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Title	**HDL-35E Light Source Technical Specifications**

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HDL-35E Light Source Technical Specification

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1 Overview

The HDL-35E light source adopts the LED as main lamp. On the basis of its special luminescence mechanism, the LED lamp has high illumination, long service life, and high CRI.

2 Advanced Technologies

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

3 Functions

- Lamps: on/off
- Brightness adjustment:
    - Modes: automatic and manual
    - Adjusting levels: 1－19
- Air-feeding pressure adjustment: low/medium/high
- Transillumination function:
    - Press the **TRANS** button to enable this function. If no button is pressed, the transillumination mode can maintain for 6－8 seconds.
    - Press any button to disable the transillumination mode.
- Low brightness protection
- Powering on/off the LED lamp and indications
    - Powering on: Press the **LAMP** button once to turn on the LED lamp and the <LAMP> indicator lights;
    - Powering off: Press and hold the **LAMP** button for 2 seconds to turn off the LED lamp and the <LAMP> indicator lights off.
- Automatic switch to the spare lamp
- Over-heat protection
- Service time indication of the main lamp
- Abnormal report and processing
    Provide LED flashing, buzzer alarming and so on according to the malfunction processing requirements.
- Power-down protection:
    Provide power-down protection for the light control mode, light control level, air pump powering on/off, air pump flow level and service time of the main lamp.

4 Parameters

- Main lamp: LED, 50W
- Air-feeding levels: low/medium/high
- Light control levels: 1－19
- Total luminous flux output of main lamp: ≥ 600lm, allowance: -10%
- Correlated color temperature (CCT): 5000K－7000K
- Color rendering index (CRI): ≥ 90
- Average service time of the main lamp: 50000 hours (continuous use)
- Emergency lamp: LED lamp, 14W Total luminous flux output: ≥ 80lm, allowance: -10%
- Air-feeding system:
    - Air pump flow level: high/medium/low

- – Pressure range: 45Kpa – 65Kpa
- – Maximum air flow volume:
  - ➢ High: 3.7L/min – 5.5L/min
  - ➢ Medium: 3.0L/min – 4.7L/min
  - ➢ Low: 2.0L/min – 3.7L/min

5 Ports

- Endoscope port
- Light source control port
- Power supply port
- Equipotential terminal

6 Compatible Equipment

- Image processor: HD-350, HD-350S and HD-320plus
- Video gastroscope: EG-430 Series
- Video colonoscope: EC-430Series
- Trolley: HDT-330

7 Size & Weight:

- Size: 460mm (L)×370mm (W)×154mm (H)
- Weight: approx. 11kg

8 Safety Standards

- IEC 60601-1:2005+A1:2012
- IEC60601-2-18: 2009
- IEC 60601-1-2:2014

9 Environment Requirements

- Operating environment
  - – Temperature: 0℃ – +40℃
  - – Relative humidity: 30% – 80%（non-condensing）
  - – Atmospheric pressure: 700 hPa – 1060hPa

- Storage environment
  - – Temperature: -5℃ – +40℃
  - – Relative humidity: 30% – 80%（non-condensing）
  - – Atmospheric pressure: 700 hPa – 1060hPa
- Transportation environment
  - – Temperature: -20℃ – +55℃
  - – Relative humidity: 20% – 90% (non-condensing)
  - – Atmospheric pressure: 700 hPa – 1060hPa
- Power supply requirements
  - – Input voltage: 100 – 240V AC
  - – Frequency: 50/60 Hz
  - – Input power: 160 VA

NOTE:

- The specifications of this system 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.

Manufacturer: SonoScape Medical Corp.

Address: Room 201 & 202, 12th Building, Shenzhen Software Park Phase II, 1 Keji Middle

2nd Road, Yuehai Subdistrict, Nanshan District, Shenzhen, 518057, Guangdong, China

Tel: +86-755-26722890

Fax: +86-755-26722850

E-mail: sonoscape@sonoscape.net

www.sonoscape.com