

REV	ECN	Revision History	Date	Editor
A01	DMR02063	First Release	2020-11-06	Xu Lin
Title	EB-5H20 Series Video Bronchoscope Technical Specifications			
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 SONOSCAPE MEDICAL CORP.		Document Number 901-08009		Distribution Number
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EB-5H20 Series Video Bronchoscope Technical Specifications



SonoScape

SonoScape Medical Corp.

1 General Description

The EB-5H20 series video bronchoscope is used for examination, diagnosis and treatment of the respiratory tract and lung. It includes two models, EB-5H20 and EB-5T28. It adopts the high-definition CMOS imaging technology, digital image processing technology, micro-optical lens technology and advanced software technology to provide high-quality image, thus to make the diagnosis and treatment safer, the judgment more accurate and the operation more stable.

The endoscope allows the operator to remotely operate such functions as real-time video collection, suction, image freezing and magnification.

The endoscope has been designed to comply with applicable 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 large bending angle
- High polymer engineering materials with higher disinfectant tolerance
- Safe fully-sealed design
- Simple quick insertion and extract

3 Ports

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

4 Control Section and Connector 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, IRIS, image enhancement, color enhancement, CHb, transillumination mode, contrast enhancement, AGC, image size, screenshot, video print, video, 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, Sterilant and Flush Fluid

- Disinfectant

Recommended disinfectant:

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

Recommended sterilant:

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 Package List

- Endoscope
- Biopsy valve
- Suction valve
- Cleaning brush
- Leakage detector
- Syringe (30 mL)
- Injection tube

- Distal end cap
- User manual

10 Compatible Devices

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

11 Safety Standards

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

12 Environment Requirements

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

- Relative humidity: 30% - 80% (non-condensing)
- Atmospheric pressure: 700-1060 hPa
- Transportation environments
 - Temperature: -20°C - +55°C
 - Relative humidity: 20% - 90% (non-condensing)
 - 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

Item	Parameter	EB-5H20	EB-5T28
1	Direction of view	Front viewing	
2	Field of view	120 °, allowance: ±10%	
3	Resolution	Resolution: ≥ 14.90 lp/mm (working distance: 7 mm)	
4	View depth (mm)	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 bending section	Φ4.9 mm, allowance: +10%, not considering the lower limit	Φ5.9 mm, allowance: +10%, not considering the lower limit
7	Maximum outer diameter of the insertion section	≤ Φ5.7 mm	≤ Φ6.7 mm
8	Bending angle	Up 180 °, down 130 ° Allowance: -10%, not considering the upper limit	
9	Minimum inner diameter of the instrument channel	≥ Φ2.0 mm	≥ Φ2.8 mm
10	Insertion section length	600 mm, allowance: ±10%	
11	Minimum viewing distance of instrument channel	3mm	
12	Aspirated amount	≥ 200 mL/min	
13	Endoscope information storage	Support	

NOTE:

- The specifications of this product is subject to 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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