oxiplex TS 200™

Quantitative Tissue Oximeter

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Quantitative Tissue Oximeter

The OxiplexTS200 is a non-invasive, near infrared, dual channel measurement, quantitative tissue oximeter ergonomically designed for clinical use in the OR, ER and doctor's office.

SPECIFICATIONS

Method of Operation	Frequency domain–multiple distance
Modulation Frequency	110 MHz
Measurements	Tissue oxygen saturation Oxy- and deoxy-hemoglobin concentration Total hemoglobin concentration Absorption coefficient Reduced scattering coefficient Intensity and phase
Light Sources	8 laser diodes emitting at 690 nm 8 laser diodes emitting at 830 nm Laser diodes are time multiplexed
Light Detectors	Photomultiplier tubes Computer-controlled bias voltage(Gain) Automatic safety shutdown
Average Optical Power	Less than 1 mW
Measurements Channels	Two
Sensors	All fiber optics sensors Several sensor types for different applications Fiber length up to 10 m MRI compatible sensors available upon request
Spatial Resolution	4 Emitter-Detector distances per sensor
Data Acquisition Rate	From 20 ms to minutes
Maximum Experiment Duration	Up to several days (250,000 points)
Software	Windows 8 OS
Electrical Requirements	110-240 Volt, 50/60 Hz
Dimensions	38 cm x 32 cm x 20 cm
Weight	11 kg

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