

February 16, 2021

Olympus launches the SIF-H190 single balloon enteroscopy solution to reach deep into the small intestine

Aiming to support safe, efficient diagnosis and treatment through enhanced maneuverability

Olympus Corporation (Director, Representative Executive Officer, President and CEO: Yasuo Takeuchi) announced today the SIF-H190 single balloon enteroscope, which will be launched on February 17, 2021 in Japan and in late February, 2021 in Europe, incorporating functions to advance deep into the small intestine with a smoother passage.

The product is a single balloon enteroscope for use in the diagnosis and treatment of diseases of the small intestine such as obscure gastrointestinal bleeding. By manipulating the angle of the endoscope and the balloon at the tip of the splinting tubeⁱ mounted to the scope, this solution supports access deep into the small intestine that is typically difficult to reach. The SIF-H190 improves maneuverability of inserted endo-therapeutic instruments by increasing the diameter of the instrument channelⁱⁱ from 2.8mm of the conventional scopeⁱⁱⁱ to 3.2mm. In addition, incorporating technologies such as Passive Bending and High Force Transmission^{iv} that are equipped with Olympus' colonoscopes, facilitates smoother passage through acute flexures in the small intestine.

i Single use splinting tube ST-SB1

ii The opening through which endo-therapeutic instruments inserted in the endoscope emerge from its tip

iii EVIS EXERA II Small Intestinal Videoscope OLYMPUS SIF Type Q180

iv See "Details of Key Features 2" on page 2 of this news release

Key Features

1. **Wide instrument channel with 3.2mm diameter to improve the maneuverability of endo-therapeutic instruments while maintaining an outer diameter equivalent to existing enteroscope**
2. **Passive Bending and High Force Transmission to facilitate smoother passage**
3. **Sharp, clear high-definition imaging**



EVIS EXERA III Small Intestinal Videoscope OLYMPUS SIF-H190

Development Background

Enteroscopy is performed to diagnose and treat problems such as gastrointestinal bleeding, small intestine tumors and inflammatory diseases. The small intestine, which used to be called the "dark continent," was long regarded as being difficult to diagnose and treat. In recent years, capsule endoscopy enables to observe the small intestine directly, and change the standard of care in the small intestine dramatically. This has increased the medical needs for observation, biopsies and therapeutic procedures using enteroscopes. At the same time, the small intestine is a long, narrow organ with a total length of 6 to 7 meters, 25mm in diameter, is located deep inside and not fixed in the abdominal cavity, making it difficult to approach and requiring advanced insertion techniques.

In order to realize better maneuverability in this context, we developed a new single balloon enteroscope equipped with a wide instrument channel, Passive Bending, High Force Transmission and high-definition imaging.

The SIF-H190 launch is part of Olympus' contribution to safer, more efficient endoscopic diagnosis and treatment as a company that offers total solutions in the field of small intestine diseases, from screening to diagnosis and treatment. These contributions include capsule endoscope and the PowerSpiral^v endoscopy system that was released in Europe and parts of Asia in March 2019.

^v An enteroscopy system that uses motorized rotation to reach target sites.

Details of Key Features

1. Wide instrument channel with 3.2mm diameter to improve maneuverability of endo-therapeutic instruments while maintaining an outer diameter equivalent to existing enteroscope

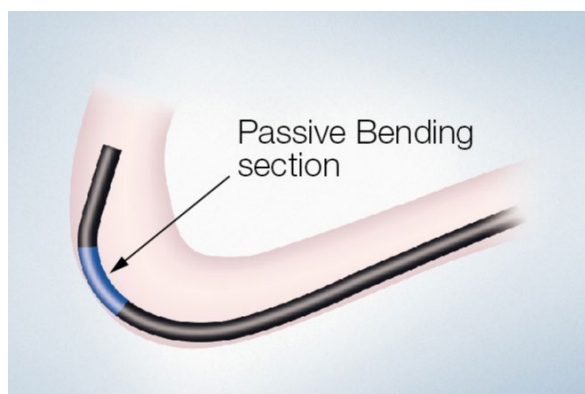
The SIF-H190 is equipped with a larger diameter of the instrument channel from 2.8mm of existing enteroscope to 3.2mm, while maintaining the same outer diameter. Suction performance can be retained while endo-therapeutic instrument is inserted, with a goal of improving scope maneuverability.



Instrument channel comparison: SIF-H190 (left) and a conventional scope (right)

2. Passive Bending and High Force Transmission to facilitate smoother passage

The SIF-H190 features our own leading technologies that are equipped with Olympus' colonoscopes, such as Passive Bending and High Force Transmission, to realize smooth insertion. Passive Bending is the ability to bend naturally when the scope touches the intestinal wall, facilitating a smoother passage through acute flexures. High Force Transmission enables a more effective transfer of pushing and rotating forces to the distal end of the enteroscope.



3. Sharp, clear high-definition imaging

A high-definition images help to provide greater clarity and richer detail than the conventional scope.

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About Olympus' Endoscopic Solutions business

In its Endoscopic Solutions business, Olympus uses innovative capabilities in medical technology, therapeutic intervention and precision manufacturing to help healthcare professionals deliver diagnostic, therapeutic and minimally invasive procedures to improve clinical outcomes, reduce overall costs and enhance the quality of life for patients and their safety. Starting with the world's first gastrocamera in 1950, Olympus' Endoscopic Solutions portfolio has grown to include endoscopes, laparoscopes, and video imaging systems, as well as system integration solutions and medical services. For more information, visit www.olympus-global.com.