

**OLYMPUS®**

Your Vision, Our Future

**EndoCapsule**  
OLYMPUS CAPSULE ENDOSCOPE SYSTEM



Redefining Capsule Endoscopy



# Innovations from a proven leader in the field of endoscopy culminate in the latest capsule endoscopes

Since producing the world's first gastrocamera in 1950, Olympus has achieved several milestones in the field of endoscopy. Over fifty years of endoscopic imaging experience have gone into the capsule endoscope development, and the road ahead looks even more promising. Gastroenterologists can now enjoy the operational ease and efficiency of our capsule endoscopes for the noninvasive observation of small bowel abnormalities.

Greater advances are sure to take place in the future, as we extend our integrated opto-digital technology and revolutionary micro-electro-mechanical system (MEMS) technology beyond the bounds of knowledge to where discovery begins.



**EndoCapsule**  
OLYMPUS CAPSULE ENDOSCOPE SYSTEM

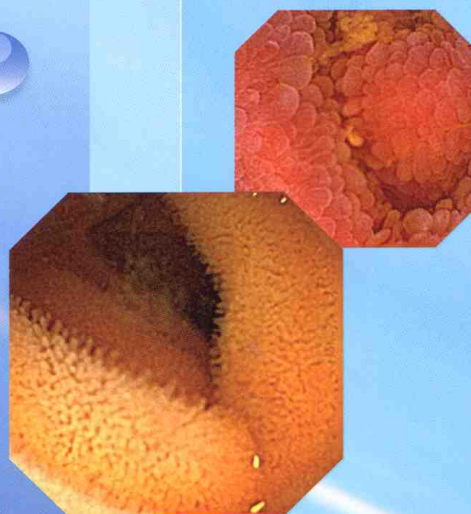
"Endo Capsule" from Olympus is the new trade mark of OLYMPUS CAPSULE ENDOSCOPE SYSTEM.



## High-Resolution Imaging for Refined Diagnosis

Established endoscopic imaging technology from Olympus has realized unrivaled diagnostic performance in the field of capsule endoscopy.

- Supersensitive CCD
- Ultra-compact lens
- Compact battery with energy-efficient technology
- Automatic Brightness Control
- Structure Enhancement Function



**Refined  
Diagnosis**

EndoCapsule

**Clinical  
Efficiency**

## Advanced Clinical Efficiency for Capsule Endoscope Procedures

Olympus has incorporated a number of unique developments into the capsule endoscope system in order to enhance the diagnostic efficiency of capsule endoscopy.

### Visible Clinical Performance

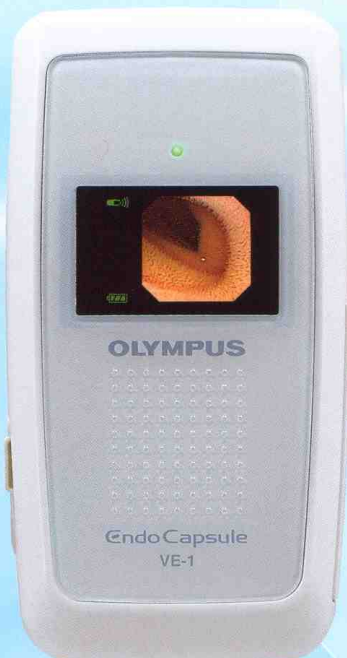
- The original "Real Time Viewer" offers a physician real-time examination imagery.

### Time Saving

- The Workstation reduces physician's review time, increasing efficiency.

### Ease of Use

- The Recorder Unit displays a variety of messages and patient data on its Display Panel.
- The Recorder Unit Harness is lightweight for maximum patient comfort.
- The user-friendly application software incorporated in WS-1: Endo Capsule Software





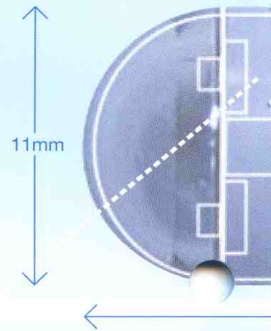
## CAPSULE ENDOSCOPE:

### OLYMPUS EC TYPE 1

## High Resolution Imaging for Refined Diagnosis

Olympus' high-resolution imaging technology achieves even more outstanding observation capability.

Established Olympus optical imaging technology leads the capsule endoscope to new diagnostic frontiers.



## Imaging Technology

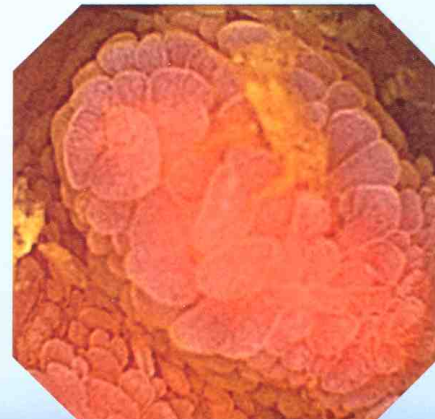
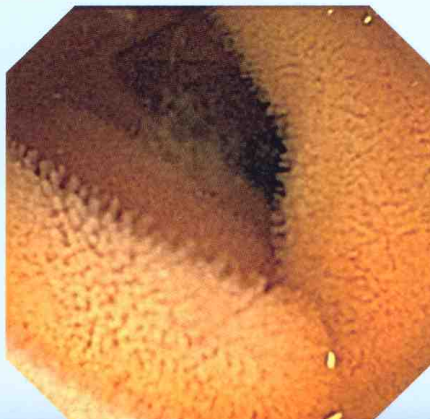
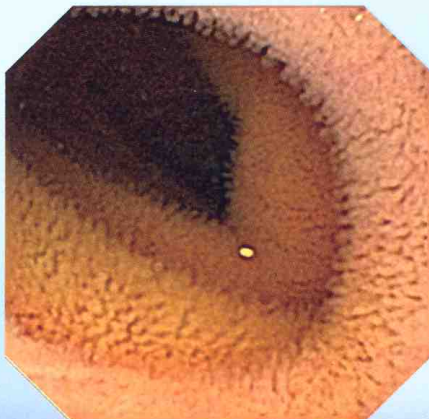
Owing to the sophisticated CCD, white LED lighting and Olympus lens technology, a clear and bright field of view is displayed for the fine observation of a variety of small bowel abnormalities.

- Olympus lens technology and sensitive, high-resolution CCD technology provide clear and vivid imaging results.
- A wide depth of field (0-20mm) provides optimal observation.
- 6 white LED lights always ensure a clear field of view.
- Automatic Brightness Control, applied from conventional endoscope technology, adjusts illumination to maintain optimal imaging.



White LED illumination

## Observable Symptoms





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## Power Supply Technology

Energy-saving technology: the implementation of original low-energy consumption image processing and transmission modules maintains battery life for 8 continuous hours.

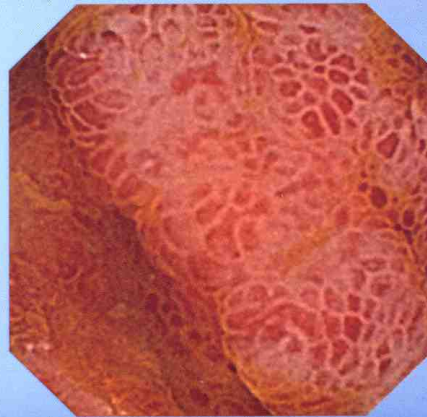
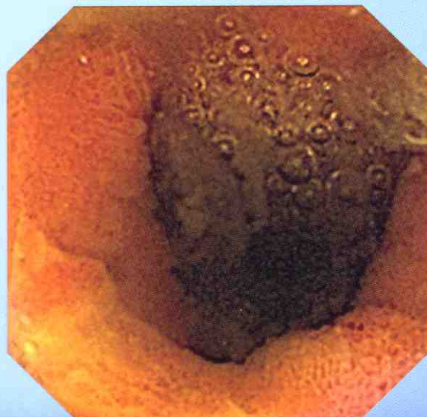
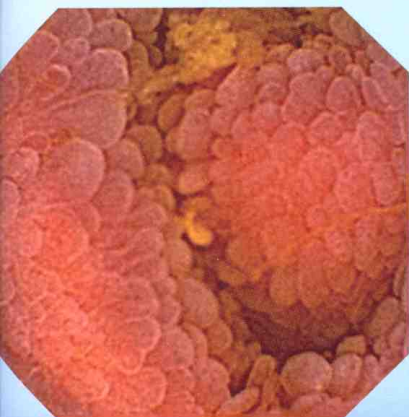
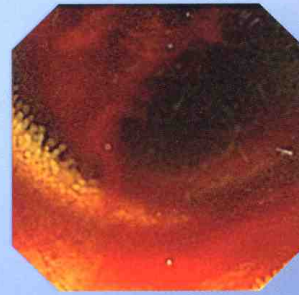
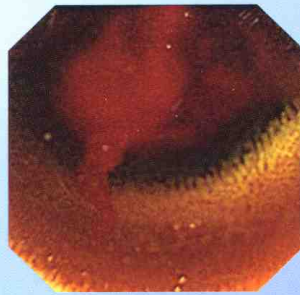
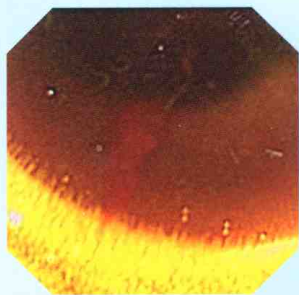
## Wireless Transmission Technology

A built-in capsule antenna transmits two images per second to the advanced Recorder Unit via the Antenna Lead Set.

## Safety

In line with our policy for patient care, Olympus utilizes a variety of technologies to maintain patient safety with the Endo Capsule EC-1.

- Bio-compatible plastics for the surface of the capsule endoscope
- Built-in circuit protection functions





## REAL TIME VIEWER:

### OLYMPUS VE-1

## Olympus "Real Time Viewer" for "Visible Clinical Performance"



Our proprietary, compact Real Time Viewer with color Display Panel allows clear, real-time capsule endoscope observation before and during clinical cases for vastly improved procedures.

As capsule performance may be closely monitored on the Real Time Viewer during procedures, the Olympus Real Time Viewer can therefore improve examination efficiency while significantly reducing examination failures.

- Color Display Panel
- Real-time observation



Pre-procedure check of capsule functions with Real Time Viewer



Real-time monitoring of capsule progress with Real Time Viewer

## RECORDER UNIT:

### OLYMPUS RE-1

## ANTENNA LEAD SET:

### MAJ-1474

## RECORDER UNIT HARNESS:

### MAJ-1475

## Integrated Developments and Features to Increase "Ease of Use" for Physicians, Nurses and Patients



Recorder Unit and Antenna Lead Set

To increase "ease of use" for physicians, nurses and patients during capsule endoscope procedures, the Recorder Unit incorporates a variety of unique solutions.



Lightweight and stylish Recorder Unit Harness

- Compact (90mm x 175mm x 43mm) and lightweight (515g; including battery) design
- Quick initialization
- B/W Display Panel for viewing a variety of data, such as remaining battery power, patient name and ID, plus additional error messages for physicians and nurses.

#### <Recorder Unit Harness>

- Slim and lightweight harness reduces patient discomfort.
- The waist belt portion is for patients with a waist size of up to 153cm.



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## WORKSTATION:

### OLYMPUS WS-1

EndoCapsule  
Software

## Olympus Solution for "Time Saving" on Physicians Capsule Endoscope Examination Time

In order to save physicians' review time, this uniquely integrated Workstation contains the proprietary application software "Endo Capsule Software," which enables the smooth management of capsule endoscope examination data.

- Structure Enhancement and Enlargement Display Function for highlighting the tiniest details.
- Red Color Detection Function selects images showing the suspected bleeding symptoms.
- Auto Speed Adjustment Function optimizes the review speed for the observer.
- Average Color Bar shows average color for each recorded image indicating mark of each GI tract for doctors' reference.

- Multi Display Function (1, 2 or 4 Display Mode) for quick, optimal observation.
- Up to 40 frames/second review speed for reduced viewing time.
- Various user-friendly features like Report Function, Case Data Management, Creation/Export of pictures and movies, and others.

<Multi Display Function>



Note: OLYMPUS WS-1 comprises WORKSTATION HARDWARE (MAJ-1479), PRINTER (MAJ-1480), and LCD MONITOR (MAJ-1481).



Average Color Bar

Red Color Bar

<Report Function>



## Endo Capsule Software Light

## Simplified Application Software for Diagnosis in the Office Environment

EndoCapsule  
Software Light

Olympus offers "Endo Capsule Software Light" on a CD-R for physicians seeking efficient observation of capsule endoscope examination results on PCs outside the examination room.



**CAPSULE ENDOSCOPE SET A: MAJ-1469**

Components	OLYMPUS EC TYPE1 CAPSULE ENDOSCOPE	5 pieces
	ANTENNA LEAD COVER: MAJ-1470	50 pieces
	CAPSULE ACTIVATOR: MAJ-1478	1 piece

**CAPSULE ENDOSCOPE: OLYMPUS EC TYPE 1**

Optics	Field of view (maximum)	145 degrees
	Depth of field	0 to 20mm
Sampling Rate		2fps
Battery Life		8 hours
Size	Dimensions	ø11mm (diameter) x 26mm (length)

Note: OLYMPUS EC TYPE 1 is not sold as single product but as MAJ-1469.

**ANTENNA LEAD COVER: MAJ-1470**

Size	Dimensions	92mm (W) x 66mm (H)
Components		Set of 50 pcs

**CAPSULE ENDOSCOPE SYSTEM SET A: MAJ-1467**

Components	RECORDER UNIT: OLYMPUS RE-1	1 piece
	REAL TIME VIEWER: OLYMPUS VE-1	1 piece
	BATTERY PACK: MAJ-1473	2 pieces
	ANTENNA LEAD SET: MAJ-1474	1 piece
	RECORDER UNIT HARNESS: MAJ-1475	1 piece
	BATTERY CHARGER: MAJ-1476	1 piece
	RECORDER UNIT CRADLE: MAJ-1484	1 piece
	REAL TIME VIEWER CABLE: MAJ-1485	1 piece

**RECORDER UNIT: OLYMPUS RE-1**

Battery Life		8 hours or longer
Size	Weight	515g
	Dimensions	90mm (W) x 175mm (H) x 43mm (D)
Components	BATTERY PACK: MAJ-1473	1 piece

**REAL TIME VIEWER: OLYMPUS VE-1**

Battery Life		3 hours or longer
Size	Weight	550g
	Dimensions	90mm (W) x 175mm (H) x 43mm (D)
Components	BATTERY PACK: MAJ-1473	1 piece
	REAL TIME VIEWER CABLE: MAJ-1485	1 piece

**BATTERY PACK: MAJ-1473**

Type		Lithium-ion storage cell
Capacity		3600mAh
Voltage		7.4V
Recharging Time		Approx. 2hours
Size	Weight	180g
	Dimensions	72mm (W) x 24.7mm (H) x 60mm (D)

**ANTENNA LEAD SET: MAJ-1474**

Size	Weight	200g
	Dimensions	88mm (W) x 68.7mm (H) x 23mm (D)

**RECORDER UNIT HARNESS: MAJ-1475**

Size	Weight	220g
	Dimensions	1770mm (W) x 220mm (H)

**BATTERY CHARGER: MAJ-1476**

Power supply	Power source	AC 100-240V/50-60Hz
	Current	AC 100V 53VA / AC 240V 70VA
Size	Weight	330g
	Dimensions	110mm (W) x 48.6mm (H) x 150mm (D)
Components		Power Supply Cable

**RECORDER UNIT CRADLE: MAJ-1484**

Power supply	Power source	AC 100-240V/50-60Hz
Size	Weight	Main Body: 230g
		AC Adapter: 275g
	Dimensions	128mm (W) x 80.8mm (H) x 114.5mm (D)
Components		AC Adapter and Recorder Unit Cradle Cable (each 1 piece)

**REAL TIME VIEWER CABLE: MAJ-1485**

Length	1.05m
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**WORKSTATION: OLYMPUS WS-1**

Components	WORKSTATION HARDWARE: MAJ-1479	1 piece
	PRINTER: MAJ-1480	1 piece
	LCD MONITOR: MAJ-1481	1 piece

**WORKSTATION HARDWARE: MAJ-1479**

Components	Keyboard, Mouse, USB Memory (2GB), and Endo Capsule Software Light CD-R (each 1 piece)
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Specifications, design and accessories are subject to change without any notice or obligation on the part of the manufacturer.

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