

# Bilibed<sup>+++</sup>

A unique L.E.D. based  
Phototherapy



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**Phototherapy**

Phototherapy is the most frequently used device to treat Neonatal Jaundice. The efficacy of phototherapy depends upon irradiance, intensity of light and the quality of light (optimal in the blue 450-475 nm), the exposed body surface area, & the duration of the exposure. The most commonly devices that are used to treat neonatal jaundice are the Fluorescent tubes lights, the halogen lamps, the xenon bulbs, & the fiber optic blanket.

Each of these devices has numerous disadvantages that include high heat production, unstable broad wave length light output (decreasing with age). The tubes or the halogen bulb needs to be changed after 2000 hours or after 3 months which ever is earlier.

## The striking feature of this unique "Bilibed" comprises:

- 1) Works on very low power. Consumes only approx. 90 watts as compared to 160 watts consumed by fluorescent lamps. Hence saves your power & money.
- 2) Special blue light emitting diodes (LED) used in cluster to provide effective wave length between 450 to 480 nm range.
- 3) A total of 14 LED's of 3 watt each are placed in the under surface unit.
- 4) The detachable & light weight stand unit comprises a cluster of 16 LED's of 3 watt each.
- 5) The LED has an Incredible long life (more than 20,000 hours) hence absolutely maintenance free & cost effective.
- 6) The Photo therapy source comprises of 15 LEDs of 3 watts each. The source unit can be used in conjunction with radiant warmer.
- 7) The baby cradle & the under surface box in mounted on a sleek trolley.
- 8) The compact size of the Phototherapy systems saves your valuable floor space.
- 9) Special laser beam is provided to indicate the center of the Baby Bed.

**References:** LED. A novel light source for phototherapy. By Dept of Pediatrics Stanford university school of medicine, Stanford USA. Published in Pediatric research Vol 44 no 5 November 1998 by Hendrik Vreman, Ronald wong, David Stevenson, Roger Route & Co.

Instrument used to measure wave length: UV light meter Model UV-340, Accuracy +/- 4% of FS digital. (FS = Full scale). UV sensor spectrum maximum 390 nm band pass.



## Technical Details:

### Light Source:

Light Emitting Diodes

### Operating voltage:

230 volts AC  $\pm$ 10% 50Hz.

### Wave Length:

450 to 480 nm.

### Fuses:

1 Amp. each

### Cradle Dimension:

22" X 18" X 5"

### Expected life of LED's:

Above 20,000 hours

Life changes so do concepts, ideas hence for constant up gradation we reserve the right to change the specifications & features without prior notice to ensure harmony between man & the machine.



Innovated by

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