

# 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><br><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><br><b>Range (A<sub>rms</sub>*)</b> .....            | 20 – 250 BPM ±3 digits                                                                                                                        |
| <b>Low Perfusion Pulse Rate Declared Accuracy Range (A<sub>rms</sub>*)</b> .....        | 40 – 240 BPM ±3 digits                                                                                                                        |
| <b>Measurement Wavelengths and Output Power**</b><br>Red .....                          | 660 nanometers @ 0.8 mw maximum average                                                                                                       |
| Infrared .....                                                                          | 910 nanometers @ 1.2 mw maximum average                                                                                                       |
| <b>Temperature</b><br>Operating .....                                                   | 0° to +40°C (+32° to +104°F)                                                                                                                  |
| Storage/Transportation .....                                                            | -30° to +50°C (-22° to +122°F)                                                                                                                |
| <b>Humidity</b><br>Operating .....                                                      | 10 – 90% non-condensing                                                                                                                       |
| Storage/Transportation .....                                                            | 10 – 95% non-condensing                                                                                                                       |
| <b>Altitude</b><br>Operating .....                                                      | Up to 12,192 meters (40,000 feet)                                                                                                             |
| Hyperbaric Pressure .....                                                               | Up to 4 atmospheres                                                                                                                           |
| <b>Battery Life</b><br>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                 |

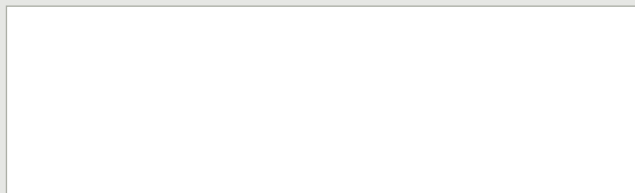
This product complies with ISO 10993-1

\*±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:



### Nonin Medical, Inc.

13700 1st Avenue North  
Plymouth, MN ■ 55441-5443 ■ USA  
P +1.763.553.9968 TF 800.356.8874  
F +1.763.577.5521 E info@nonin.com

[www.nonin.com](http://www.nonin.com)

### Nonin Medical AB

Fibervägen 2, 82450  
Hudiksvall, Sweden  
P +46 650 401500  
F +46 650 401514  
E infointl@nonin.se