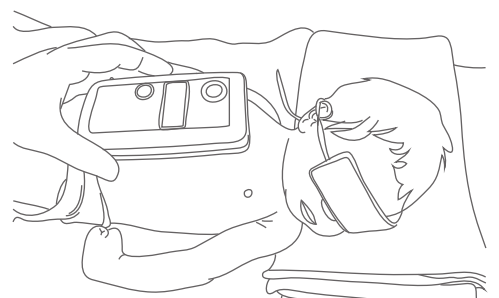
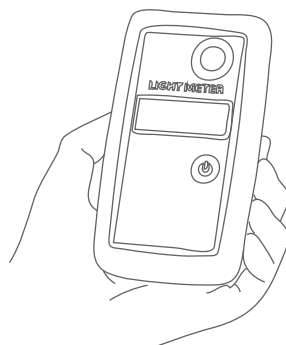
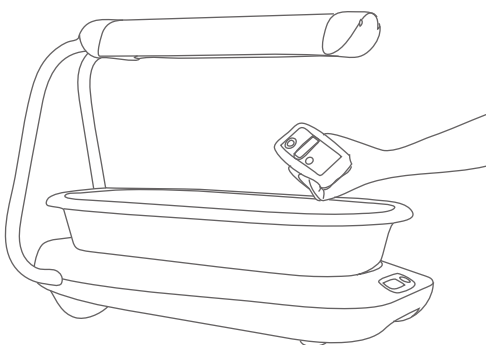




LIGHTMETER

An accurate instrument to **determine the intensity of phototherapy light.**



Overview

- Model V7.00 - compact, handheld unit

1. Sensor

- spectral response chosen to match wavelength used for jaundice treatment
- two sided measurement for convenient measurement of double sided phototherapy devices such as the MTTs Firefly

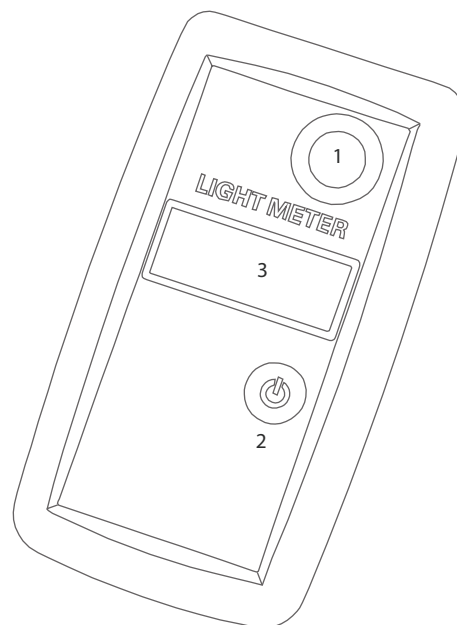
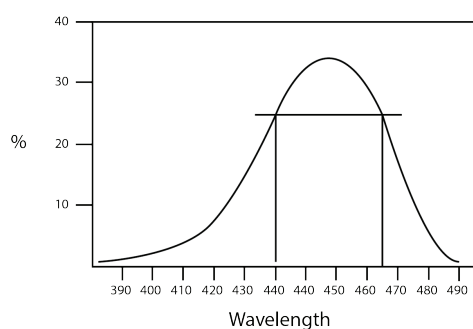
2. Controls

- durable touch sensitive button

3. Displays/Indicators

- liquid-crystal display (LCD)
- 4 digits indicator; 1 minute auto-off display
- reflective screen readable even under bright lights or in sunlight

Spectral Response Graph



Dimensions and Weight

Height	12.5 cm
Width	7.0 cm
Depth	2.4 cm
Weight	225 g

Performance Specifications

Application	LED and blue fluorescent phototherapy light sources; using the lightmeter for halogen phototherapy results in a minor but not considerable error
Measurement Range	0.0 to 150 $\mu\text{W} \cdot \text{cm}^{-2} \cdot \text{nm}^{-1}$
Spectrum Measured	450nm to 465nm (1/2 power points)
Accuracy	+/- 2%

Light Specification

- Light power from 20 to 40 $\mu\text{W} \cdot \text{cm}^{-2} \cdot \text{nm}^{-1}$ shows the normal operation phototherapy.
- Light power over 30 $\mu\text{W} \cdot \text{cm}^{-2} \cdot \text{nm}^{-1}$ shows the appropriate operation phototherapy for babies with high bili-rubin levels.
- Light power less than 8 $\mu\text{W} \cdot \text{cm}^{-2} \cdot \text{nm}^{-1}$ shows the phototherapy will be ineffective and bulb or LEDs need to be changed.
- Light power should be measured once a month to decide whether the bulb/LCDs should be changed.

Battery Specification

Type	2xAA 1.5V Alkaline, Non-rechargeable
Lifetime	Up to 120h operating time

Environmental Specification

Operation Temperature	-10°C to 40°C
Storage Temperature	-20°C to 45°C
Operation Atmospheric Pressure	600 to 1300hPA
Storage Atmospheric Pressure	300 to 1500hPA
Operation Humidity	10 to 95 % RH
Storage Humidity	5 to 95 % RH
Operation Altitude	Up to 3000m
Storage Altitude	n/a
Sealing	IP54
Drop/Shock	1M onto hard surface, IEC68-2-32

Ordering Information and Servicing

ORDERING INFO	ITEM ORDER NO	
Lightmeter V7.00	BLM-1000	Main Unit
Lightmeter V7.00	Firefly-1020	Accessory to Firefly Phototherapy
Lightmeter V7.00	PT3-1030	Accessory to V3000 Phototherapy

Calibration	Required	Every 3 years after delivery date; return to MTTs for calibration
Parts		No customer serviceable parts; return to MTTs for service



MEDICAL TECHNOLOGY TRANSFER AND SERVICES Co., LTD
EN ISO 13485: 2012 Certified Company

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