Single Balloon Enteroscope System
The “Next” Evolution in Enteroscopy: The Single Balloon Enteroscope System from Olympus.

Despite the rapid technological advances of the 21st century, enteroscopy continues to prove more difficult than upper gastrointestinal endoscopy or colonoscopy. Now, thanks to our groundbreaking Single Balloon Enteroscope System, Olympus has created a simple yet efficient system that radically redefines the nature of enteroscopy. The new Single Balloon Enteroscope maintains Olympus' signature high quality image, while offering breakthrough capabilities in terms of operability and functionality that shed a new light on a region once considered the “Last Frontier” of the human body.

- Simple operation at every step of the way from setup to observation and treatment
- Efficient hand controls and automatic pressure control, eliminate complex operations reducing procedure time
- Effective high quality image and improved treatment performance achieved through the use of Olympus' latest technology

Ease of Use

Setting up the Single Balloon Enteroscope System is a snap so getting ready for an examination is never a bother. All you have to do is moisten the lining of the splinting tube, connect it to the balloon control unit with sterile water and pass the scope through.

Clinical Efficiency

Since the Single Balloon Enteroscope System has only a single balloon, complex operation is reduced. Just press a single button on the compact remote control as required to manipulate the inflation and deflation of the balloon.

Hypoallergenic, latex-free design

To achieve a patient-friendly, latex-free design, all components that comprise the splinting tube of the Single Balloon Enteroscope System — from the tube shaft to the balloon and tube tip — are made of silicone. In addition, a hydrophilic lubricant coating has been applied to the lining of the splinting tube. This provides excellent lubrication between the scope and splinting tube, effectively supporting insertion into the deep small intestine.

Advanced Imaging and Connectivity

Compatible with Narrow Band Imaging (NBI) observation, which enables more detailed observation of mucosal morphology, and use with a wide range of systems, from the EVIS 140 to the EVIS EXERA 160 to the EVIS EXERA II 180.

Clinical Efficiency
Optimized distal end and bending section for smooth insertion

By optimizing both the distal end length and bending section radius, the SIF-Q180 extensive angulation capability allows acute turns in the small intestine, supporting a smoother insertion.

Automatic pressure control function for maximum reliability

The OBCU is equipped with an automatic pressure control function. This safety function operates to suppress the balloon pressure and maintain it within a prescribed range.

Simple Control Unit for easy setup and operability

All you have to do to set up the OBCU is connect the splinting tube. Operation is equally simple. Just press the button on the compact remote control repeatedly to inflate or deflate the balloon.

Simple cleaning disinfection and sterilization

The Single Balloon Enteroscope System incorporates a balloon on the splinting tube only. This means there is no need for an extra step in the cleaning process for a dedicated balloon/air channel in the scope. The SIF-Q180 can be cleaned the same way as conventional scopes.

100% Latex-free Silicone construction

The ST-SB1’s smooth-glide, hydrophilic-coated Silicone Splinting Tube allows for outstanding insertion and therapeutic access to the deep small intestine and eliminates the risks associated with latex allergies.

Radiopaque materials enable effective position confirmation under fluoroscopy

Radiopaque material is used in the distal end of the ST-SB1 to allow confirmation of the splinting tube's tip under fluoroscopy, further enhancing insertion performance into the deep small intestine.

Simple Use Splinting Tube, reliable smooth insertion

Outstanding imaging performance delivered by a high-resolution CCD

A high-resolution CCD chip incorporated in the distal end of the SIF-Q180 provides the high quality images of finer details. Moreover, combining this scope with the EVIS EXERA II180 system puts the power of Narrow Band Imaging (NBI) observation at your fingertips, making it possible to explore in the small intestine.

Wide 2.8 mm diameter channel in a 9.2 mm scope

To improve maneuverability of insertion, the SIF-Q180 features a distal end diameter of just 9.2 mm while maintaining high-resolution image quality. In addition, an instrument channel diameter of 2.8 mm has been reserved to meet a wide range of treatment options.

Simple Setup, Clinical Efficiency, and Effective Operability
Groundbreaking mechanism to plicate the intestinal tract

Principles of insertion

The single balloon scope can be inserted into the deep small intestine by manipulating the balloon on the distal end of the splinting tube and the angulation mechanism of the scope. First, insert the scope deeply into the gastrointestinal tract. Second, advance the splinting tube and inflate the balloon. Next, withdraw both the scope and splinting tube to plicate the intestinal tract. By repeating these steps, you can pleat and reduce the small intestine for deep small bowel intubation.

Clinical Case Images

Antegrade approach
Jejunum

Retrograde approach
Ileum

NBI observation

NBI observation is possible when the SIF-Q180 is combined with the EVIS EXERA II 180 system.

The SIF-Q180’s wide connectivity means that it is compatible with the EVIS 140 to the EVIS EXERA 160 systems you already use. Also when it is combined with the EVIS EXERA II 180 system, NBI observation is possible, facilitating more advanced observation of mucosal morphology.
**Optical Systems**

- **Field of view**: 140°
- **Depth of field**: 3 to 100 mm
- **Direction of view**: Forward viewing

**Distal End**
- **Outer diameter**: 9.2 mm

**Insertion Tube**
- **Outer diameter**: 9.2 mm

**Bending Section**
- **Angulation range**: Up 180°, Down 180°, Right 160°, Left 160°

**Working Length**
- **Working Length**: 2000 mm

**Total Length**
- **Total Length**: 2345 mm

**Instrument**
- **Inner diameter**: 2.8 mm

**Channel**
- **Minimum visible distance**: 3 mm from the distal end
- **Endotherapy accessory entrance/exit position in field of view**: 

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**Single Use Splinting Tube**

**ST-SB1**

- **Insertion Tube**
  - **Outer diameter**: 13.2 mm
  - **Inner diameter**: 11 mm
  - **Working Length**: 1200 mm
  - **Total Length**: 1400 mm

**Material of the Tube**: Silicone rubber

**Material of the Balloon**: Silicone rubber

**Hydrophilic Lubrication Coating**: yes