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Bilisphere 360 Led

Multidirectional Intensive Phototherapy Device





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Novos offers a high quality treatment and reliable device which makes you experience the high advantages of a multidirectional intensive phototherapy in most cases of severe jaundice.

Bilisphere 360 Led is exactly what you need for the treatment of high bilirubin levels causing severe jaundice for newborns

Jaundice management is critical for preterm and term newborns suffering from hyperbilirubinemia. Novos offers caregivers a multidirectional intensive phototherapy treatment with super LED technology. Bilisphere 360 Led enables you to get the fastest total serum bilirubin breakdown and eliminates the need for risky blood exchange. Clinical studies proves that usage of Bilisphere 360 Led may decreases bilirubin level up to a rate of 0,84 mg/dl/ hour and this rapid decline is important in cases that have a high risk of encephalopathy.

Comparison of intensive light-emitting diode and intensive compact fluorescent phototherapy in non-hemolytic jaundice. (The Turkish Journal of Pediatrics 2013; 55 : 29-34 Şahin Takcı, Şule Yiğit, Gülperi Bayram, Ayşe Korkmaz, Murat Yurdakök Division of Neonatology, Department of Pediatrics, Hacettepe University Faculty of Medicine, Ankara, Turkey)

Fragile newborns need an ideal environment and Bilisphere 360 Led makes it possible with patented smart software system Novosoft and Thermoelevation feature pioneered by Novos Medical Systems

Newborns should use majority of their energy for development in their first days of life. Temperature increase or decrease, loss of body water and stressful environment impedes their development. Bilisphere 360 Led aims to create an ideal intensive phototherapy environment for newborns. Novosoft controls silent fan groups for venting out the hot air generated by the heat emitted from electronical components and activates the Thermoelevation feature which elevates the upper part and disperse the heat, this guarantees acceptable cabin temperature levels for baby.





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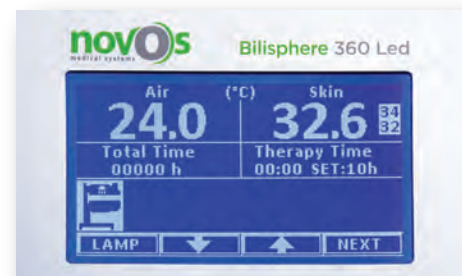
Easy patient monitoring with a touch screen

According to the newborn care guidelines, infant skin temperature should be measured during phototherapy treatment. Bilisphere 360 Led enables monitoring of baby's skin temperature continuously and clearly on LCD touch screen. Monitoring of treatment and lamp usage times on LCD touch screen allows caregivers to follow-up the treatment efficiently.



User friendly menu and easy operation

Ease of use is one of the important points for the NICU staff. User friendly menu in Bilisphere 360 Led gives you the comfort and speed. During operation of the device, it is easy to set all necessary parameters at a touch of button. Upper and lower lamps can be operated together or separately for different kind of patients' needs.



Less workload for NICU staff

Treatment time of each patient is definitely shorter with Bilisphere 360 Led than any other phototherapy device. Short treatment time means less workload for caregivers per patient. Intensive phototherapy system Bilisphere 360 Led shortens hospital stay and provides early baby mother contact with early discharges. Sliding out infant bed unit allows caregivers and nursing staff easy access to the infant. Red colored side windows protect other patients and caregivers from the blue light's adverse effect.



Easy to clean

Caregivers benefit from manual elevation system which elevates upper part just by using up & down arrow buttons for cleaning and disinfection of the device interior. Hammock exchange is an easy process in Bilisphere 360 Led by means of sliding out bed unit. Detachable bed components like side bars, baby cot with drain hole and hammock allow users to do easy cleaning.



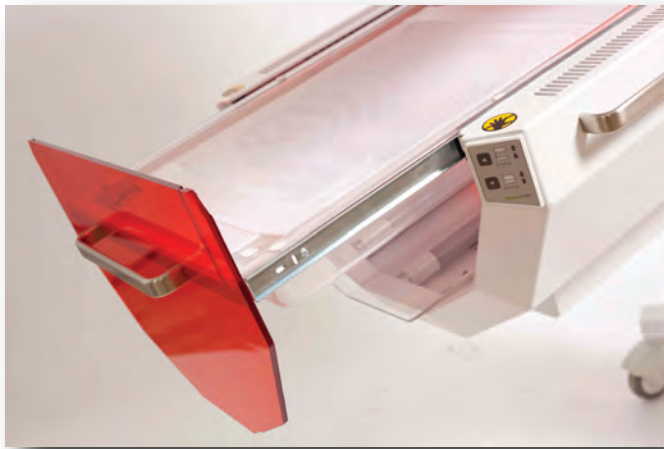


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Safety and comfort for the baby

Excellent design of bed unit ensures safety and comfort for newborns.



In order to maximize effective phototherapy area and blue light permeability Bilisphere 360 Led involves a specially designed soft hammock inside. It is comfortable to lay on hammock even for the tiniest ones.

In case of usage of a defective hammock, baby cot provides a safety layer for the newborn. Detachable side bars keeps the extremities of the newborn in the safe region.

Low operating costs

Bilisphere 360 Led, uses LED tubes that have 20.000 hours of lifetime. This lifetime value is 10 times longer than any conventional fluorescent lamp available in the market, which reduces lamp replacement cost extremely. Super LED tubes have very low energy consumptions compared to fluorescent alternatives.





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Technical Specifications

Dimensions

Width _____ 68.5 cm
 Depth _____ 81.5 cm
 Height _____ 146 cm–166 cm
 Weight, approx. _____ 66 kg
 Hammock Mattress _____ 58 cm x 38 cm

Environmental Requirements

Operating Temperature Range _____ +20°C to +30°C
 Storage Temperature Range _____ -20°C to +60°C
 Operating Humidity Range _____ 5 % to 99 % RH, non-condensing
 Storage Humidity Range _____ 0 % to 99 % RH, non-condensing

Characteristics

Air Temp. Display _____ 0°C – 51°C
 Skin Temp. Display _____ 0°C – 51°C
 Noise Level _____ <55 dBA
 Screen _____ 5.1 inches monicolor LCD touch screen
 Lamp Life Time _____ 20.000 hours
 Number of LED Tubes _____ 16 pcs Blue Light LED Tubes
 Spectral Irradiance _____ >100 μW/cm²/nm
 Wavelength Interval _____ 440 nm – 460 nm
 IV Pole Weight Limit _____ 2 kg
 Monitor Tray Weight Limit _____ 6 kg
 Supply Voltage _____ 220 VAC (±10%), 50–60 HZ

Alarms

High Skin Temp. Alarm _____ Set between 33–39°C with 1°C increments
 Low Skin Temp. Alarm _____ Set between 31–37°C with 1°C increments
 High Air Temperature _____ >37°C
 Low Air Temperature _____ <30°C
 Skin Probe Disconnection _____
 Therapy Ended Alarm _____
 Lamp Usage Time _____

Consumables

Additional Hammock
 Eye Protection Mask Small
 Eye Protection Mask Medium
 Eye Protection Mask Large

Proven quality and 100 % customer satisfaction

Having a very strict quality policy brought us 100 percent customer satisfaction. Novos will continue to design and manufacture high quality products for newborn care; all you have to do is just focusing on your patients.

- NOVOS Medical reserves the right to make changes without notice in design, specifications and models
- The quality management system at NOVOS Medical Systems is certified according to ISO 13485 and product is certified in accordance with Medical Device Directive (93/42/EEC)

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