Introducing the OxIMAX™ Pulse Oximetry System

Nellcor® N5500 Multiparameter Monitor

A NEW WAY OF COMMUNICATING
A BETTER WAY OF MONITORING

Be Certain.

tyco Healthcare

NELLCOR
Introducing the N5500

Monitoring To Meet Your Needs
The N5500 combines the five most common vital signs measurements in one compact monitor. Although compact the N5500 incorporates a 6.4inch colour TFT LCD screen, clearly laid out so that it can be easily and quickly read. Colour coded buttons and control knob make the N5500 easy to use, you can spend less time configuring the monitor and more time caring for your patients. Rechargeable battery and roll stand, as well as an integrated top handle to ensure continuous monitoring during transport.

Noninvasive Blood Pressure:
Oscillometric measuring technique measures systolic; diastolic; mean arterial pressures and pulse rate. Single, automatic and STAT modes of operation. Single hose featuring simple-to-use connector.

ECG:
3-5 lead selectable; pacemaker detection, heart rate; adjustable sweep speed and adjustable size of waveform.

Respiration Rate:
Transthoracic impedance technique with real-time waveform; adjustable sweep speed. (6.25, 12.5, 25 mm/sec)

Optimum Performance For Each Parameter
The N5500 Multiparameter monitor incorporates our new proprietary pulse oximetry monitoring technology to deliver the most accurate results. Our multiparameter monitors offer you reliable performance in each parameter measured.

SpO₂:
Nellcor OxiMax Pulse Oximetry technology incorporates our highly evolved advanced digital signal processing. This latest technology enables the OxiMax system to read through those conditions most challenging to pulse oximetry-motion, combined with low perfusion. OxiMax technology establishes a new milestone in patient safety monitoring. For the first time we bring true intelligence to both monitor and OxiMax sensor, enabling them to exchange information. Clinicians can use the Sensor Event Report function to quickly review alarm events that occurred while the sensor was on the patient.
Temperature:
Dual channel temperature monitoring, compatible with Tyco YSI Series 400 thermistor probes.

Printer (optional):
High-speed printer up to 50 mm/sec, continuous recordings or print-on-alarm capability.

Central station (optional):
Real time patient data view; central review station for up to 24 hours of stored data; up to 50, 30 second alarms recorded and saved strips with 6 waves per event; main screen for separate patient window and up to 8/16 beds.

Specifications:

**ECG**
3-5 Lead ECG (automatic detection)
Lead selection: I, II, III, V, aVR and aVF
Heart rate range: 20 to 250 BPM
Heart rate accuracy: ±3 BPM or 5%
Bandwidth: 0.5 to 40 Hz
QRS detector range: 0.5 mv to 5.0 mv
Display Sweep Speed: 12.5, 25, 50 mm/sec (selectable)
Pacemaker detection: Indicator on waveform display (user selectable)
Lead off detection: Detection and displayed

**NIBP**
Method: Oscillometric measurement
Measurement modes:
Manual: Single measurement
Auto: 1, 3, 5, 10, 15, 30, 60 and 90 minutes
STAT: Consecutive measurements for 5 minutes
Pulse rate accuracy: ±2 BPM or 2%
Adult/Paediatric
Systolic range: 60 to 250 mmHG
Diastolic range: 40 to 220 mmHG
Mean range: 45 to 235 mmHG
Pulse rate range: 30 BPM to 180 BPM
Pressure display range: 10 mmHG to 300 mmHG
Maximum allowable cuff pressure: 160 mmHG Adults, 120 mmHG Pedi
Neonate
Systolic range: 40 to 130 mmHG
Diastolic range: 20 to 90 mmHG
Mean range: 35 to 105 mmHG
Pulse rate range: 30 BPM to 240 BPM
Pressure display range: 5 mmHG to 150 mmHG
Maximum allowable cuff pressure: 132 mmHG

**Respiration**
Technique: Trans-thoracic impedance
Range: 3 breaths RPM to 150 RPM
Accuracy: ±3 RPM
Leads: RA to LA
Display sweep speed: 6.25, 12.5, 25 mm/s
Lead off detection: Detection and displayed

**SpO2**
SpO2: 1% to 100%
Pulse Rate: 20 to 250 BPM
Perfusion Range: 0.03% to 20%
Specifications:

**Accuracy**
- Saturation (% SpO2): ± 1 SD
- Without motion: Adults/Pedi: 70% to 100% ± 2 digits
- Neonates: 70% to 100% ± 3 digits
- Low perfusion: Adults/Pedi: 70% to 100% ± 2 digits
- With motion: Adults/Pedi/Neo: 70% to 100% ± 3 digits
- Pulse rate: ± 1% to Non specified

**Temperature**
- Technique: Thermistor probe (YSI 400 series compatible)
- Scale: Celsius and Fahrenheit
- Range: 25° C to 45° C
- Calibration accuracy: ±1° C (25° C to 45° C)

**Printer**
- Dimensions: 80 x 70 x 97 mm (W x D x H)
- Number of channels: 2
- Print method: Thermal line head
- Resolution: 200 DPI
- Speed: 25 mm/sec, 50 mm/sec
- Paper width: 50 mm
- Weight: 400g

**Physical Dimensions**
- Dimensions: 230 x 230 x 275 mm (W x D x H)
- Weight: 5.0kg

**Electrical**
- External power supply
- Power requirement: 100-240 VAC, 50-60 Hz, 63-110 VA
- Internal battery: 14.4V, 3600mAh, Ni-Mh

**Environmental conditions**
- Operating temperature: 5 - 40° C
- Humidity range: 15% to 95% (non-condensing)
- Operating Altitude: -390 m to 3000 m (0 to 10 000 ft)
- Altitude: -390 m to 4500 m (0 to 15 000 ft)

**Storage not in shipping container**
- Temperature: 5 to 40° C
- Humidity: 15% to 95%
- Storage not in shipping container: -20° C to 5° C

**Compliance and approvals**
- CE marking: Approved, indicating compliance to the Medical Device Directive 93/42/EEC
- UL 2601: US deviation version from IEC 60601-1, Type: 14.4V, 3600mAh, Ni-Mh
- IEC 60601-1-2: 1999
- CE marking: Approved, indicating compliance to the Medical Device Directive 93/42/EEC
- UL 2601: US deviation version from IEC 60601-1, Type: 14.4V, 3600mAh, Ni-Mh
- IEC 60601-1-2: 1999

**Standard accessories**
- ECG cable: 1 x 9-lead ECG wire Snap (Adult/Pediatric)
- 1 x 3-lead ECG wire Grabber (Neonate)
- 1 x 3-lead trunk cable
- NIBP: 1 x 12 cm (Adult), 1 x 9 cm (Pediatric)
- 1 x 3 cm, 1 x 4 cm, 1 x 5 cm (Neonate)
- NIBP cuff hose: 1 x 3.5 m length (Adult/Pediatric) 1 x 3.5 m (Neonate)
- OxiMax SpO2 Sensor: 1 x DS100A Nellcor reusable finger sensor, 1 x MAX-PAC-I disposable sensor pack (OxiMax sensors)
- OxiMax SpO2 cable: DOC10 sensor connection cable

**Optional accessories**
- Printer
- Central monitoring: 8/16 beds
- ECG cable: 5-lead ECG Snap (Adult/Pediatric)
- 5-lead ECG wire Grabber (Neonate)
- 5-lead ECG trunk cable
- NIBP: 14 cm (Adult), 17 cm (Adult)
- Wallstand
- Roll stand
- Wallmount

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