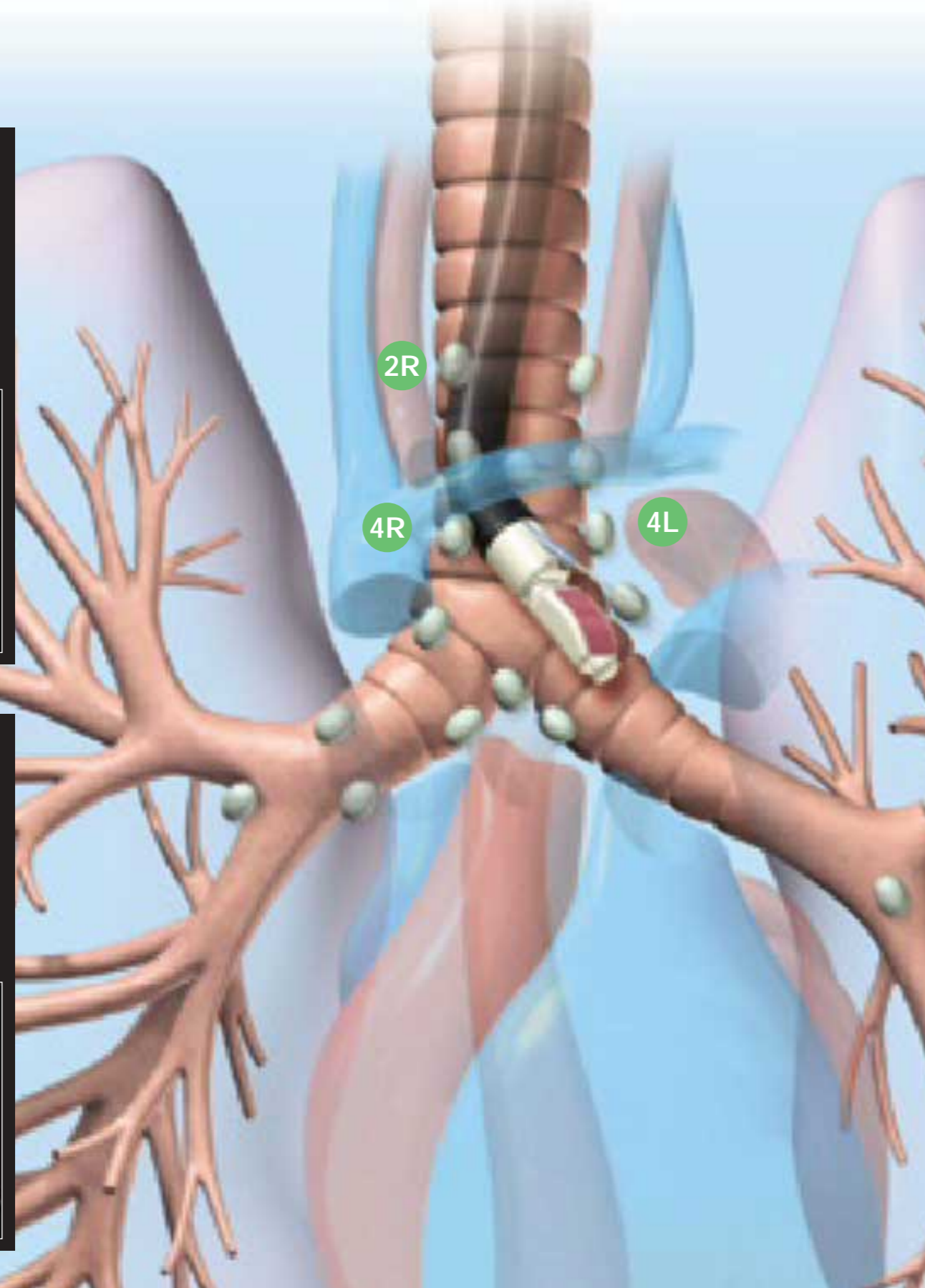
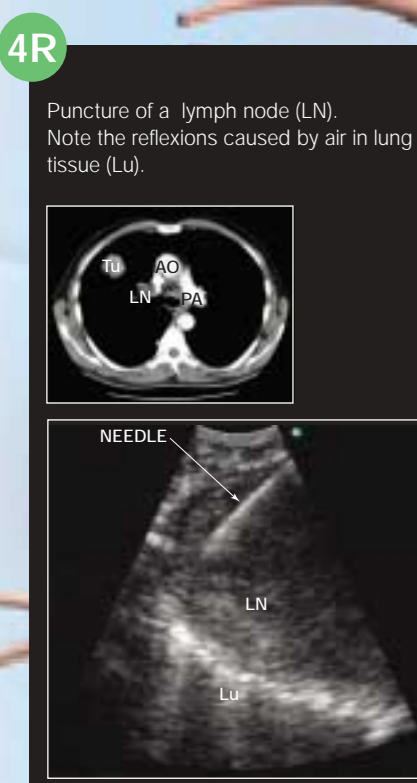
11L

CT scan demonstrates swelling of the lymph node #11 (arrow). EBUS-TBNA was performed. The needle is seen within the lymph node. Cytological results demonstrated mucoepidermoid carcinoma.



The images in this brochure are examples of abnormal pathologies, which may be detected with the Olympus Ultrasonic Bronchofiberscope. Olympus makes no claims, as to the ability of this device to "diagnose" pathological conditions. This is accomplished only through biopsy and histologic evaluation.

# An endobronchial ultrasound-guided TBNA system specifically designed for diagnostic biopsies in the lung



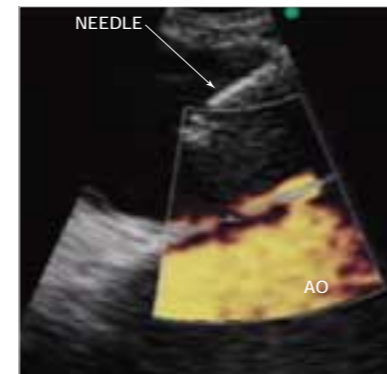
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OLYMPUS **BF** TYPE **UC160F**-OL8

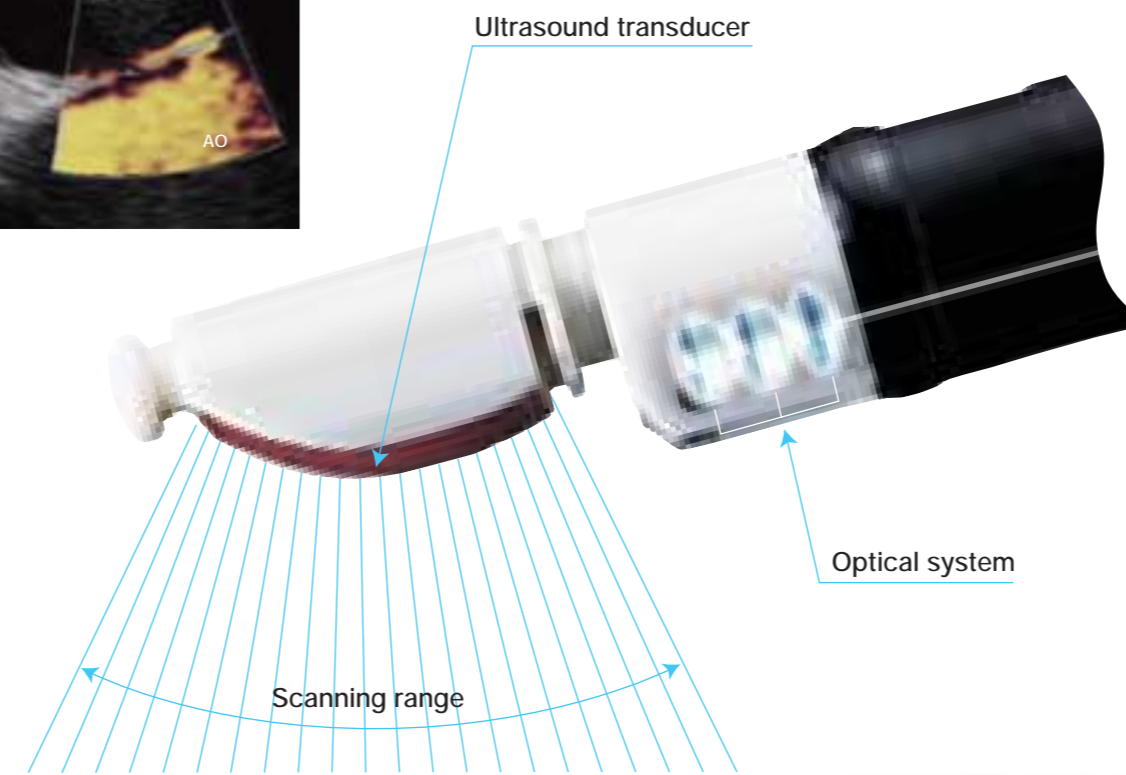
## Real-time endobronchial ultrasound-guided TBNA biopsy in the bronchi with simultaneous confirmation of blood flow conditions

### Features

When the dedicated aspiration needle is passed through the scope's forceps channel, you can confirm the position of the needle tip in real time during the puncturing procedure.



Power Doppler mode made possible by electronic linear scanning enables you to check blood flow conditions before puncturing.



Used in combination with the compact, easy-to-use EU-C60 ultrasound processor.



**HYBRID SCOPE**

Innovative ultrasonic "hybrid scope" design features a unique optical system that exploits both video and fiberoptic technologies. Because the CCD is built into the control section, images are just as sharp as those with regular videoscopes. The "hybrid scope" design also allows for a slimmer insertion tube with a diameter of only 6.2 mm, even with an ultrasound function incorporated.

Both the direct contact method and the balloon method are available for ultrasound scanning. A balloon irrigation port is provided.




Single Use Aspiration Needle  
**NA-201SX-4022**

Echogenic dimpled tip design combined with a stopping mechanism for safe, reliable TBNA in the bronchi

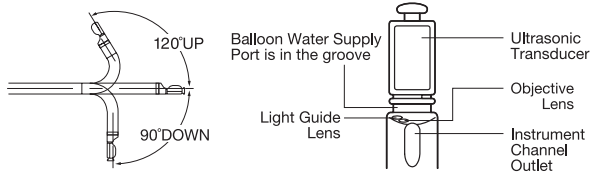
**Features**

- Surface of the needle tip has a dimpled echogenic design to improve visibility on ultrasound images.
- Maximum extruding stroke is 40 mm. To prevent excessive protrusion in ordinary use, a safety mechanism stops the needle at the stroke of 20 mm.
- Specifically designed for use with the EBUS-TBNA scope.
- Needle measures 22G in outer diameter.
- Pre-sterilized and single-use.

## BF-UC160F-OL8 Specifications

		BF-UC160F-OL8	
Endoscopic functions	Optical system	Field of view	80°
		Direction of view	35° Forward oblique
		Depth of field	2 to 50 mm
	Insertion tube	Distal end outer diameter	ø6.9 mm
		Insertion tube outer diameter	ø6.2 mm
		Working length	600 mm
		Channel inner diameter	ø2.0 mm*
	Instrument channel	Direction from which Endo-Therapy accessories enter and exit the endoscopic image	
		Bending section	Angulation range
	Total length		890 mm
Ultrasonic functions	Display mode	B-mode Color Power Doppler mode	
	Scanning method	Electrical curved linear array	
	Scanning direction	Parallel to the insertion direction	
	Frequency	7.5MHz	
	Scanning range	50°	
	Contacting method	Balloon method Direct contact method	

\* A dedicated needle is needed. Another forceps are not compatible with this scope.



## EU-C60 Specifications


Size	Dimensions (main unit)	313 mm (W) x 220 mm (D) x 93 mm (H) *not include rubber-foot
	Weight (main unit)	2.4 kg
Monitor observation	Display mode	B-Mode, Color Power Doppler Mode
	Display polarity	Positive display only
	Scanning display	Convex
	Display range	2 - 24 cm
Measurement	Distance	Measures distance defined by the " + " and " x " calipers.
	Area / circumference	Measures area / circumference enclosed by caliper tracing.
Ancillary equipment	Photographic and recording units	Video printer (color / monochrome), VTR
	Remote controllers	Foot switch



## NA-201SX-4022 Specifications

Model	NA-201SX-4022
Maximum Insertion Portion Diameter	1.8 mm
Working Length	700 mm
Needle Width	22G
Needle Length	40 mm



 Any product in our brochures that features this is part of the lineup of Olympus fine-needle aspiration biopsy products.

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

**OLYMPUS**

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On October 1, 2004, Olympus Corporation transferred its Medical Systems Group to a newly created affiliate, OLYMPUS MEDICAL SYSTEMS CORP.

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