

The **neoBLUE** LED Phototherapy System incorporates optimal blue LED technology for the treatment of newborn jaundice.



Meets AAP Guidelines for intensive phototherapy¹

Intensity: Delivers intensive phototherapy: $> 30 \ \mu W/cm^2/nm$.

Spectrum: Utilizes blue light emitting diodes (LEDs)

 neoBLUE LEDs emit blue light in the 450-470 nm spectrum matching the peak absorption wavelength (458 nm) at which bilirubin is broken down²

Surface area coverage: Exposes length of baby from head to toe.



neoBLUE system positioned on an incubator

Safe

- neoBLUE LEDs do not emit light in the ultraviolet (UV) range
 reducing the potential risk of skin damage
- neoBLUE LEDs do not emit light in the infrared radiation (IR) range
 reducing the potential risk of fluid loss

Designed for efficacy and precision

- With a simple flip of a switch, change from single (> 12 μ W/cm²/nm) to double (> 30 μ W/cm²/nm) phototherapy
- Unique red target light enables precise centering of light over baby

Designed for convenience

- Light enclosure is compact in size and lightweight
- Smooth, curved edges of light enclosure provide added safety and ease in handling
- Roll stand includes a gas shock mechanism, which maintains a safe height during pole adjustments

Designed for multiple configurations

- Can be easily adjusted both horizontally and vertically, and tilted over a wide angle range
- Rubber feet supplied with light enclosure allowing stable placement directly onto incubators
- Base of roll stand is designed to easily slide under most incubators and cribs

Optimal efficiency

- neoBLUE LEDs reduce costly and timeconsuming bulb replacements by providing thousands of hours of use
- Life testing has shown neoBLUE LEDs can emit high intensity phototherapy for over 20,000 hours*
- Biomedical engineers can adjust the output of the neoBLUE LEDs using a potentiometer
- Device timer assists in tracking overall usage of neoBLUE LED panel
- neoBLUE LED panel is field serviceable no downtime associated with patient care



neoBLUE LEDs emit blue light in the 450-470 nm spectrum. This range corresponds to the peak absorption wavelength (458 nm) at which bilirubin is broken down.



neoBLUE system shown with drape accessory

Ordering information

Item	Part Number	
neoBLUE LED Phototherapy System (includes light enclosure and roll stand) Light Enclosure (available separately) Roll Stand (available separately) Drape for neoBLUE 3 Light	010066 001376 030704 001241	E.
Biliband Eye Protectors Regular Size Premature Size Micro Size	900642 900643 900644	

Technical specifications

Blue and Yellow LEDs - Blue: Peak between 450 and 470 nm - Yellow: Peak between 585 and 595 nm	
 Peak central intensity at 12 in (30.5 cm) > 12 μW/cm2/nm > 30 μW/cm2/nm < 10% (within illumination area) 20 x 10 in (50 x 25 cm) > 0.4 (minimum to maximum) < 18° F (10° C) warmer than ambient 	
85–264V~, 47 to 63 Hz 3A, 100-240V~, 50/60 Hz	
4A @ 100-120V~, 50/60 Hz 2A @ 200-240V~, 50/60 Hz	
< 100 µA < 60 dB	
< 6 ft (1.83 m) < 8.0 lbs (3.6 kg) (light enclosure only) < 40 lbs (18 kg) (with roll stand)	
59° F to 95° F (15 to 35° C) / 0% to 90% non condensing -22° F to 122° F (-30 to 50° C) / 0% to 90% non condensing	
adjustable from 42 to 59 ± 3 inches (1.07 m to 1.50 m \pm 7.6 cm) adjustable from less than 9 to 13 \pm 1 inche (22.9 cm to 33 cm \pm 2.5 cm) 0° (horizontal) to approx. 40° < 4 inches (10.2 cm) 5 legs with casters (2 locking casters)	

Note: Specifications are subject to change without notice.

1 Subcommittee on Hyperbilirubinemia. American Academy of Pediatrics clinical practice guideline: Management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation. Pediatrics. 2004; 114(1):297-316

2 Vreman HJ, et al. Light-emitting diodes: a novel light source for phototherapy. Pediatric Research. 1998; 44(5):804-809 *Actual results may vary based on environmental factors and adjustments to the potentiometer.

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