

BRILLIANCE PRO TOP & BOTTOM PHOTOTHERAPY

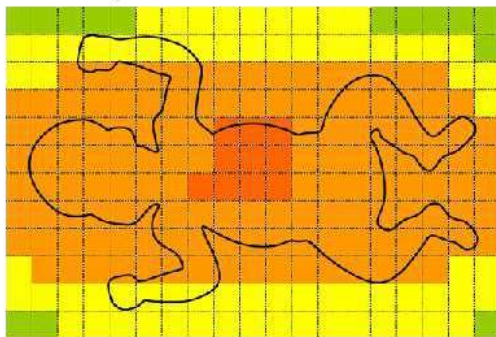
EFFECTIVE • INTENSIVE • SLEEK



Comparative Irradiance Footprint

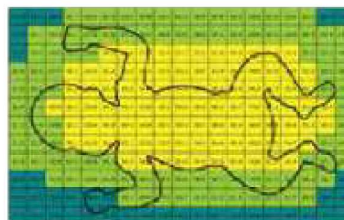
Irradiance maps for LED-based phototherapy devices, Brilliance and a leading US-based competitor. The American Academy of Pediatrics (AAP) recommends an irradiance of $\geq 30 \mu\text{W}/\text{cm}^2/\text{nm}$ over maximum possible body surface area for effective phototherapy.

Brilliance

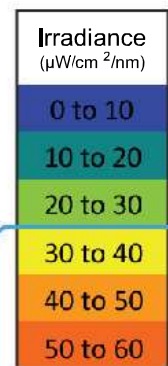


Scale: 1 square = 1 in²

Leading US-based competitor



American Academy of Pediatrics (AAP)
intensive phototherapy standard:
 $\geq 30 \mu\text{W}/\text{cm}^2/\text{nm}$



BRILLIANCE PRO

Integrated Light Meter (available)	✓
SmartTilt Technology	✓
LED Lifetime	>100,000 hours
LED Intensity	>40 μ W/cm ² /nm
High & Low Settings	✓
Peak Wavelength of Light	451nm
Tilting Head	0–90°
Adjustable Height	✓
Therapy Timer	✓
Backlit LCD	✓
Observation Lights (available)	✓
No Maintenance Cooling (no fan)	✓
CE Mark	✓
Product Launch Date	January 2015

World-Class Treatment

- ❑ Emission spectrum 445–470nm(FWHM)
- ❑ Uniform intensity >40 μ W/cm²/nm
- ❑ Effective treatment area 50cm x25cm

Integrated Design

Brilliance is designed for versatility of use. Brilliance can be integrated with other critical medical equipment such as infant warmers, incubators, and nearly any variety of bassinet.

SmartTilt Technology

Patent-pending technology to ensure that light intensity from blue LEDs is consistent across the treatment footprint at any angle of head-tilt. SmartTilt ensures that Brilliance Pro works effectively at any position and in cooperation with other pieces of neonatal intensive care unit (NICU) equipment.

Energy Efficient

Brilliance consumes less than half the power of CFLs.

Minimal Maintenance

Brilliance LEDs last 60x longer than compact fluorescent lamps (CFL) commonly used in phototherapy devices. With Brilliance, hospitals can save over \$240 USD per year on costly bulb replacements. Also, Brilliance uses a medical-grade power supply and can withstand a wide range of power fluctuations without changes in device performance.

Made in India, designed in USA

Physical / Electrical	
Overall Dimensions	Height x Width x Depth: 123cm x 69cm x 64cm
Light Unit Dimensions	Length x Width x Depth: 55cm x 30cm x 5cm
Total Unit Mass	12 kg
Footprint of Stand	Length x Width x Depth: 69cm x 64cm x 10cm
Height of base	< 10cm
Castors	2", Lockable
Height adjustment range	118cm–165cm (distance between bottom surface and ground)
Recommended treatment distance	45cm
Electrical supply • Voltage • Frequency	(Medical grade) 100 – 240 VAC ~ 50/60Hz
Max power consumption	42W

Performance	
Illumination source	Blue LEDs + White observation lights
Peak spectral irradiance	>40 μ W/cm ² /nm at recommended treatment distance measured with Ocean Optics Spectrophotometer
Peak wavelength	451nm
Emission spectrum	445–470nm (bounds of FWHM range)
Effective surface area	50cm x 25cm (at recommended treatment distance)
Irradiance ratio	>0.4 (minimum /maximum irradiance)
Time totalizer	Machine run time totalizer + Therapy time totalizer
LCD	Backlit

(BRILLIANCE BOTTOM)

Physical feature

Peak spectral irradiance
Bassinet dimensions
Bassinet height from floor
Total unit mass
Casters
Bassinet tilting
Time totalizers

Safe working load

Electrical Supply Specifications:

Electrical supply

Voltage
Frequency
Maximum power consumption
Expected life of the LED

Environmental Specifications:

Environmental feature

Ambient temperature
Relative humidity (non-condensing)
Atmospheric pressure

Electrical Classifications

Feature

Type of protection against electrical shock
Degree of protection against electrical shock
Mode of operation

Conformity with standards

- IEC 60601-1
- IEC 60601-1-2
- IEC 60601-2-50

Specification – Bottom unit

> 30 $\mu\text{W}/\text{cm}^2/\text{nm}$ at infant bed
Length x Width x Depth: 78 cm x 52 cm x 15 cm
94 cm
<24 kg
4" Castors, Lockable
Up to 12°
Non-resettable Total therapy time
Resettable Patient therapy time (optional)
 $\leq 10\text{Kg}$ on infant bed

Specification

110-230VAC ~
50/60Hz, single phase
20W
50000 Hours

Operating Specification*

10 °C to 35 °C
0% to 90% Rh
70 kPa to 106 kPa

Transport/Storage Specification

0 °C to 50 °C
0% to 90% Rh
50 kPa to 106 kPa

Classification

Class 1
Type B
Continuous
Brilliance Bottom phototherapy – IPX3

CE 0123

CDSO Registration No. : 000378 / 2020

Cat. No. 7.2.3 - 34 / 04 / June 2020

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