

World's First Endoscope with Motorized Rotation System Olympus to Launch Small Intestine Endoscopy System "PowerSpiral" in Europe and Parts of Asia

Olympus Corporation announced today that "PowerSpiral" will be launched in Europe and parts of the Asia-Pacific region, including Hong Kong and India, on March 29. The system uses a motorized rotating attachment ("overtube", DPST-1) that mounts on the scope and gently grips onto the mucosa to help the endoscope advance deep into the small intestine. Going forward, "PowerSpiral" will additionally launch in the United States and other parts of the Asia-Pacific region as regulatory procedures are completed.

The product is an endoscopy system designed for diagnosing and treating conditions of the digestive tract. It incorporates the world's first foot-switch-operated motor that rotates an overtube equipped with spiral-shaped fins positioned on the endoscope. The rotation of the spiral fins supports continuous pleating or folding of the small intestine, with a goal of improving scope maneuverability and shortening procedure times.

• Launch details of "PowerSpiral"

Product name	Scheduled launch date
INTESTINAL VIDEOSCOPE OLYMPUS PSF-1 SINGLE USE POWERSPIRAL TUBE DPST-1 POWERSPIRAL CONTROL UNIT PSCU	March 29, 2019

• Key features

1. Motorized rotation of overtube supports access deep into the small intestine
2. High-definition imaging and 3.2mm working channel support high-quality diagnoses and therapy



"PowerSpiral" Small Intestine Endoscopy System

- **Development background**

Enteroscopies are performed to diagnose and treat problems in the digestive tract such as bleeding, 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 due to challenges with endoscope insertion. It is 6 to 7 meters in length, is located far from the mouth and anus, and is not fixed within the body cavity.

Balloon endoscopes and U.S.-made manually operated spiral overtubes that appeared in the 2000s made it possible to shorten the small intestine by pleating, which made deep enteroscopy easier. However, many of these systems require two operators and can be very difficult to operate, often resulting in long procedure times.

In order to overcome these challenges, in 2011 Olympus wholly acquired U.S.-based Spirus Medical, which possessed special technology for motorized spiral overtubes. By integrating this technology with its own, Olympus has now developed the new “PowerSpiral” enteroscopy system.

- **Details of key features**

- 1. Motorized rotation of overtube supports access deep into small intestine**

“PowerSpiral” uses single-use overtubes attached to the endoscope. The overtube is equipped with spiral-shaped fins and is rotated by a user-controlled motor operated via a foot switch. The spiral-shaped fins gently grip onto the mucosa, supporting the endoscope to advance smoothly and access deep into the small intestine for diagnosis and treatment.



- 2. High-definition imaging and 3.2mm working channel support high-quality diagnoses and therapy**

A high-definition image with sharper image quality helps to provide more efficient diagnosis and therapy. The system is also equipped with a larger working channel than existing enteroscopes, allowing a great variety of compatible endo-therapeutic instruments for versatile treatments.



Olympus will celebrate its 100th anniversary on October 12 this year.

We would like to thank all of our customers and stakeholders who have supported the company's development throughout these years.

We look forward to continuing the tradition of contributing to society through Making people's lives healthier, safer and more fulfilling.

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