

Reliable, Reproducible Measurements

◆ The key to the Olympic Bili-Meter's accuracy is the precision optical system. The sensor has a dome diffuser to minimize angular sensitivity. Behind the diffuser a specially designed dichroic filter transmits only the narrow wavelengths of blue light that principally affect bilirubin. Another filter blocks the infrared, and a sensitive, blue-enhanced diode detects radiation. To this laboratory quality optical system, the new Model 22 Bili-Meter has now added microprocessor electronics for improved linearity, reliability & memory.

Measure All Phototherapy Lights

◆ The Model 22 Bili-Meter is available with either or both of two sensors. Both sensors measure in standard units of microwatts per square centimeter per nanometer - range 0.1 to 150.0 - & the same spectral region of 425-475 nanometers.

◆ **Type B-22 Sensor-** Used for measuring all regular phototherapy lights including fluorescent, halogen & even sunlight. However, the B-22 Sensor should not be used with fiberoptic phototherapy pads.

◆ **Type F-22 Sensor-** Designed specifically to measure irradiance of fiberoptic phototherapy pads (only). Measures irradiance over large area (45.5 square centimeters) directly at surface of pad. Eliminates ambient light error.

◆ Both Type B-22 and Type F-22 sensors can be used interchangeably with Model 22 Bili-Meter digital readout units; however, each sensor should only be used to measure the specific type of light source described above.

BC Group International Inc.
3081 Elm Point Industrial Dr.
St. Charles, MO 63301 USA
Phone: 314-638-3800 Toll Free: 1-888-223-6763
Fax: 314-638-3200
Email: sales@bcgroupintl.com
Website: www.bcgroupintl.com

BILI-METERS

Olympic Model 22 Bili-Meters



The Olympic Bili-Meter has long been recognized as the standard of accuracy for measuring irradiance during neonatal phototherapy - used for almost 20 years in thousands of nurseries worldwide. Now the Model 22 Bili-Meter offers the same trusted accuracy along with several improved features, including memory. When using previous model Bili-Meters, it was necessary to memorize the final reading before releasing the button and shutting the instrument off. With the Model 22 Bili-Meter, however, when you release the button, your final reading remains locked on the display for 30 seconds. This gives you time to put the Bili-Meter down and chart your reading without having to memorize it. Your job is made easier and faster, and the possibility of memory error is eliminated. To take a new (or repeat) reading, simply press and hold the button and the previous memory is erased.



OLYMPIC BILI-METER SERIES

SPECIFICATIONS

| | |
|--------------------------------|--|
| LARGE CLEAR DISPLAY | Easy to read under all lighting conditions. |
| ACTION SPECTRUM | Measures action spectrum of bilirubin, 425-475 nm. |
| STANDARD UNITS | Microwatts per square centimeter per nanometer. |
| INTERCHANGEABLE SENSORS | Type B-22 Sensor for measurement with regular phototherapy lights. Type F-22 Sensor for use with fiberoptic pads only. |
| EASY TO CLEAN | Can be wiped clean with disinfectants. |
| LONG BATTERY LIFE | Automatic shut-off. |
| MICROPROCESSOR | For improved linearity, reliability and memory. |
| AUTO-RANGING | Automatically measures irradiance from 0.1 to 150.0 |
| MEMORY FEATURE | To read, simply press and hold the memory button while aiming the sensor at light. Irradiance is displayed continuously. When the memory button is released, reading is locked on the display for 30 seconds. No need to memorize the reading before you chart it. |

BILI-METER MODEL SUMMARY

| Model | Description |
|--------------|--|
| 53822 | Model 22 Bili-Meter™ with Type B-22 Sensor |
| 53825 | Model 22 Bili-Meter™ with Type F-22 Sensor |
| 53865 | Type B-22 Sensor |
| 53860 | Type F-22 Sensor |

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