

OLYMPUS[®]



ENDOSCOPE POSITION DETECTING UNIT

OLYMPUS UPD

EVIS EXERA COLONOVideosCOPE

OLYMPUS CF TYPE Q160DL/I



● ScopeGuide™

New ScopeGuide™ from Olympus: Steering you in the right direction

As public awareness of colon cancer increases, so too does the demand for effective methods of detection and prevention. Unfortunately, today's most viable technique — colonoscopy — can be technically challenging. Passing the sigmoid colon and straightening colonoscopy loops can be difficult even for experienced endoscopists, and, without imaging, the endoscopist can only guess where the tip is.

Now with ScopeGuide™ from Olympus, all that has changed. With ScopeGuide™, doctors no longer have to rely on guesswork or experience alone to determine the configuration of an inserted colonoscope. A totally new, non-radiographical alternative, ScopeGuide™ displays a three-dimensional view of the position and configuration of the scope inside the colon in real time.

ScopeGuide™



Complements the variable stiffness insertion tube.

The ScopeGuide™-dedicated CF-Q160DL/I colonovideoscope incorporates Olympus's exclusive variable stiffness insertion tube. Because its flexibility can be

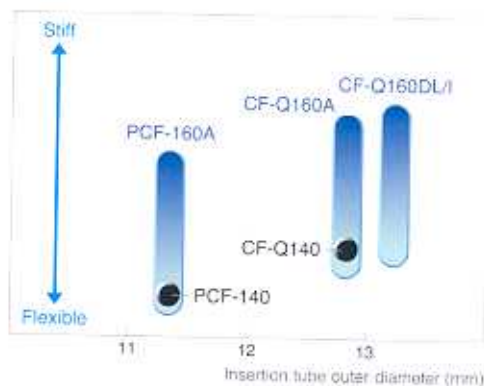
innoflex



Variable stiffness adjustment knob

adjusted simply by turning the knob located just below the control section, the variable insertion tube optimizes insertion. Built-in ScopeGuide™ capability makes things even easier. You will not only be able to obtain the degree of insertion tube flexibility that best suits the internal conditions and contours of the colon, but you'll also be able to confirm the scope position and configuration in real time. This combination of position detection capability and variable stiffness design increase the ease of colonoscopy insertion.

■ Range of Stiffness



ENDOSCOPE POSITION DETECTING UNIT UPD

Now you can pass the sigmoid colon and maneuver your scope easily and accurately with a real-time 3D display of scope position and configuration

Three-dimensional display of the entire scope configuration.

Now you no longer have to depend on the fleeting, two-dimensional glimpses provided by fluoroscopy. With ScopeGuide™, you can easily see the extent of looping and get a sense of what rotational maneuvers will be required to straighten out the loop. In addition to the single display mode, a split-screen display of both the anterior-posterior and lateral views is possible. A fixed viewing direction, regardless of patient position, is also possible when the provided MAJ-963 reference plate is attached to the patient's abdomen.



Comparison with fluoroscopic image



Split-screen display



Reference plate (MAJ-963) attached

External marker provided as standard accessory.

After setting the location of the anus, you can use the provided MAJ-964 external marker to view the relational positioning of the scope's insertion tube on the ScopeGuide™ display. When an assistant applies abdominal hand pressure with this marker on the palm of the hand, the position of the hand relative to the scope's insertion tube can be accurately determined. The external marker comes with two types of autoclavable covers.



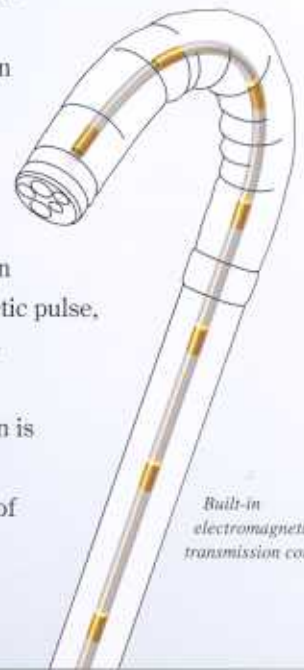
External marker (MAJ-964)



Indicator showing site of assistant hand pressure

How it works

More than a dozen electromagnetic transmission coils are built lengthwise into the scope insertion tube. These generate a pulsed low-voltage magnetic field that is picked up by a series of receiver coils incorporated in the ScopeGuide™ main unit. When the receiver coils receive a magnetic pulse, they use it to calculate the precise position and orientation of each transmission coil. This information is then used to generate a three-dimensional computer rendering of the scope configuration.



Built-in electromagnetic transmission coils



■ Sample cases that are tough to negotiate

Alpha loop



N loop



Reverse alpha loop



Sigmoid loop







CF-Q160DL/I Specifications

Optical System	Field of view	140°
	Direction of view	0° Forward viewing
	Depth of field	3 to 100 mm
Distal End	Outer diameter	13.6 mm
Insertion Tube	Outer diameter	13.2 mm
Bending Section	Angulation range	Up 180°, Down 180°, Right 160°, Left 160°
Working Length		L: 1580 mm, I: 1330 mm
Total Length		L: 2005 mm, I: 1655 mm
Instrument Channel	Inner diameter	3.7 mm
	Minimum visible distance	5 mm from the distal end
	Endo-Therapy accessory entrance/exit position in field of view	

UPD Specifications

Dimensions	510 (W) x 1617 (H) x 475 (D) mm
Weight	52 kg
Power Consumption	100-120V: 2.5A, 220-240V: 1.5A
Video Signal Outputs	Digital RGB signals to LCD monitor: 2, Y/C: 1, Composite video: 1
Output Magnetic Field Strength	The equipment complies with IEEEC95.1-1991



OPTION



MAJ-969 LCD Monitor Holder

Allows you to place an LCD monitor showing the scope configuration right next to an endoscopic monitor. Since you can view endoscopic and scope configuration images at the same time, you'll be able to work more efficiently. The holder can be attached to 14-inch as well as 20-inch endoscopic monitors.

Specification, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.



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