



Advancing the Art of Endoscopy

# Advancing the Art of Endoscopy with an array of opto-digital innovations.

OLYMPUS technology continues to advance the art of endoscopy. As the world leader in endoscopy, OLYMPUS provides cutting-edge medical technology to healthcare professionals around the globe. Our commitment to research and development and our collaborative efforts with the medical community work to improve both the underlying technology and the quality of patient care it helps deliver. It is a continuous evolution, aimed at advancing the art of endoscopy.

Our latest introduction, the new EVIS EXERA III endoscopy system, is setting new standards for technologies focusing on:

- Advancing Visualization
- Advancing Control
- Advancing Workflow

These innovative technologies help facilitate more accurate diagnosis and treatment, simplify setup and reprocessing, improve workflow, and link patient and department information to the hospital's information network through smart technologies with advanced levels of sophistication and integration.



## EVIS EXERA III



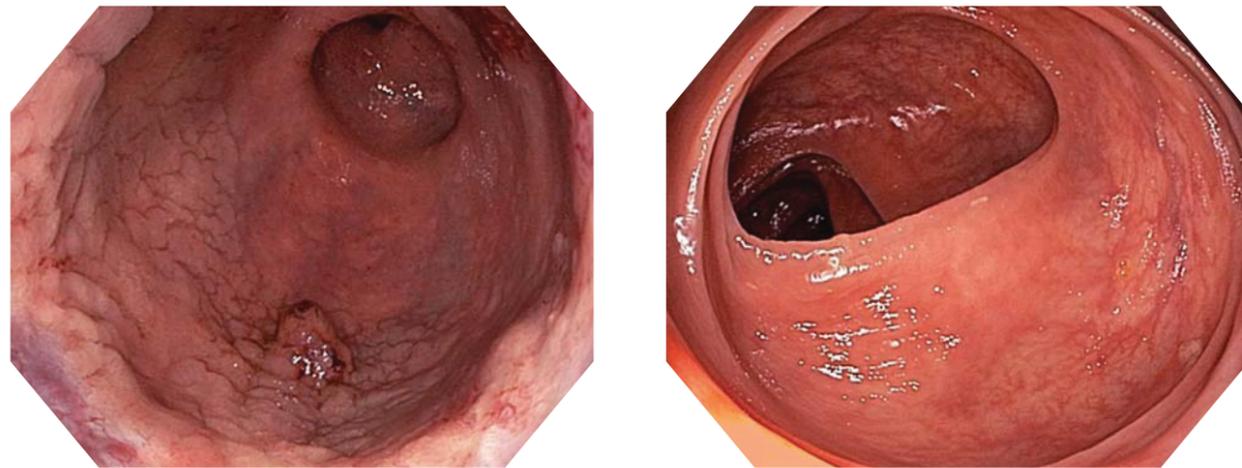
Advancing visualization using opto-digital technologies that support better diagnosis and effective treatment.

The art of endoscopy is about finding and treating GI diseases as early as possible. With the EVIS EXERA III endoscopy system, physicians can see the interior of the body more clearly than ever before. Refined technology delivers exceptional control of the endoscope for close-up views of internal tissue while advanced imaging features and renowned OLYMPUS optics deliver remarkable clarity in every detail.

# Advancing visualization with a wide range of key technologies.

## Enhanced Image Quality

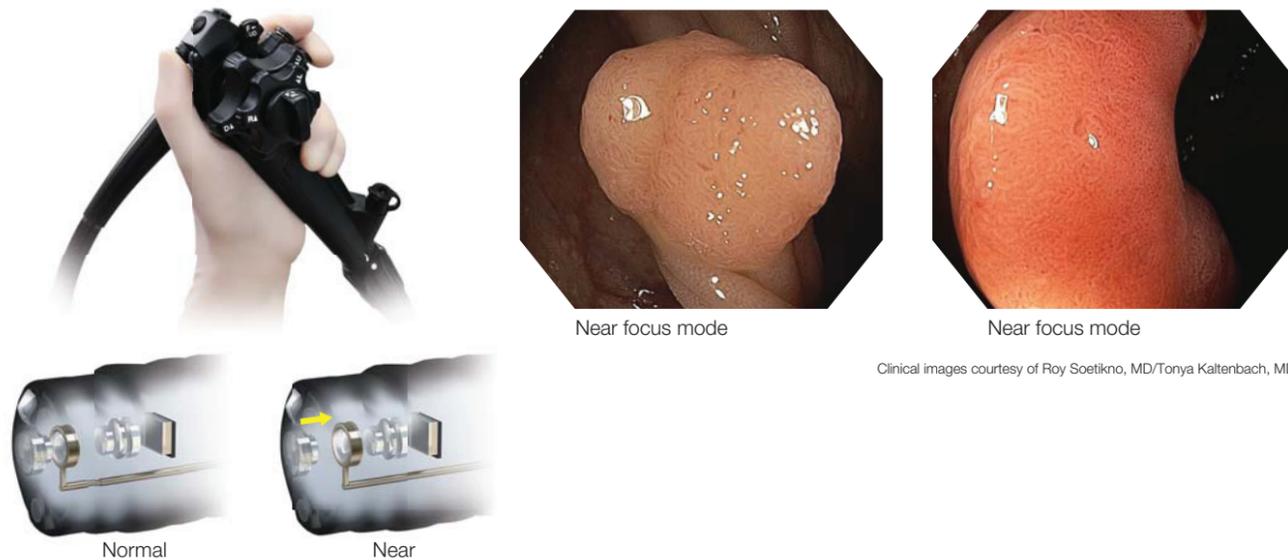
HQ scopes employ advanced OLYMPUS optics, improved image sensors and the new CV-190 video processor to deliver exceptionally clear, high-resolution images. The result is superior imaging with reduced halation and image noise and increased contrast and brightness. In the EVIS EXERA III generation, high-definition imaging will become standard on the core range of endoscopes.



Clinical images courtesy of Roy Soetikno, MD/Tonya Kaltenbach, MD

## Dual Focus

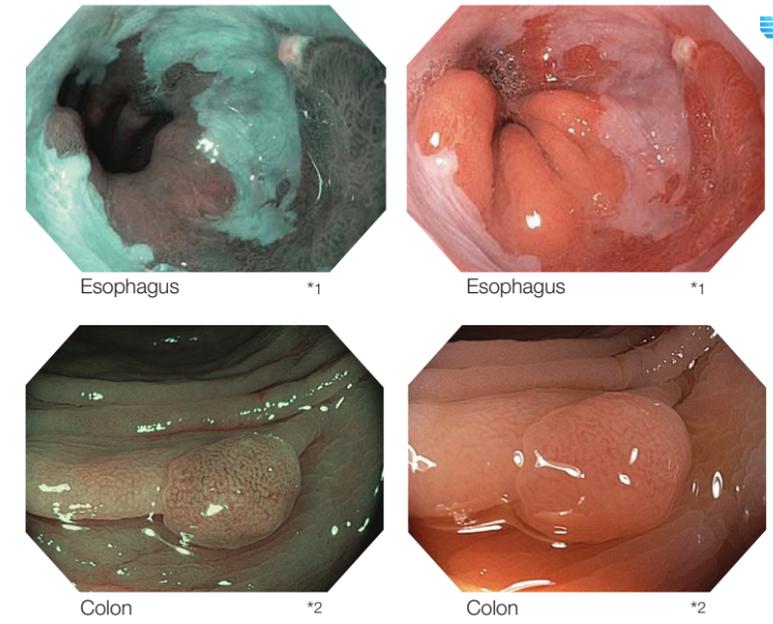
Dual focus two-stage optical lens technology from OLYMPUS allows physicians to switch from normal focus mode to near focus mode with a single button, so they can conduct close examination of mucosal tissue and capillary networks. The new technology lets physicians select the desired depth of field and obtain high-quality images at the same time, bringing a new level of visualization to routine examinations.



Clinical images courtesy of Roy Soetikno, MD/Tonya Kaltenbach, MD

## NBI (Narrow Band Imaging)

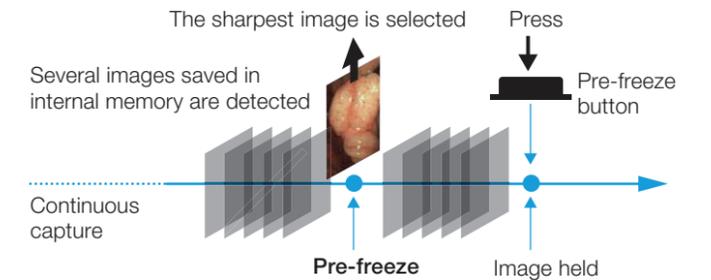
OLYMPUS developed narrow band imaging technology to enhance observation of mucosal tissue. Now an improved version gives twice the viewable distance and is significantly brighter.



\*1: Clinical images courtesy of Horst Neuhaus, MD  
\*2: Clinical images courtesy of Roy Soetikno, MD/Tonya Kaltenbach, MD

## Pre-freeze Function

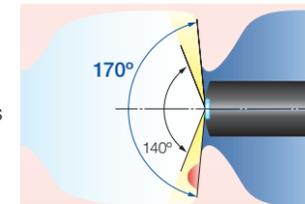
A new pre-freeze function saves time and eliminates the physician's frustration when capturing still images. The new CV-190 automatically buffers a continuous, rapid series of procedural images. When capturing a still image, the pre-freeze function analyzes the previous images and displays and saves the sharpest image of the desired view. This function helps physicians obtain a clear visual record of the procedure in the shortest possible time.



Clinical image courtesy of Roy Soetikno, MD/Tonya Kaltenbach, MD

## Wider Angles

The 170° wide-angle field of view, which has been standard on adult OLYMPUS colonoscopes, is now available on regular EVIS EXERA III 190 Series pediatric scopes (PCF-H190L/I). The benefits of wide-angle endoscopy include brighter imaging on the periphery and a 30° wider field of view. This can help physicians to detect mucosal changes more rapidly with less need for angulation.



## Forward Water Jet

Forward water jet is now standard on the core range of endoscopes. This technology has the potential to improve procedures by providing a powerful tool to help physicians maintain a clear field of view when faced with bleeding or inadequate bowel preparation.





## Advancing control to provide new value to physicians and staff.

The art of endoscopy requires having the right tools to deliver the best possible patient care. The EVIS EXERA III endoscopy system is a leap forward in ease-of-use functionality and state-of-the-art technologies. The result is a system that helps physicians conduct procedures efficiently, and helps GI staff members perform setup and reprocessing tasks with ease.

# Advancing control to help provide improved medical care.

## RIT (Responsive Insertion Technology)

RIT is standard on EVIS EXERA III 190 Series colonoscopes. It is a unique combination of three proprietary OLYMPUS technologies: PB (Passive Bending), HFT (High Force Transmission), and variable stiffness.\* These technologies work together to improve ease of insertion and operator control, which may help to minimize patient discomfort and enhance procedural efficiency.

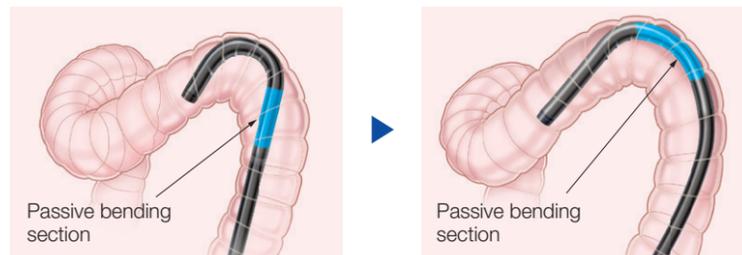


### ● PB (Passive Bending)

PB helps EVIS EXERA III 190 Series colonoscopes move through acute bends in the colon. When the scope meets with resistance, the pressure is redistributed so that the insertion tube automatically bends to adjust to the contours of the colon, potentially decreasing patient discomfort and speeding insertion to the cecum.

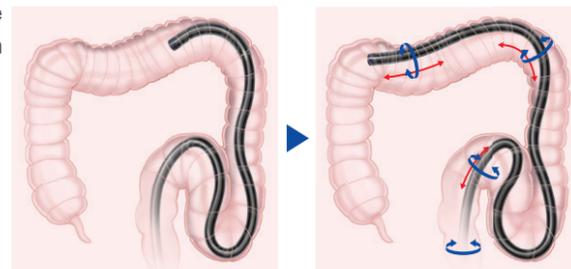


Passive bending section



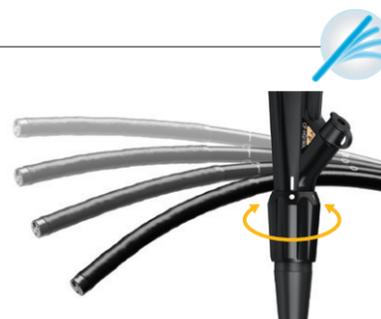
### ● HFT (High Force Transmission)

HFT provides improved operator control for pushing and twisting maneuvers. Whenever the scope is pushed forward or rotated, the pushing force or rotational torque is transmitted down the length of the insertion tube, meaning the scope reacts more sensitively to physician handling and is easier to maneuver within the colon.



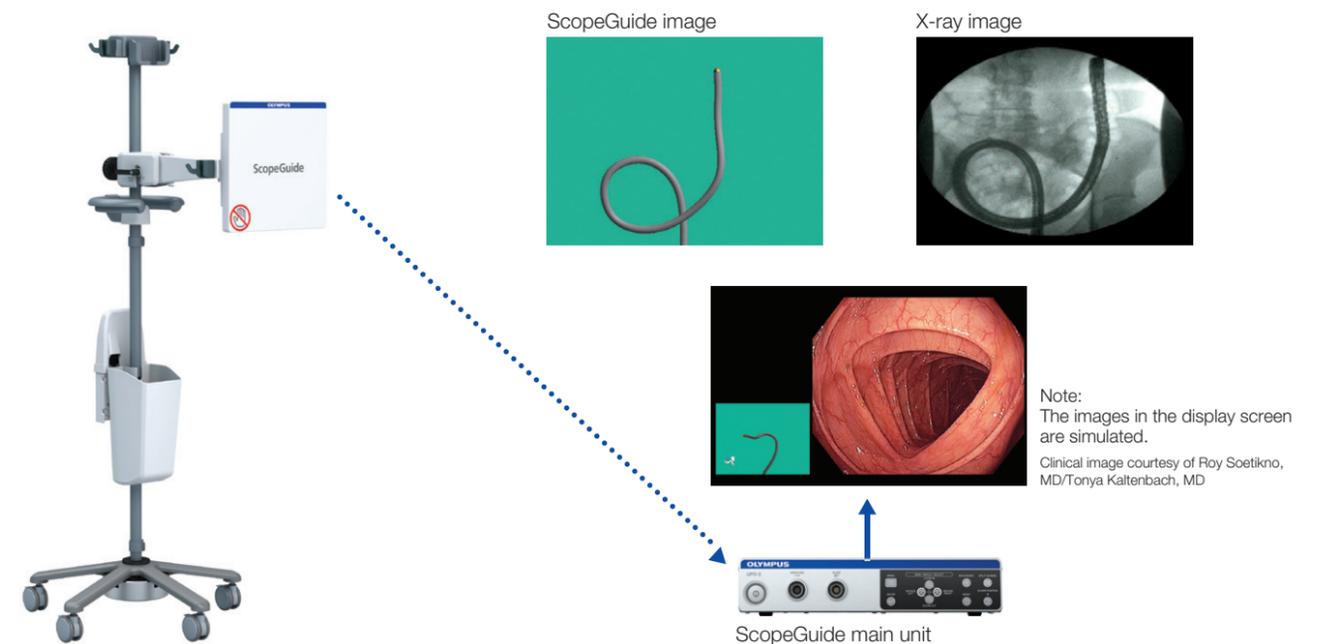
### ● Variable Stiffness

Variable stiffness allows the flexibility of OLYMPUS scopes to be changed incrementally by manipulating a flexibility adjustment ring. This innovative feature allows the scope to be adjusted on a case-by-case basis, to meet the unique anatomical needs of the patient and the handling preferences of the physician.



## ScopeGuide

ScopeGuide is designed to provide a real-time, three-dimensional image of the shape and configuration of the colonoscope during a procedure, and is integrated in the EVIS EXERA III system. The ability to visualize the scope inside the body allows the physician to see loop formations as they occur for expedited loop management. It can also assist with scope insertion and help optimize scope handling, which may shorten procedure times and minimize patient discomfort even during difficult colonoscopies.



Note: The images in the display screen are simulated. Clinical image courtesy of Roy Soetikno, MD/Tonya Kaltenbach, MD

## One-touch Connector

The newly designed EVIS EXERA III endoscopes allow one-step connection to the light source and processor. Unlike previous generations of endoscopes, 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 workflow by delivering flexible, integrated solutions.

The art of endoscopy requires balancing your current management system needs against future demands. The EVIS EXERA III endoscopy system is engineered for expansion, to grow as your needs do and to take advantage of future smart technologies. Much more than just procedural tools for endoscopy, the system is designed to ease setup and reprocessing, manage patient data, communicate with hospital networks, and provide seamless IT integration to meet your unique needs now and in the future.

# Advancing workflow with digital systems that improve hospital management.

## Image Management

Healthcare facilities are increasingly concerned with 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, the IMH can help enhance endoscopy operations like never before.

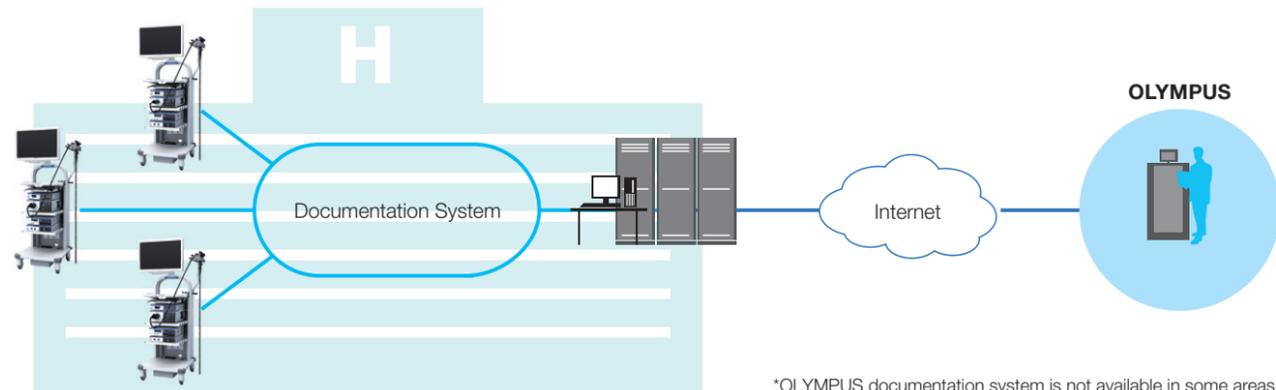


- **Portable Memory Compatibility**

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.

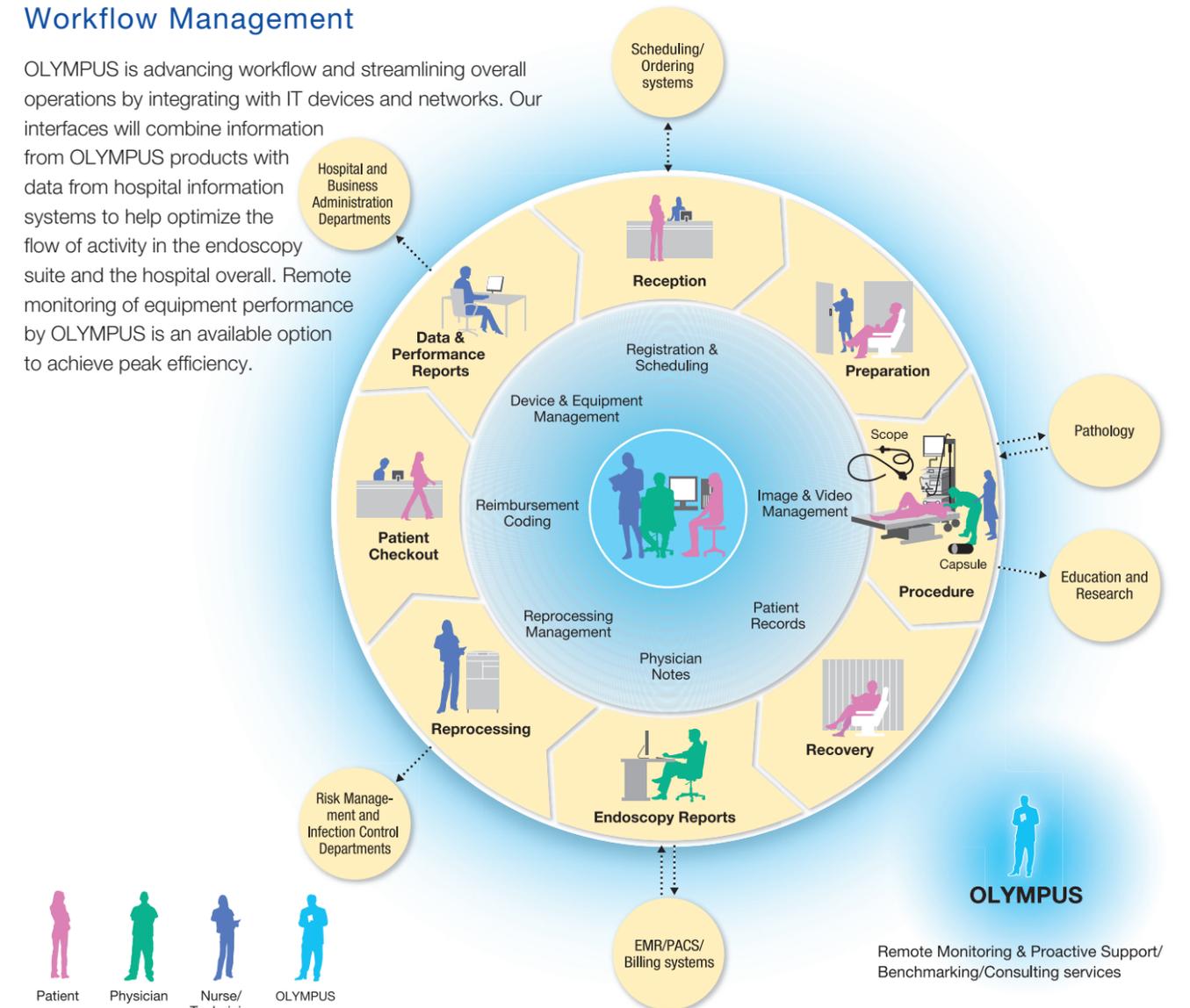
## Documentation

Designed to integrate with hospital information systems, OLYMPUS' proprietary management software is tailored to meet the specific needs of GI departments. Covering scheduling, registration, reporting, data filing, and network communications, this GI-specific software can help streamline a facility's endoscopy operation.



## Workflow Management

OLYMPUS is advancing workflow and streamlining overall operations by integrating with IT devices and networks. Our interfaces will combine information from OLYMPUS products with data from hospital information systems to help optimize the flow of activity in the endoscopy suite and the hospital overall. Remote monitoring of equipment performance by OLYMPUS is an available option to achieve peak efficiency.



## Maximum Compatibility

Able to accommodate anything from a colonoscope to a bronchoscope to an ultrasound scope to a laparoscope, the state-of-the-art EVIS EXERA III system offers the greatest possible flexibility for use across GI, respiratory and surgical departments. In addition, a comprehensive range of OLYMPUS EndoTherapy devices is specifically designed for EVIS EXERA Series scopes to facilitate proper diagnosis and treatment. The inherent flexibility of the OLYMPUS platform enables consistent care for patients and increased efficiency for the facility that goes straight to the bottom line.



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