



Lumens Medical Pvt. Ltd.™

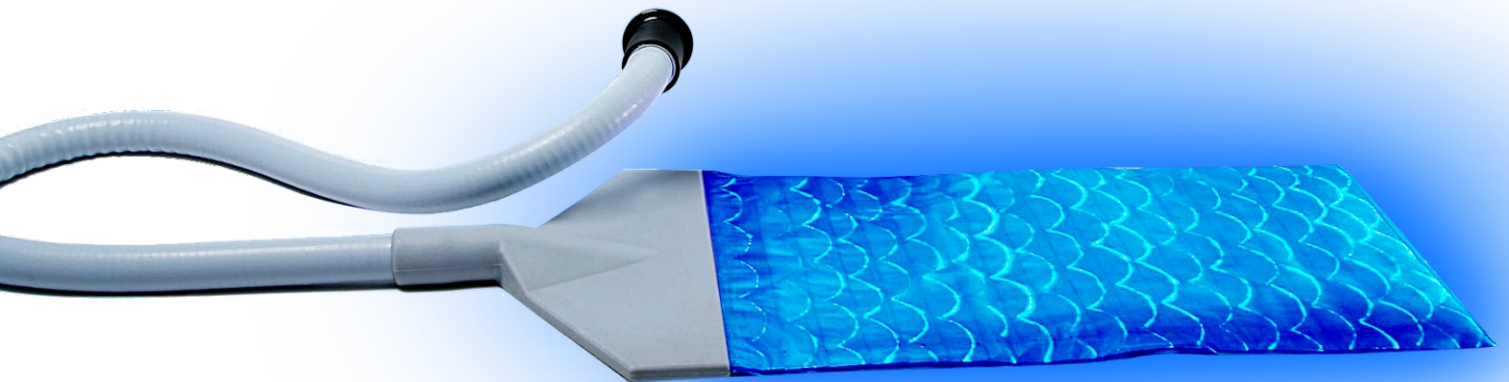
Life Enhancing Technology

An ISO 9001, ISO 13485, CE Certified Company

Hyper bilirubinemia treatment to New-borns
with latest optical fiber based blue light therapy

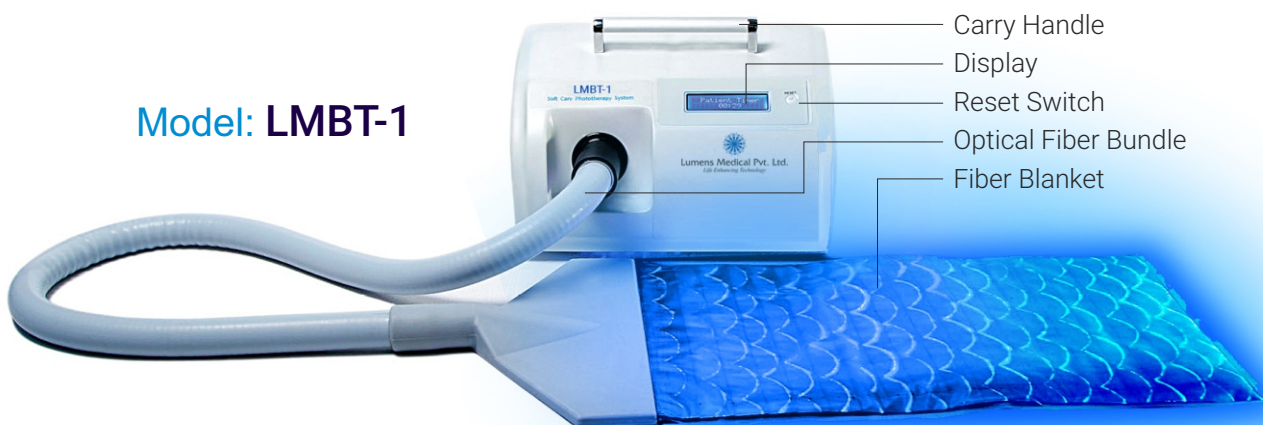
FIBER OPTIC BLANKET PHOTOTHERAPY

from Lumens Medical Pvt. Ltd.



- Higher spectral irradiance
- No spilling of intense blue light into infants eyes.
- Ideal irradiance: $>35\text{pW/cm}^2/\text{nm}$
- Uniform illumination

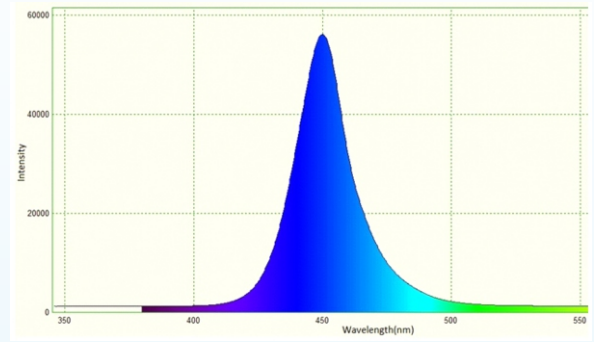
Model: **LMBT-1**



Features

- Ideal irradiance: > 35pW/cm2/nm
- Spectrum: 440-475nm with peak wavelength at 450nm
- Larger surface area: illumination area (25cm X 40cm)
- Innovative optical design: Provides uniform Illumination
- Device Timer: Monitor treatment time & LED usage
- Quiet operation: Very low noise operation
- Long life LED source: 50,000 hours
- Flexible Blanket: Increases comfort & allows wrap over the baby

Emission spectrum of LED Source



Safety

- No ultraviolet (UV) emission.
- No infrared radiation (1k) emission.
- Automatic cut off for overheating.
- Blanket Detection logic: LED will turn on only if Blanket is connected.

Comparison to AAP Guidelines

Components of Phototherapy	AAP Guideline*	LMBT-1 Blanket Phototherapy system
Light source (nm)	Spectral range 460- 490nm	Spectral range 440-475nm
Light irradiance (LW/cm2/nm)	32 [AW/cm2/nm]	Greater than 35 [AW/cm2/nm]
Body surface area (cm2)	Expose maximal skin area	Larger Blanket (25cm x 40cm)
Distance	Distance between the infant and the light source is critical to spectral irradiance level.	Direct contact with Baby's skin eliminates distance deficiency.

*American Academy of Pediatrics, Subcommittee on Hyperbilirubinemia.

Electrical specifications

Voltage : 180-260V AC
(take care of voltage fluctuations)
Frequency : 50-60 Hz
Power (max) : 45Watts
Fuse : 3.15A

Electrical Classification

Type of protection against electrical shock : IEC Class 1
Degree of protection against electrical shock : Type B
Mode of operation : Continuous

Dimensions

Light Box : 28cm(W) x 20cm(L) x 17cm(H)
Length of Fibre bundle : 125+5cm
Total Weight (Light Box & Blanket) : <3 kilograms

Operating conditions

Ambient temperature : +10°C to +35°C
Humidity : 10% to 90% RH non-condensing

Transport & Storage requirements

Temperature : -40°C to +70°C
Humidity : 0% to 100% RH noncondensing



Lumens Medical Pvt. Ltd.™

Life Enhancing Technology

2-24-113/3/B/NR, Laxmi Narayana Nagar,
Uppal, Hyderabad-500 039, Telangana.

Tel.: 7997192056, 6309995893

Email : lumensmedical@gmail.com www.lumensmedical.com



CDSCO Reg No. LUMENS/HYDER/TE/M/MD/004652