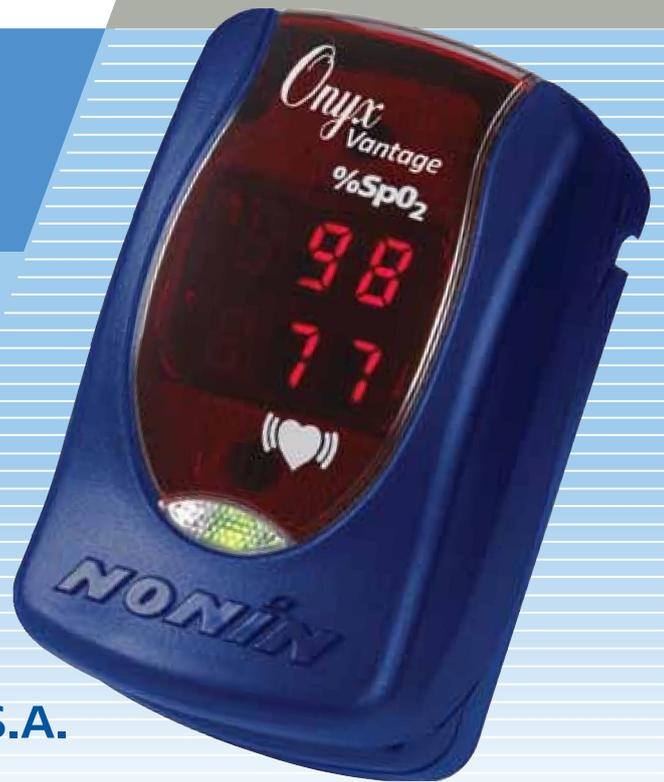


Onyx[®] Vantage 9590

Finger Pulse Oximeter



- ✓ Lead Free
- ✓ Latex Free
- ✓ Made in U.S.A.

Accuracy you can act on.

When you need to make decisions quickly, you do not have time to question the accuracy of your finger pulse oximeter. You can trust Nonin Medical's Onyx[®] Vantage finger pulse oximeter with PureSAT[®] technology to quickly and accurately capture SpO₂ and pulse rate measurements — even on patients where low perfusion is a challenge. In fact, Onyx is the only finger pulse oximeter brand whose accuracy and performance claims are supported by published peer-reviewed, clinical studies. Accuracy matters, and Onyx Vantage provides accurate data for actionable decision making.

Onyx® Vantage 9590

Product Highlights

The Onyx is the only finger pulse oximeter with scientifically proven accuracy in the most challenging cases, including patients with low perfusion or dark skin tones.

- **Accurate** – Scientifically proven performance in the widest range of patient populations and settings
- **Durable** – Protects against dropping and water spills; allows for thousands of uses in the most demanding environments
- **Efficient** – Up to 6,000 spot checks or 36 hours of continual operation on two AAA batteries
- **Safe** – Built in the USA with lead-free and latex-free construction
- **Versatile** – One unit works on the widest range of patients from pediatric to larger adult patients
- **Warranted** – Industry-leading 4-year warranty
- **Cost Effective** – Proven accuracy, quality and durability make the Onyx Vantage a smart purchase for the long term



The Onyx Vantage is a valuable tool in any situation where a fast and accurate reading of blood oxygen saturation and pulse rates are needed. The Onyx Vantage finger pulse oximeter is intended for use by health professionals and features:

Clinician-facing, easy-to-read, bright LED – SpO₂ and pulse rate can be read from any angle, in all lighting conditions, day or night.

Three-color pulse quality indicator LED – Green, yellow or red light provides a quick assessment of patient pulse quality.

Accuracy in the widest range of patients and conditions – Only Nonin uses PureSAT® SpO₂ technology – an intelligent pulse-by-pulse filtering to provide accuracy in situations that are challenging such as light-to-dark skinned patients, good-to-low perfusion and more.

One product for pediatric to adult patients – Automatically adjusts to each patient from pediatric to adult quickly and accurately and accommodates a wide range of finger thicknesses: 8 mm to 25.4 mm (0.3" to 1.0").



Proven durability – Onyx Vantage is tough enough to withstand a minimum of 50 drops, is rugged enough to be used in the most demanding situations and exceeds IP32 water ingress testing.

Automatic turn on and off – No on/off button! Just insert finger for fast and easy spot checks. The auto-on/off mechanism allows two AAA batteries to provide up to 6,000 spot checks before being replaced!

Portable – Take the Onyx Vantage anywhere — it is lightweight and weighs less than two ounces.

Available in four colors – Black, Red, Blue and Purple. Complete with lanyard, instructions on CD and two AAA batteries. Optional carrying case and retractable lanyard available.



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}*)	
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	-5° to +40°C (+23° to +104°F)
Storage/Transportation	-40° to +70°C (-40° to +158°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	
Operating	Approximately 6,000 spot-checks or 36 hours of continuous operation using new AAA-size alkaline batteries
Storage	12 months

Classifications per IEC 60601-1 / CAN/CSA-C22.2 No. 601.1 / UL 60601-1:

Degree of Protection	Type BF-Applied Part
Mode of Operation	Continuous
Enclosure Degree of Ingress Protection	IP32

This product complies with ISO 10993-1, Biological evaluation of medical devices – Part 1: Evaluation and testing.

*±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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