



## SPECTRO<sub>2</sub>® 20 Pulse Oximeter

Reliable results in challenging environments.

The patented serial autocorrelation technology of the the SPECTRO<sub>2</sub>® 20 pulse oximeter delivers reliable spot-check results – even in challenging clinical environments with the presence of low perfusion or motion.

The SPECTRO<sub>2</sub>® 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 SPECTRO<sub>2</sub>® 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

### SpO<sub>2</sub> (Functional)

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

### Pulse Signal Strength

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

### Pulse Rate

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

### Pulse Amplitude Index

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

<sup>1</sup> Tested with Nellcor™ DS100A sensor.

<sup>2</sup> With the BCI® 1302 sensor.

<sup>3</sup> With the BCI® 1300 sensor.

<sup>4</sup> Data on file.

### Power Requirements

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

### Battery Life

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

### Trend Storage

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

### Memory

Stores data for up to 99 patients
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### 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)
Relative Humidity	Operating: 15 to 95% (non-condensing) Storage: 10 to 95% (non-condensing)
Altitude	Up to 10,000 ft.
Shock and Vibration	Transport per ISO 9919

### Physical

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

### Standards

EN60601-1, EN60601-1-2, ISO 9919
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### Warranty

3 years
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### Product Code

WW1020
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### Optional Accessories

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

For more information visit [www.smiths-medical.com](http://www.smiths-medical.com)

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