

BRILLIANCE

WORLD-CLASS PHOTOTHERAPY



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

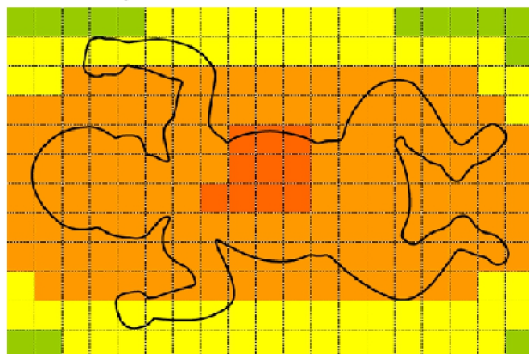
Brilliance LEDs last 60x longer than compact fluorescent lamps (CFL) commonly used in phototherapy devices. With Brilliance, hospitals can save over \$240 USD per year on costly bulb replacements. Also, Brilliance uses a medical-grade power supply and can withstand a wide range of power fluctuations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

Made in India, designed in USA

Comparative Irradiance Footprint

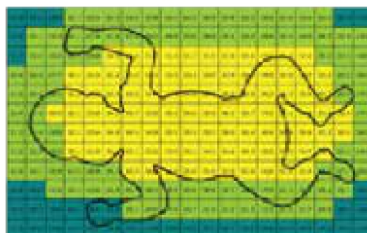
Irradiance maps for LED-based phototherapy devices, Brilliance and a leading US-based competitor. The American Academy of Pediatrics (AAP) recommends an irradiance of $\geq 30 \mu\text{W}/\text{cm}^2/\text{nm}$ over maximum possible body surface area for effective phototherapy.

Brilliance

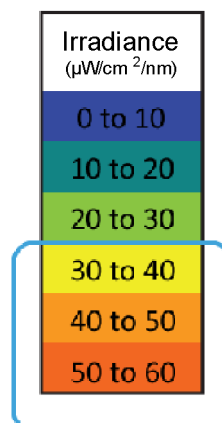


Scale: 1 square = 1 in²

Leading US-based competitor



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



| 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 | $>40 \mu\text{W}/\text{cm}^2/\text{nm}$ 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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