

MIRA

Phototherapy Lamp





Mira

The challenge of an advanced technology

The phototherapy lamp MIRA, uses last generation POWER LED technology to produce therapeutic blue light (425–475nm) and fiber optics to dose the therapy on infant babies with jaundice. It has a light and compact design with a “soft touch” control panel where are present warnings, alarms and a wide display indicating therapy times, visible up to a 7m distance. The therapeutic radiation, produced by a HIGH POWER LED, is transferred, through a flexible fiber optic cable, to a small dimension pad that must be positioned in contact with the patient’s skin. The compact design makes possible to perform the therapy directly in the baby bed as well as for home care. If necessary it can be used combined to a standard phototherapy lamp granting maximum efficiency and greater reduction of patient therapy exposure. The phototherapy lamp MIRA is portable and can be placed on a shelf or a trolley.

MEETS THE AAP GUIDELINES

One of the features of this product is to have the possibility to chose between conventional therapy and “intensive phototherapy” (AAP 2004*).

- Intensity: 28 $\mu\text{W}/\text{cm}^2/\text{nm}$ (NORMAL MODE)
45 $\mu\text{W}/\text{cm}^2/\text{nm}$ (INTENSIVE MODE)
- Spectrum: 425 – 475 nm spectrum, matching the peak absorption wavelength at which bilirubin is broken down (458 nm)**
- Coverage Area: Delivers phototherapy over a larger effective treatment area than other fiber optic devices.
- Distance: In contact with infant’s skin, eliminating distance deficiencies entirely.

EFFICIENCY AND EASE OF USE

LED technology reduces costly and time-consuming bulb replacements by providing over 20,000 hours of use at high intensity. The Control Panel, easy and intuitive, allows controlling all the parameters of the therapy. The compact design allows transport to different locations and the pad fits easily within existing patient enclosures, such as cribs, bassinets, radiant warmers and incubator.

In accordance with ISO 10993-1 on Biological biocompatibility use the Pad with the protective Cover (code 13010A20)

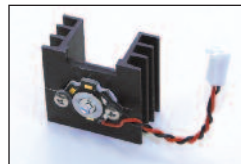
Consumables



1645
Eye Mask (Pack of 50 pcs)



13010A20
Pad cover (Sterile, Order multiple: 10 pcs)



12879A73
Optic Group (1 pc)

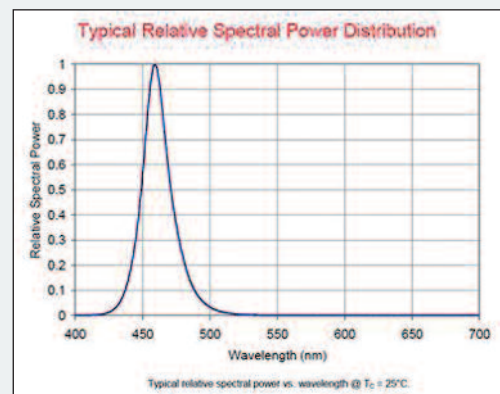


7291A72
Pad with Cover (1 pc)

Technical Specifications

Power Supply	230 Vac, 50–60 Hz
Power	40 VA
Dimensions (WxHxD)	15x20x25 cm
Weight	3kg
Noise	< 40dB(A) at 100cm
LED Source	Led 10W Blu 460nm
Pad	Cable length 1,5m Surface area(WxH) 130x200mm Effective surface(WxH) 110x160mm
INTENSIVE mode:	2250 $\mu\text{W}/\text{cm}^2$ (45 $\mu\text{W}/\text{cm}^2/\text{nm}$)
NORMAL mode:	1400 $\mu\text{W}/\text{cm}^2$ (28 $\mu\text{W}/\text{cm}^2/\text{nm}$)
Warnings and alarms:	Main Failure, Therapy End, Broken LED and Pad Disconnection.

Optical Characteristics @ T _c = 25°C			
Parameter	Symbol	Typical	Unit
Dominant Wavelength ¹⁾	λ_D	460	nm



*American Academy of Pediatrics, guide lines for the clinical practice, under commission for Jaundice: Management of Jaundice in the newborn infant 35 or more weeks of gestation, 2004; 297–316. ** Light emitting diodes: a novel light source for phototherapy. Pediatric Research. 1998; 44(5):804–80