

# Onyx<sup>®</sup> II 9550

## *Fingertip Pulse Oximeter*



### **Vital Signs Within Reach.<sup>™</sup>**

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

SpO<sub>2</sub> 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

<b>Dimensions</b> .....	5.59 cm (2.2") L x 3.3 cm (1.3") W x 3.23 cm (1.27") H
<b>Warranty</b> .....	4 years
<b>Oxygen Saturation Display Range</b> .....	0 – 100% SpO <sub>2</sub>
<b>Pulse Rate Display Range</b> .....	18 – 321 beats per minute (BPM)
<b>Oxygen Saturation Declared Accuracy</b>	
<b>Range (A<sub>rms</sub>*)</b> .....	70 – 100% SpO <sub>2</sub> ±2 digits
<b>Low Perfusion Oxygen Saturation Declared Accuracy Range (A<sub>rms</sub>*)</b> .....	70 – 100% SpO <sub>2</sub> ±2 digits
<b>Pulse Rate Declared Accuracy</b>	
<b>Range (A<sub>rms</sub>*)</b> .....	20 – 250 BPM ±3 digits
<b>Low Perfusion Pulse Rate Declared Accuracy</b>	
<b>Range (A<sub>rms</sub>*)</b> .....	40 – 240 BPM ±3 digits
<b>Measurement Wavelengths and Output Power**</b>	
Red .....	660 nanometers @ 0.8 mw maximum average
Infrared .....	910 nanometers @ 1.2 mw maximum average
<b>Temperature</b>	
Operating .....	0° to +40°C (+32° to +104°F)
Storage/Transportation .....	-30° to +50°C (-22° to +122°F)
<b>Humidity</b>	
Operating .....	10 – 90% non-condensing
Storage/Transportation .....	10 – 95% non-condensing
<b>Altitude</b>	
Operating .....	Up to 12,192 meters (40,000 feet)
Hyperbaric Pressure .....	Up to 4 atmospheres
<b>Battery Life</b>	
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

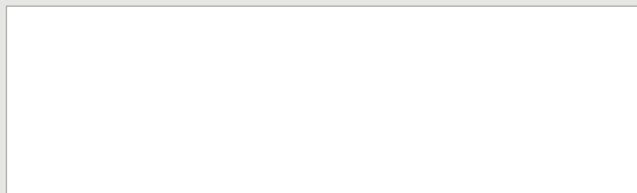
This product complies with ISO 10993-1

\*±1 A<sub>rms</sub> represents approximately 68% of measurements

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

Specifications are subject to change without notice.

Authorized Distributor:



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