



**B!LUXY**  
Phototherapy Device

**B!LUXY PT-10**  
Infant Led Phototherapy



## BioLuxy PT-10 is engineered to deliver superior healthcare solutions

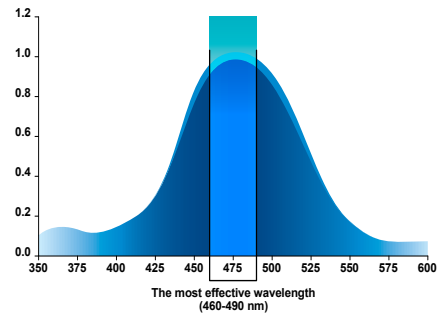
Jaundice affects approximately 60% of full-term newborns and up to 80% of premature infants globally, posing risks of irreversible brain damage.

The BioLuxy system offers high-intensity LED phototherapy to effectively treat this serious condition, ensuring safe and efficient care for neonates.

### The Most Effective Wavelength: (450-465nm)

The most effective light in the blue region.

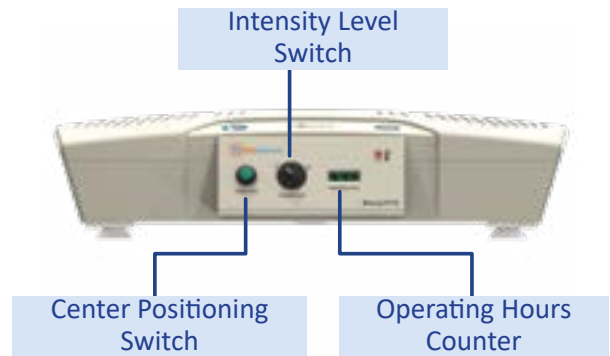
(450-465nm) for maximizing bilirubin breakdown.



### Irradiance levels & center positioning button

With a high irradiance of  $45 \mu\text{W}/\text{cm}^2/\text{nm}$  and low irradiance  $> 20 \mu\text{W}/\text{cm}^2/\text{nm}$ , BioLuxy allows treatment proportional with the need for the patient.

The red laser LED is used to locate the center point of blue light irradiation, ensuring that the baby receiving phototherapy is in the center of the irradiation area.

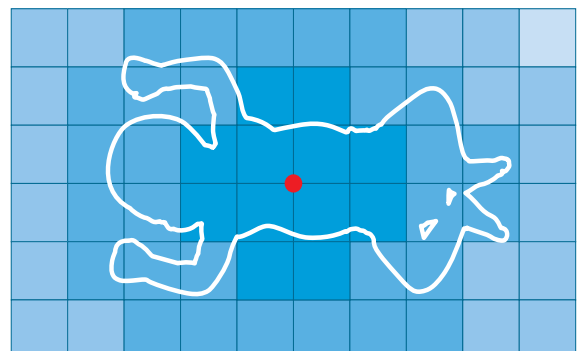


### Uniform Light Distribution

BioLuxy design ensure uniform light distribution to expose a large amount of infant's skin for treatment and maximizing bilirubin breakdown.

Key ( $\mu\text{W}/\text{cm}^2/\text{nm}$ )

10-20
20-30
30-40
40-50



## BioLuxy PT-10 Specifications

### Technical Specification

<b>Wavelength Range</b>	Dominant Wave Length Range of 450-465 nm
<b>Irradiance</b>	High Irradiance Mode: > 45 $\mu$ W /cm <sup>2</sup> /nm Irradiance Mode: > 22 $\mu$ W /cm <sup>2</sup> /nm
<b>Number of Irradiance Intensity</b>	2 Levels
<b>Light Type</b>	Blue-Light
<b>Light Source</b>	LED
<b>Number of LEDs</b>	12 LEDs
<b>Light Source Safety</b>	Thermal Protection
<b>Working Hours For The LED Unit</b>	50,000 Working Hours
<b>Effective Working Area</b>	60 X 30 cm, 35 cm From LED Assembly
<b>Baby's Center Pointer</b>	Red Laser LED
<b>Working Hours Meter</b>	LCD Displaying Working Hours
<b>Alarms</b>	Visual LED in Case of High Temperature, Hardware malfunction
<b>Maximum Noise Level</b>	22.4 dB (A)

### Environmental operations

<b>Ambient Temperature</b>	+5° to +40° C
<b>Humidity</b>	15% to 95% RH Non-Condensing
<b>Atmospheric Pressure</b>	700 hpa-1060 hpa

### Electrical Specifications

<b>Power Supply</b>	100-230 V 50-60 Hz
<b>Power</b>	60W

### Physical specifications

<b>LED Unit Dimensions</b>	43X25X8 cm
<b>LED Unit Tilt Angle</b>	continuous 90°
<b>Trolley Height</b>	112-160 cm (Adjustable)
<b>Trolley Base Dimensions</b>	55 X 45 cm
<b>Trolley Material</b>	Anti Corrosion Material
<b>LED Unit Weight</b>	2 kg
<b>Total Weight</b>	11.5 kg



## Regulatory standards

IEC 60601-1

IEC 60601-1-2

IEC 606001-2-50

# LUXY METER

Ensure optimal light intensity for neonatal jaundice treatment with our Lux Meter. Designed for precise measurement, it helps monitor phototherapy light levels, ensuring safe and effective bilirubin breakdown in newborns. Reliable and easy to use, it's an essential tool for maintaining the right treatment environment.



## Luxy Meter Specifications

<b>Min. Effective Spectral Range</b>	415 nm
<b>Max. Effective Spectral Range</b>	680 nm
<b>Irradiance Range</b>	0-107.67 $\mu$ W/cm <sup>2</sup> /nm
<b>Accuracy</b>	$\pm$ 10%
<b>Probe</b>	Built-in
<b>Battery</b>	3Volt 2AA batteries
<b>Screen</b>	OELD 1.3 inch
<b>Dimensions</b>	170 mm x 70 mm x 30 mm
<b>Weight</b>	140 g



Pending



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