



Little Sparrows Technologies

**SOLUTIONS FOR
NEONATAL JAUNDICE
MANAGEMENT
SPRING 2022**

www.littlesparrowstech.com

bili·hut™

LED phototherapy for neonatal jaundice

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Technologies

Ultraportable

Lightweight and collapsible, bili-hut can be easily set up right at the mother's side, whether in the hospital or at home.

Safe and comfortable

Designed with infant development in mind, the positioning nest optimally supports the baby during treatment and helps prevent heat loss, eliminating the need for an incubator for most babies ≥ 35 weeks gestation.

NICU-level efficacy

Bili-hut exceeds the American Academy of Pediatrics threshold requirements for high-intensity phototherapy with performance rivaling NICU phototherapy devices.

Breakthrough design

Our patented, curved light array more uniformly distributes light over more skin surface area compared to traditional overhead and under-surface devices.





PERFORMANCE SPECIFICATIONS

Peak irradiance: 54 $\mu\text{W}/\text{cm}^2/\text{nm}$
Average irradiance: 42.2 $\mu\text{W}/\text{cm}^2/\text{nm}$
Effective treatment area: 427 cm^2 (168 in 2)

LED SPECIFICATIONS

Peak wavelength: 463 nm
Bandwidth: 453-474 nm
Lifespan: up to 50,000 hours

ELECTRICAL SPECIFICATIONS

90-264 VAC
50/60 Hz

SHIPPING SPECIFICATIONS

Flat-packed box/carrying case
Dimensions (L x W x D) : 80cm x 46cm x 18cm
Weight: 6.8kg (15 lbs)

bili·hut™ global

high efficacy & energy efficiency

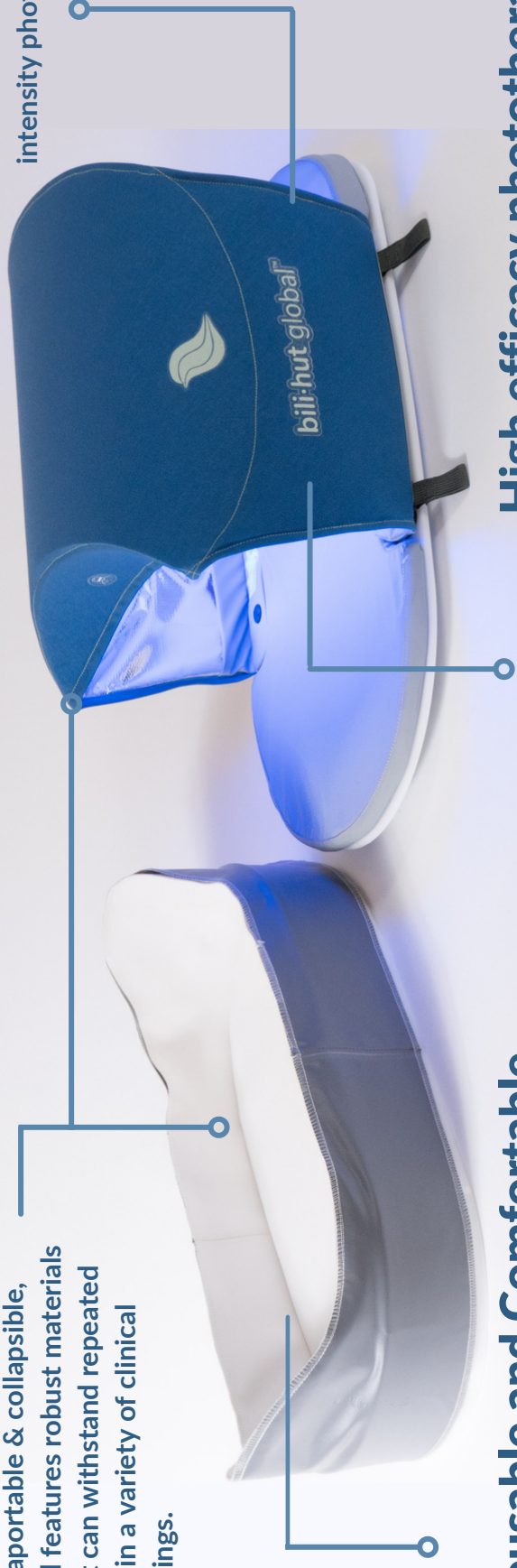
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Durable and Portable

Like bili-hut, bili-hut global is ultraportable & collapsible, and features robust materials that can withstand repeated use in a variety of clinical settings.

Energy efficient design

Requiring only 10 watts of power, bili-hut global meets the American Academy of Pediatrics standards for high-intensity phototherapy.



Reusable and Comfortable

The positioning nest and mattress are made with medical grade fabrics which can be cleaned with standard hospital sanitizing agents.

High efficacy phototherapy

Multidirectional illumination treats more surface area compared to traditional overhead and under-surface devices for exceptional results even in the most clinically challenging environments.

bili·hut™ global



PERFORMANCE SPECIFICATIONS

Peak irradiance: 39.9 $\mu\text{W}/\text{cm}^2/\text{nm}$

Average irradiance: 33.3 $\mu\text{W}/\text{cm}^2/\text{nm}$

Effective treatment area: 427 cm^2 (168 in 2)

LED SPECIFICATIONS

Peak wavelength: 463 nm

Bandwidth: 453-474 nm

Lifespan: up to 50,000 hours

ELECTRICAL SPECIFICATIONS

90-264 VAC

50/60 Hz

10 Watt power consumption

SHIPPING SPECIFICATIONS

Flat-packed box/carrying case

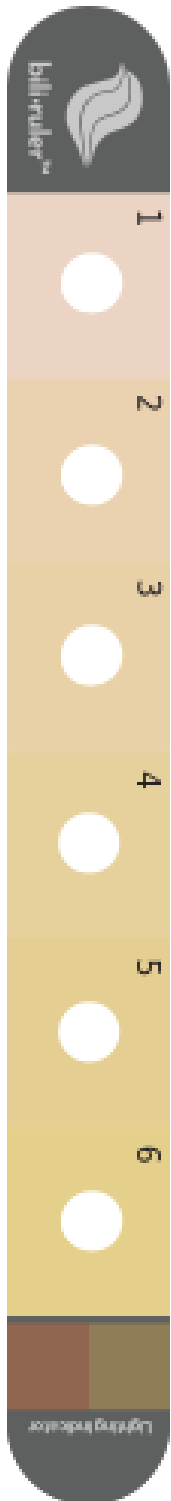
Dimensions (L x W x D) : 80cm x 46cm x 18cm

Weight: 6.8kg (15 lbs)

bili-ruler™

low cost, reliable jaundice screening tool

Coming soon!



What is bili-ruler™?

Bili-ruler™ is an “icterometer”, or a series of yellow swatches of increasing intensity that correlate with ranges of serum bilirubin levels to help determine the severity of jaundice.

By identifying the bili-ruler™ color that most closely matches the baby’s blanched skin color on the tip of the nose, the user can approximate the bilirubin level and determine the need for further diagnostic testing and treatment of jaundice.

Bili-ruler™ has been validated on nearly 800 multi-ethnic babies demonstrating equivalency to hospital transcutaneous bilirubinometer devices costing thousands.*

FDA 510(k) &
CE mark Pending
The bili-ruler™ was developed by Little Sparrows Technologies in collaboration with Dr. Anne CC Lee and the Global Newborn Health Lab at Brigham and Women's Hospital.
© 2014 BWH Global Newborn Health Lab: Saving Lives at Birth 4 Project

*Lee AC, Folger LV, Rahman M, et al. A Novel Ictrometer for Hyperbilirubinemia Screening in Low-Resource Settings. Pediatrics. 2019;143(5):e20182039

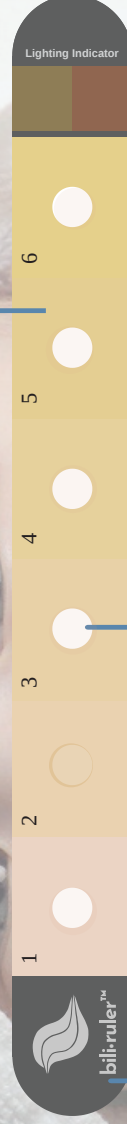
bili-ruler™

neonatal jaundice screening tool

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Clinically validated

Each color correlates to a specific range of serum bilirubin levels validated on a multiethnic population of nearly 800 newborns. To estimate serum bilirubin gently press the viewing windows on the tip of the nose and find the best color match. (A color match with a score of 2 is shown.)



Use with confidence

Our custom holographic logo lets you know that you have an original bili-ruler™ - manufactured with the highest standards.

Superior optical clarity

bili-ruler™ is made with the most optically clear medical grade material available and can be cleaned with standard hospital sanitizing agents.

Find the best lighting

An integrated lighting indicator lets you know if you are in optimal lighting conditions.

Instructions at your fingertips

The protective sleeve has all the necessary information to help you use your bili-ruler™ correctly, including a table of corresponding bilirubin levels for each color score.



bili·swaddle™

when an extra hug
is needed

developmentally sensitive
procedural support during
phototherapy treatment

www.littlesparrowstech.com/phototherapy-bilihut

bili·swaddle™

neonatal procedural support garment

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Keep baby calm

4-way stretch fabric and patented peanut-shaped design encourages "hands over heart" position, keeping baby cocooned—similar to being in the womb and reducing unnecessary waking from the startle reflex.

Provide developmental care

Ample leg room allows for sufficient flexion to promote proper hip development. A double zipper allows quick and easy access to patient diaper area & feet for pulse oximeter, ID band checks and heel stick blood sampling.



bili-swaddle™ was co-designed with our friends at Woombie® and is a Little Sparrows exclusive

Support treatment

The mesh fabric used in our swaddle allows 90% light transmittance to provide procedural support during phototherapy treatment. Care providers also have easy access for IV site visualization and vital signs checks without overstimulating baby by unwrapping swaddle blankets.