

Nonin Regional Oximetry Systems

Feature Comparison with FORE-SIGHT® Systems



Nonin Medical
SenSmart™ Model X-100
Universal Oximetry System



CASMED®
FORE-SIGHT®
rSO₂ Oximeter System



CASMED®
FORE-SIGHT ELITE™³
Absolute Tissue Oximeter

| Monitor System | | | |
|---|--|------------------|-------------------|
| Weight | 900 g / 2 lbs | 6.85 kg / 14 lbs | 5.9 kg / 13.2 lbs |
| Maximum channels | 6 | 2 | 4 |
| Battery life | 3 hours (when operating with 2 channels) | 1.5 hours | 30 minutes |
| Battery design | Lithium ion | Lead-acid | Lead-acid |
| Battery re-charge time | 2.5 hours | 16.5 hours | 6 hours |
| Instant reading | Yes | No ¹ | Yes |
| Signal processor/pre-amp size | 33 cc | 121 cc | 97 cc |
| Operational Parameters | | | |
| Display range of rSO ₂ | 0–100% | 0–99% | 0–99% |
| Display range of SpO ₂ | 0–100% | n/a | n/a |
| Refresh rate | 1.5 seconds | 2 seconds | 2 seconds |
| rSO₂ Sensor | | | |
| Cerebral indications | Trending, Absolute | Absolute only | Absolute only |
| Somatic indications | Yes | Yes | Yes |
| Wavelengths | 3, 4 | 4 | 5 |
| Tolerant of ambient light | Yes | No | Unknown |
| Number of light emitters | 2 | 1 | 1 |
| Number of light paths | 4 | 1-2 | 2 |
| SpO₂ Sensor | | | |
| SpO ₂ accuracy | 70-100% ±2 digits² | None | None |
| SpO ₂ low perfusion accuracy | 70-100% ±2 digits² | None | None |
| SpO ₂ accuracy in motion | 70-100% ±3 digits² | None | None |
| Pulse rate accuracy | 18-300 BPM ±3 digits² | None | None |
| Pulse rate low perfusion accuracy | 40-240 BPM ±3 digits² | None | None |
| Warranty Comparison | | | |
| Monitor warranty | 36 months | 12 months | 24 months |

¹ Requires setup before sensor reading.

² See Instruction for Use (IFU) for more information on product specifications and testing.

³ 510(k) Summary K123700.

Specifications subject to change without notice.

rSO₂ Sensor Size Comparison

SENSORS
SHOWN
ACTUAL SIZE



SenSmart™ EQUANOX™ Advance
Model 8004CB/CB-NA
Adhesive/Non-Adhesive
Neonatal/Pediatric

SenSmart™ EQUANOX™ Classic Plus
Model 8003CA
Pediatric/Adult

SenSmart™ EQUANOX™ Advance
Model 8004CA
Pediatric/Adult

SenSmart™ EQUANOX™
Advance Model
8004CB/CB-NA
Neonatal/Pediatric

SenSmart™ EQUANOX™
Advance Model 8004CA
Pediatric/Adult

SenSmart™ EQUANOX™
Classic Plus Model 8003CA
Pediatric/Adult

| rSO ₂ Sensor Specifications | SenSmart™ EQUANOX™ Advance Model 8004CB/CB-NA Neonatal/Pediatric | SenSmart™ EQUANOX™ Advance Model 8004CA Pediatric/Adult | SenSmart™ EQUANOX™ Classic Plus Model 8003CA Pediatric/Adult |
|--|--|---|--|
| Dimensions (approximate) | 13.2 cm ² | 25.4 cm ² | 25.4 cm ² |
| Cable direction off of sensor | Middle | Middle | Middle |
| Non-adhesive version | Yes | No | No |
| Emitter/diode spacing | 12.5–25.0 mm | 20–40 mm | 20–40 mm |
| Number of light paths | 4 | 4 | 4 |
| Approximate depth of light penetration | 12.5 mm | 20 mm | 20 mm |
| Absolute accuracy (vs. trending only) | Yes | Yes | No |
| 4-wavelength | Yes | Yes | No, 3-Wavelength |
| Weight range | <40 kg | >40 kg | >40 kg |
| Placement options | Cerebral / Somatic | Cerebral / Somatic | Cerebral / Somatic |

rSO₂ Sensor Size Comparison

SENSORS SHOWN
ACTUAL SIZE



FORE-SIGHT®: 2003
Small

FORE-SIGHT®: 2005
Medium

FORE-SIGHT®: 2007
Large

FORE-SIGHT Elite™:
01-07-2103
Large

| rSO ₂ Sensor Specifications | FORE-SIGHT®: 2003 Small | FORE-SIGHT®: 2005 Medium | FORE-SIGHT®: 2007 Large | FORE-SIGHT Elite™: 01-07-2103 Large |
|--|----------------------------|--|----------------------------|---|
| Dimensions (approximate) | 13.3 cm ² | 21.3 cm ² | 28.1 cm ² | 25.5 cm ² |
| Cable direction off of sensor | Off Center | Side | Side | Side |
| Non-adhesive version | Yes | No | NA | No |
| Emitter/diode spacing | 25 mm | 15–40 mm | 15–50 mm | 15–50 mm |
| Number of light paths | 1 | 2 | 2 | 2 |
| Approximate depth of light penetration | 12.5 mm | 20 mm | 25 mm | 25 mm |
| Absolute accuracy (vs. trending only) | Yes | Yes | Yes | Yes |
| 4-wavelength | Yes | Yes | Yes | 5 Wavelengths |
| Weight range | ≤ 8 kg | 4–80 kg (cerebral) 5–50 kg (skeletal) | > 40 kg | ≥ 40 kg |
| Placement options | Cerebral / Abdomen | Cerebral / Skeletal | Cerebral Only | Cerebral / Somatic |

SpO₂ Sensor Size Comparison

SENSORS SHOWN ACTUAL SIZE



SenSmart™
8100SL Large
Soft Sensor



SenSmart™
8100SM Medium
Soft Sensor



SenSmart™
8100SS Small
Soft Sensor

SenSmart™
8100SL Large
Soft Sensor

SenSmart™
8100SM Medium
Soft Sensor

SenSmart™
8100SS Small
Soft Sensor

| SpO ₂ Sensor Specifications | SenSmart™ 8100SL Large Soft Sensor | SenSmart™ 8100SM Medium Soft Sensor | SenSmart™ 8100SS Small Soft Sensor |
|--|--|---|--|
| Digit thickness (mm) | 12.5 to 25.5 | 10 to 19 | 7.5 to 12.5 |
| Digit thickness (in) | 0.5 to 1.0 | 0.4 to 0.75 | 0.3 to 0.5 |
| Preferred Application | Fingers | Fingers | Fingers |
| Reusable | Yes | Yes | Yes |
| Warranty | 2 Years | 2 Years | 2 Years |



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