

# BRILLIANCE

WORLD-CLASS PHOTOTHERAPY



## BRILLIANCE PRO

|                                   |                |
|-----------------------------------|----------------|
| SmartTilt Technology              | ✓              |
| LED Lifetime                      | >100,000 hours |
| LED Intensity ( ±25% )            | >40μW/cm²/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)   | ✓              |
| Integrated Light Meter (Optional) | ✓              |
| CE Mark                           | CE 0123        |
| Product Launch                    | January 2015   |



\* Bassinet (Optional)

## World-Class Treatment

- ❑ Emission spectrum 445–470nm( FWHM )
- ❑ Uniform intensity >40μW/cm<sup>2</sup>/nm
- ❑ Effective treatment area 50cm x25cm

## Integrated Design

Brilliance is designed for versatility of use. Brilliance can be integrated with other critical medical equipments 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

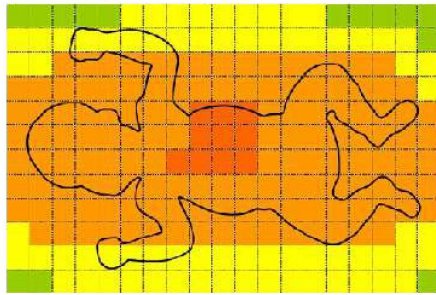
Brilliance LEDs last 60x longer than compact fluorescent lamps (CFL) commonly used in phototherapy devices. With Brilliance, hospitals can save over \$240 USD per year on costly bulb replacements. Also, Brilliance uses a medical-grade power supply and can withstand a wide range of power fluctuations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

Made in India, designed in USA

## Comparative Irradiance Footprint

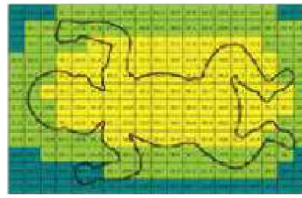
Irradiance maps for LED-based phototherapy devices, Brilliance and a leading US-based competitor. The American Academy of Pediatrics (AAP) recommends an irradiance of ≥30μW/cm<sup>2</sup>/nm over maximum possible body surface area for effective phototherapy.

Brilliance

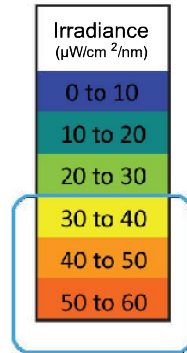


Scale: 1 square = 1 ir<sup>2</sup>

Leading US-based competitor



American Academy of Pediatrics (AAP) intensive phototherapy standard: ≥30μW/cm<sup>2</sup> /nm



| Physical / Electrical          |  |
|--------------------------------|--|
| Overall Dimensions             | Height x Width x Depth:<br>123cm x 69cm x 64cm           |
| Light Unit Dimensions          | Length x Width x Depth:<br>55cm x 30cm x 5cm             |
| Total Unit Mass                | 12 kg  |
| Footprint of Stand             | Length x Width x Depth:<br>69cm x 64cm x 10cm            |
| Height of base                 | < 10cm   |
| Castors                        | 3 Lockable   |
| Height adjustment range        | 118cm–165cm (distance between bottom surface and ground) |
| Recommended treatment distance | 45cm   |
| Electrical supply              | (Medical grade)  |
| • Voltage                      | 100 – 240 VAC ~  |
| • Frequency                    | 50/60Hz  |
| Max power consumption          | 42W  |

CDSO Registration No. : 000378 / 2020

| Performance              |  |
|--------------------------|--|
| Illumination source      | Blue LEDs + White observation lights   |
| Peak spectral irradiance | >40μW/cm <sup>2</sup> /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  |

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