



SPECTRO₂® 20 Pulse Oximeter

Reliable results in challenging environments.

The patented serial autocorrelation technology of the the SPECTRO₂® 20 pulse oximeter delivers reliable spot-check results – even in challenging clinical environments with the presence of low perfusion or motion.

The SPECTRO₂® 20 oximeter aids healthcare providers in responding to a wide range of patient needs, including higher acuity care and ambulatory situations.

- Inter- and Intra-hospital transport
- Triage
- Patient tremors
- Unstable patients

With its unique features and optional accessories, the SPECTRO₂® 20 oximeter can be customized to address the needs of virtually any clinical setting.



Reliable readings in a wide variety of challenging patient care situations

- Low perfusion performance
- Motion tolerance
- Pulse amplitude Index (PI) Indicator
- Helps identify and maintain a good test site
- Enables confidence in results

Large Display

- At-a-glance patient assessment
- Easy to view from wide angles
- 50% larger LEDs than comparable hand-held devices

On-board sensor storage cradle

- Stores and protects sensor
- Reduces damage, minimizing unnecessary replacement costs
- Sensor is always ready and available

Versatility with multiple sensors

- Compatible with all BCI® sensors
- 20-inch Spot-Check Sensor
 - Minimizes frustrating cable tangles
 - Quick, easy patient assessments
- Nellcor™ sensor compatibility¹

SPECTRO2® 20 PULSE OXIMETER

TECHNICAL SPECIFICATIONS

Displays and Indicators

Keys	ON/OFF button
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SpO₂ (Functional)

Range	0 to 100% (1% increments); display maximum 99%
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Standard Accuracy	Adult / Ped ±2 Arms at 70 - 100% Neonate ² ±3 Arms at 70 - 100% Less than 70% unspecified
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Low Perfusion Accuracy	Adult / Ped ±2 Arms at 70 - 100% Neonate ² ±3 Arms at 70 - 100% Less than 70% unspecified
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Motion Accuracy	Motion Accuracy ³ Adult/Ped ±3 Arms at 70 - 100% Less than 70% unspecified
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Averaging	8 beats
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Pulse Signal Strength

Range	0 to 9 indicator, indicates logarithmic strength of patient pulse
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Display	9-segment red LED bargraph
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Pulse Rate

Range	20 - 300 bpm (1 bpm increments)
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Standard Accuracy	±2 Arms
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Low Perfusion Accuracy	±3 Arms over 25 - 250 bpm range Less than 70% unspecified (Pulse amplitude <1%. Tested using industry standard simulator.)
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Averaging	8 seconds
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Pulse Amplitude Index

Range	0.03% - 20% (0.01% increments)
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Display	9-segment green/yellow LED bargraph
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Power Requirements

Battery	4 "AA" alkaline or custom 2-cell Lithium Ion rechargeable battery pack
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External (from AC charger)	9V, 3A output; input of 100-240 VAC, 50 Hz, 60 Hz
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External (from USB)	Input: 5V, 500 mA max (USB powered source) Output: 9V, 230 mA max to oximeter
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Battery Life

Alkaline Cells Life	Approx. 26 hours of use
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Rechargeable Battery Life	Approx. 31 hours of continuous use (new) Approx. 3 hours typical recharge time
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Trend Storage

Parameters	SpO ₂ , Pulse Rate, Pulse amplitude Index and Relative Time
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Interval	4 seconds
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Capacity	144 hours at 4 second intervals
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Memory

Stores data for up to 99 patients

Environment

Operating Temperature	Oximeter and accessories: 0°C to 55°C (32°F to 130°F) Power supply: 0°C to 40°C (32°F to 104°F) Li+ battery charging: 5°C to 45°C (41°F to 113°F)
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Relative Humidity	Operating: 15 to 95% (non-condensing) Storage: 10 to 95% (non-condensing)
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Altitude	Up to 10,000 ft.
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Shock and Vibration	Transport per ISO 9919
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Physical

Dimensions	3.3W x 6.1H x 1.7D in
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Weight	340g including four "AA" batteries
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Standards

EN60601-1, EN60601-1-2, ISO 9919

Warranty

3 years

Product Code

WW1020

Optional Accessories

Docking Station	Converts hand-held device to a table-top unit <ul style="list-style-type: none"> Allows for convenient storage Recharges device and an additional "back-up" Lithium Ion battery Modular style for attaching optional printer
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Attachable Printer	Prints real-time, graphical and numerical trends
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Power Options	Disposable batteries, AC power, BCI® rechargeable Lithium Ion battery, USB cable
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Protective Rubber Gloves	Available in a range of colours
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¹ Tested with Nellcor™ DS100A sensor.

² With the BCI® 1302 sensor.

³ With the BCI® 1300 sensor.

⁴ Data on file.

For more information visit www.smiths-medical.com

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