Advancing the Art of Bronchoscopy

with the world’s only fully rotatable bronchoscopes and newly evolved image quality

As the world leader in endoscopy, OLYMPUS is committed to providing cutting-edge medical technology that not only helps to improve procedural outcomes but also enhances operational and cost efficiencies. In the respiratory arena, OLYMPUS has always been a pioneer in developing innovative solutions to advance the field of bronchoscopy.

Now, the groundbreaking EVIS EXERA III technologies deliver major advances in visualization, maneuverability, and versatility. Innovative technologies help facilitate more accurate diagnosis and treatment, simplify setup and reprocessing, and improve versatility, resulting in advanced levels of sophistication and integration.

The new HDTV bronchoscopes achieve an outstanding level of clarity and detail enabling the bronchoscopist to perform more precise observation and diagnosis. Even the ultra-slim bronchoscopes with outer diameters of around 4 mm or less now use a videoscope (chip on tip) optical system for dramatically improved image quality.

New features such as the Insertion tube rotation function improve handling and in-procedure maneuverability of bronchoscopes.

The wide range of the product lineup for bronchoscopy, system compatibility with gastroenterology, ENT and other specialties, plus new image management solutions all add versatility that advances the art of bronchoscopy.
Advancing Visualization with HDTV clarity and image enhancement technologies

**Improved image quality allows more detailed observation**

- **HDTV bronchoscopy**
  - High-definition observation is now realized with HDTV image quality (BF-H190/BF-1TH190). These sharp, clear images provide much more detailed and precise observation of bronchial surfaces.

- **Ultra-slim-design true videoscope**
  - While maintaining an ultra-slim design, the BF-P190’s and BF-XP190’s newly developed micromini CCD on the tip provides tremendously improved image quality over conventional hybrid scopes (BF-MP160F/BF-XP160F). Detailed observation helps to support better observation at the peripheral bronchi.

- **Standard and treatment type scopes with high image quality**
  - Despite its slim 4.8 mm diameter, the BF-Q190 scope has significantly improved image quality compared to conventional models. The quality achieved is comparable with that of previous generation high-end scopes, such as the BF-Q180 and BF-1TQ180.

**Electronic Magnification**

Close-up observation of bronchial surfaces is readily available with 1.2x and 1.5x electronic magnification.

**NBI (Narrow Band Imaging)**

Now significantly brighter compared to 180 Series scopes, NBI provides twice the viewable distance for enhanced visualization of vascular structures and mucosal morphology.

**Enhanced image quality**

The clear, high-resolution images of the latest EVIS EXERA III generation are achieved through advanced OLYMPUS optics, the improved image sensors employed, and a new CV-190 image processor that minimizes halation and image noise.

**Sharp still images with pre-freeze function**

EVIS EXERA III dramatically increases the sharpness and clarity of still-image captures. The CV-190 processor continuously saves procedural images into memory so that when a still image is captured, the CV-190 automatically selects and saves the sharpest image of that view. This function helps bronchoscopists obtain a clear visual record of the procedure in the shortest possible time.
Advancing Maneuverability
with outstanding handling and superior tracheobronchial access

Insertion tube rotation function

Always looking for ways to improve operability, OLYMPUS has developed a unique technology which is employed on every EVIS EXERA III bronchoscope. The Insertion tube rotation function allows the bronchoscopist to change the insertion tube’s angle of approach by rotating a ring on the control section. This enhances maneuverability, helping to improve diagnostic and therapeutic capabilities, especially when trying to reach a target in the lung periphery.

- Precise control
  This function gives bronchoscopists precise control of the insertion tube. The operator can change the direction of the insertion tube by turning the rotation control ring instead of turning the bronchoscope’s control section.

- Smoother insertion and less tiring to maneuver
  This means that bronchoscopists need not assume unnatural, stressful positions when performing bronchoscopy. This unique function makes selection of bronchial branches much easier. Bronchoscopists can turn the control section back to a comfortable position while maintaining the position of the insertion tube.

- Improved therapeutic capability
  Now, bronchoscopists can easily adjust the position of the distal end of bronchoscopes. This facilitates selection of the bronchi where EndoTherapy devices may be inserted.

- Smoother insertion of EndoTherapy devices
  The operation of EndoTherapy devices involves both the bronchoscopist and assistant. The Insertion tube rotation function can be used to adjust the instrument port to the most convenient and simple-to-reach position for the whole team.

Wide angulation range

The EVIS EXERA III Series has a wider angulation range, allowing smoother insertion into the upper lobe bronchi and more of a bend in the scope while inserting an EndoTherapy device.

Ergonomic scope cable direction

A redesigned cable between the connector and the control section ensures the scope cable doesn’t interfere with the procedure.

One-touch connector

The newly designed EVIS EXERA III endoscopes allow one-step connection to the light source and processor. Unlike Conventional series, the EVIS EXERA III endoscopes do not require a water-resistant cap, simplifying reprocessing and minimizing accidental water damage. The enhanced efficiency delivered by the one-touch connector can also help expedite procedure room setup and turnover.
Advancing Versatility
with compatibility across multiple specialties

EVIS EXERA III effectively covers many different areas of expertise

OLYMPUS provides ideal solutions for endoscopic imaging. The OLYMPUS EVIS EXERA III system is compatible with endoscopes used in bronchoscopy, gastroenterology, anesthesiology, ENT and other surgical areas. For respiratory applications, in addition to the new EVIS EXERA III bronchoscopes, OLYMPUS supports a wide range of products for EBUS, peripheral and pediatric bronchoscopy, and pleuroscopy. Combining such a diverse product lineup with an ongoing commitment to many medical and surgical specialties helps us advance the art of endoscopy.

Image management
Healthcare facilities are increasingly concerned about operational efficiencies, which include effective data management, the exchange and filing of data, and enhanced support for staff members. In this area, the EVIS EXERA III endoscopy system offers two distinct advantages.

- **IMH (Image Management Hub)**
The IMH provides seamless recording, management and editing of vivid HD images and videos. Its advanced compression technology allows extended recording time and is compatible with various media. With its advanced editing and image management capabilities, IMH can help enhance endoscopy operations like never before.

- **Portable memory compatibility**
Portable memory media are now the standard for data exchange. The EVIS EXERA III endoscopy system uses a dedicated portable memory technology enabling the user to simply connect and upload.

**EBUS-TBNA**
The new standard for mediastinal lymph node diagnosis. OLYMPUS takes pride in being the manufacturer of the world’s most popular EBUS-TBNA scope. Explore the versatility of our universal endoscopy ultrasound center, EU-ME2, with compatibility to both linear and radial endoscopic ultrasonography.

**Pleurascpe**
Specially designed to perform medical thoracoscopy, offering the same ease of use and familiarity that a chest physician experiences with bronchoscopy. Pleuroscopy under local anaesthesia with conscious sedation in a single-port procedure offers a less invasive approach. The pleuroscope provides outstanding imaging, suction and biopsy capability, as well as simple therapy, all in one instrument. *(Not available in some areas)*

**GI endoscopy**
**Bronchoscopy**
**Surgical endoscopy**
Diverse scope lineup for EVIS EXERA III

A wide-ranging selection supports precise observation and treatment, whether central or peripheral.

**OLYMPUS BF-H190**
Diagnostic bronchoscope with superb HDTV image quality
- Distal end outer diameter: 5.5 mm
- Insertion tube outer diameter: 5.1 mm
- Instruments channel diameter: 2.0 mm

**OLYMPUS BF-1TH190**
Therapeutic bronchoscope with superb HDTV image quality
- Distal end outer diameter: 6.2 mm
- Insertion tube outer diameter: 6.0 mm
- Instruments channel diameter: 2.8 mm

**OLYMPUS BF-Q190**
Versatile high-resolution image bronchoscope
- Distal end outer diameter: 4.8 mm
- Insertion tube outer diameter: 4.9 mm
- Instruments channel diameter: 2.0 mm

**OLYMPUS BF-P190**
Ultra-slim videoscope with 2.0 mm instrument channel
- Distal end outer diameter: 4.2 mm
- Insertion tube outer diameter: 4.1 mm
- Instruments channel diameter: 2.0 mm

**OLYMPUS BF-XP190**
Extremely slim videoscope for observation of thinner bronchi
- Distal end outer diameter: 3.1 mm
- Insertion tube outer diameter: 2.8 mm
- Instruments channel diameter: 1.2 mm

Previous 160 and 180 Series bronchoscope models and the pleuravideoscope are compatible with the EVIS EXERA III system.