

neoBLUE® compact

LED Photothérapie

The neoBLUE compact

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

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



- 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 performance and value with many user-selectable features

Meets AAP Guidelines for Intensive Phototherapy¹

- ▶ **INTENSITY:** Features 2 intensity settings to switch between standard ($15 \mu\text{W}/\text{cm}^2/\text{nm}$) and intensive ($35 \mu\text{W}/\text{cm}^2/\text{nm}$) 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 is broken down²
- ▶ **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

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



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

Safe

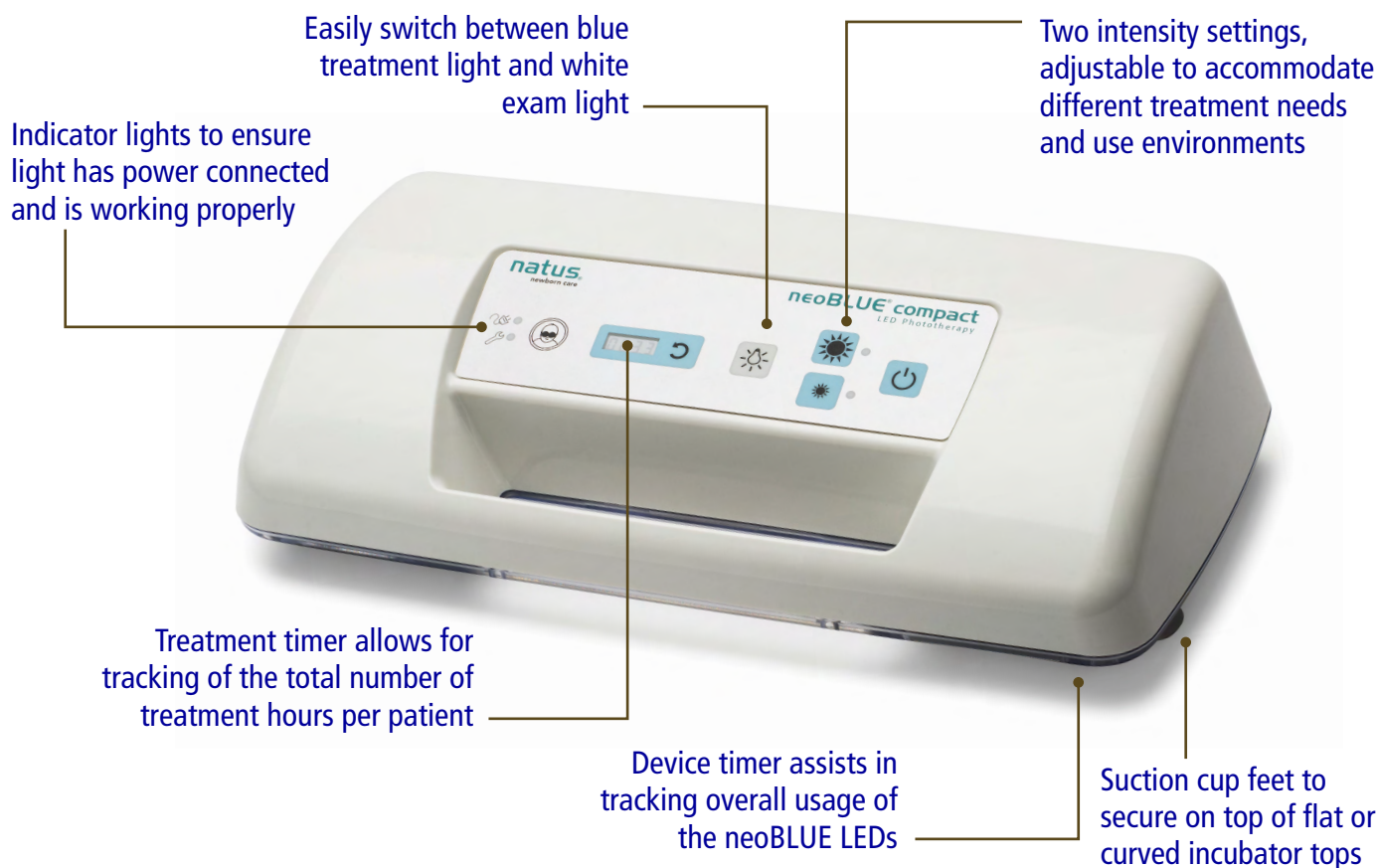
- ▶ neoBLUE LEDs do not emit significant ultraviolet (UV) light – reducing the potential risk of skin damage
- ▶ neoBLUE LEDs do not emit significant infrared (IR) light – reducing the potential risk of fluid loss



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.

DESIGNED FOR CONVENIENCE & EASE-OF-USE



neoBLUE LEDs reduce costly and time-consuming bulb replacements by providing over **40,000 hours** of use at high intensity³

Ordering information

ITEM	PART NUMBER
neoBLUE compact LED Phototherapy System (includes light only)	
EU configuration	028-019002
neoBLUE compact system w/Arm (includes light and arm)	
EU configuration	028-019012
Arm (available separately)	028-019030
Roll Stand (sold separately)	028-019040
Biliband® Eye Protectors	
Regular Size	028-900642
Premature Size	028-900643
Micro Size	028-900644



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

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/cm ² /nm (total irradiance 1200 µW/cm ²)
High		35 ± 2 µW/cm ² /nm (total irradiance 2800 µW/cm ²)
Adjustable setting		
Low		Approx. 10-35 µW/cm ² /nm
High		Approx. 30-55 µW/cm ² /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 cm ² (108.5 in ²) 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.

¹Actual results may vary based on environmental factors and adjustments to the intensity settings.

²Not available in all markets.



**BiliCare™ Transcutaneous
Bilirubin Meter²
(P/N 028-81000200)**



**neoBLUE
Radiometer²
(P/N 028-53870-INT)**



**neoBLUE compact system shown
with NatalCare LX Drape
(P/N 028-013138)**