

EVIS EUS Ultrasound Gastrointestinal Videoscope

GF-UE190

The Next Level in Ultrasound Endoscopy



Making A Difference in Radial EUS Scopes

Improved Maneuverability and Insertability with Enhanced Ultrasound Image Quality

As the inventor of the first 360° electronic radial scanning EUS scope, Olympus has developed the new GF-UE190. With advanced features, GF-UE190 scope is a versatile instrument that offers improved image quality, greater safety and enhanced ease of use. Olympus continues to support more efficient EUS observation and diagnosis by improving maneuverability, insertability and usability.

Realizes shorter distal end and slimmer scope outer diameter

Improved Maneuverability

Shorter rigid section

+

Smaller bending radius

→

Pursuit of improved maneuverability in duodenum

Improved Insertability

Slimmer distal end

+

Thinner insertion tube

→

Support for inserting into throat or P-ring

GF-UE160-AL5

GF-UE190

Shorter rigid section

Smaller bending radius

Short and Slim Distal End
13.4 mm

Improved Ultrasound Image Quality to Support EUS Observation

With its increased penetration depth and higher resolution, the GF-UE190 scope provides improved ultrasound images. The oblique endoscopic view supports pancreaticobiliary exploration and allows close examinations of small lesions.

GF-UE160-AL5

GF-UE190

THE-P mode, phantom image comparison

Clinical image (THE-P mode)

Slim Insertion Tube
10.9 mm

Easy Handling and Reprocessing

Distal End Design

D-Cut design allows easy removal of the balloon band, helping to prevent damage to the distal end. Straight balloon suction channel allows better access for reprocessing accessories.

Detachable Cable

Detachable ultrasound cable (MAJ-2056) for easier handling, reprocessing and storage.

D-Cut

Protruding cleaning brush for improved distal end visibility



EVIS EUS Endoscopic
Ultrasound Center
**OLYMPUS EU-ME2
PREMIER PLUS**



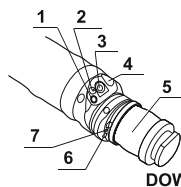
Detachable Cable MAJ-2056
Cable 1,500 mm

Specifications

Endoscope Function

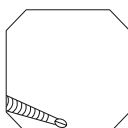
Optical System	Field of view	100°
	Direction of view	Forward oblique viewing 50°
	Depth of field	3-100 mm

Insertion Section	Distal end outer diameter \varnothing 13.4 mm	
	Distal end enlarged	
UP	1	Light guide lens
	2	Air/water nozzle
	3	Objective lens
	4	Instrument channel outlet
	5	Ultrasound transducer
	6	Balloon aspiration port
DOWN	7	Balloon water feeding port



Insertion tube outer diameter	\varnothing 10.9 mm
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Insertion section working length	1,250 mm
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Instrument Channel	Channel inner diameter	\varnothing 2.2 mm
	Minimum visible distance ¹	5 mm
	Direction from which EndoTherapy accessories enter and exit the endoscopic image	

Airflow Rate²	20 cm ³ /s
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Bending Section	UP	130°
	DOWN	90°
	RIGHT	90°
	LEFT	90°
Angulation range		

Total Length	1,563 mm
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¹ Distance from the distal end of the endoscope.
² Standard when CLV-190 (high air pressure) is used.
³ This mode may not be available in some areas.

Ultrasound Function

Transducer Surface Maximum Temperature	<43°C
Ultrasound Method	Electronic radial array
Ultrasound Direction	Perpendicular to the insertion direction
Frequency	5/6/7.5/10/12 MHz
Scanning Range	360°
Contact Method	Balloon method, sterile deaerated water immersion method

Ultrasound Function with EU-ME1

Operation Mode	B mode, FLOW mode (COLOR, POWER)
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Ultrasound Function with EU-ME2 Premier Plus, EU-ME2 Premier

Operation Mode	B mode, FLOW mode (COLOR, POWER, H-FLOW), PW mode, THE mode, CH-EUS mode ³ , ELST mode
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Ultrasound Function with EU-ME2

Operation Mode	B mode, FLOW mode (COLOR, POWER, H-FLOW), PW mode
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Ultrasound Function with ProSound F75

Operation Mode	B mode, M mode, D mode, FLOW mode (COLOR, POWER, eFlow), THE mode, PW mode, CH-EUS mode ³ , ELST mode
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EVIS EUS ULTRASOUND
GASTROINTESTINAL
VIDEOSCOPE
OLYMPUS GF-UE190

As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications and accessories may be required.