



The **neoBLUE mini** LED Phototherapy System provides all the benefits of blue LED technology in a portable and compact size



neoBLUE mini system used with a radiant warmer

Most effective degradation of bilirubin¹

The neoBLUE mini system meets AAP Guidelines for intensive phototherapy.²

- **Intensity:** Delivers intensive phototherapy for thousands of hours: $> 30 \mu\text{W}/\text{cm}^2/\text{nm}$
- **Spectrum:** Utilizes special 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 down¹

Safe

- Light can be placed as close to the infant as needed without compromising safety
- 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

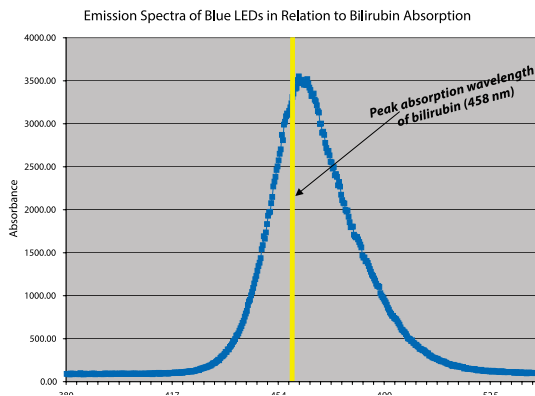
Designed for multiple configurations and patient care settings

- Includes adjustable arm with pole mount
 - Mounts easily onto radiant warmers or incubators – ideal in locations with limited space
 - Mounts easily onto a roll stand for use with bassinets
- Can be configured to cover various surface areas
 - Provides uniform coverage over defined treatment area



Optimal efficiency

- neoBLUE LEDs reduce costly and time-consuming bulb replacements by providing thousands of hours of use
- Life testing has shown neoBLUE LEDs can emit high intensity phototherapy for over 40,000 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.



Ordering information

Item	Part number
neoBLUE mini LED Phototherapy System, 110V	010101
Biliband Eye Protectors	
Regular Size	900642
Premature Size	900643
Micro Size	900644



Technical specifications

Light source	Blue and Yellow LEDs
Wavelength	- Blue: Peak between 450 and 470 nm - Yellow: Peak between 585 and 595 nm
Intensity	Peak central intensity at 12 in (30.5 cm) > 30 μW/cm ² /nm
Variation in intensity over 6 hrs	< 10% (within illumination area)
Effective treatment area	40 square inches (258.1 square cm) Approximately 8 x 5 inches (20.3 cm x 12.7 cm)
Intensity ratio	> 0.4 (minimum to maximum)
Heat output	< 18° F (10° C) warmer than ambient (at 12 inches (30.5 cm) over 6 hrs)

Electrical mains	85–264V~, 47 to 63 Hz
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Safety	
Leakage current	< 100 μA
Audible noise	< 60 dB

Dimensions	
Light	7.5 x 5.5 x 2 inches (19 x 14 x 5 cm) ± 10%
Light with Arm	< 6 lbs (2.7 kg)
Arm	Extends to over 32 inches (over 81 cm)
Pole Mount	The arm is designed to attach to poles with 0.75 to 1.5 inch (1.9 to 3.8 cm) diameters

Environmental	
Operating temperature/humidity	59° F to 95° F (15 to 35° C) / 0% to 90%
Storage temperature/humidity	-22° F to 122° F (-30 to 50° C) / 0% to 90% non condensing

Regulatory standards	Type BF
	IEC 60601-1-1
	IEC 60601-1-1-2
	IEC 60601-2-50
	CSA C22.2 601.1

Note: Specifications are subject to change without notice.

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

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