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**Capsule Endoscope**

All GI Solution Supplier
OMOM capsule endoscopy system is developed by Chongqing Jinshan Science & Technology (group) under its own intellectual property rights.

The system is designed for a visualized diagnosis of gastrointestinal tract simply by ingesting a pill-sized capsule which was built-in a miniature camera. Then the data recorder will save the pictures of the GI tract and transmit to the workstation to help doctor to diagnose.

It is the most amazing innovation in early of 21 century for GI examinations. More and more patients have gotten the benefits from the convenience, safety and comfort from OMOM Capsule Endoscope System during GI diagnosis.
Capsule Endoscope

Diagnostic Procedure

Swallowing Capsule

Patient swallow the pill-sized smart capsule after an overnight fasting.

Image Capturing

Patient keeps normal activities, the smart capsule moves through the gastrointestinal tract naturally. It can take snap shooting up to 9 hours and transmit all images wirelessly to the data recorder integrated in a vest.

Review and Report

Physicians can evaluate diseases by playback of all images with the help of software and export case report.
Capusle Endoscope

Components

1. Smart Capsule
   - The hi-resolution capsule endoscope consists of camera module, battery, wireless transceiver. The capsule is made of biocompatible macromolecule material and which is disposable.
   - Antenna array and image recorder are integrated in a vest & can be worn by patients during entire diagnosis procedure. The image recorder is able to receive image data transmitted by smart capsule. Sending commands to the smart capsule is also available by its advanced bi-directional communication function.

2. Portable Viewer (optional)
   - Portable viewer is an aid tool for capsule endoscope system, used for setting and adjustment over the capsule when the image workstation is not available. It provides real-time monitoring of capsule activity during the diagnosis procedure.

3. USB Monitor
   - The USB wireless monitor is a wireless transceiver connected with the computer USB ports. And through wireless USB monitor, it realizes system preparation, real-time monitoring, system control.
Capsule Endoscope

Smart Capsule

Features
- Pill-sized & high resolution miniature camera.
- Pictures taken automatically.
- Transmits digital image wirelessly.
- Moves along the digestive tract by peristalsis.
- Supports two-way communication.

Specification
- Physical Weight: ≤6g
- Material: Medical polymer material
- Optical Illuminating: 6 LED
- Field of View (in air): 140±10°
- Depth of Field (in air): 0-35 mm
- Resolution (in air): 0.1 mm
- Duration: 8±1h (QVGA/2fps)
- Voltage: 3V
- Current: 15mA
- Temperature: 0-40°C
- Color type: 24 bits true color
- Sealing: IPX7
- Operation Sampling rate: 2fps ± 10% (QVGA) 0.5fps ± 10% (VGA)
- Image format: QVGA (320*240) and VGA (640*480)

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**QOMOM** Capsule Endoscope

### Image Recorder

<table>
<thead>
<tr>
<th>Features</th>
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</table>
| Designed as a vest, easy to put on or take off.  
Antenna array built inside.  
Built-in large capacity lithium battery with 9hrs life.  
Receives and stores digital image from capsule.  
Supports two-way and multi-channel communication. Supports multi patient diagnosis at the same time and same place. |

<table>
<thead>
<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>Power: Built-in Lithium battery</td>
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<tr>
<td>Duration: ≥8 Hours</td>
</tr>
<tr>
<td>Storage: 4 GB CF card</td>
</tr>
<tr>
<td>Weight: &lt;1Kg</td>
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<tr>
<td>Number of antenna: 14</td>
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<tr>
<td>Battery Capacity: ≥4800mAh</td>
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<tr>
<td>Communication: USB2.0</td>
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Capsule Endoscope

Portable Viewer

Features

- Portable tool operated via touch screen.
- Supports real time monitoring.
- Wireless communication.
- Sends commands and download/upload capsule parameters.

Specification

- Display: Touch TFT
- Resolution: 640*480
- Color: 64K true color
- Input Mode: touch & handwriting input
- Weight: 200g
- Size: 149*74.5*17.5mm
- Dimension for display: 4 inch
- Battery: 2400mAh rechargeable Li-ion battery
Capsule Endoscope

Workstation


Features

Working conditions can be managed in diagnostic process, i.e. the capsule can be powered on/off, the sampling rate can be adjusted.
Capsule Endoscope

Main Features

- Best Visualization
- Long duration
- Real time monitoring
- Image screening
- Multi channel communication
- High rate sampling

- Pixel up to 300,000
- Capsule duration up to 9 hour
- Auto find bleeding point
- Multi diagnosis at same time & same place
- Sampling rate up to 2 fps, adjustable

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Capsule Endoscope

High Quality Case Atlas

Polypus, distal ileum
Mucosa protrusion, ileum
Diverticulum, ascending colon
Active bleeding, jejunum
Papilla, duodenum
Multiple erosion, small bowel
Polypus in small bowel
Ulcer, suspected Crohn’s disease
Capsule Endoscope

**Capsule Finding: LMS Proved by operation**

Immunity organization shows the disease comes from the inherent muscle; it's mild malign leiomyoma (400X)

(See pic1 & pic2)

**Capsule Finding: Polyps**

Barium meal can only find the polyps at the end of small intestine, while OMOM Capsule Endoscopy can discover polyps in small intestine.

(See pic3 & pic4)
Capsule Endoscope

**Indications**
- Obscure GI Bleeding
- Abnormality in small bowel detected by other method
- Inflammatory bowel diseases
- Chronic abdominal pain or diarrhea
- Tumor
- Healing of multiple polyps, Crohn’s disease
- Obscure iron deficiency anemia
- Regular GI examination

**Contraindications**
- Proved or suspected gastrointestinal abnormality, obstruction, stricture, perforation or fistula
- Serious IBD or radiation colitis
- Serious IDA
- Patient with embodied pacemaker or other electronic device
- Pregnancy
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Thank you