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 (450–465 nm) 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.

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

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.
Specifications

Performance specifications

Spectral irradiance
* Using an Ohmeda Medical BiliBlanket* Meter II

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 +40° 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 IECCE 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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GE imagination at work