

EQUANOX Advance™ Sensor, Model 8004CA

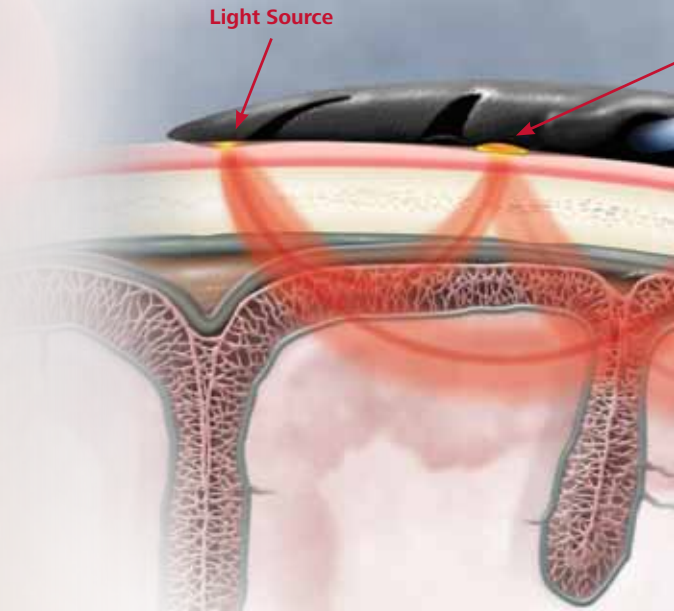
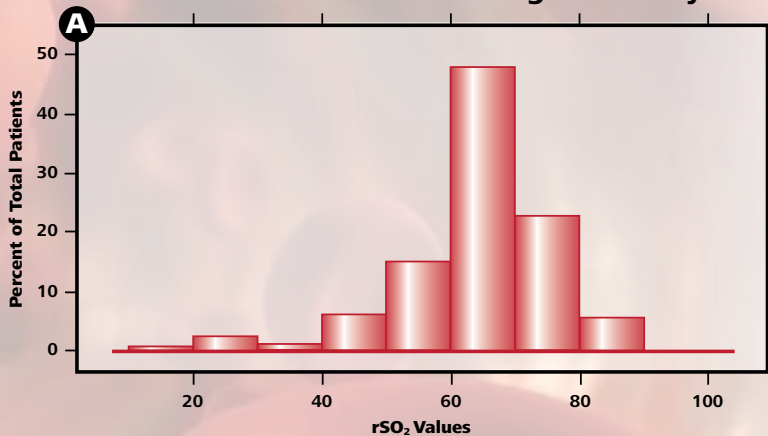
Greater Accuracy and Reliability for Enhanced Patient Outcomes

The latest advancement in near-infrared spectroscopy (NIRS) regional oximetry, EQUANOX Advance™, Model 8004CA cerebral oximeter sensor offers clinicians absolute accuracy to optimize patient care. EQUANOX Advance is the only NIRS technology that offers accurate rSO_2 values on all patients...no more guessing when the system doesn't provide a reading, and no more outliers that misrepresent patients' true physiologic condition.†

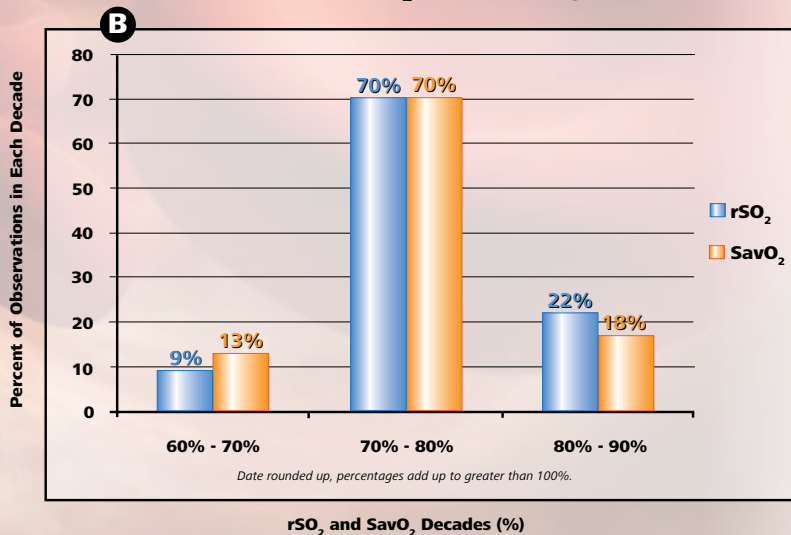


With EQUANOX Advance, if rSO_2 values are below 60%, it is a clear indication that a patient may be in a critical oxygen reserve condition and immediate intervention should be considered.

Conventional NIRS Trending Variabilityⁱⁱ



EQUANOX Advance rSO_2 Values Aligned with $SavO_2$ ⁱ



Compared to traditional NIRS trending technology, EQUANOX Advance is absolute, providing enhanced accuracy in rSO_2 measurements on all patients, regardless of weight or skin color!...no more guessing or over-treatment if patients do not read, or read inaccurately. In the histograms **A** and **B** (at left), conventional trending technology is in graph **A** and EQUANOX Advance is in graph **B**. Graph **B** represents the general alignment of data observations of both EQUANOX Advance-reported rSO_2 values (blue) and invasive blood-draw-derived $SavO_2$ values (orange) at room air.^{i,ii}

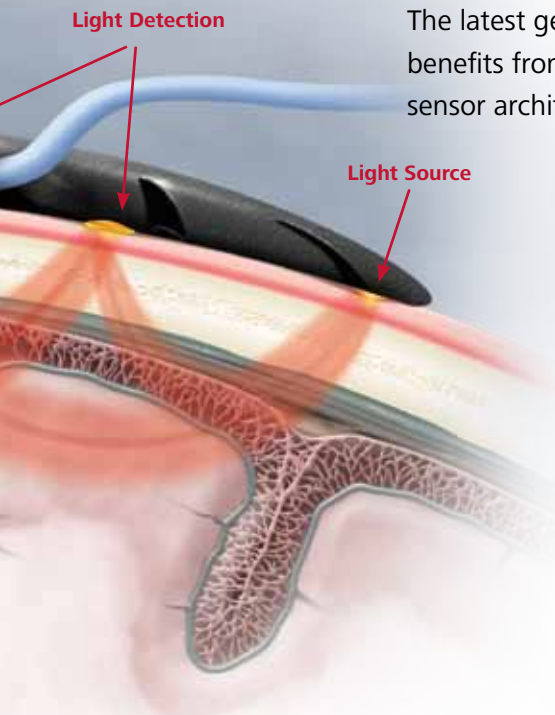
In a recent series of randomly chosen healthy subjects, $SavO_2$ values were in the 60% range, suggesting that normal measurements are in this range, and that lesser values may be injurious.ⁱ

Absolute Intervention Threshold



EQUANOX Advance: Greater Accuracy and Reliability through Better Science

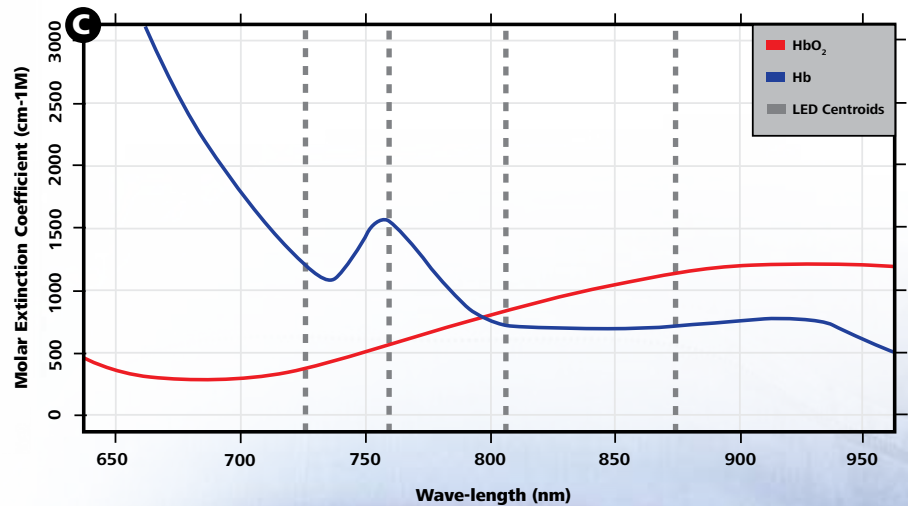
The latest generation of Nonin's EQUANOX technology, the EQUANOX Advance sensor benefits from the proven repeatability and consistency of our patented dual-emitter sensor architecture.ⁱⁱⁱ



Nonin Medical's patented dual-emitter architecture effectively targets the cerebral cortex, eliminating surface artifacts that interfere with measurement accuracy.

EQUANOX Advance utilizes four wavelengths of light to measure the balance of oxy- and deoxy-hemoglobin, while compensating for tissue factors that reduce rSO_2 accuracy. The result is highly accurate measurements of patients' true arterial and venous saturation.

Nonin EQUANOX Advance Four-wavelength Accuracy



Older NIRS technology claimed to be absolute, but clinician confidence suffered when the technology could not read some patients. In a recent series of 50 healthy adults, EQUANOX Advance captured data on all subjects, regardless of age, gender, body type or skin color, while 5% of subjects did not read using other technologies.^{iv}



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Product Highlights

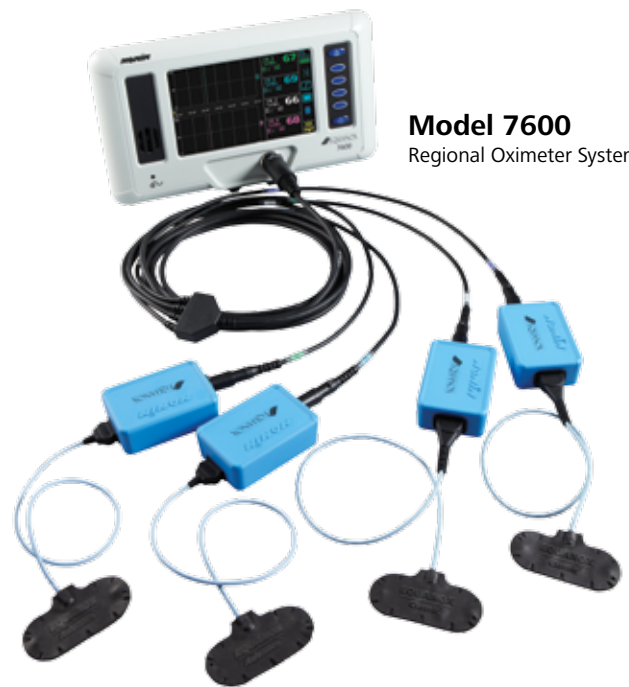
- **Absolute Accuracyⁱ** - $4.1 A_{rms}^*$
- **Consistent** - Repeatable results for maximum efficiency and time savingsⁱⁱⁱ
- **Immediate Response** - Near-instant measurements ensure readings from the moment the sensor is placed
- **Real-time Readings** - Sampling rates less than two seconds apart guarantee up-to-date saturation readings



Nonin Medical: Innovative Leaders in Noninvasive Physiological Monitoring

Nonin Medical is a technology-driven company and a global leader in developing noninvasive medical monitoring solutions that improve the quality of people's lives and enable them to live their lives to the fullest. We do this by developing low-cost, high-quality, easy-to-use technologies that empower clinicians to make better decisions and individuals to proactively manage their health.

The foundation of our success is our ability to apply innovative signal processing and sensor design technologies to create smaller, lower power, more portable solutions that advance industry standards and meet customers' evolving needs.



Model 7600
Regional Oximeter System

Portable and durable, the 7600 Regional Oximeter System has four channel display, Philips® VueLink interface and serial output of patient data.

References:

ⁱ QATR1587 Calibration and Validation of a Non-Invasive Regional Oximeter System
ⁱⁱ Data on file at Nonin Medical, Inc. Plymouth, MN

ⁱⁱⁱ Lobbstaal A et al; White Paper 2009; Nonin Medical, Inc.

^{iv} Data on file at Nonin Medical, Inc. Plymouth, MN

*Accuracy for EQUANOX Advance™ Sensor, Model 8004CA only.

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