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.
Onyx® 9500

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—one 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 (Â₃₉₉₉)..................................................................................................................................................................................70 – 100% SpO₂ ± 2 digits
- **Low Perfusion Oxygen Saturation Declared Accuracy Range (Â₃₉₉₉) .............................................70 – 100% SpO₂ ± 2 digits
- **Pulse Rate Declared Accuracy Range (Â₃₉₉₉) ..............20 – 250 BPM ± 3 digits
- **Low Perfusion Pulse Rate Declared Accuracy Range (Â₃₉₉₉) ..................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

- **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 Â₃₉₉₉ 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:

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