Monitor with confidence

The Nellcor™ Bedside SpO₂ Patient Monitoring System

- Incorporates the latest Nellcor™ digital signal processing technology for accurate, reliable readings even during low perfusion, motion and other forms of signal interference.¹²
- Provides clinicians with real-time information regarding their patients’ respiratory status, including continuous SpO₂ and pulse rate monitoring and trending data.
- Includes SatSeconds alarm management, a clinician-controlled feature that can distinguish between real, clinically significant events and transient events by taking into account both the severity and the duration of any desaturation event.
- Meets IEC 60601-1-11 standards for home health equipment compliant Homecare and Sleep Study modes for safe and effective use of the monitor by lay users and in non-hospital settings.⁵⁶

Accuracy
Accurately assesses patients’ status with pulse oximetry measurements of ± 2 for 70% to 100% saturation, and low saturation accuracy of ± 3 for 60% to 80%.

Speed
Reacts to patient status with technology that displays patient oxygenation and pulse rate more quickly than other technologies.⁴⁵

Motion Tolerance
Accurately assesses patients’ status during periods of movement or noise, avoiding dropouts or delays. Covidien is the first company to receive FDA clearance for a motion-tolerant pulse oximeter that is also compliant with ISO 80601-2-61.³⁶

Flexible. Affordable. Intuitive
- Displays real-time SpO₂ and pulse rate measurements, plethysmographic waveforms and pulse amplitude
- SatSeconds alarm management
- Sleep Study mode
- Homecare mode
- Adult, Pediatric, Neonate modes
- Intuitive, easy-to-read, color, multiple-language user interface with on-screen help messages
- Easy-to-use jog dial interface
- Compact, portable, durable design with built-in handle
- Variable pitch beep tone for point-by-point differentiation in SpO₂
- 96-hour trend memory

With the Nellcor™ Bedside SpO₂ Patient Monitoring System, clinicians can feel confident in their ability to detect respiratory complications early and intervene promptly.
Features and specifications

Performance
Measurement Range: SpO₂: 1% to 100%
- Pulse rate: 20 to 250 beats per minute (bpm)
- Pulse amplitude: 0.03% to 20%

Measurement Accuracy
Saturation
- Adult: 70% to 100% ± 2 digits
- Adult and neonate low sat: 60% to 80% ± 3 digits
- Neonate: 70% to 100% ± 2 digits
- Low perfusion: 70% to 100% ± 2 digits
- Adult and neonate with motion: 70% to 100% ± 4 digits

Pulse rate
- Adult and neonate: 20 to 250 bpm ± 3 digits
- Low perfusion: 20 to 250 bpm ± 3 digits
- Adult and neonate with motion: 20 to 250 bpm ± 5 digits

Electrical
Instrument
- Power requirements: 100 to 240 VAC, 50/60 Hz, 45 VA
- Fuse rating: Fast-acting 2 A 32VAC/DC, Fast-acting 500 mA 22VAC/50DC

Battery
- Type: Lithium ion
- Battery capacity: Minimum of five hours using new, fully charged battery with no alarms; optional 10-hour battery

Environmental
Operating Temperature
- Instrument: 5 °C to 40 °C (41 °F to 104 °F)
- Transport/Storage Temperature: -20 °C to 60 °C (‑4 °F to 140 °F)

Operating Humidity
- 15% to 93% noncondensing

Operating Altitude
- ‑170 m to 4877 m (-557 ft to 16,000 ft)

Physical Characteristics
- Weight: 1.5 kg (3 lbs)
- Size: 82 H x 255 W x 155 D (mm), (3.23 H x 10.04 W x 6.10 D (in)

Equipment Compliance
Standards Compliance
- CAN/CSA C22.2 No. 601.1 M90
- UL 60601-1-1, 1st edition
- 802.11 BiGN WLAN connectivity

Equipment Classifications
- Type of protection against electric shock: Class 2 (internally powered)
- Degree of protection against electric shock: Type BF – Applied part
- Mode of operation: Continuous
- Liquid ingress: IP 22
- Degree of safety: Not suitable for use in the presence of flammable anesthetics

Output
- Trend data download via wired or USB for archiving or data analysis

Display/Indicators
- Pulse amplitude indicator (eight segments)
- Visual indicators: Pulse search, audible alarms silenced or off, interference indicator, battery charging, and SatSeconds alarm management clock, pleth wave form

Alarms
- SatSeconds alarm management
- Audible and Visual alarms for high/low saturation and pulse rate, low battery, sensor off, and sensor disconnect
- Categories: Patient status and system status
- Priorities: Low, medium and high
- Notification: Audible and visual
- Setting: Default, institutional and last setting
- Alarm system delay: <10 s

Optional Accessories
- 10 and 15 hour battery
- Adapter plate
- GCX wall mount arm and channel
- GCX roll stand
- Carrying case

Available Modes
- Standard — Hospital, hospital-type facilities, and intra-hospital transport.
- Homecare — Simplified monitoring for use in the home by caregivers
- Sleep Study — Muted audible and visual queues to aid sleep studies

Connectivity
- Supports wired and USB trend data export to an external personal computer for archiving or data analysis
- Nurse call capability

Simple set up and maintenance
The Nellcor™ Bedside SpO₂ Patient Monitoring System meets medical electrical equipment standards, is RoHs compliant, and enables hospital staff to set institutional defaults, replace the battery, perform diagnostics to troubleshoot performance issues, and perform on-site maintenance on the monitor.

1. Clinical Report, COVMOPR0184, Motion, LAMP C (p/n 10099561)
2. Clinical Report, COVMOPR0250, LowSat Accuracy, LAMP C (p/n 10099561)
3. 510(k) K123581 and certificate US-23250-M1-UL
6. Declaration of Conformity n°10138709 rev A · Sept 24th, 2014