

BiliLux LED phototherapy light

The BiliLux is a compact and lightweight LED phototherapy light system for the treatment of neonatal unconjugated hyperbilirubinemia. It provides superior phototherapy performance, individualised therapy with electronic documentation capabilities and the flexibility for seamless integration into practically every workplace.



Benefits

Superior phototherapy with even and broad irradiance distribution

Phototherapy is effectively used for treating neonatal unconjugated hyperbilirubinemia: The BiliLux phototherapy light has its irradiance peaks in the most effective wavelength range to reduce the bilirubin which is 460 – 490nm. By achieving extremely high irradiance levels, the BiliLux fulfills the requirements of the American Academy of Pediatrics (AAP). In addition, the irradiance can be dimmed in 5 steps to provide proper therapy for the individual patient. The phototherapy light features a large surface area to cover full term and premature babies. The irradiance is evenly distributed over the entire mattress to help ensure effective phototherapy.

Seamless workplace integration for more flexibility

The BiliLux phototherapy light was designed for flexible use and seamless integration into the neonatal workplace. The phototherapy light can be placed on an incubator hood, mounted with the spring arm to warming therapy devices or ceiling supplies or used with a trolley. The BiliLux offers the perfect combination for practically every workplace. To simplify the process, the phototherapy light can be easily locked and unlocked by using the intuitive quick-connect mechanism.

The BiliLux also features a white observation light to observe the baby between phototherapy sessions or to switch white light on during phototherapy to soften blue light.

Designed for a healthy and family-friendly environment

The family-friendly and compact design saves space around the neonatal workplace while simultaneously providing high irradiances to treat neonatal jaundice. The BiliLux is lightweight for easy handling and storage. And most important: it is soundless to ensure a calm and nurturing atmosphere for the baby, parents and caregivers.

Infection prevention – priority in our development

Hygiene and infection prevention is an important topic in the neonatal segment: the BiliLux was designed for easy and fast cleaning supported by smooth surfaces. Unlike some other phototherapy devices, the BiliLux does not have any ventilation slots or fans in order to improve infection prevention.

Individualised care and quality management

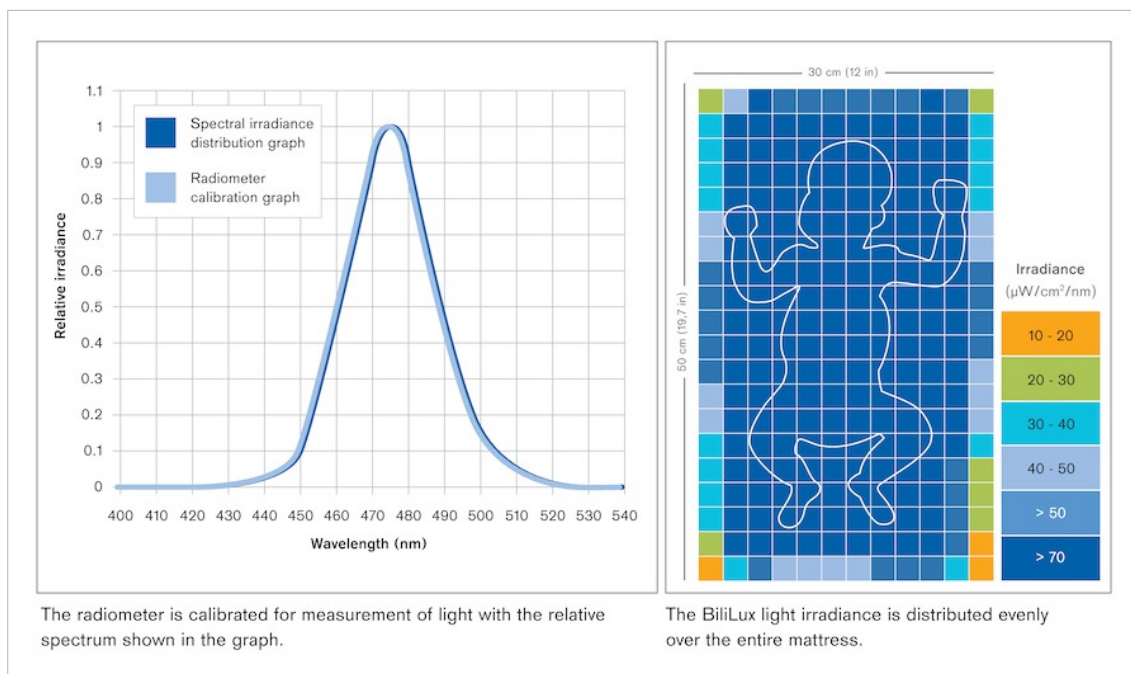
The optional BiliLux Radiometer is specifically designed for the phototherapy light and instantly measures the irradiance. Use of the radiometer helps ensure the correct positioning of the baby under the phototherapy light and the adequate irradiance that the baby receives. In addition, each measurement (incl. date and time) and the phototherapy duration can be stored and downloaded in a phototherapy report e.g. for patient documentation or quality control purposes.

Benefits

Electronic data transfer – for efficient workflow

The phototherapy LED supports the hospital and clinical processes by providing the ability for electronic documentation. Electronic data transfer is faster and less prone to errors than manual data transfer. This helps work in the NICU to become more efficient.

Irradiance distribution and radiometer calibration



System Components



D-3689-2016

BiliLux phototherapy light

The BiliLux phototherapy light can be placed directly on an incubator hood. It has slip-resistant feet on the bottom that help to hold it in place. The phototherapy light houses the 20 blue lights that provide therapy as well as two white lights used for observation or to soften the blue light. The front panel has a display screen and keys to control functions and change settings. The BiliLux phototherapy light also has the capability to produce a phototherapy report via export to a USB flash drive that is supplied with the device.



D-12176-2016

BiliLux with optional spring arm

The BiliLux with spring arm consists of the phototherapy light, an adjustable spring arm, and mounting provision that allow the BiliLux to be used with various Dräger warming therapy devices and ceiling supply units. When mounted on the arm, the phototherapy light can be rotated and positioned for optimum effectiveness. It can be easily attached and released from the spring arm by using the quick-connect mechanism.



D-12185-2016

BiliLux with optional trolley

The BiliLux with trolley consists of the phototherapy light, an adjustable spring arm, and a rolling trolley that allows use above an incubator, radiant warmer, crib, or bassinet. The trolley has four locking castors and a height-adjustable pole. These features, together with the adjustable spring arm, allow the BiliLux to be moved, rotated, and positioned for optimum effectiveness. The phototherapy light can be easily attached and released from the spring arm by using the quick-connect mechanism.



D-12179-2016

BiliLux Radiometer

The BiliLux Radiometer is specifically designed for the BiliLux phototherapy light and provides instant irradiance measurements.

Accessories



D-17882-2017

Light shield curtain – Protection for caregivers, other patients and parents during phototherapy treatments

The light shield curtain helps to block the light of the phototherapy during phototherapy treatments to protect caregivers, other patients and parents from the blue light. The design offers easy assembly of the curtain. Flaps at the front and back allow for easy access to the patient.



D-4764-2017

Phototherapy mask Eyemax 2

The latex-free Eyemax 2 provides optimum comfort and protection for patients during phototherapy treatments. The one-piece, wraparound design has two attachment points that can be adjusted independently; this both prevents unwanted movement and allows for a perfect fit. The special ultraviolet light eye-protection pad was ergonomically designed to prevent light leakage.



D-35890-2009

Cable Holder

Cable holder for trolley pole. Set of 4 for Ø 38 mm pole

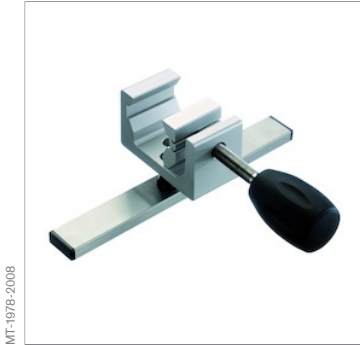


D-50773-2012

Rail Claw for lamp

Rail claw for phototherapy light (to connect to 38 mm pole and DIN, Fairfield, and GCX rails)

Accessories



Rail clamp

Rail clamp, for attachment to poles of different diameters. Rotable by 90° to left and right. Length of standard rail (profile 10 × 25 mm): 20 cm.



Duct pivot rail, Kit

For mounting the BiliLux on the standard rail of a warming therapy device.

Related Products



Dräger Jaundice Meter JM-105

The Dräger Jaundice Meter JM-105 gives you consistent quality screening, cost-effectively delivered over the lifetime of the device. As a result you optimize the efficiency of your jaundice management program, which can help save time and money while delivering an exceptional standard of care.

Related Products



D-43871-2015

Dräger Babyleo® TN500

The Babyleo® TN500 is Dräger's first IncuWarmer that provides optimal thermoregulation for neonates in open care, closed care and transition. With the combination of three heat sources, this device protects your little patients so they can grow while making your workflow easier with quick and comfortable access to the baby.



D-7280-2016

Isolette® 8000 plus

Dräger sets the standard for thermoregulation with a host of performance features designed to provide a stable, cocoon-like environment for the baby. To ensure that the Thermo-Neutral Zone is maintained, the Isolette® 8000 plus enables you to continuously monitor both the central and peripheral body temperature.



MT-1223-2004

Babytherm® 8004/8010

Babytherm® is an intensive care Infant Warming System intended as a therapeutic device providing warmth for premature and full term neonates. Not only does it provide babies with a unique thermal environment, but it also allows you to enjoy outstanding ease of access so you can give them the best possible care.

Technical Data

Device classification

| | |
|--|--------------|
| Type of protection against electric shock | Class I |
| Degree of protection against ingress of liquids and particulate matter (IEC 60601-1) | IPX0 |
| Mode of operation | Continuous |
| Classification in accordance with EU Directive 93/42/EEC | Ila |
| UMDNS code/GMDN code | 13-037/35239 |

Physical attributes

BiliLux phototherapy light

| | |
|--------------------------------------|---|
| Length | ≤39 cm (15.4 in) |
| Width | ≤19 cm (7.5 in) with quick-connect plug |
| Height | ≤8 cm (3.1 in) |
| Weight (without options/accessories) | ≥1.2 kg (2.7 lb) |

BiliLux spring arm

| | |
|--------------------------------------|-------------------|
| Length, spring arm fully folded | ≤61 cm (24 in) |
| Length, spring arm fully extended | ≤106 cm (41.7 in) |
| Weight (without options/accessories) | ≤1.5 kg (3.3 lb) |

BiliLux trolley (with spring arm)

| | |
|--|--------------------|
| Height (trolley at lowest position and spring arm fully folded) | ≤132 cm (52 in) |
| Height (trolley at highest position, lower arm fully extended, and upper arm at 45° angle) | ≤213 cm (83.9 in) |
| Weight (without options/accessories) | ≤14.9 kg (32.8 lb) |
| Total mass including safe working load | 18.1 kg (39.9 lb) |

Environmental requirements

Operating conditions

| | |
|-------------------|---|
| Temperature | 18 °C (64.4 °F) to 40 °C (104 °F) |
| Ambient pressure | 1,100 hPa to 700 hPa |
| Relative humidity | 10 % to 95 % relative humidity, noncondensing |

Storage/transportation conditions

| | |
|-------------------|---|
| Temperature | -20 °C (-4 °F) to 60 °C (140 °F) |
| Ambient pressure | 1,100 hPa to 500 hPa |
| Relative humidity | 10 % to 95 % relative humidity, noncondensing |

Electrical requirements

| | |
|-----------------------|-------------------------------------|
| Power requirements | 100–240 V AC, 50/60 Hz, 0.42–0.22 A |
| Earth leakage current | <500 µA |

Noise requirements

| | |
|-------------------------------------|-----------|
| Noise level during normal operation | ≤20 dB(A) |
|-------------------------------------|-----------|

RS-232 communication port

| | |
|--|--|
| Expected minimum period of use of phototherapy LED lights, L70/B50 | 50,000 hours |
| Expected service life of device | 8 years |
| RS-232 communication port (output only) | Only connect devices that fulfill the requirements of the standard IEC 60950-1 on unearthed SELV circuits or the requirements of the standard IEC60601-1 on accessible secondary circuits with max. 60 V DC nominal voltage. |
| Type | 9-pin Sub-D (female) |

Technical Data

| | |
|-------------------------------|-------------------------|
| Configuration | MEDIBUS.X |
| Dräger MEDIBUS.X, version 6.0 | by the RS-232 port only |
| Baud rate | 9,600 |
| Parity | even |
| Data bits | 8 |
| Stop bits | 1 |

For a detailed description of the interface protocol, please see these manuals:

MEDIBUS.X, Rules and Standards for Implementation (9052607) and MEDIBUS.X, Profile Definition for Data Communication V1.n (9052608)

| | |
|----------------|-----|
| Pin assignment | |
| Pin 2 | RXD |
| Pin 3 | TXD |
| Pin 5 | GND |

Irradiance

| | |
|---|-------------------|
| E _{mean} [μW/cm ² /nm] (460-490nm at 100% irradiance setting) | |
| 30 cm distance | >85,5 |
| 40 cm distance | >50,1 |
| 50 cm distance | >33,4 |
| Spectral irradiance distribution – Peak | between 460–490nm |
| Effective surface area at 40 cm | 30 cm x 50 cm |

Radiometer option requirements

| | |
|--------------------|---|
| Accuracy | +3% / -15% |
| Measurement output | Average spectral irradiance, 460 nm to 490 nm |

Ordering Information

| | |
|---|---------|
| Device | |
| BiliLux Phototherapy System | MU20100 |
| Optional Components | |
| BiliLux radiometer | MU26079 |
| BiliLux spring arm | MU26077 |
| BiliLux trolley | MU26076 |
| USB flash drive | 8416347 |
| Cable holder for trolley pole | G13171 |
| Mounting adapters | |
| Rail clamp for phototherapy light | MP00615 |
| Compact rail | 2M85337 |
| Rail clamp | 2M85274 |
| Kit, duct pivot rail | 4118453 |
| Accessories | |
| Phototherapy mask Eyemax 2, disposable, micro, 20 | MP03770 |
| Phototherapy mask Eyemax 2, disposable, preemie, 20 | MP03771 |
| Phototherapy mask Eyemax 2, disposable, regular, 20 | MP03772 |

Notes

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