

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

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



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

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