



# 9500 Onyx<sup>®</sup>

The original all-in-one  
fingertip pulse oximeter™



Shown larger than actual size

## Pulse Oximetry Has Never Been This Easy & Affordable

Nonin's many years of experience in pulse oximetry innovation have led to the development of the world's smallest self-contained digital fingertip pulse oximeter - the Onyx. Incorporating the electronics *and* sensor into one unit - the Onyx provides a cost effective solution for spot-checks and short-term monitoring. Earning the trust of clinicians worldwide, the Onyx has provided unparalleled reliability and superior performance through its daily use - anywhere, anytime.

### Product Highlights

- ✓ Proven Accuracy & Durability - *Used by clinicians worldwide*
- ✓ Simple - *Automatic on/off operation*
- ✓ Cost Effective - *No additional sensors needed*
- ✓ Compact Size - *Small enough to carry at all times*
- ✓ Efficient - *18 hours of continuous use; 1600 spot checks*

✓ *Where People Make the Difference*



## Proven Accuracy & Durability

Nonin's unique "Pulse Quality Indicator" provides a quick and accurate assessment of pulse quality. This minimizes training needs and allows the health care professional to quickly determine if any interaction is required - such as repositioning the device. The Onyx is ergonomically optimized and meets testing needs ranging from adults to pediatric with finger thicknesses between 0.3 and 1.0 inches (8 mm to 26 mm).

The portability and functionality of the Onyx also makes it useful for nearly any situation where a fast and accurate reading of blood oxygen saturation and pulse rate is needed including:

- |                        |                    |
|------------------------|--------------------|
| ✓ Anesthesia           | ✓ Pediatrics       |
| ✓ Cardiopulmonary Care | ✓ Physician Office |
| ✓ Emergency Services   | ✓ Recovery Room    |
| ✓ Long-Term Care       | ✓ Rehabilitation   |
| ✓ Nursing              | ✓ Respiratory Care |
| ✓ Outpatient Care      | ✓ Triage           |

## Performance

The lightweight and compact size, along with the automatic on/off operation features make the Onyx extremely easy to use - anywhere, anytime. The energy efficient Onyx is powered by 2 AAA alkaline batteries and operates for approximately 1600 spot checks (40 seconds) or up to 18 hours of continuous use before battery replacement is necessary.



The durable and reliable Onyx has U.S. Army aeromedical certification for use in Army Black Hawk Helicopters.

## Simple to Use



The Onyx offers complete convenience:

- ✓ Complete with an Operator's Manual, a lanyard cord and lock, and two AAA alkaline batteries.
- ✓ Automatic operation when applied to finger
  - ✓ Three color Pulse Quality Indicator to provide assurance of reading quality
  - ✓ No periodic maintenance is required
  - ✓ Comfortable to carry anywhere with a weight of 60 g (2 oz.)
  - ✓ Optional carrying cases available



Please contact your authorized distributor for more information.

## Specifications

Oxygen Saturation Range (%SpO <sub>2</sub> )	0% to 100%
Pulse Rate Range	18 to 300 pulses per minute
Displays	
Numeric Displays	Two 3-digit LEDs, 7 segment LED (light emitting diodes)
Pulse Strength	Tricolor LED segments
Measurement Wavelengths	
Red	660 nanometers
Infrared	910 nanometers
Accuracy	
Blood Oxygen Saturation (%SpO <sub>2</sub> )	70 - 100% ± 2 digits
Pulse Rate	±3% ±1 digit
Temperature	
Operating	+32° to +122°F (+0° to +50°C)
Storage/Transportation	-22° to +122°F (-30° to +50°C)
Humidity	
Operating	10% to 90% noncondensing
Storage/Transportation	10% to 95% noncondensing
Altitude	
Operating Altitude	Up to 30,000 feet
Hyperbaric Pressure	Up to 3 atmospheres
Power Requirements	Two 1.5 volt AAA-size batteries
Battery Life	
Operating	Approximately 18 hours of continuous operation <sup>a</sup>
Storage	9 months typical <sup>b</sup>
Dimensions	1.3 x 1.3 x 2.2 in. (3.3 x 3.3 x 5.7 cm)
Weight	2 oz (60 g) with batteries
Warranty	1 year

### Classifications per IEC 60601-1

Degree of Protection	Type BF-Applied Part
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a Using two AAA-size alkaline batteries; based on approximately 1,600 spot checks calculated at 40 seconds per spot check.  
b Using two AAA-size alkaline batteries.

Quality systems registered to ISO 9001:1994/EN 46001:1996, ISO 13485:1996, and CE self-marking per Annex II, Clause 3 of EC Directive No. 93/42/EEC concerning medical devices.



Specifications are subject to change without notice.

## Your Partner of Choice



With over 15 years of experience and dedication to the design and support of noninvasive monitoring devices, Nonin has helped many medical professionals meet clinical and economic objectives. Trusted by clinicians worldwide, countless tests are performed every day on thousands of Nonin pulse oximeters in more than 125 countries. Nonin's dedication to technological leadership, precision manufacturing and uncompromised customer support ensures quality products and service you expect.



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

Nonin Medical, Inc.  
2605 Fernbrook Lane North  
Plymouth, MN 55447-4755, USA  
Phone: +1.763.553.9968 Toll Free: 1.800.356.8874  
Fax: +1.763.553.7807  
[info@nonin.com](mailto:info@nonin.com)