

# BILIRUBIN LIGHT METER MODEL 9.2 NML

Handheld Digital Bilirubin Light Meter  
with Integral Sensor for Neonatal Jaundice



With the new Bilirubin Light Meter, you can quickly and easily measure therapeutic light to know the exact dose of light you are delivering to your patients.

The Bilirubin Light Meter enables you to measure irradiance on Bilicocoon<sup>®</sup> phototherapy pads in order to deliver optimal treatment to patients with jaundice.

It is easy to use, safe, and reliable.

With simple single-button operation, the Bilirubin Light Meter measures the irradiance through the sensor and displays the results instantly on the digital screen.

This is the necessary tool to guarantee that your phototherapy device delivers the optimal intensity within the correct spectrum of light recommended by the international guidelines<sup>1</sup>.

## FEATURES AND BENEFITS

- Handheld, compact, durable
- Easy to use, simple single-button touch
- NIST Traceable accuracy
- LCD display
- Made in USA
- CE approved

# BILIRUBIN LIGHT METER

## MODEL 9.2 NML

### SENSOR

GaP Photodiode packaged in hermetically sealed UV glass window cap. Filter used to narrow response as shown on Spectral Response Graph.

### BILIRUBIN LIGHT METER OPERATION

To operate your Bilirubin Light Meter, aim the sensor window located on the top panel of the meter directly on the Bilicocoon<sup>®</sup> phototherapy pad. For best results and in order to ensure repeatability, take 6 measuring points located at equidistance and calculate the average intensity.

Battery operation voltage is viable from 9V down to 6.5V. Below 6.5V, the numbers on the LCD display will begin to dim, indicating the need for battery replacement.

### SAFE USAGE OF BILIRUBIN LIGHT METER

- Wear actinic eye protection when checking intense light sources.

(1) International Guidelines established by the Subcommittee on hyperbilirubinemia and published by the American Academy of Pediatrics, in Pediatrics<sup>®</sup> 2004.

SPECIFICATIONS	
MODEL	9.2 NML
IRRADIATION RANGE	0-1999 $\mu\text{W}/\text{cm}^2/\text{nm}$
PEAK RESPONSE	98% at 450 nm
RESPONSE	422-499 nm
RESOLUTION	1 $\mu\text{W}/\text{cm}^2/\text{nm}$
CONVERSION RATE	3.0 Readings / Sec
DISPLAY	3.5 Digit LCD
DIGIT SIZE	0.4" / 10.2 mm
OPERATIONAL TEMPERATURE	32°F to 100°F / 0°C to 37.8°C
OPERATIONAL HUMIDITY	5% to 90% RH
ACCURACY	$\pm 1.67\%$ at 35 $\mu\text{W}/\text{cm}^2/\text{nm}$ Ref. NIST
METER DIMENSIONS	4.92L x 2.4W x 1.42D in / 125L x 61W x 36D mm
WEIGHT	4.5 oz / 128g Including Battery
POWER SOURCE	9-Volt DC Battery
LENS	UV Glass
DIFFUSER	Teflon
DETECTOR	GaP Photodiode with Filter
AGENCY APPROVAL	CE Mark

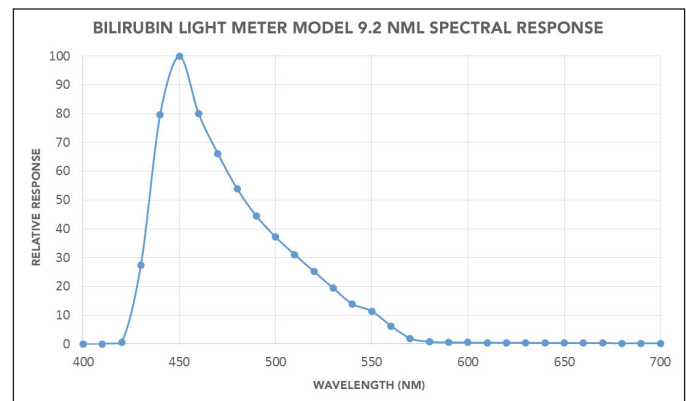


Fig. 1. Model 9.2 NML Spectral Response