

Onyx[®]3

Finger Pulse Oximeter



Cutting Edge Technology You Can Trust

Meet Nonin's new Onyx3 Finger Pulse Oximeter; now including respiratory rate. You can trust Nonin Medical's Onyx3 using PureSAT[®] technology to quickly and accurately capture SpO₂, pulse rate, and respiratory rate measurements — even on patients where low perfusion is a challenge. Reliability matters, and Onyx3 provides accurate data for actionable decision making.

Added Benefits

- Multicolor LCD – SpO₂, pulse rate, and respiration rate display
- Wireless BLE connectivity
- Quickly and accurately accommodates fingers, thumbs and toes with digit thicknesses: 8 mm to 25.4 mm (0.3" to 1.0").
- The auto-on/off mechanism allows two AAA batteries to provide up to 2,000 spot checks before being replaced.



Product Highlights

- Clinician-facing, easy-to-read multicolor display.
- Wireless patient data at the tip of your finger.
- Nonin CorrectCheck– Gives feedback when the finger is not placed properly in the device.
- Automatically adjusts to each patient from pediatric to adult.
- Automatically turns on and off - Just insert digit for fast and easy spot checks.
- Portable – Take the Onyx3 anywhere — weighing only two ounces
- Signal Quality Indicator provides a quick assessment of patient pulse quality.



Specifications

Dimensions	56.7mm (2.23") L x 33.4mm (1.31") W x 33mm (1.30") H
Respiratory Rate Accuracy	+/- 1 breath per minute
Warranty	2 years
Oxygen Saturation Display Range	0 – 100% SpO ₂
Pulse Rate Display Range	18 – 321 beats per minute (BPM)
Oxygen Saturation Declared Accuracy Range (Arms*)	70 – 100% SpO ₂ ±2 digits
Low Perfusion Oxygen Saturation Declared Accuracy Range (Arms*)	70 – 100% SpO ₂ ±2 digits
Pulse Rate Declared Accuracy Range (Arms*)	20 – 250 BPM ±3 digits
Low Perfusion Pulse Rate Declared Accuracy Range (Arms*)	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	0-4,000m (13,123ft)
Hyperbaric Pressure	Up to 4 atmospheres
Battery Life	
Operating.....	2,000 spot checks (25 hours)
Storage.....	1 month

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.

Your Partner of Choice.

With more than 25 years of experience and dedication to the design and support of noninvasive monitoring devices, Nonin Medical has helped many medical professionals meet clinical and economic objectives. More than 100 OEM partners around the world rely on Nonin's digital technology to successfully integrate superior pulse oximetry and capnography into their products.



Nonin Medical, Inc.
13700 1st Avenue North
Plymouth, MN • 55441-5443 • U.S.A.
Tel: +1.763.553.9968 1.800.356.8874
Fax: +1.763.577.5521
E-mail: info@nonin.com

nonin.com/oemSolutions

Nonin Medical B.V.
Prins Hendriklaan 26
1075 BD Amsterdam • Netherlands
Tel: +31 (0)13-79 99 040
Fax: +31 (0)13-79 99 042
E-mail: infointl@nonin.com

