

# 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)

**PHOENIX**  
Phoenix Medical Systems (P) Ltd.

  
**REMEDIC SERVICES & SUPPLIES SDN BHD**  
201301029596 (1059426-D)

### World-Class Treatment

- ❑ Emission spectrum 445–470nm( FWHM )
- ❑ Uniform intensity >40 $\mu$ W/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

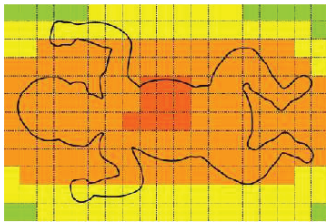
Brilliance LEDs last 60x longer than compact fluorescent lamps (CFL) commonly used in phototherapy devices. With Brilliance, hospitals can save over \$240 USD per year on costly bulb replacements. Also, Brilliance uses a medical-grade power supply and can withstand a wide range of power fluctuations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

Made in India, designed in USA

## Comparative Irradiance Footprint

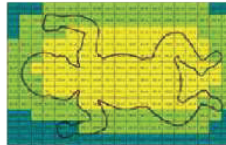
Irradiance maps for LED-based phototherapy devices, Brilliance and a leading US-based competitor. The American Academy of Pediatrics (AAP) recommends an irradiance of  $\geq 30\mu$ W/cm<sup>2</sup>/nm over maximum possible body surface area for effective phototherapy.

Brilliance

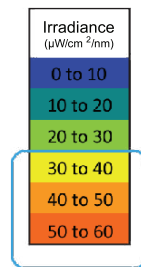


Scale: 1 square = 1 in<sup>2</sup>

Leading US-based competitor



American Academy of Pediatrics (AAP) intensive phototherapy standard:  $\geq 30\mu$ W/cm<sup>2</sup>/nm



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	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

Performance	
Illumination source	Blue LEDs + White observation lights
Peak spectral irradiance	>40 $\mu$ W/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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