

## Ordering information

ITEM	PART NUMBER
neoBLUE compact LED Phototherapy System (includes light only)	019001
neoBLUE compact system w/Arm (includes light and arm)	019011
Arm (available separately)	019030
Roll Stand	019040
<b>Biliband® Eye Protectors</b>	
Regular Size	900642
Premature Size	900643
Micro Size	900644



neoBLUE Radiometer  
(P/N 53870-US)



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



## Technical specifications

<b>Light Source</b>	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 <sup>2</sup> /nm (total irradiance 1200 µW/cm <sup>2</sup> )
High	35 ± 2 µW/cm <sup>2</sup> /nm (total irradiance 2800 µW/cm <sup>2</sup> )
Adjustable setting	
Low	Approx. 10-35 µW/cm <sup>2</sup> /nm
High	Approx. 30-55 µW/cm <sup>2</sup> /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 <sup>2</sup> (108.5 in <sup>2</sup> ) 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 <sup>1</sup>
<b>White Exam Light</b>	
Color Temperature	Approx. 4300K
Illuminance	Approx. 10,000 lux / 35 cm (13.75 in)
<b>Electrical Mains</b>	0.7A, 100-240V~, 50/60 Hz
<b>Safety</b>	
Leakage current	< 100 µA
Audible Noise	< 40 dB
<b>Weight</b>	
Light	< 1.2 kg (2.6 lbs)
Arm	< 1.8 kg (4.0 lbs)
Roll Stand	< 10.9 kg (24 lbs)
<b>Roll Stand (with Light and Arm)</b>	
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
<b>Environmental</b>	
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)
<b>Regulatory Standards</b>	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.

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

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



- Color balanced with clinicians and 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 Phototherapy<sup>1</sup>

- ▶ **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 down<sup>2</sup>
- ▶ **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

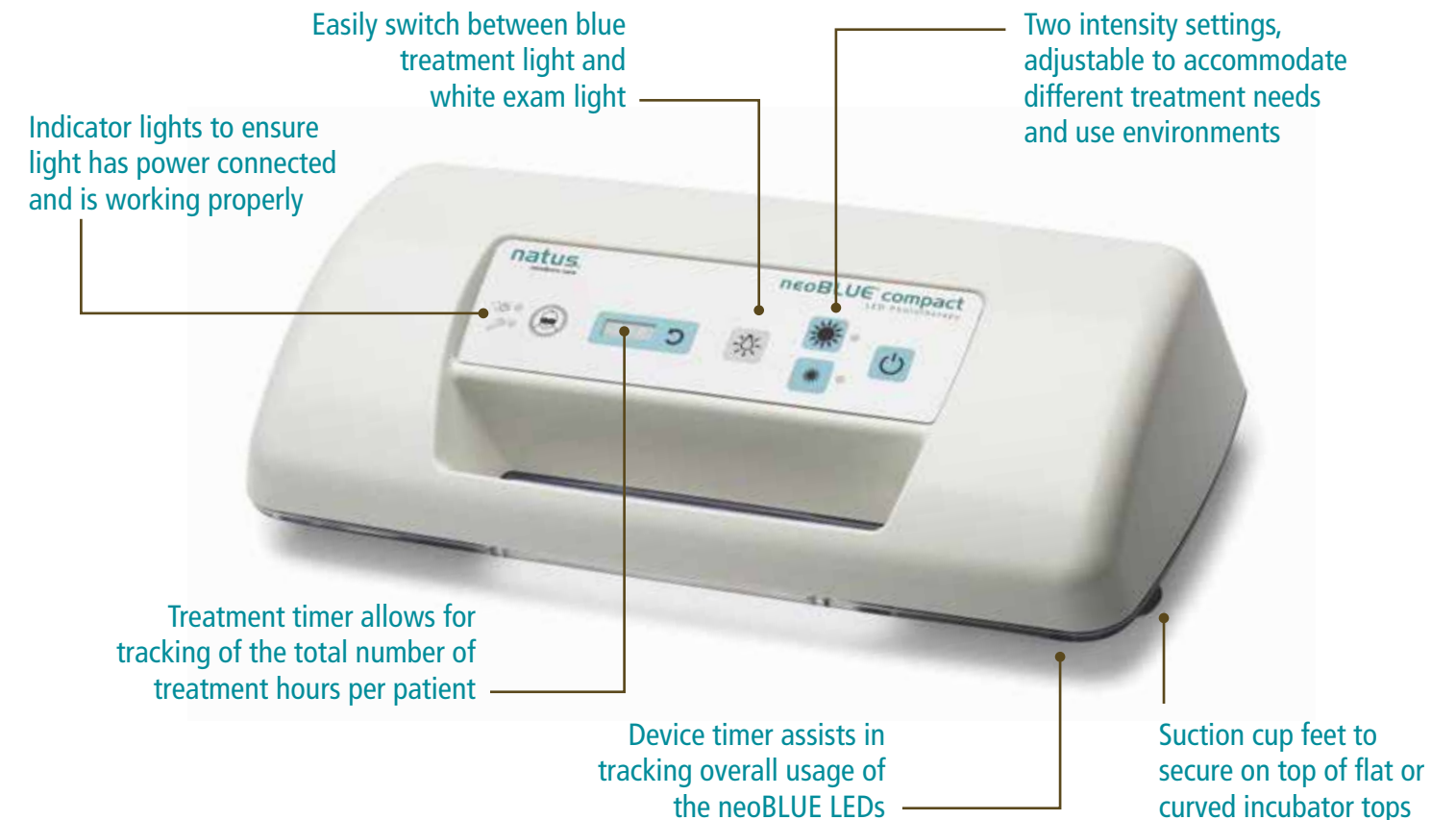
## Safe

- ▶ 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 and roll stand over a bassinet

## DESIGNED FOR CONVENIENCE AND EASE-OF-USE



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

## 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

## Color Balanced for Clinicians and 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



<sup>1</sup> Vreman HJ, et al. Light-emitting diodes: a novel light source for phototherapy. *Pediatric Research*. 1998; 44(5):804-809  
<sup>2</sup> 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.

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