Lullaby LED Phototherapy System
Excellent clinical performance, effortlessly achieved, for a lifetime of savings
It always starts with excellent clinical performance

An astounding 80% of pre-term and 60% of full-term infants are at risk of hyperbilirubinemia. The Lullaby* LED equips you to deliver high-intensity phototherapy to treat this potentially hazardous condition.

**Optimal 458-nm wavelength**
Our LEDs focus tightly on the optimal wavelength (450–465nm) for maximizing bilirubin metabolism.

**Ideal irradiance levels**
With a high irradiance of 45 µw/cm²/nm and a low irradiance at 22 µw/cm²/nm, Lullaby LED allows treatment tailored to each patient’s needs.

**Uniform light distribution**
Our optical design ensures uniform light distribution to the patient’s exposed surface area, maximizing bilirubin breakdown.

Lullaby LED focuses tightly on the optimal 458-nm wavelength for maximum bilirubin metabolism.

![Optimal Care Point](image)

Whisper-quiet operation
Designed with no fan and no other mechanical moving parts, it operates at 22.4 dB(A) – significantly quieter than prescribed IEC guidelines of 60 dB(A).

No spill, no glare
Our innovative optical design minimizes spill light outside the bed so neither caregivers nor other patients receive undesired exposure to light from the Lullaby LED.

The combination of optimal wavelength, high intensity and uniform light distribution yields a 28% faster total serum bilirubin breakdown¹

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¹ Based on calculations from Osaku NO, Lopes HS. A dose response model for the conventional phototherapy of the newborn. Journal of Clinical Monitoring and Computing. 2006;20(3):159-164
Treat the patient, not the equipment
The Lullaby LED PT is designed to be user friendly and provide worry-free operation day after day.

**Removable head** - For seamless use with incubators

**Light weight** - Only 10 kgs for exceptional maneuverability

**Ultra compact** - Small footprint takes minimal space

**Adjustable height** - By up to 47 cm

**Lamp unit tilt** - Up to 90° tilt, allowing use in conjunction with a radiant warmer

**Omnidirectional, small wheels** – Slide under most bassinets or warmers

An investment for today and tomorrow

**Almost 6 years of night and day performance**
Our LEDs are rated to last up to an incredible 50,000 hours before requiring replacement: 50X longer than CFL tubes that require replacement every 1000 hours.

Result? A dramatic reduction in replacement costs, including cost of downtime.

**Only 20-watt power consumption**
Operating at just 20 watts – up to 80% less than other phototherapy systems – the Lullaby LED can offer almost US$400 in energy savings over the life of the LEDs.

2 Before a 30% drop in irradiance. Rating is by LED manufacturer under specified operating conditions

3 Over lifetime of 50,000 hours compared to a 100 Watt phototherapy system, assuming a rate of $0.1 per kWh of electricity

High performance. High productivity.
And a total cost of ownership that’s almost too good to be true.

Introducing the Lullaby LED phototherapy system with cutting-edge LED technology. It’s just what you would expect from a system that builds on the Lullaby legacy. Because every baby deserves the highest standard of care.
Specifications

Performance specifications

- **Spectral irradiance**
  - High irradiance mode: > 45 µW/cm²/nm
  - Low irradiance mode: > 22 µW/cm²/nm

- **Wavelength range**
  - Dominant wavelength range of 450-465 nm

- **LED lamps**
  - LED lamps are rated to last up to 50,000 hours at high power (with 30% lumen depreciation)

- **Maximum noise level**
  - 22.4 dB (A)

Physical specifications

- **Overall dimensions**
  - 530 mm x 550 mm x 1700 mm (at maximum height)

- **Total unit weight**
  - 10 kg

- **Footprint**
  - 530 mm x 550 mm

- **Height adjustment**
  - 1130 mm to 1600 mm from light source to floor (Adjustment of 470 mm)

- **Lamp unit weight**
  - 2 Kg

- **Lamp unit dimensions**
  - 360 mm x 230 mm x 80 mm

- **Lamp unit tilt**
  - Continuous up to 90°

- **Effective surface area**
  - 50 cm x 30 cm at 35 cm from the light source

- **Uniformity ratio**
  - > 0.4 (IEC Compliant)

Packaging details

- **Box dimensions**
  - 1070 mm x 500 mm x 210 mm

- **Total package weight**
  - 13.5 Kg

Electrical specifications

- **20 W maximum at 100-240 V ~ 50/60 Hz**

- **Overheat protection**
  - Power cutoff for temperature ≥ 85° C

- **Touch current**
  - Less than 500 µA at 264 VAC RMS (power on) with ground intact for normal and reverse polarity and with ground open for normal and reverse polarity

Environmental operations

- **Ambient temperature**
  - +10° C to +60° C

- **Humidity**
  - 20% to 95% RH non-condensing

- **Atmospheric pressure**
  - 70 kPa to 106 kPa

Storage and transportation requirements

- **Temperature**
  - 0° C to +70° C

- **Humidity**
  - 10% to 95% RH non-condensing

- **Atmospheric pressure**
  - 50 kPa to 106 kPa

Regulatory standards

- **IEC class 1**
  - TUV Rheinland CB certified to the following standards: IEC 606001-2-50; IEC 60601-1; IEC 60601-1-2

- **EMC class–A**
  - Certified under IECEE CB scheme CISPR 11, group 1

The Lullaby LED is backed by GE Healthcare, a stable partner with global resources to provide you with prompt, expert service support when you need it. Contact your GE Healthcare representative.

About GE Healthcare

Healthymagination is GE’s $6 billion commitment to improve health care access, affordability and quality through advanced technologies, research and development.

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