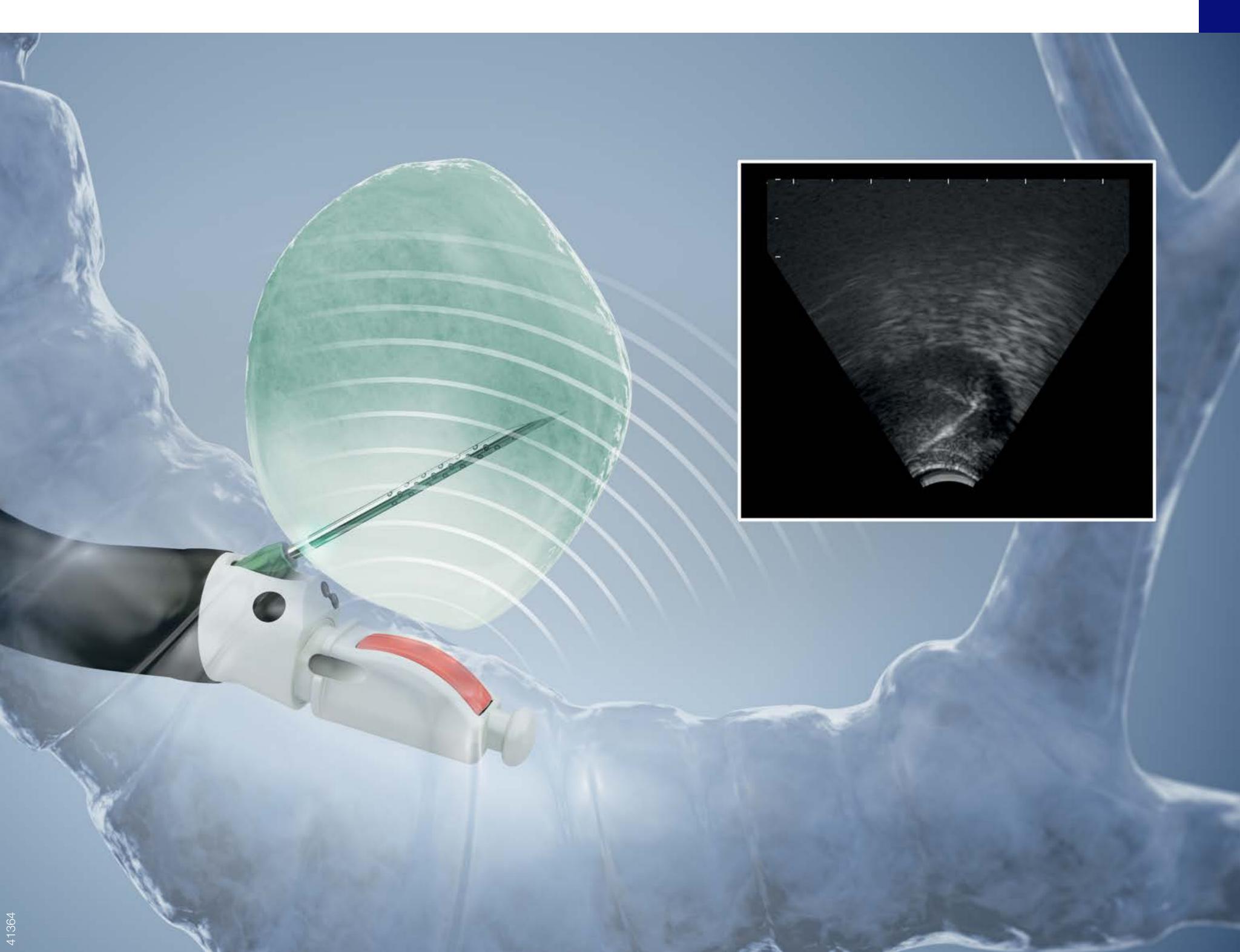


EBUS-TBNA

Looking and Sampling beyond the Bronchial Wall



EBUS-TBNA

The Gold Standard for Lung Cancer Staging

Endobronchial ultrasound transbronchial needle aspiration (EBUS-TBNA) is a reliable and commonly established technique that enables the visualization and sampling of mediastinal, central and hilar lesions, as well as lymph nodes. With the ultrasound bronchoscope BF-UC190F inserted into the trachea or the esophagus, the accessible lymph node stations can be explored and the lesions outlined while offering you the freedom to select from different EBUS needle lineups and sizes depending on your needs.



OLYMPUS EVIS EUS EU-ME2 PREMIER PLU8 AMOUNT AMOUNT

Linear Ultrasound Bronchoscope BF-UC190F

The BF-UC190F is the third generation of the reliable Olympus EBUS-TBNA endoscope. It enables enhanced access and control to allow staging and diagnosis of even difficult-to-reach lymph nodes and lesions.¹

- Powerful angulation: Up to 160° angulation for enhanced access to challenging target sites.
- Remarkable, compact distal tip:
 Only 6.6 mm outer diameter and shorter rigid part of 25 mm for improved maneuverability.
- · Increased puncture performance: 5° steeper puncture angle for smooth penetration of the bronchial wall.

This impressive EBUS-TBNA endoscope enables a wider field of application with its compact size while maintaining the large 2.2 mm working channel and compatibility to the full needle portfolio.

Universal Endoscopic Ultrasound Center EU-ME2

The EU-ME2 brings real clarity to your EBUS procedures, supporting better detection and characterization of lesions. A variety of new features such as harmonic echo and elastography help to explore the future of endosonography (features depend on product model). In addition, the EU-ME2 provides compatibility with linear endoscopes and radial ultrasound miniature probes.

¹ Fujino K, Ujiie H, Igai H, Kinoshita T, Lee C, Hindy S, Effat A, Yasufuku K. Human Ex Vivo Lung Evaluation of the Next Generation Convex Probe Endobronchial Ultrasound Bronchoscope. CHEST Journal 2017;152(4):A884.

EBUS-TBNA Needle Portfolio

Expand Your Possibilities in EBUS-TBNA

EBUS-TBNA for Reliable Staging and High Yield

EBUS-TBNA has proven to be of great value not only for lymphnode staging (N-staging) but also for the strategic use of cytology and histology samples for molecular analysis. The acquired specimen can be used to obtain a reliable diagnosis as well as for cell-block preparation, immunochemistry and molecular studies.

EBUS-TBNA Needles

Olympus is incomparable in offering 19G EBUS-TBNA needle in addition to the 21G, 22G and 25G needles. But now it also provides the second generation of EBUS needles — the ViziShot 2. While the entire portfolio offers the already established safety mechanisms and excellent ultrasound visibility, Olympus now provides a needle for every situation — expanding your possibilities in EBUS-TBNA.

ViziShot 2 FLEX

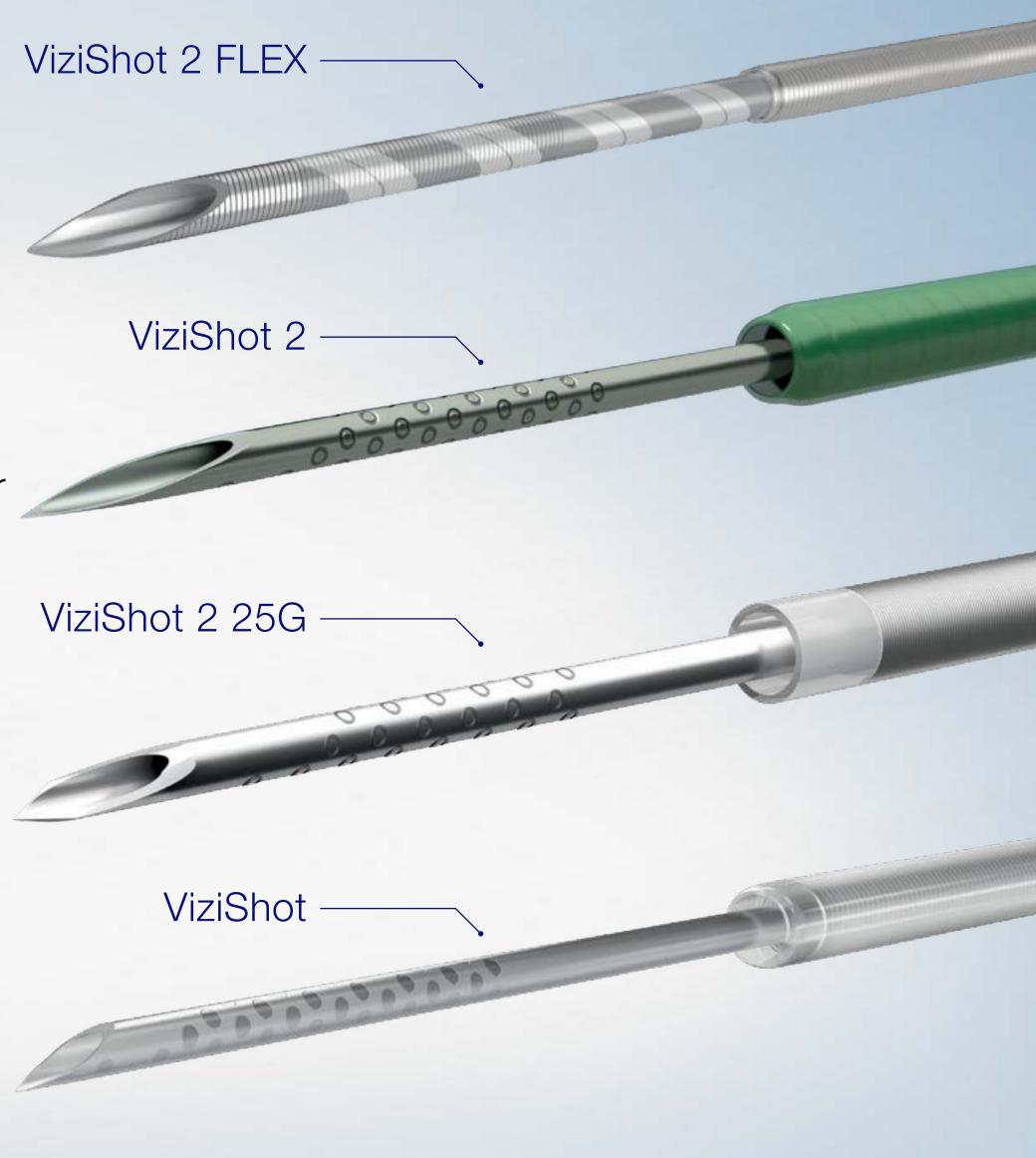
- Largest EBUS needle with a 19G diameter with FNA (fine needle aspiration) and FNB (fine needle biopsy) indication.
- Supports histological sampling for suspected sarcoidosis and lymphoma but also helps to provide more tissue for advanced molecular analyses.
- An ally for special indications but also whenever superior flexibility is needed.

ViziShot 2

- The new, improved 21G, 22G and 25G needles.
- Smooth needle penetration thanks to sharper needle tip.
- Better needle control with the new ergonomic handle design.

ViziShot

 The reliable and long-established EBUS-TBNA needle.



Rapid On-Site Evaluation (ROSE)

Supporting Reliable Staging and High Yield

Ensure Sample Adequacy for Molecular Testing

During the ROSE procedure, clinicians evaluate smears obtained in the endoscopy suite directly on-site to ensure that the aspirated material is adequate. It helps clinicians to:

- · Select the most suitable sampling sites.
- · May improve diagnostic yield.
- · Reduce the number of inadequate specimens.

The synergy between the endoscopist and the pathologist is crucial during ROSE to obtain the best specimen for pathological, immunohistochemical and molecular analyses.²

A meta-expert panel review showed that ROSE is necessary to carry out all molecular analyses and prevent invasive surgical procedures after EBUS-TBNA.³

Microscopes for ROSE

Olympus CX-series microscopes are highly suitable for ROSE procedures during endoscopy, providing:

- The same optical quality as dedicated pathology microscopes.
- · Ergonomic controls for improved ease of use.
- · A compact, robust and long-lasting design.

For easy sharing of images during a procedure, an Olympus EP50 stand-alone camera can be added, providing a live image of the sample directly on a monitor or wirelessly to a tablet, without an additional computer or additional software.

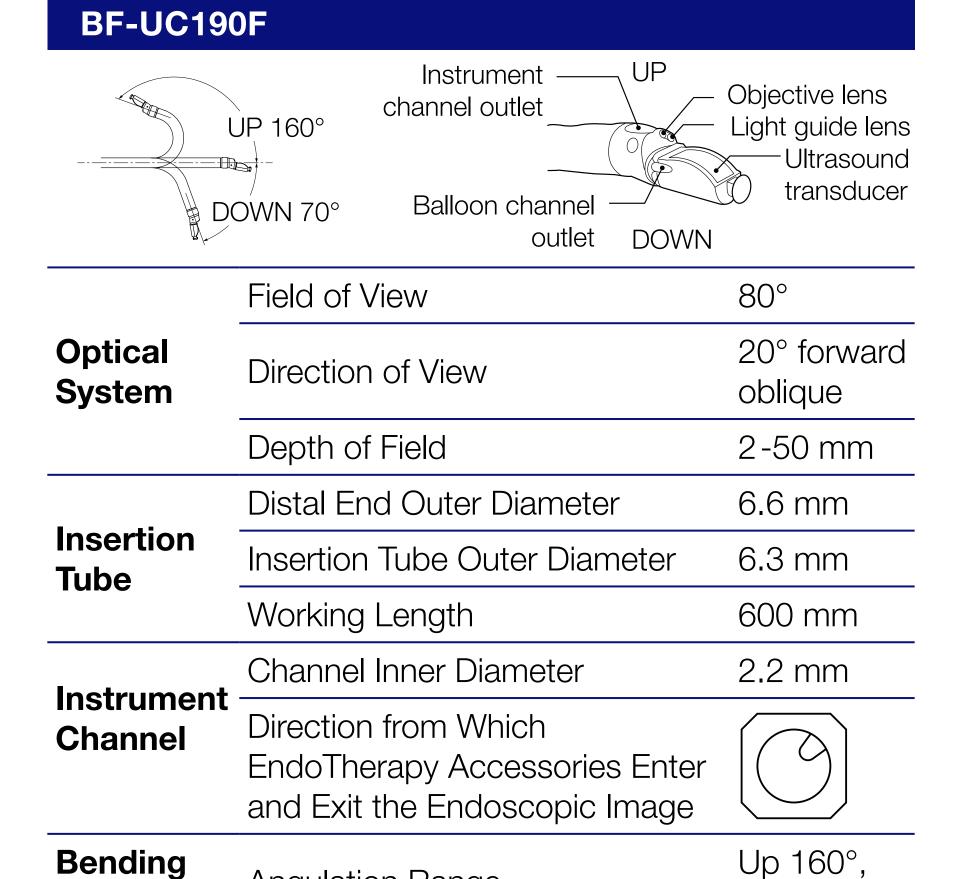
³ D. Jain, T. C. Allen, D. L. Aisner et al., Rapid on-site evaluation of endobronchial ultrasound-guided transbronchial needle aspirations for the diagnosis of lung cancer: a perspective from members of the Pulmonary Pathology Society, Archives of Pathology & Laboratory Medicine, vol. 142, no. 2, pp. 253-262

Microsoopes				
	CX23	_	CX43	
Field of View at Oculars	20 mm	0.000	22 mm	360
Objectives	Plan-achromat objectives included (4×/10×/20×/40×)		Compatible with all Olympus objective series from 2×to 100×	COLED COLED
Dimensions (W × D × H)	198 × 398 × 386 mm		211 × 376 × 393 mm	
Weight	Approximately 5.9 kg	•	Approximately 7.3 kg	

For more information about Olympus EBUS-TBNA offering, please visit:

² J. Guarize et al., Endobronchial Ultrasound Transbronchial Needle Aspiration in Thoracic Diseases: Much More than Mediastinal Staging. Volume 2018, Article ID 4269798, 7 pages https://doi.org/10.1155/2018/4269798

Specifications at a Glance



Angulation Range

EBUS-TBNA Needles

Section

Length

Total

ViziShot and ViziShot 2

Article Name	Min. Working Channel Ø	Needle Length	Needle Gauge
NA-201SX-4021	2.0 mm	20-40 mm	21G
NA-201SX-4022	2.0 mm	20-40 mm	22G
NA-U401SX-4021	2.0 mm	20-40 mm	21G
NA-U401SX-4022	2.0 mm	20-40 mm	22G
NA-U403SX-4019	2.2 mm	20-40 mm	19G
NA-U401SX-4025N	2.0 mm	20–40 mm	25G

Compatible Ultrasound Systems

The features listed here refer to the usage of the ultrasound processors in conjunction with the BF-UC190F endoscope.







Olympus EU-ME2 Premier Plus

	Hitachi Arietta 850
Ultrasound Cable	MAJ-2056 with junction box JB-294
Display Mode	B mode, M mode, eFLOW mode, THI-HdT mode, elastography*
Scanning Method	Electronic curved linear array
Scanning Direction	Parallel to the insertion direction
Frequency	5/7.5/10/12 MHz
Scanning Range	65°
Other Compatibilities	Compatible with extracorporeal ultrasound probes
Contact Method	Balloon method**, direct-contact method

	Olympus EU-ME2 Premier Plus
Ultrasound Cable	MAJ-2056
Display Mode	B mode, H-FLOW mode, THE mode, elastography*
Scanning Method	Electronic curved linear array
Scanning Direction	Parallel to the insertion direction
Frequency	5/6/7.5/10/12 MHz
Scanning Range	65°
Other Compatibilities	Compatible with EBUS radial miniature probes
Contact Method	Balloon method**, direct-contact method

^{*} Further modes available, please check instruction manual for details.

As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.



OLYMPUS EUROPA SE & CO. KG

down 70°

890 mm

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^{**} Balloon MAJ-1351 can be used with the BF-UC190F.