natus
newborn care

neoBLUE® compact
LED Phototherapy

The neoBLUE compact LED Phototherapy System provides intensive blue light in a versatile & efficient design for treating newborn jaundice

- Color balanced with clinicians & family in mind
- Includes a brilliant white exam light
- Configurable for various use settings

The neoBLUE compact LED Phototherapy System provides incredible perform

Meets AAP Guidelines for Intensive Phototherapy[1]

- INTENSITY: Features 2 intensity settings to switch between standard (15 µW/cm²/nm) and intensive (35 µW/cm²/nm) phototherapy
- SPECTRUM: Utilizes blue light emitting diodes (LEDs) to emit blue light in the 450-470 nm spectrum, matching the peak absorption wavelength (458 nm) at which bilirubin in broken down[2]
- SURFACE AREA COVERAGE: Exposes a large amount of the infant's skin to treatment

neoBLUE compact system positioned with suction cup feet on top of an incubator

Smart Arm Design

- Arm rotating joints and gooseneck provides multiple adjustment with drift-free positioning
- Light and arm can be easily moved out of the way to attend to baby
- Nurses can easily attach and remove the light and arm at the bedside without tools

Designed for Multiple Configurations

- Use the light independently by placing directly on top of an incubator
- Combine with the arm for attaching to the pole mount accessory of most incubators and radiant warmers
- Attach the light and arm to the roll stand and use for infants in a bassinet, open bed, incubator or radiant warmer

neoBLUE compact system with arm attached to the pole mount on a radiant warmer

Safe

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

neoBLUE compact system positioned with arm & roll stand over a bassinet

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.

nance and value with many user-selectable features

DESIGNED FOR CONVENIENCE & EASE-OF-USE

Easily switch between blue treatment light and white exam light

Two intensity settings, adjustable to accommodate different treatment needs and use environments

Indicator lights to ensure light has power connected and is working properly

Treatment timer allows for tracking of the total number of treatment hours per patient

Device timer assists in tracking overall usage of the neoBLUE LEDs

Suction cup feet to secure on top of flat or curved incubator tops

neoBLUE LEDs reduce costly and time-consuming bulb replacements by providing over **40,000 hours** of use at high intensity[3]

Color Balanced for Clinicians & Family

- Twelve blue LEDs are mixed with a small amount of light from the white LEDs to soften the appearance of the blue treatment light while maintaining treatment efficacy
- Nurses and family sensitive to blue light will appreciate the softer baby blue appearance of the light

Brilliant White Exam Light

- Nine white LEDs provide bright illumination
- Neutral white light provides (true) color – ideal for general examination
- Perfect for monitoring babies, skin assessments, starting IVs, labs and basic exams
- Provides cost and space efficient solution with added functionality

[3]Actual results may vary based on environmental factors and adjustments to the intensity settings.

Ordering information

ITEM	PART NUMBER
neoBLUE compact LED Phototherapy System	
(includes light only)	
US configuration	019001
EU configuration	019002
UK configuration	019003
AUS configuration	019004
neoBLUE compact system w/Arm	
(includes light and arm)	
US configuration	019011
EU configuration	019012
UK configuration	019013
AUS configuration	019014
Arm (available separately)	019030
Roll Stand (sold separately)	019040
Biliband® Eye Protectors	
Regular Size	900642
Premature Size	900643
Micro Size	900644

BiliCare™ Transcutaneous Bilirubin Meter[2] (P/N 81000200)

neoBLUE Radiometer[2] (P/N 53870-INT)

neoBLUE compact system shown with NatalCare LX Drape (P/N 013138)

Technical specifications

Light Source	Blue and White LEDs
Wavelength	Blue: Peak between 450 and 470 nm
Intensity	Peak intensity at 35 cm (13.75 in)
Factory setting	
Low	15 ±2 µW/cm2/nm (total irradiance 1200 µW/cm²)
High	35 ±2 µW/cm2/nm (total irradiance 2800 µW/cm²)
Adjustable setting	
Low	Approx. 10-35 µW/cm²/nm
High	Approx. 30-55 µW/cm²/nm
Variation in intensity over 6 hrs	< 1% (based on peak value within illumination area)
Effective surface area at 35 cm (13.75 in)	> 700 cm² (108.5 in²) Approx. 29 x 25 cm (11.4 x 9.8 in)
Intensity ratio	> 0.4 (minimum to maximum within effective surface area)
Heat output at 35 cm (13.75 in) over 6 hrs	< 3° F (1.7° C) warmer than ambient on mattress surface
LED life	> 40,000 hours of use at factory settings[1]
White Exam Light	
Color Temperature	Approx. 4300K
Illuminance	Approx.10,000 lux / 35 cm (13.75 in)
Electrical Mains	0.7A, 100-240V~, 50/60 Hz
Safety	
Leakage current	< 100 µA
Audible Noise	< 40 dB
Weight	
Light	< 1.2 kg (2.6 lbs)
Arm	< 1.8 kg (4.0 lbs)
Roll Stand	< 10.9 kg (24 lbs)
Roll Stand (with Light and Arm)	
Height of lens from ground	adjustable from approx. 1.24 to 1.57 m (49 to 62 in)
Center of lens from post	adjustable up to approx. 61 cm (24 in) at fully extended arm
Tilt adjustment of enclosure	total rotation angle of arm's interface block approx.55°
Clearance of base from floor	< 10.2 cm (4 in)
Base	5 legs with locking casters
Environmental	
Operating Temperature/Humidity	41° F to 95° F (5 to 35° C) / 10% to 90% non-condensing
Storage Temperature/Humidity	-22° F to 122° F (-30 to 50° C) / 5% to 95% non-condensing
Altitude/Atmospheric Pressure	-1000 feet to +20,000 feet (50 kPa to 106 kPa)
Regulatory Standards	IEC 60601-1: Editions 2 and 3 IEC 60601-2-50, Editions 1 and 2 IEC 60601-1-2: Editions 3 and 4 (EMC) IEC 60601-1-6: 2010 (Usability)

Note: Specifications are subject to change without notice.
[1]Actual results may vary based on environmental factors and adjustments to the intensity settings.
[2]Not available in all markets.

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