



BRILLIANCEPRO

Integrated Light Meter (available)	✓
SmartTilt Technology	✓
LED Lifetime	120,000 hours
LED Intensity ($\pm 25\%$)	$>45\mu\text{W}/\text{cm}^2/\text{nm}$
Recommended Treatment Distance	45cm
Effective Treatment Range	35-65cm
High & Low Settings	✓
Peak Wavelength of Light	450-465nm
Tilting Head	0–90°
Adjustable Height	✓
Therapy Timer	✓
Backlit LCD	✓
Observation Lights	✓
No Maintenance Cooling (no fan)	✓
CE Mark	CE 0843
Product Launch Date	January 2015
Base Retail Price with one (1) year warranty	\$400 USD

World-Class Treatment

- Peak wavelength 450–465nm
- Uniform intensity $>45\mu\text{W}/\text{cm}^2/\text{nm}$
- Effective treatment area $>1300\text{cm}^2$

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 with other newborn care equipment.

Energy Efficient

Brilliance consumes less than half the electricity of CFLs.

Minimal Maintenance

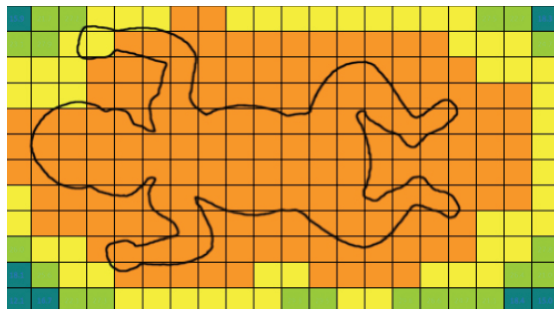
Brilliance LEDs last 60x longer than compact fluorescent lamps (CFL) commonly used in phototherapy devices. With Brilliance, hospitals can save over \$240 USD per year on costly bulb replacements. Also, Brilliance can withstand a wide range of power fluctuations without changes in device performance.

Made in India, designed in USA

Comparative Irradiance Footprint

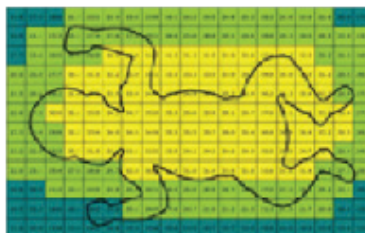
Irradiance maps for LED-based phototherapy devices, Brilliance and a leading US-based competitor. The American Academy of Pediatrics (AAP) recommends a uniform irradiance of $\geq 30\mu\text{W}/\text{cm}^2/\text{nm}$ over maximum possible body surface area for effective phototherapy.

Brilliance

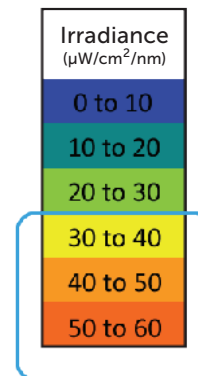


Scale: 1 square = 1 in²

Leading US-based competitor



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



Physical / Electrical	
Overall Dimensions	Height x Width x Depth: 165cm x 69cm x 64cm
Light Unit Dimensions	Length x Width x Depth: 53cm x 30cm x 5cm
Total Unit Mass	20 kg
Footprint of Stand	Length x Width x Depth: 69cm x 64cm x 10cm
Height of Base	< 10cm
Castors	2 Lockable
Height Adjustment Range	110cm–160cm (distance between bottom surface and ground)
Recommended Treatment Distance	35cm
Effective Treatment Range	35-65cm
Electrical Supply	(Medical grade)
• Voltage	100 – 240 VAC ~
• Frequency	50/60Hz
Max Power Consumption	25W

Performance	
Illumination Source	Blue LEDs + White observation lights
Peak Spectral Irradiance	>45±25% at recommended treatment distance (measured with Ohmeda Medical BiliBlanket II Meter)
Peak Wavelength	450–465nm
Emission Spectrum	445–470nm (bounds of FWHM range)
Effective Surface Area	>1300cm ² at recommended treatment distance
Irradiance Ratio	>0.4 (minimum/maximum irradiance)
Time Totalizer	Machine run time totalizer + Therapy time totalizer
LCD	Backlit

Product specifications based on "The Need to Implement Effective Phototherapy in Resource-Constrained Settings" paper by Dr. Vinod Bhutani & Hendrik Vreman, published 2011.

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