Onyx® Vantage 9590



"The Onyx unit I use has been dropped on hard floors, hard rocks and has been splashed with cold water. The Onyx continues to work in all these environments and remains very readable and usable."

- Carl R., RN



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 and is tested for use on fingers, thumbs and toes.

- **Proven Accuracy** Scientifically proven accuracy in the widest range of patients.
- Reliable Results Accurate readings on your challenging cases due to low perfusion and darker skin tones. And, Onyx Vantage 9590 has been
- Versatile One unit works on pediatric to larger adult patients and can be used on fingers, thumbs or toes.
- Cost Efficient 4-year warranty and up to 6,000 spot checks on



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 due to dark skin tones, 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 fingers, thumbs and toes with digit 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 digit 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 Declar Accuracy Range (Arms*)	
Pulse Rate Declared Accuracy Range (A _{rms} *)	20 – 250 BPM ±3 digits
Low Perfusion Pulse Rate Declared Accu Range (A _{rms} *)	
	Power** 660 nanometers @ 0.8 mw maximum average 910 nanometers @ 1.2 mw maximum average
Temperature Operating	
Humidity OperatingStorage/Transportation	
Altitude Operating Hyperbaric Pressure	
Battery Life Operating	Approximately 6,000 spot-checks or 36 hours of continuous operation using new AAA-size
Storage	alkaline batteries 12 months
Classifications per IEC 60601-1 / CAN/CSA-C Degree of Protection	Type BF-Applied Part

This product complies with ISO 10993-1, Biological evaluation of medical devices -

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

Nonin Medical B.V.

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

Specifications are subject to change without notice.



