

**OLYMPUS®**




**EUS**  
ENDOSCOPIC ULTRASOUND SYSTEM  
**EXERA**

Experience the New Era  
of Excellence in EUS

## *Reach Further, Reach Wider*

*Combining observation, diagnosis and treatment capabilities in a single system, the new EUS EXERA truly fulfills the potential of endoscopic ultrasonography.*

*With leading-edge DPR scanning, EUS-guided FNA capability, increased penetration depth and resolution as well as panoramic view, this innovative system at last allows physicians to explore a wider range of possibilities and develop powerful new applications for this promising technique.*



DPR scanning displays radial and linear images simultaneously

A compact ultrasound center that provides superior performance in EUS-guided FNA

Panoramic orientation allows you to see beyond the pancreas and gallbladder



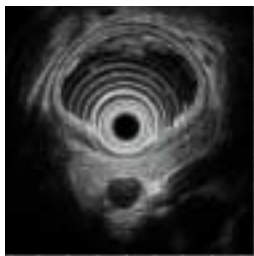
# A Clearer Way To See

## Endoscopic ultrasonography offers clear advantages for observation.

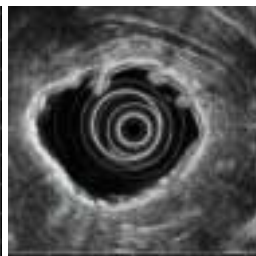
Originally developed by Olympus, endoscopic ultrasonography combines the imaging capability of GI-tract endoscopy with the internal scanning of ultrasound to enable observation from surface areas to deep areas. With its higher frequencies, it gives you a precise visualization of the layer structures of surface areas and conditions of early lesions. At lower frequencies, its penetration depth makes it effective for observation of deeper organs. The EUS EXERA system takes that versatility and efficiency to a new level of performance.

## Superior ultrasound images with enhanced depth penetration and increased resolution.

With broadband scanning capability now built in, the EUS EXERA system can achieve greater penetration depth, providing clearer,



Conventional model's 7.5MHz/9-cm image



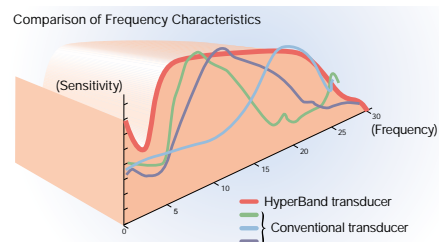
EUS EXERA's C5/9-cm image

sharper delineation of a much wider area — ranging all the way from the stomach's layer structure to deeper organs, including not only the pancreas and gallbladder but now even deeper ones such as the liver and spleen. This panoramic view makes it much easier to achieve orientation. The EUS EXERA system provides you with additional information that will help you better manage patient care.

## HyperBand transducer makes true broadband scanning possible.

Olympus's innovative technology has made it

*(Continued on next page)*



Solid Foundation of Olympus

## Integrating observation, diagnosis and treatment capabilities

Olympus's innovations are grounded in a solid foundation of basic technology developed over many years. Combined with our proven expertise in optical, digital and micromachine technology, the result is products that are at once innovative and practical. In other words, our products make sense. The EUS EXERA system is a perfect example. It offers system versatility — meaning that it works with our endoscopy system — and it offers full integration of observation, diagnosis and treatment capabilities.





## A More Efficient Way To Examine

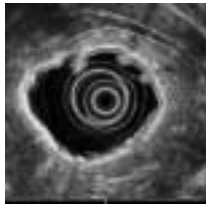
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possible to create a transducer made from composite piezo material. Incorporated in the tip of the GF-UM160 Ultrasonic Gastrovideoscope, the all-new HyperBand transducer is the key to the wide-range imaging available with EUS EXERA system.

### Frequencies can be set to suit the requirements of each case.

A wide range of available frequencies with the GF-UM160 (approx. 5 MHz to 20 MHz) makes it easy to choose the frequency that's right for your needs, without having to switch scopes during an examination.

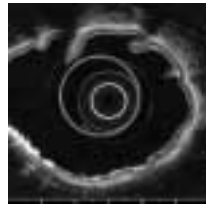
For example, in the low frequency C5 mode (approx. 5 MHz), accurate orientation is easier — especially in the pancreatobiliary area — by visualizing deep organs such as



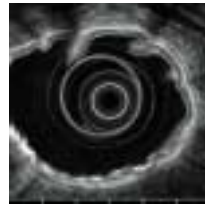
C5/9-cm range



C7.5/9-cm range



C12/6-cm range



C20/6-cm range

the pancreas and gallbladder. At the other end of the scale, the high-frequency C20 mode (approx. 20 MHz) can provide detailed imaging of the layer structure of the gastrointestinal tract wall and other areas.

### Compatibility with a variety of EVIS products and ultrasonic probes.

Designed to fit snugly in the EVIS system trolley, the EUS EXERA integrates smoothly into Olympus's EVIS — high-performance videoscope system. The combination of the EU-C60, EU-M60 and EVIS gives you a comprehensive, full-featured system that enables you to perform the total range of endoscopic and ultrasonic procedures. In addition, you can combine any



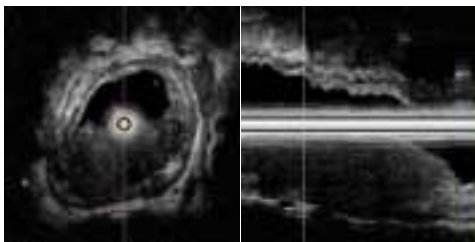


## A Simpler Way To Perform Treatment

one of Olympus probes with a variety of EVIS scopes. Just connect the probe to the MAJ-935 Probe Driving Unit and the EU-M60 Endoscopic Ultrasound Center for probe ultrasonography with higher frequencies.

### DPR scanning for detailed imaging of lesion extensions.

Connecting the MAJ-935 Probe Driving Unit to the EU-M60 lets you use a DPR-compatible probe for leading-edge dual-plane reconstruction (DPR) scanning. DPR scanning displays radial and linear images simultaneously after a single stroke of the spiral scan. DPR also makes ultrasonic images easier to understand, simplifying EUS examinations and helping you work more confidently.



DPR

### EUS-guided FNA now easier to do, and more accurate as well.

The EU-C60 is the first ultrasound processor in the world specifically designed for EUS-guided fine needle aspiration (FNA) that can be configured with an endoscopic system in a single trolley. Thanks to its simplified design and easy operation, you can proceed directly from observation to puncture. Superior ultrasound imaging capability enables you to perform EUS-guided FNA quickly and confidently, while Color Power Doppler images help you identify any vascular structures in the puncture route, making it easier to select the optimum puncture position and direction. Ultimately, EUS-guided drainage and other therapeutic techniques will help realize the full potential of EUS-guided treatment.



Color Power Doppler



B-mode



# A More Convenient Way To Work



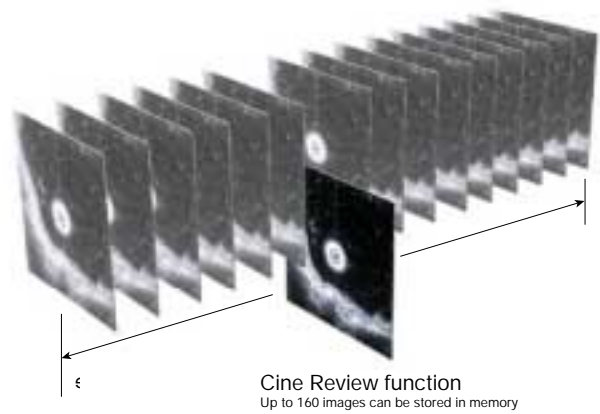
## Compact, Lightweight Control Section

To enhance maneuverability, increase procedural efficiency and decrease workload during EUS procedures, we reduced the size and weight of the control section by moving some of its functions to the connector. The result is a configuration similar to that of an EVIS scope. In addition, you can program functions for each switch on the control section will control, leaving you free to focus on the images on the monitor. Furthermore, a detachable ultrasonic cable facilitates reprocessing and makes it easier to carry and store the scope.



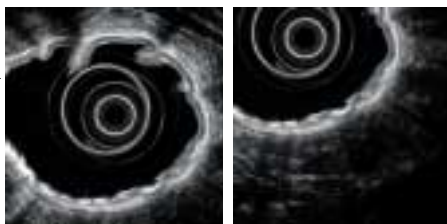
## Cine Review Function

With the new Cine Review function, you can automatically store up to 160 images in memory when you press the Freeze switch. This means you no longer need to be overly concerned about timing of image freeze. You can call up any image you need from the 160 images reverse-stored in memory at the time the Freeze mode was activated.



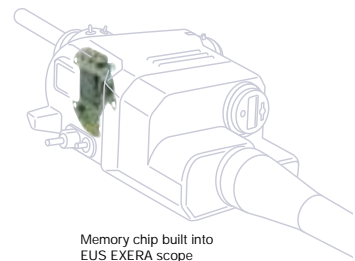
## Multi-Function Keyboard with a Built-in Trackball

For faster and more convenient operation, we've incorporated a trackball in the EU-M60's keyboard. EUS images can easily be scrolled, rotated, or measured with the trackball. The keyboard can also control EVIS system.



## Scope ID Function Facilitates Data Management

The EUS EXERA is fully compatible with the scope ID function of the EVIS EXERA 160 Series. ID data — such as model name, serial number, etc. — are stored on the memory chip built into the GF-UM160. This information can be displayed on the monitor to facilitate data management.

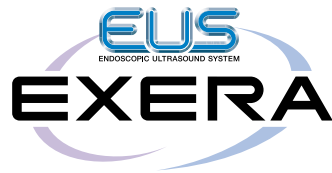


Scope Information	
Scope Model	GF-UM160
Serial No.	1002040
Comments	CH2.2mm
Cumulative Uses	0050
Check Period	0300
Service Contract	P-23-4600
Warranty Date	10/10/2002
Owner	ABC HOSPITAL
Customer ID No.	GF-UM #2
ID Ver.	1.02

Scope information menu

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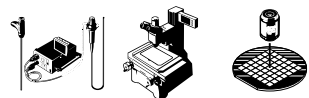
**Olympus business areas**



Medical and health-care area



Imaging and information area



Industrial applications area



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