

REV	ECN	Revision History	Date	Editor
A04	ECN03839	1. Change the font 2. Add total length	2022-05-06	Xu Lin
A03	DMR01825	1. Add compatible light source VLS-50D and VLS-50T 2. Add medical trolley HDT-330 and update the HDT-500 trolley model; 3. Update the appendix.	2020-09-22	Xu Lin
A02	D00059410	Update the manufacturer address	2019-06-24	Xu Lin
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EB-500 Video Bronchoscope Technical Specifications



SonoScape

SONOSCAPE MEDICAL CORP.

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1 General Description

The EB-500 series video bronchoscope is used for examination, diagnosis and treatment of the respiratory tract and lung. It adopts the advanced technologies of high-definition CMOS imaging, digital image processing and micro-optical lens to provide high-quality image, safe diagnosis and treatment, accurate judgment and stable operation.

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, thus to ensure the safety and availability of this product.

2 Advanced Technologies

- High-definition CMOS imaging technology
- Micro-optical lens technology
- Wide field of view imaging lens technology

- High-conductivity and small -diameter insertion section with different rigidity at different segments
- Small bending radius and larger bending angle
- High polymer engineering materials with higher disinfectant tolerance

3 Connectors

- Electrical connector
- Light guide
- Suction valve cylinder

4 Specifications

Refer to the appendix.

(Net weight: 0.72 kg)

5 Applicable Range

The product is used with the light source, image processor, monitor and other peripherals provided or approved by the manufacturer. It is intended to examine, diagnose and

treat the respiratory tract and lung.

6 Compatible Devices

- Light source: HDL-500E,
HDL-500X,
VLS-50D/VLS-50T
- Image processor: HD-500, HD-500S
- Trolley: HDT-330, HDT-500

7 Safety Standards

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

8 Environment Requirements

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

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

- Transportation environment

- 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

9 Appendix

No.	Model	EB-500
	Parameter	
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	3 - 100 mm
5	Outer diameter of the distal end	Φ5.3 mm Allowance: +5%, not considering the lower limit
6	Outer diameter of the bending section	Φ5.7 mm Allowance: +10%, not considering the lower limit
7	Maximum outer diameter of the insertion section	≤ 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
10	Working length	600 mm±10%
11	Total length	870 mm±10%
12	Minimum visible distance of instrument channel	3 mm
13	Illuminance	≥8000 Lx (working distance: 7 mm)
14	Aspirated amount	≥ 200 mL/min
15	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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