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<b>Title</b>	<b>HD-500 Image Processor Technical Specifications</b>			
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## HD-500 Image Processor Technical Specifications



**SonoScape**

SonoScape Medical Corp.

## 1. Overview

HD-500 Image Processor adopts the state-of-the-art technology to provide high-quality endoscopic image.

The built-in workstation of the image processor is used to edit, manage and store medical records and print reports. It can well communicate with the network information system of a hospital.

System maintenance and upgrade can be completed by updating software to achieve product improvements and advanced technology.

The image processor complies with the international standards and regulations.

## 2. Advanced Technologies

- High-definition video
- Image denoise and enhancement
- CHb enhancement
- Automatic equalization of brightness
- Hot plugging of endoscope
- Capacitor touch control

- Intelligent medical record management
- Endoscope identification
- VIST

## 3. Ports

- Endoscope signal input port
- Video output port:
  - DVI port (1)
  - SDI port (1)
  - VGA port (1)
  - S-Video port (1)
  - CVBS port (1)
- Video print control port
- Footswitch port
- Gigabit Ethernet network port (IEEE 802.3)
- USB ports (4)
- RS232 ports (2)
- Light source communication port
- Grounding terminal
- Power supply port

## 4. Specifications

- Resolution  $\geq 1280 \times 720$

- Hot plugging of endoscope
- White balance memory
- Automatic white balance
- Structure enhancement: Mode 1 to 3  
Each mode includes 0 to 8 levels. Structure enhancement includes structure A enhancement and structure B enhancement.
- Edge enhancement: Mode 1 to 3  
Each mode includes 0 to 8 levels
- Color tone adjustment  
Red: -8 to +8; Blue: -8 to +8  
Chroma: -8 to +8
- CHb color enhancement: 0 to 8 levels
- IRIS  
Auto: -9 to +9  
Peak: -9 to +9  
Average: -9 to +9
- Zoom:  $\times 1.4$ ,  $\times 1.6$ ,  $\times 1.8$
- Image freeze/storage:  
Methods: the remote button, keyboard or footswitch
- Display mode: standard/full screen
- CHb color display: On/Off

- Local video recording and playing
- Built-in workstation:  
Medical record management: Medical records can be created, edited, saved, searched, printed, marked with bodymark, viewed in the form of report, backed up and exported.  
Digital image management:  
The image can be acquired, archived, transmitted, displayed, searched and is compatible with DICOM standard.
- Storage capacity: 500GB (standard configuration)
- Support system version update
- Output mode:  
SD: PAL, NTSC  
HD: Full-HD, WUXGA

## 5. Applications

The image processor can be used with the endoscope manufactured by SonoScape. It is used to process endoscopic image in clinical diagnosis and supply power to the endoscope.

## 6. Size & Weight

- Dimensions: 455mm (L) × 370mm (W) × 124mm (H)
- Weight: about 9.5kg

## 7. Monitor (Optional)

- LCD monitor: 23.6 or 24-inch color display
- Resolution: 1920×1080/1920×1200
- Video input port: S-Video (1), CVBS (1), VGA (1), DVI (1), SDI (1)
- Video output port: DVI (1), SDI (1)

## 8. Peripherals

- HDL-500X/HDL-500E Light Source
- 500 Series Endoscopes
- Medical trolley

## 9. Safety Standards

This image processor complies with the following standards:

- IEC 60601-1:2005
- IEC 60601-2-18:2009
- IEC 60601-1-2:2007

## 10. Environment Requirements

- Operation Environments
  - Temperature: 0°C to +40°C
  - Relative humidity: 30% to 80% (non-condensing)
  - Atmospheric pressure: 700 hPa to 1060 hPa
- Storage Environments
  - Temperature: -5°C to +40°C
  - Relative humidity: 30% to 80% (non-condensing)
  - Atmospheric pressure: 700 hPa to 1060 hPa
- Transportation Environments
  - Temperature: -20°C to +55°C
  - Relative humidity: 20% to 90% (non-condensing)
  - Atmospheric pressure: 700 hPa to 1060 hPa
- Safety Types
  - Type of protection against electric shock: Class I equipment

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

- Power Supply Requirements

- Input voltage: AC 100V~240V,  
50/60Hz
- Input power: 160VA

**NOTE:**

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

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