



# Bilisphere 360 LED

Safety and Intensity for  
the treatment of high bilirubin levels



ideal **treatment,**  
ideal support

## Bilisphere 360 is exactly what you need for the treatment of high bilirubin levels for newborns

Jaundice management is critical for premature and term newborns with hyperbilirubinemia. Novos offers caregivers a NEW MULTIDIRECTIONAL INTENSIVE PHOTOTHERAPY TREATMENT WITH LED TECHNOLOGY. Bilisphere 360 enables you to get fastest total serum bilirubin breakdown and eliminates the need for blood exchange.

Clinical studies showed that it decreases bilirubin level 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

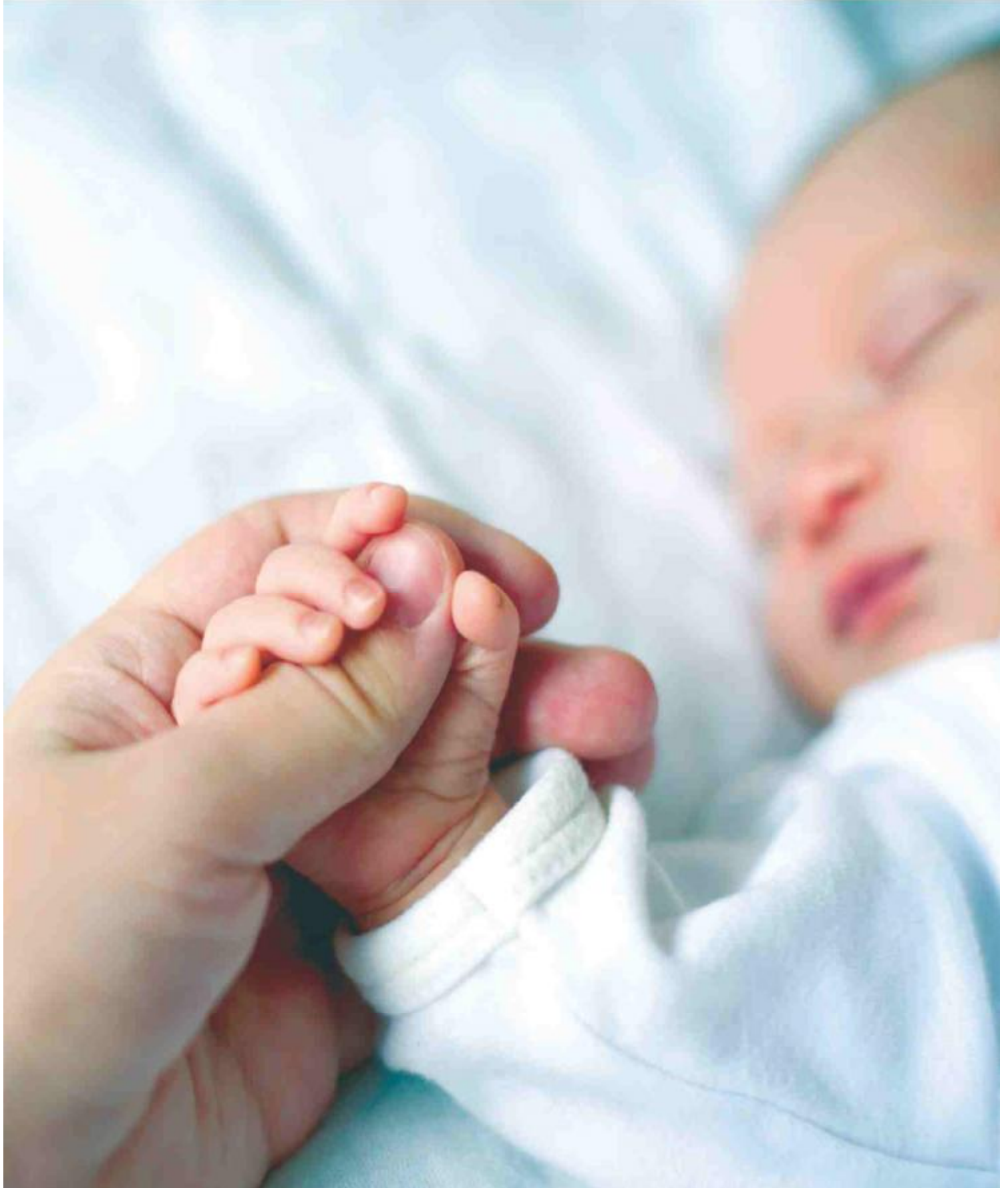
Division of Neonatology, Department of Pediatrics, Hacettepe University Faculty of Medicine, Ankara, Turkey.

## Tiny newborns need an ideal environment. Bilisphere 360 makes it possible with smart software system NOVOSOFT™ and THERMOELEVATION system.

Newborns use 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 aims to create an ideal intensive phototherapy environment for newborns. Patented software NOVOSOFT™ controls silent fan groups for a temperature regulated stable environment and activates the THERMOELEVATION system which elevates the upper couple and disperse the inside heat, so guarantees acceptable temperature levels for baby.



**We save your precious**



## Easy patient tracking and system monitoring with a touch screen LCD display

According to the newborn care guidelines, infant skin temperature should be measured during phototherapy treatment. Bilisphere 360 enables monitoring of baby's skin temperature continuously and clearly on LCD display.

Monitoring of treatment and lamp usage times on LCD display 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 gives you the comfort and speed during operation of the equipment. Intuitive control panel and attractive touch screen LCD display allows caregivers easy access to sophisticated functions. With a single touch it is easy to select and confirm control parameters.

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 than any other phototherapy equipment. Short treatment time means less workload for caregivers per patient. Intensive phototherapy system Bilisphere 360 shortens hospital stay and supports baby mother contact.

Sliding out bed unit allows caregivers and nursing staff easy access to the infant.

Side windows protect other patients and caregivers from the effect of blue light and caregivers can supervise the neonate through side windows.



We save your precious



## Easy to clean

Caregivers benefit from manual elevation system which elevates upper couple just on a push of a button for cleaning and disinfection of the inside of the equipment.

Hammock Exchange is an easy process in Bilisphere 360 by means of the sliding out bed unit.

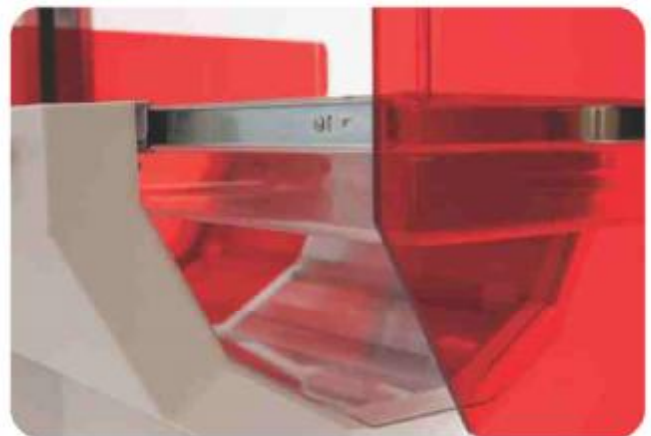


## Safety and comfort for the baby

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



Bilisphere 360 involves a specially designed soft hammock inside. It is comfortable to lay on hammock even for the tiniest ones.



Just under the hammock there exists a safety system against worn out hammock.

## Low cost of ownership

Bilisphere 360 LED uses LED lamps that have 20,000 hours of life time. This lifetime value is 10 times longer than any conventional fluorescent lamp available in the market, which reduces lamp replacement cost extremely. LED lamps have very low energy consumptions compared to fluorescents.



# Technical Specifications

## Dimensions

Width	63 cm
Depth	78 cm
Height	140 - 159 cm
Hammock Mattress	60 cm x 40 cm
Weight, approx.	71 kg (Bilisphere 360) 68 kg (Bilisphere 360 LED)

## Environmental Requirements

Operating Temperature Range	+23°C to +28°C
Storage Temperature Range	(-20)°C to +50°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 touch screen
Lamp Life time	20.000 hours
Lamp Type	16 pcs Blue Light LED Tubes
Intensity	120 µw/cm <sup>2</sup> /nm
Spectral Irradiance	420-480 nm
IV Pole Weight Limit	2 kg
Monitor Shelf Weight Limit	6 kg
Supply Voltage	220VAC ± %10 – 50-60 Hz.

\*Upper and lower lamps can be operated together or separately.

\*Language Selection on LCD Display / Turkish, English, French

## Alarms

High Skin Temp. Alarm	+1C°
Low Skin Temp. Alarm	-1C°
High Ambient Air Temperature	>37°C
Low Ambient Air Temperature	≤ 30°C
Skin Probe Failure	
Therapy Ended Alarm	
Lamp Usage Time	

## Order List

012 003	Bilisphere 360 Led
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## Optionals

012 045	IV Pole
012 051	Hammock
100 020	Eye protection mask small
100 021	Eye protection mask medium
100 022	Eye protection mask large
150 544	LED tubes

## Standart Accessories

	Bilisphere 360 LED
012 051	Hammock
100 020	Eye protection mask small
100 021	Eye protection mask medium
100 022	Eye protection mask large
100 162	Skin Probe
012 214	Cabin Probe

## 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 focus 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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