

Laser Tissue Blood Oxygenation Monitor

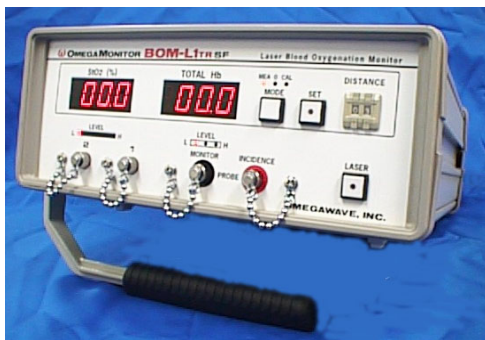
BOM-L1TRSF

BOM-L1 TRSF is developed for measurement of blood volume and its oxygenation in a shallow part of tissue from the surface non-invasively and continuously.

BOM-L1 TRSF uses 3 red laser diodes, an optical fiber probe and a special algorithm.

BOM-L1 TRSF outputs the volume of oxy-Hb, deoxy-Hb and total Hb, and the oxygenation of the blood.

The measuring depth is about 2 - 5mm from surface, and it depends on the optical fiber separation.



Probe

8 L10mm



SPECIFICATION

Laser	Laser Diodes 635nm , 650 and 690nm <2mW at the probe end
Probe	Optical fiber
Output	Tissue Oxygenated Blood Volume (Oxy-Hb) Tissue Deoxygenated Blood Volume (Deoxy-Hb) Total Tissue Blood Volume (Total Hb) Oxygenation (StO2) 0-10V Analog
Indicator	StO2, Total Hb, REFLEX(Received Power)
AVG	1, 2, 5 (sec) Select
Power requirement	100V , 120V or 240V AC, 0.2W
Size	257(W)×98(H)×324(D) mm
Weight	5kg

USE: Evaluation for brain condition after ischemia
Muscle oxygenation measurement for small animals
Evaluation for vasodilator

REF. : Susumu Kashima : Spectroscopic measurement of blood volume and its oxygenation in a small volume of tissue using red laser lights and differential calculation between two point detections, Optics & Laser Technology, 35, 485-489, 2003.

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