

Onyx[®] II 9550

Fingertip Pulse Oximeter



Vital Signs Within Reach.[™]

Nonin, the world leader in fingertip oximetry, has designed years of clinical experience into the Onyx II. The electronics and sensor are incorporated into the world's smallest fingertip oximeter, providing a cost-effective solution for spot-checks and short-term monitoring. Onyx II — not just a new look. Superior performance and unparalleled reliability put vital signs within reach anywhere, anytime.

Onyx® II 9550

Product Highlights

- **Superior Accuracy** – in low perfusion
- **Durable** – Designed for the most demanding environments
- **Simple** – Automatic on/off operation
- **Efficient** – New turn-off mechanism allows for 2,500 spot-checks or 21 hours of continuous use
- **Versatile** – Accommodates widest range of finger sizes from pediatric to adult
- **Enhanced Design** – Smaller size with an enclosed spring and easier battery access



The portability and functionality of the Onyx II make 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 II anywhere — on a lanyard, in a carrying case or in your pocket. It weighs less than 2 oz.



Enhanced Design

Smaller size with an enclosed spring and easier battery access.

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, 8 to 26 mm (0.3 to 1.0 inch).



Automatic On/Off

Auto turn on and off with finger insertion and removal.

Energy Efficient

A new turn-off mechanism allows two AAA batteries to provide approximately 2,500 spot-checks or 21 hours of continuous operation.



Durable & Reliable

Rugged enough to be used in the most demanding situations. The Onyx II has the 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	5.59 cm (2.2") L x 3.3 cm (1.3") W x 3.23 cm (1.27") H
Warranty	4 years
Oxygen Saturation Display Range	0 – 100% SpO ₂
Pulse Rate Display Range	18 – 321 beats per minute (BPM)
Oxygen Saturation Declared Accuracy	
Range (A_{rms}*)	70 – 100% SpO ₂ ±2 digits
Low Perfusion Oxygen Saturation Declared Accuracy Range (A_{rms}*)	70 – 100% SpO ₂ ±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% non-condensing
Storage/Transportation	10 – 95% non-condensing
Altitude	
Operating	Up to 12,192 meters (40,000 feet)
Hyperbaric Pressure	Up to 4 atmospheres
Battery Life	
Continuous	Approximately 2,500 spot-checks based on 21 hours of operation using two AAA-size alkaline batteries, calculated at 30 seconds per spot-check
Storage	4 years, minimum

Classifications per IEC 60601-1 / CSA 601.1/ UL 60601-1:

Degree of Protection	Type BF-Applied Part
Mode of Operation	Continuous
Enclosure Degree of Ingress Protection	IPX2

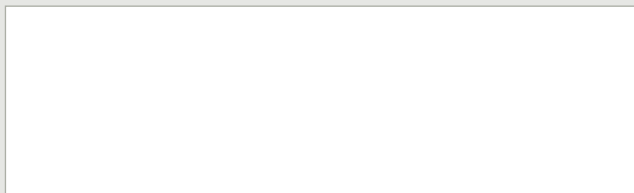
This product complies with ISO 10993-1

*±1 A_{rms} represents approximately 68% of measurements

**This information is especially useful for clinicians performing photodynamic therapy

Specifications are subject to change without notice.

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