



## HDL-500E Light Source Technical Specifications



**SonoScape**

SonoScape Medical Corp.

## 1. Overview

HDL-500E adopts LED as the main lamp. On the basis of its special luminescence mechanism, the LED can provide higher efficiency and longer lifespan than the traditional halogen lamp and xenon lamp.

## 2. Advanced Technologies

- Aspheric optical technology
- Capacitor touch screen
- Automatic brightness adjustment
- Filtration function

## 3. Functions

- 50W LED
- Filtration
- Instantaneous strong light transmission
- When the endoscope is not connected to the device, light output of the device is shielded by the endoscope port to prevent light pollution.
- Auto brightness adjustment
- Manual brightness adjustment
- Auto switch to spare lamp
- Air blast cooling

- Overheat protection
- Main lamp working time indication

## 4. Specifications

- Air feeding: 4 levels (OFF, L, M, and H)
- Brightness adjustment: 19 levels
- Output light flux of main lamp  $\geq 600$  lumen with tolerance of -10%
- CCT of main lamp: 5000K~7000K
- Color rendering index of main lamp  $\geq 90$
- Applicable optical fiber NA: 0.55
- Light output spot diameter: 5mm
- Average lifetime of main lamp  $\geq 50000$  hours (continuous operation)
- Spare lamp: LED, constant current 0.85A, limiting voltage 2.50~3.25V

## 5. Controls

- Endoscope port
- Air pump connector
- Equipotential terminal

## 6. Compatible Equipment

- Image processor: HD-500
- Video gastroscope: EG-500 and EG-500L

- Video colonoscope: EC-500, EC-500T, EC-500L, and EC-500L/T
- Medical trolley

## 7. Size & Weight

- 460mm×370mm×154mm (L×W×H)
- About 11kg

## 8. Safety Standards

- IEC 60601-1: 1988+A1: 1991+A2: 1995
- IEC60601-2-18: 1996+A1: 2000
- IEC 60601-1-2: 2007

## 9. Environment Requirements

- **Operating Environments**
  - Temperature: 0°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

- **Power Supply**

- Rated voltage: 100~240V AC
- Frequency: 50/60Hz
- Power consumption: 160VA

**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.

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