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Title	EG-500 Series Video Gastroscope Technical Specifications			
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EG-500 Series Video Gastroscope Technical Specifications



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1. Overview

EG-500 series video gastroscope is medical device customized for examination and diagnosis of the upper digestive tract. It integrates the high-definition CMOS imaging technology, digital image processing technology, micro optical lens technology, and advanced software technology to implement high-quality image, improving the safety of the diagnosis and treatment process, accuracy of the judgment, and stability of the operation.

The device allows an operator to remotely operate such functions as real-time video collection, water feeding, air feeding, aspiration, image freezing and amplification.

The device complies with international standards and national standards.

2. Advanced Technologies

- High-definition CMOS imaging technology
- Micro optical lens technology
- Large-view-field imaging lens technology
- Auxiliary water feeding
- High-conductivity and

small-diameter insertion pipe with different rigidity at different sections

- Quick switch between air feeding and water feeding
- Small bending radius and large bending angle
- Adoption of polymer engineering materials, high resistance against disinfectant

3. Controls

- Electrical connector
- Air feeding port
- Light guide port
- Air/water feeding ports
- Suction port
- Auxiliary water-feeding port
- Electrosurgical equipment connector

4. Specifications

Refer to section 9 Appendix.

(Net weight of EG-500 series video gastroscope is 1.3kg.)

5. Applicable Range

The video gastroscope is used with the image processor, light source, and other peripherals provided or recommended by

the manufacturer. It is intended for use in examination and diagnosis of the upper digestive tract (including the esophagus, gastric cavity and duodenum).

6. Compatible Equipment

- Light source: HDL-500X and HDL-500E
- Image processor: HD-500
- Medical trolley

7. Safety Standards

- IEC 60601-1:1988+A1:1993+A2:1995
- IEC 60601-2-18:1996+A1:2000
- IEC 60601-1-2:2007

8. Environment Requirements

- **Operating Environments**
 - Temperature: +5°C to +40°C
 - Relative humidity: 30% to 80% (non-condensing)
 - Atmospheric pressure: 700 to 1060hPa
- **Storage Environments**
 - Temperature: -5°C to +40°C
 - Relative humidity: 30% to 80% (non-condensing)

- Atmospheric pressure: 700 to 1060hPa

- **Transportation Environments**

- Temperature: -20°C to +55°C
- Relative humidity: 20% to 90% (non-condensing)
- Atmospheric pressure: 700 to 1060hPa

- **Safety Types**

- Degree of protection against electric shock: Type BF applied part
- Degree of protection against harmful liquid: IPX7

9. Appendix

No.	Parameter	EG-500	EG-500L
1	View direction	Front	
2	View field	140°	
3	Resolution	Resolution $\geq 12.50\text{lp/mm}$ (when the work distance is 10mm)	
4	View depth	3~100 mm	
5	Outer diameter of the distal end	$\Phi 9.3\text{mm}$	$\Phi 9.8\text{mm}$
6	Outer diameter of the bending section	$\Phi 9.3\text{mm}$	$\Phi 9.8\text{mm}$
7	Maximum outer diameter of the insertion section	$\leq \Phi 10.5\text{mm}$	$\leq \Phi 11.5\text{mm}$
8	Angle	Up 210°, down 90°	
		Left 100°, right 100°	
9	Minimum inner diameter of the instrument channel	$\Phi 2.8\text{mm}$	$\Phi 3.2\text{mm}$
10	Insertion section length	1050mm	
11	Total length	1350mm	
12	Minimum viewing distance of instrument channel	3mm	
13	Illumination	$\geq 18000\text{Lx}$	
14	Aspirated amount	$\geq 400\text{ml/min}$	
15	Water/air feeding	Amount of fed water $\geq 40\text{ml/min}$, amount of fed air $\geq 800\text{mL/min}$	
16	Auxiliary water feeding	Support	
17	Endoscope information storage	Support	

Note:

- The specifications of this product may change without any prior notification.
- Some products or features may not be available in some countries.
- For further information, please contact your local SonoScape sales representative.

Service Information:

Address: 4/F, 5/F, 8/F, 9/F & 10/F, Yizhe Building, Yuquan Road, Nanshan, Shenzhen,
518051, Guangdong, China

Tel: +86-755-26722890

Fax: +86-755-26722850

Email: Service@sonoscape.net

Http: www.sonoscape.com