

Onyx[®] 9500

Fingertip Pulse Oximeter

The original all-in-one fingertip pulse oximeter™



Pulse oximetry at your fingertips – anywhere, anytime. Nonin revolutionized pulse oximetry with the Onyx. Hundreds of thousands of people trust Onyx, the first self-contained digital fingertip pulse oximeter. Incorporating the electronics *and* sensor into one unit, the Onyx provides a cost-effective solution for spot-checks and short-term monitoring, as well as unparalleled reliability and performance that's easy and affordable.



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The portability and functionality of the Onyx makes it a valuable tool in any situation where a fast and accurate reading of blood oxygen saturation and pulse rate are needed. Never search for a pulse oximeter or sensor again.

- **Small & Lightweight** – Carry the Onyx anywhere—on a lanyard, in a carrying case or in your pocket. It weighs less than 2 oz.
- **Large Bright LED Display** – SpO₂ and pulse rate that can be read from any angle, day or night.
- **Pulse Quality Indicator** – Brilliant, easy-to-see LED provides a quick and accurate assessment of patient readings.
- **Pediatric to Adult Finger Sizes** – Accommodates a wide range of finger thicknesses, 0.3 to 1.0 inch (8 mm to 26 mm).
- **Automatic On/Off**
- **Energy Efficient** – Operates on two AAA alkaline batteries for approximately 1600 spot-checks or up to 18 hours of continuous operation.
- **Durable & Reliable** – Rugged enough for use in the most demanding situations. The Onyx has US Army and US Air Force aeromedical certification for use in helicopters.
- **Optional Carrying Cases** – Choose from a soft carrying case or the Justice Mark 2 Protective Case.



Specifications

Dimensions..... 3.45 cm (1.36") W x 5.84 cm (2.3") H x 3.30 cm (1.3") D

Warranty..... 2 years

Oxygen Saturation Display Range 0 – 100% SpO₂

Pulse Rate Display Range 18 – 321 beats per minute (BPM)

Oxygen Saturation Declared Accuracy Range (A_{rms}*) 70 – 100% SpO₂ ±2 digits

Low Perfusion Oxygen Saturation Declared Accuracy Range (A_{rms}*) 70 – 100% SpO₂ ±2 digits

Pulse Rate Declared Accuracy Range (A_{rms}*) 20 – 250 BPM ±3 digits

Low Perfusion Pulse Rate Declared Accuracy Range (A_{rms}*) 40 – 240 BPM ±3 digits

Measurement Wavelengths and Output Power**
 Red 660 nanometers @ 0.8 mw maximum average
 Infrared 910 nanometers @ 1.2 mw maximum average

Temperature
 Operating 0° to +40°C (+32° to +104°F)
 Storage/Transportation -30° to +50°C (-22° to +122°F)

Humidity
 Operating 10 – 90% noncondensing
 Storage/Transportation..... 10 – 95% noncondensing

Altitude
 Operating Up to 12,192 meters (40,000 feet)
 Hyperbaric Pressure Up to 4 atmospheres

Battery Life (Continuous) ... Approximately 1,600 spot-checks based on 18 hours of operation using two AAA-size alkaline batteries, calculated at 40 seconds per spot-check

Battery Life (Storage) 9 months typical, using two AAA-size alkaline batteries

Classifications per IEC 60601-1 / CSA601.1 / UL 60601-1
 Degree of Protection..... Type BF-Applied Part
 Mode of Operation..... Continuous
 Enclosure Degree of Ingress Protection..... IPX2

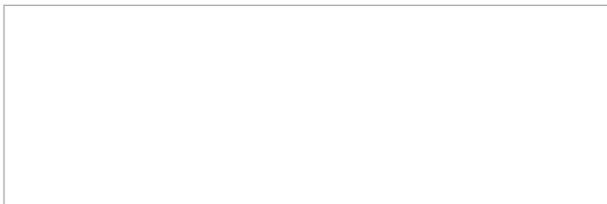
This product complies with ISO 10993-1
 *±1 A_{rms} represents approximately 68% of measurements
 **This information is especially useful for clinicians performing photodynamic therapy



Product Highlights

- **Superior Accuracy in Low Perfusion**
- **Durable**
Designed for the most demanding environments
- **Simple**
Automatic on/off operation
- **Versatile**
Accommodates widest range of finger sizes from pediatric to adult
- **Efficient**
18 hours of continuous use; 1600 spot-checks

Authorized Distributor:



Specifications are subject to change without notice.



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