

## Technical Specifications

### Performance

Light source	: High bright blue LED
Wavelength	: 450-470nm
	: High bright white LED (for observation)
Spectral Irradiance	
Swift mode	: 35 $\mu$ W /cm <sup>2</sup> /nm
Recovery mode	: 15 $\mu$ W /cm <sup>2</sup> /nm
User mode	: 15-60 $\mu$ W /cm <sup>2</sup> /nm
Effective surface area	: 50 x 30cm

### Electrical specifications

	: 220-240V, 50/60Hz
Max. rating	: 3A, 220-240W, 50/60 Hz
Fuse	: 2A, 220-240W, 50/60 Hz

### Physical specifications

Light unit	: 35.5 x 26x9cms
Height	: 110 -170cms
Clearance of base	: 7.5 cm
Tilt adjustment	: +/- 180°

### Environmental specifications

Operating Temp.	: 15°C- 40°C
Humidity	: 0% - 95% non condensing

## Ordering information

Item Description	Model No.
Stand type LED Photo therapy unit	I Rex
Stand type LED Photo therapy unit with bed	I Rex B
Double Surface LED Photo therapy unit with bed	I Rex BD
Double Surface LED Photo therapy unit without bed	I Rex D
Infant Mobile Trolley	I Bed

*Any configuration suitable to your requirement can be provided Ibis Medical Equipment & Systems Pvt. Ltd. reserves the right to make changes in specification and features at any time without notice, contact Ibis representatives for the most current information.*

\*American Academy of Pediatrics: Management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation. Pediatrics 2004; 297-316.

## IBIS Medical Equipment & Systems Pvt. Ltd.

1st Floor, Excel Dream Home Building,  
Nambickodath Lane, Kachappilly Road,  
Vyttila P.O., Ernakulam - 682 019.  
Kerala, India  
Tel: 0484 2389558, 09446507619  
E-mail: [info@ibismedical.net](mailto:info@ibismedical.net)  
[www.ibismedical.net](http://www.ibismedical.net)

[www.ibismedical.net](http://www.ibismedical.net)



An Innovative LED Phototherapy unit  
for the treatment of newborn Jaundice

**iRex**  
LED Photo-Therapy Unit

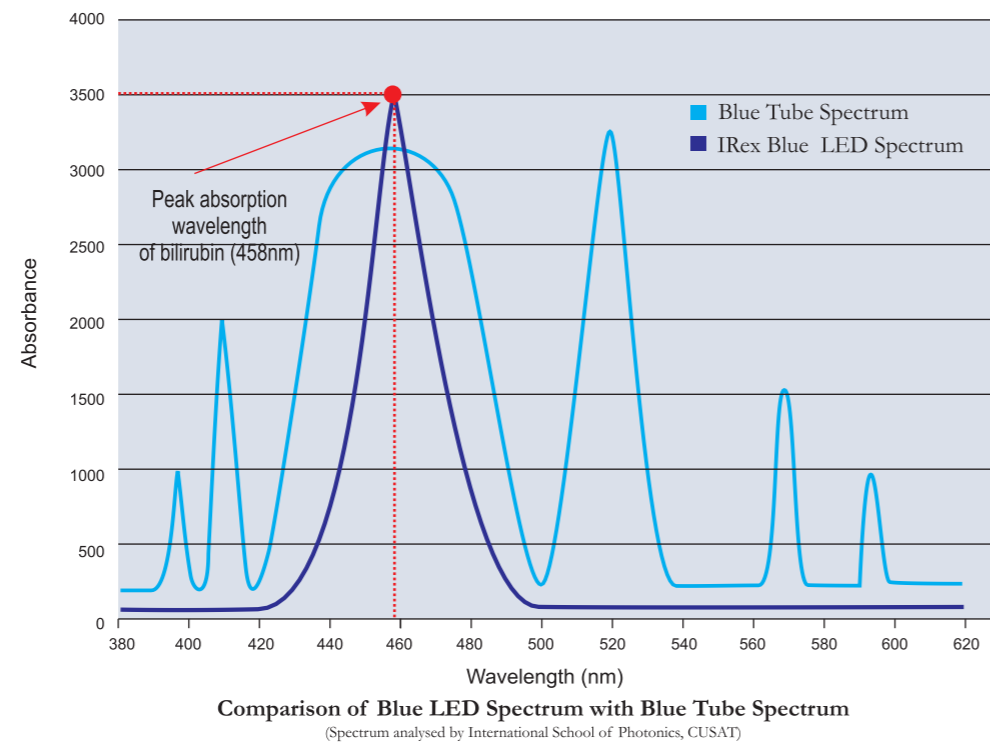
Authorised Dealer



### I Rex meets AAP Guidelines of Intensive Phototherapy\*

Performance factor	Clinical Guidelines	I Rex Specifications
Light Wave Length	430 - 490 nm	450 - 465 nm ( peak at 458 nm - 458 nm is the peak absorption wavelength, at which bilirubin breaks down)
Light Intensity / Irradiance	Should be greater than $30\mu\text{W} / \text{cm}^2 / \text{nm}$	In I Rex intensity can be adjusted from $15 - 60\mu\text{W} / \text{cm}^2 / \text{nm}$ according to patient's condition. Many overhead phototherapy units are offered with low intensity of $12 - 18\mu\text{W} / \text{cm}^2 / \text{nm}$
Effective Surface area	Light should cover maximum surface area	I Rex cover maximum surface area. Instead of Scattered light, I Rex offers focused light, in 60 X 30 cm bed area

I Rex uses specially designed high bright blue LEDs, which emits light in 450-470nm spectrum with peak absorption wavelength of 458 nm.



### I Rex meets high clinical standards

Many overhead phototherapy systems have serious drawbacks from clinical perspective, including low irradiance levels, high heat output, large in size and scattered - unfocused coverage. The I Rex LED Phototherapy System is designed specifically to overcome these impediments to provide more effective newborn care

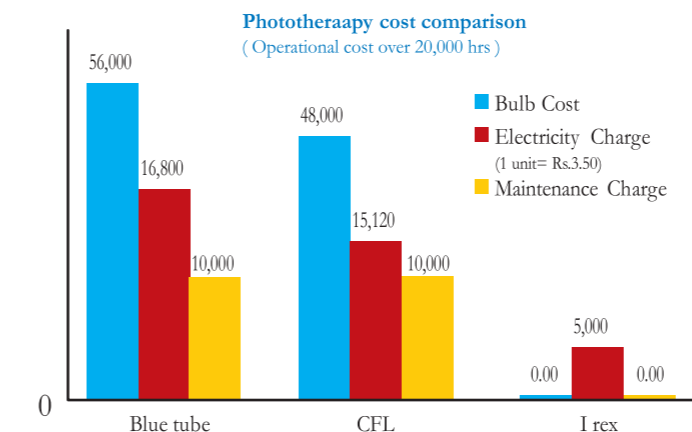
### Optimal Efficiency

I Rex uses high bright LEDs with a life of twenty thousand hours, which reduces cost of bulb replacement in conventional Phototherapy.

LED panel is field serviceable - no downtime associated with patient care.

### A New Generation machine with Low Power Consumption

I Rex requires 15 times lesser power than any other conventional method for curing Neonatal Jaundice.



### Modes of Operation

I Rex offers four different modes of operations

- Swift Mode** - Ideal mode for severe new born jaundice. Provides  $35\mu\text{W} / \text{cm}^2 / \text{nm}$  output in 30cm height.
- Recovery Mode** - Preprogrammed mode with  $15\mu\text{W} / \text{cm}^2 / \text{nm}$  in 30cm height.
- Auto Mode** - Combination mode of Swift mode and Recovery mode, ideal for prolonged cases.
- User Mode** - User can edit the intensity from  $15-60\mu\text{W} / \text{cm}^2 / \text{nm}$  without adjusting the machine height.

### Safety

I Rex do not emit ultra violet rays along with blue light, so the potential risk of the skin damage will be reduced.

The UV spectrum produced by conventional phototherapy units may cause skin problems like colour change and other potential risk in infant.

I Rex do not emit Infra red range of spectrum. Infra red emitted by the conventional phototherapy machines causes fluid loss of new born.

All conventional phototherapies are producing scattered blue lights, which will be harmful to nurses and care takers. But I Rex offers focused light which is harmless and helps to make the treatment easy.

### Performance

Adjustable & controlled Intensity and narrow band wave length helps bilirubin breaking becomes faster than any other conventional method of treatment.

If the patient requires intensive phototherapy or having severe bilirubin, Ibis strongly recommends double surface method of treatment (I Rex D).

