

LifeKit by **MTTS**



LIGHTMETER

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

Overview

- Model LM-800 - compact, handheld unit

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

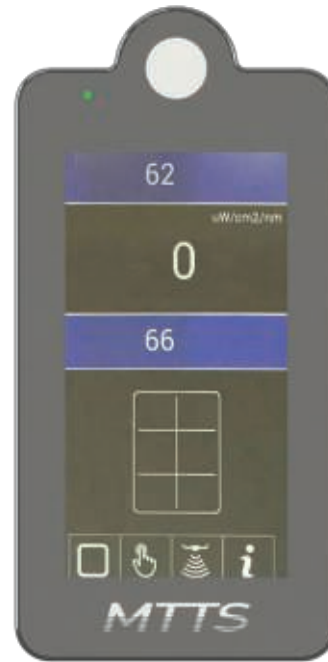
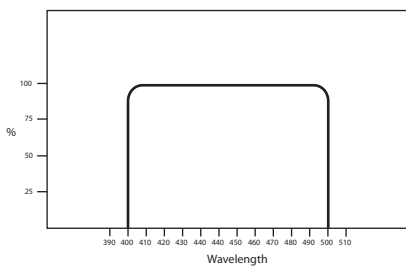
Displays/Indicators

- touch screen liquid-crystal display (LCD)
- low battery
- 5 second result display time
- system failure
- out of measurement

Additional Features - available in 2022

- oxygen measurement
- flow measurement

Spectral Response



Dimensions and Weight

Height	148 mm
Width	73 mm
Depth	17 mm
Weight	200 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
Spectral response	400-500nm
Measurement range	single side 0.1 – 150.0 $\mu\text{W}/\text{cm}^2/\text{nm}$ double side 0.1 – 300.0 $\mu\text{W}/\text{cm}^2/\text{nm}$
Resolution	0.1 $\mu\text{W}/\text{cm}^2/\text{nm}$
Cosine characteristics	$\pm 2\%$ @ 30 degree angle $\pm 7\%$ @ 60 degree angle $\pm 25\%$ @ 80 degree angle
Accuracy	+/- 3% of reading

Battery Specification

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

Environmental Specification

Operation Temperature	10°C to 40°C
Storage Temperature	0°C to 50°C
Operation Atmospheric Pressure	70 – 106 kPa
Storage Atmospheric Pressure	70 – 106 kPa
Operation Humidity	30 – 90% RH non condensing
Storage Humidity	5 – 90% RH non condensing
Sealing	IP-54
Drop/Shock	1m onto hard surface, meets or exceeds IEC 60068-2-32 (only with the protective case)

Standards

ISO 13485:2016
IEC 61010-1:2010
IEC 61326-1:2012

Ordering Information and Servicing

ORDERING INFO	ITEM ORDER NO	
Lightmeter	LM-800	Main Unit
Rechargeable batteries and charger	LM-800-010	Optional

Calibration	Required	Every 2 years after delivery date; return to MTTs for calibration
Parts		No customer serviceable parts; return to MTTs for service

MTTS

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