


REV	ECN	Revision History	Date	Editor
A03	ECN04208	1. Delete the maximum outer diameter of the insertion section. 2. Modify the "outer diameter of the bending section" to the "outer diameter of the insertion tube".	2022-08-18	Xu Lin
A02	ECN03839	1. Delete syringe in the Packing List 2. Change the font	2022-05-06	Xu Lin
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Title	EB-5H20 Series Video Bronchoscope Technical Specifications
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EB-5H20 Series Video Bronchoscope Technical Specifications



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1. General Description

The EB-5H20 series video bronchoscope is specially designed for examination, diagnosis and treatment of the respiratory tract and lung. It includes two models, EB-5H20 and EB-5T28. The high-definition CMOS imaging technology, digital image processing technology, micro-optical lens technology and advanced software technology are applied on the device to provide high-quality images and videos, making the diagnosis and treatment safer, the judgment more accurate and the operation more stable.

The product supports real-time video acquisition, suction and remote control of image freezing, magnification, etc.

The product complies with the relevant national and international standards and regulations.

2. Advanced Technologies

- High-definition CMOS imaging technology
- Micro-optical lens technology
- Super large angle imaging lens technique
- High-conductivity insertion section with different rigidity at different

segments

- Smaller bending radius and larger bending angle
- High polymer engineering materials with higher disinfectant tolerance
- Safe fully-sealed design
- Simple and quick connection and disconnection

3. Ports

- Light guide
- Suction valve cylinder
- Electrosurgical equivalent terminal
- Instrument channel inlet

4. Control Section and Insertion Section

- Angulation control pole
- Remote buttons (0 - 3)
 - Customize the functions of the four remote buttons by using the image processor.
 - The customizable functions include freeze, zoom, VIST, photometry mode, image enhancement, color enhancement, CHb pseudo-color image,

transillumination mode, contrast enhancement, AGC, image size, screenshot, video print, video recording, timer, PBP, information display, one-key export and upload.

- Instrument channel
 - For the biopsy accessories of the endoscope;
 - Used as the suction channel after covering the biopsy valve cap firmly.
- Suction valve

Press the valve to aspirate liquid or gases from the digestive tract cavity.

5. Distal End

- Objective lens
- Light guide lenses
- Instrument channel outlet

6. Auxiliary Examination

Biopsy forceps sampling

7. Disinfectant and Flush Fluid

- Disinfectant

Recommended disinfectant:

Glutaraldehyde (alkaline, concentration: $\geq 2\%$);

- Flush fluid

Recommended flush fluid: sterile water or filtered water.

8. Specifications

Refer to the appendix.

(Net weight: 0.72 kg)

9. Packing List

- Endoscope
- Biopsy valve
- Suction valve
- Cleaning brush
- Leakage detector
- Injection tube
- Distal end cap
- User manual

10. Compatible Devices

- Light source: VLS-50D, VLS-50T, VLS-51D, VLS-51T, VLS-55Q, VLS-55T
- Image processor: HD-550, HD-550Exp, HD-550Pro, HD-550S, HD-510, HD-500Plus
- Trolley: HDT-330, HDT-500

11. Safety Standards

- IEC 60601-1: 2005+A1:2012
- IEC 60601-1-2:2014
- IEC 60601-2-18:2009

12.Environment Requirements

- Operating environment
 - Temperature: +5°C - +40°C
 - Relative humidity: 30% - 80%
 - Atmospheric pressure: 700 hPa – 1060 hPa
- Storage environment
 - Temperature: -5°C - +40°C
 - Relative humidity: 30% - 80%
 - Atmospheric pressure: 700 hPa - 1060 hPa
- Transportation environment
 - Temperature: -20°C - +55°C
 - Relative humidity: 20% - 90%
 - Atmospheric pressure: 700 hPa - 1060 hPa
- Safety types
 - Degree of protection against electric shock: Type BF applied part
 - Degree of protection against liquid: IPX7

13. Appendix

No.	Model		
	Parameter	EB-5H20	EB-5T28
1	Direction of view	Front viewing	
2	Field of view	120 °±10%	
3	Resolution	≥ 14.90 lp/mm (working distance: 7 mm)	
4	Depth of field	2 - 100 mm	
5	Outer diameter of the distal end	Φ4.9 mm, allowance: +5%, not considering the lower limit	Φ5.9 mm, allowance: +5%, not considering the lower limit
6	Outer diameter of the insertion tube	Φ4.9 mm, allowance: +10%, not considering the lower limit	Φ5.9 mm, allowance: +10%, not considering the lower limit
7	Bending angle	Up 180°, down 130° Allowance: -10%, not considering the upper limit	
8	Minimum inner diameter of the instrument channel	≥ Φ2.0 mm	≥ Φ2.8 mm
9	Working length	600 mm±10%	
10	Total length	880 mm±10%	
11	Minimum visible distance	3mm	
12	Aspirated amount	≥ 200 mL/min	
13	Endoscope information storage	Support	

NOTE:

- The specifications of the product may change without any prior notification
- Some products or features may not be available in some countries.
- Please contact the local distributor for more information.

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