**Specifications**

**Optical System**
- Field of view: Normal focus mode: 170°, Near focus mode: 140°
- Structure ofscope: Forward viewing
- Depth of field: Normal focus mode: 2 mm, Near focus mode: 2 mm
- Insertion Sheath Diameter: 18.2 mm
- Insertion tube outer diameter: 12.8 mm
- Working Length: L1700 mm, 1700 mm
- Insertion tube length: Up: 1400 mm, Right: 1400 mm, Left: 1000 mm
- Total Length: L2530 mm, 2530 mm

**Instrument Channel**
- Channeled Sheath Diameter: 5.7 mm
- Minimum Sidelight Diameter: 4.0 mm (Distal end)
- Distal end of channeled sheath: Centered within the endoscope, view and control the endoscope, image

**Compatible (EV) SPERA System**
- Scope System Center (OMNITAX CE/UL)
- Vision Light Source (OLYMPUS CE/UL)

**Position Detecting Probe (MAJ-1029)**
- This device is not available in all countries.

**Accessories**

**Hand Coil (MAJ-1816)**
- Dimensions: 6 × 3 mm JIS 6 (mm 1/4)
- Weight: 15 g
- Length of the cord: 2000 mm

**Remote Control (MAJ-1800)**
- Dimensions: 60 × 53 × 22 mm (mm 1/4)
- Weight: 240 g
- Length of the cord: 2000 mm

**Mounting Kit (MAJ-1815)**
- Maximum insertion position diameter: 2.4 mm
- Total Length: 2000 mm
- Insertion length: 140 mm

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**ScopeGuide System**

**UPD-3**

**Receiver Dish (MAJ-1868)**
- Dimensions: 250 mm 3 × 250 mm (mm 3 × 250 mm)
- Weight: 400 g

**Receiver Dish Stand (MAJ-1907)**
- Dimensions: 120 mm 3 × 400 mm (mm 3 × 400 mm)
- Weight: 10 kg

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**CF-HQ190LI**

**Adding a new dimension to colonoscopy**

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

**OLYMPUS MEDICAL SYSTEMS CORP.**

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For a complete listing of sales and distribution locations visit www.olympus.com

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With a real-time, 3D view of the scope's position inside the body, ScopeGuide helps take the guesswork out of colonoscopy.

An exclusive OLYMPUS technology, ScopeGuide's 3D visualization assists with scope insertion and earlier loop identification. Real-time visualization allows the endoscopist to see loop formations as they are occurring for quicker and more effective loop management, without having to rely on guesswork.

ScopeGuide can help optimize scope handling, which may shorten procedure times and minimize patient discomfort, even during difficult colonoscopies.

Real-time 3D imaging for enhanced visualization

By seeing the shape of the entire scope as it moves through the body, ScopeGuide provides additional visual information that is particularly helpful during difficult colonoscopies. The endoscopist can evaluate the extent of looping and get a better sense of which rotational maneuvers will be required to straighten out various loop formations that can occur during colonoscopy.

Olympus technology with ScopeGuide visualization for exceptional performance

ScopeGuide-dedicated endoscopes, including the high-definition CF-HQ190DL/I and CF-H180DL/I, as well as the standard-definition CF-Q160DL/I, deliver OLYMPUS’ renowned optics along with its proprietary Variable Stiffness technology, for exceptional imaging performance and maneuverability.

Identification of scope position to assist in loop management

Via an external hand coil, ScopeGuide can help identify the optimal location for abdominal pressure. By moving the hand coil across the patient’s abdomen, an assistant can locate the precise position of the scope relative to the patient’s body and then apply hand pressure to the abdomen as needed.

Award-winning technology to help procedural efficiency

ScopeGuide’s real-time visualization is made possible through built-in electromagnetic coils in the scope that generate a pulsed, low-frequency magnetic field. These pulses are transmitted to an external receiver dish and then relayed to the processor to generate a 3D representation of the scope alongside the endoscopic image. This image provides the endoscopist with the precise positioning and orientation of the scope during the procedure.

Compact design for easy mobility

Thick, compact, and unobtrusive, the ScopeGuide system’s receiver dish does not get in the way during the procedure. The dish is conveniently mounted to a roll stand for easy positioning and maneuverability.

See how ScopeGuide can add a new dimension to your endoscopy practice.
**Specifications**

**CF-HQ190L/I**

- **Field of View**: Normal focus mode: 179°, Clear focus mode: 140°
- **Structural View**: Forward viewing
- **Depth of Field**: Normal focus mode: 3 - 118 mm, Clear focus mode: 2 - 5 mm
- **Astorion Width**: 10.2 mm
- **Guiding Distance**: Up: 100°, Down: 108°, Right: 19°, Left: 19°
- **Total Length**: L: 2,900 mm, Ø: 57 mm
- **Chazal Scope Diameter**: 9.7 mm
- **Minimum Vizable Distance**: 6.0 mm (L: from the distal end, R: from which endoscopic accessories enter and exit the endoscope, Image)

**Process Guide**

- **Hand Coil (MAJ-1934)**
  - Dimensions: ø 8 mm, ±0.5 mm, 1.5 m
  - Weight: 10 g
  - Length of the cord: 2000 mm

- **Remote Control (MAJ-1935)**
  - Dimensions: ø 34 mm, ±0.5 mm, 1.5 m
  - Weight: 29 g
  - Length of the cord: 2000 mm

- **Position Detecting Probe (MAJ-1302)**
  - The device is not available in all countries.
  - Dimensions: Remote coil ø 14 mm, ±0.5 mm
  - Weight: 11 g
  - Maximum insertion position diameter: 7.2 mm
  - Total length: 1500 mm
  - Insertion length: 940 mm

**Accessories**