

Invivo 4500 MRI Pulse Oximeter

Total fiberoptic technology sheds new light on your patient's status.

As a stand-alone unit, the Invivo 4500 MRI Pulse Oximeter uses advanced fiberoptic technology to provide accurate SpO₂ readings and heart rate measurements during magnetic resonance imaging.

When used in conjunction with the Invivo Omni-Trak 3100 and Omega 1400 MRI Noninvasive Blood Pressure Monitor, the Invivo 4500 MRI Pulse Oximeter forms a complete MRI vital signs monitoring system. *True, MR-compatible* instrumentation allows *continuous* monitoring of all physiologic parameters to maximize patient safety in the MRI environment.

The Invivo 4500 MRI Pulse Oximeter clearly represents the best value in MRI saturation monitoring available today.

Total fiberoptic technology maximizes patient safety.

Invivo's MRI sensors feature advanced fiberoptic cable that minimizes the risk of patient injury from radio frequency (RF) current. The convenient, comfortable sensors can be used on a variety of sampling sites in neonate, pediatric and adult patients.

Total MRI compatibility permits accurate monitoring and interference-free MR scanning.

The Invivo 4500 MRI Pulse Oximeter is specifically designed for use in the magnetic resonance imaging environment. It eliminates RF interference and oximeter RF leakage problems. Total MRI compatibility allows clear, undistorted MR images and consistent accuracy of SpO₂ and heart rate measurements.



Proven reliability is backed by years of solid experience.

Invivo Research has established a proven track record of performance, with monitoring equipment in operation at hundreds of MR sites throughout the world.

System expandability offers cost-effective options.

The Invivo 4500 MRI Pulse Oximeter (Model 3109-1) can be upgraded to a complete vital signs monitoring system to meet future monitoring requirements. Components may be added on a cost-effective basis to provide increased capabilities, such as ECG, Respiration, NIBP and EtCO₂ — all with the same MRI compatibility and accuracy as the 4500 MRI Pulse Oximeter.

Easy-to-read displays are a convenient highlight.

The Invivo 4500 MRI Pulse Oximeter features clear, bright red LED displays for SpO₂ and Heart Rate, a bright red LED pulse bar to determine signal

quality, and a "Smart Display" message center for ease in sensor placement and troubleshooting.

Patient status alarms provide peace of mind.

Saturation, heart rate, and sensor alarms warn of any changes in the patient's status. You are also alerted when sensor function is compromised due to light interference or sensor displacement.

Adaptable power source increases flexibility and portability.

Versatile AC power or battery operation allows the Invivo 4500 MRI Pulse Oximeter to be used in both magnetic resonance imaging suites and mobile imaging facilities. The compact size, light weight, and optional aluminum cart or pole mount permit ease of operation, viewing, and portability in the magnet room.

 **Invivo Research, Inc.**
PRECISION BIOMEDICAL INSTRUMENTS

Specifications for 3109-1 and 3109-3:

3109-1

System-Ready MRI Fiberoptic Pulse Oximeter with AC adapter.

3109-3

Stand-Alone MRI Fiberoptic Pulse Oximeter with battery and AC adapter.

Saturation Accuracy:	100-90%, $\pm 2.0\%$ 90-80%, $\pm 2.2\%$ 80-70%, $\pm 2.5\%$
Pulse Rate Range:	20-250 bpm
Signal Quality/Pulse Display:	LED pulse bar
System Messages:	System status "Smart" display
Alarms:	Low and High Saturation Low and High Pulse Rate Probe Off
Outputs:	Analog/Digital Communications External Triggering
Dimensions:	3.25"H x 6.625"W x 10.25"D (8.25 cm x 16.8 cm x 26.03 cm)
Weight:	3109-1 5.6 lbs (2.54 kg) without battery. 3109-3 7.6 lbs (3.45 kg) with battery.
Power:	3109-1 System-Ready: 14-24 VDC, supplied by Omni-Trak 3100 System. 3109-3 Stand-Alone: 18 VDC, supplied by HE28A (120 VAC) wall outlet mounted AC adapter. Uses HE31B adapter for 230 VAC. Rechargeable battery.

All specifications are subject to change without notice.

Also available for MRI monitoring from Invivo:

3100 PMS OmniTrak

MRI Patient Monitoring System

Complete vital signs monitoring – ECG, NIBP, Respiration, SpO₂,
and optional EtCO₂.

3100 OM OmniTrak

MRI Patient Monitoring System

For ECG and Respiration monitoring.

3103-1 Omega 1400

MRI Noninvasive Blood Pressure Monitor

For noninvasive blood pressure monitoring.

