

OLYMPUS[®]

Your Vision, Our Future



EXERA

EVIS EXERA Bronchofibervideoscope
OLYMPUS BF TYPE XP160F

*Ultra-Slim
2.8 mm Diameter
Hybrid
Fibervideoscope*

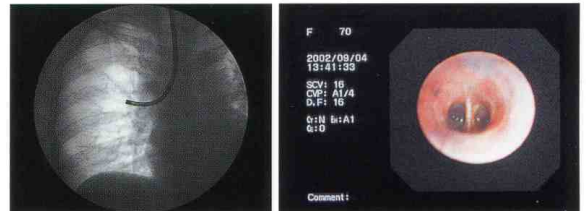


Now you can examine peripheral bronchial branches with videoscope-equivalent quality

Combining the superior image quality of video with the versatility of fiberoptics, the Olympus BF TYPE XP160F offers unprecedented access to the farthest recesses of the peripheral bronchi — an area previously accessible only with a fiberscope. With an ultra-slim insertion tube measuring a mere 2.8 mm in diameter, this innovative "hybrid" scope boasts a surprisingly large 1.2 mm diameter instrument channel and high-quality video images that will set a new standard for bronchoscopy in the peripheral lung .

Built-in CCD in the control section

We call the BF-XP160F a "hybrid scope" for good reason — its innovative design takes advantage of both video and fiberoptic technologies. Because the CCD is built into the control section, the BF-XP160F is able to take advantage of video technology to deliver images that are much sharper and clearer than could be obtained with a fiberscope. At the same time, this unique scope's fiberoptic technology makes possible an insertion tube that's just as slim as the slimmest fiberscopes and can be inserted into areas where previously only they could go.



Larger image size than fiberscopes

The image size on the monitor is significantly larger than that of a fiberscope, making images easier to observe. Images are much brighter as well. There's no need to adjust the focus and the automatic light adjustment (average light metering) system is fast and responsive, ensuring clear, high-quality images with minimum halation.



Improved scope maneuverability

By incorporating the CCD into the control section, we were able to make the scope much lighter — in fact, it's about half the weight of a fiberscope with an OVC video converter mounted on its eyepiece. An advanced, ergonomic design makes the control section easier to handle and helps to reduce operator fatigue.



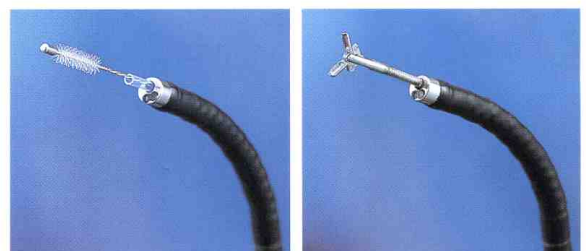
Unparalleled bronchoscopic insertion performance

While the ultra-slim 2.8 mm insertion tube on its own improves insertion characteristics significantly, the BF-XP160F features other refinements such as a smaller bending radius and greater resistance to warping than a comparable fiberscope. This further improves insertion characteristics in the peripheral bronchi and provides better torque capability.



Compatible with a variety 1.2 mm endo-therapy accessories

In spite of its ultra-slim design, the BF-XP160F incorporates a 1.2 mm diameter channel that can accommodate a variety of endo-therapy accessories including a cytology brush with a cover sheath. Adequate suction performance can also be obtained.

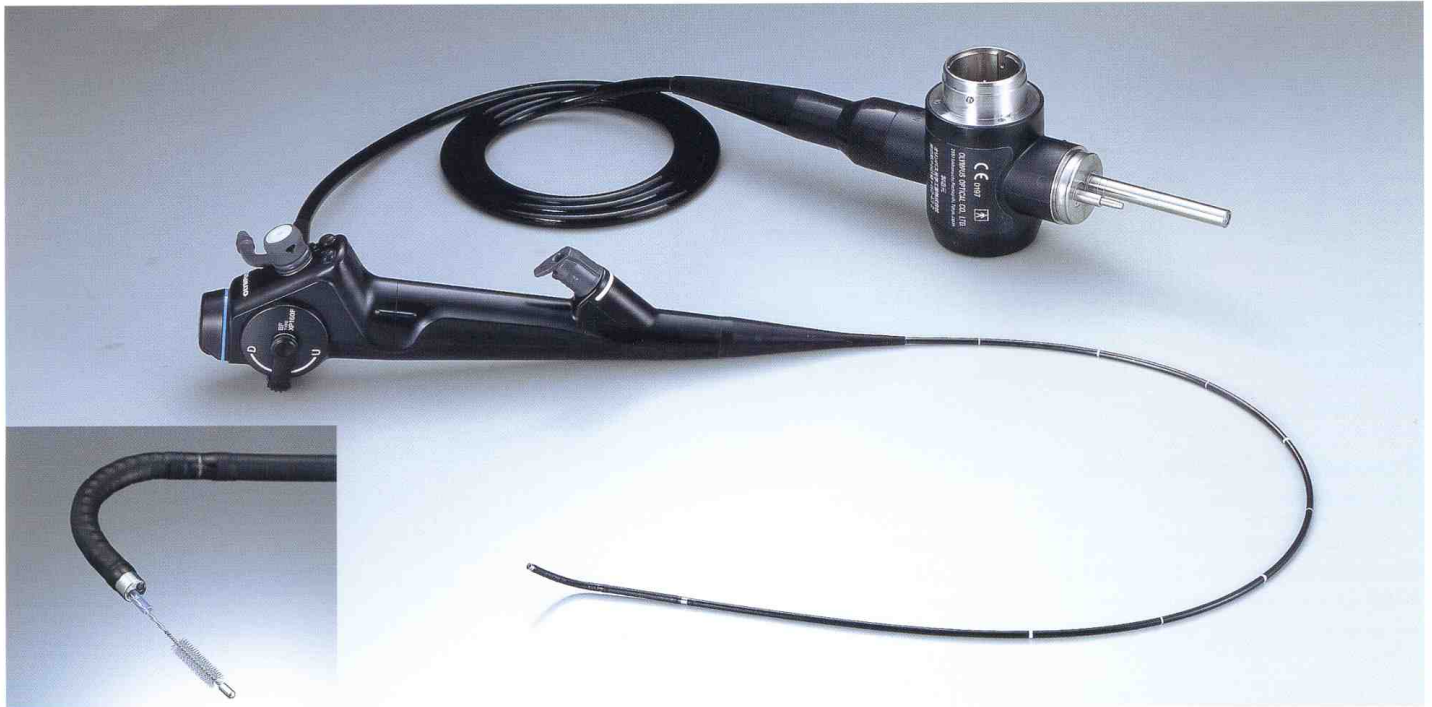


HYBRID
SCOPE
SCOPE

EVIS EXERA
BRONCHOFIBERVIDEOSCOPE
BF-XP160F

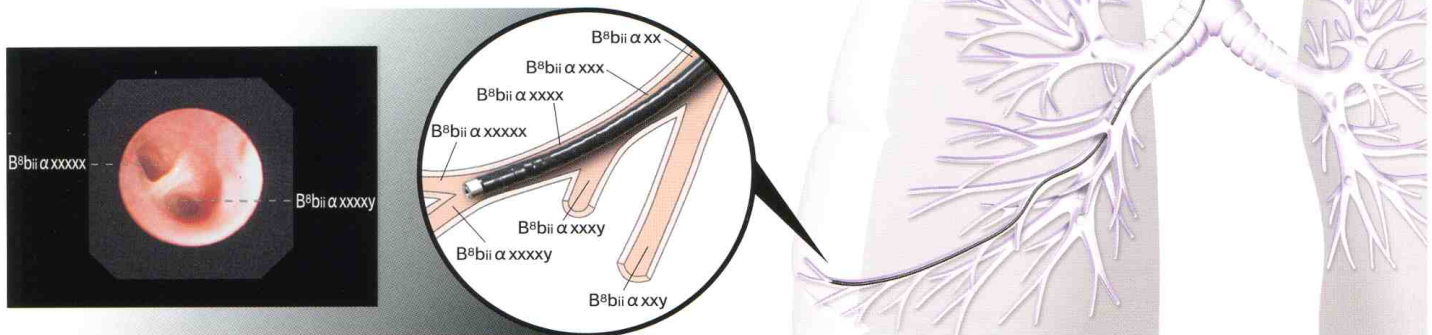


EVIS EXERA Bronchofibervideoscope OLYMPUS BF TYPE XP160F



Specifications

| | | |
|------------------------------|--|--|
| Optical System | Field of view Direction of view Depth of field | 90° 0° (Forward viewing) 2 ~ 50 mm |
| Insertion Tube | Distal end outer diameter Insertion tube outer diameter Working length | 2.8 mm 2.8 mm 600 mm |
| Instrument Channel | Channel inner diameter Minimum visible distance | 1.2 mm 1.5 mm from distal end |
| Bending Section | Angulation range | UP 180°, DOWN 130° |
| High Frequency Compatibility | | NO |
| Laser Compatibility | | NO |
| Total Length | | 870 mm |



Reprocessing Capability For Reliability You Can Count On

To make the scope easier to wash and brush and to optimize the effect of disinfectant immersion, the exterior is designed to minimize surface protrusions and indentations while the interior features a simplified, jointless channel configuration. For added convenience, all reprocessing accessories are either autoclavable or disposable.



Standardized Accessories Can Be Used With All Scopes

The accessories are designed to the same specifications as those for Olympus's previous and current bronchovideoscopes and bronchofiberscopes. This makes it easy to use the same accessory with different scopes, reducing equipment costs and simplifying accessory management.



Ancillary Equipment

OEV143/203 Color Video Monitor

Color Trinitron video monitor designed especially for endoscopy

*Trinitron is a trademark of Sony Corporation.

CV-160 EVIS EXERA Video System Center

Leading-edge processor for high-resolution image reproduction

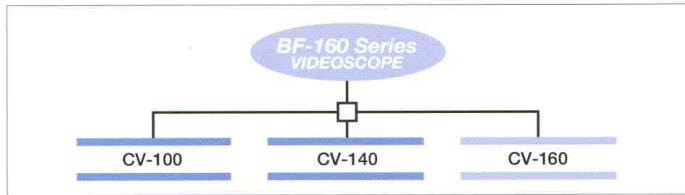
CLV-160 EVIS EXERA Xenon Light Source

Powerful, compact light source for clear, accurate observation



Backward compatibility and dual-purpose design for optimal cost efficiency

BF-160 Series scopes can easily be integrated into the EVIS 100/140 video systems used in a GI endoscopy suite. On the other hand, the CV-160 accommodates both bronchovideoscopes and gastrointestinal videoscopes, enabling your EXERA system to be used for both applications.



BF-160 Series Videoscopes



BF-3C160

A super-slim scope with a miniature CCD that can be inserted more deeply into the bronchi while maintaining excellent image quality



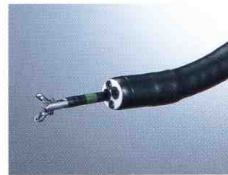
BF-MP160F

Versatile hybrid scope ideal for use as a diagnostic scope that's useful for transbronchial lung biopsy and cytology brushing under fluoroscopy



BF-P160

An extremely slim scope that offers outstanding insertion capability while maintaining high resolution and top-notch performance



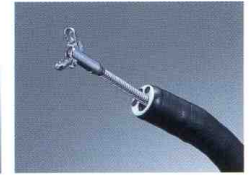
BF-160

A versatile diagnostic scope incorporating a high-resolution CCD. Compatible with conventional EVIS systems



BF-1T160

Offers superb image quality with large, easy-to-view display size and excellent therapeutic capability



BF-XT160

Features an extra-wide channel to enable utilization of a wide variety of Endo-Therapy accessories while simultaneously suctioning fluids

| | BF-XP160F | BF-3C160 | BF-MP160F | BF-P160 | BF-160 | BF-1T160 | BF-XT160 |
|-----------------------------------|-----------|----------|-----------|---------|--------|----------|----------|
| Distal end outer diameter | 2.8 mm | 3.8 mm | 4.0 mm | 4.8 mm | 5.3 mm | 6.0 mm | 6.2 mm |
| Insertion tube outer diameter | 2.8 mm | 3.8 mm | 4.4 mm | 4.9 mm | 5.2 mm | 6.0 mm | 6.3 mm |
| Instrument Channel inner diameter | 1.2 mm | 1.2 mm | 2.0 mm | 2.0 mm | 2.0 mm | 2.8 mm | 3.2 mm |

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

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