

Technical Specifications

Display

Type:	Color TFT LCD
Resolution:	400 x 240 pixels
Pitch:	0.1935 mm x 0.193 mm
Waveforms:	Plethysmograph
Parameters:	7 segment LEDs for non-invasive blood pressure (systolic, diastolic, mean), SpO ₂ , pulse rate, temperature

NIBP

Measurement Method:	Oscillometric
Measurement Modes:	Manual, interval, stat
Connector Type:	Rectus
Units of Measure:	mmHg
Resolution:	1 mmHg
Systolic Range:	Adult: 55–235 mmHg Pediatric: 55–160 mmHg Neonate: 45–120 mmHg
Diastolic Range:	Adult: 30–200 mmHg Pediatric: 30–150 mmHg Neonate: 20–100 mmHg
Mean Range:	Adult: 30–235 mmHg Pediatric: 30–160 mmHg Neonate: 20–120 mmHg
Accuracy:	Mean error is ± 5 mmHg. Standard deviation is < 8 mmHg
Cuff Deflation Technique:	Adaptive linear bleed
Cuff Inflation:	200 ccs of volume from 0-300 mmHg in ≤ 10 sec
Over Pressure Protection:	Double safety protection (hardware and software)
Pulse Rate Range:	Adult and pediatric 35–245 bpm, Neonatal 70–245 bpm
Pulse Rate Accuracy:	± 3 bpm

Pulse Oximetry

With Masimo SET® SpO₂

Measurement Range:	0-100%
Resolution:	1%
Accuracy:	$\pm 2\%$ (70–100%, Adult/Pediatric, no motion) $\pm 3\%$ (70–100%, Neonate, no motion) 1–69% unspecified

Pulse Rate With Masimo SET SpO₂

Measurement Range:	25–240 bpm
Resolution:	1 bpm
Accuracy:	± 3 bpm (no motion), ± 5 bpm (motion)

With Nellcor® OxiMax® SpO₂

Measurement Range:	0–100%
Resolution:	1%
Accuracy:	$\pm 2\%$ (70–100%, MAX-A, MAX-AL, MAX-N, MAX-P, MAX-I and MAX-FAST sensors) $\pm 2.5\%$ (70–100%, OxiCliq A, OxiCliq N, OxiCliq P, OxiCliq I sensors) $\pm 3\%$ (70–100%, D-YS, DS-100A, OXI-A/N and OXI-P/I sensors) $\pm 3.5\%$ (70–100%, MAX-R, D-YSE and D-YSPD sensors) 0–69% unspecified

Pulse Rate With Nellcor OxiMax SpO₂

Measurement Range:	20–300 bpm
Resolution:	1 bpm
Accuracy:	± 3 bpm (20–250 bpm), 251–300 bpm unspecified

Temperature

Modes:	Monitor, predictive
Measurement Range:	Monitor mode: 25°C to 44°C (77°F to 111.2°F) Predictive mode: 35°C to 43°C (95°F to 109.4°F)
Resolution:	0.1°C
Accuracy:	Monitor mode: 25°C to 32°C (77°F to 89.6°F) $\pm 0.2^\circ\text{C}$ ($\pm 0.4^\circ\text{F}$) including 32°C (89.6°F) 32°C to 44°C (89.6°F to 111.2°F) $\pm 0.1^\circ\text{C}$ ($\pm 0.2^\circ\text{F}$) including 32°C (89.6°F)
Measurement Time:	Monitor: < 60 sec Predictive: < 12 sec

Trend

List Trend:	1,200 data sets stored. Data set includes measurement date/time, NIBP, SpO ₂ , pulse rate, and temperature. Five data sets viewable in list trend window at a time.
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Recorder

Type:	Thermal array
Output:	Plethysmograph, list trend data
Speed:	25 mm/sec

Battery

Type:	Rechargeable lithium ion
Run Time:	Lithium ion: 9 hours using a new, fully charged battery for continuous SpO ₂ and auto NIBP measurements at 15min intervals at 25°C 6 hours maximum (during normal operation) 4 hours under standby or off status
Recharge Time:	6 hours maximum (during normal operation) 4 hours under standby or off status

Interfacing

Connectors:	1 nurse call port for connecting to hospital nurse call system 1 RS-232 port for connecting bar code scanner or other medical devices 1 RJ45 port for software upgrade via a PC and connectivity to e-Gateway
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Physical Dimensions

Monitor Size:	25 cm(H) x 17 cm(W) x 17 cm(D) 9.77"(H) x 6.57"(W) x 6.45"(D)
Monitor Weight:	3.5kg (7.7lbs) including battery

Environmental

Operating Temperature:	0°C to 40°C (SmarTemp™: 10°C to 40°C)
Storage Temperature:	-20°C to 60°C
Operating Humidity:	15% to 95%, non-condensing
Storage Humidity:	10% to 95%, non-condensing

Power Requirements

AC Voltage:	100–240 VAC, 50/60 Hz
Power:	70 VA

Safety

Type of Protection:	Class I; internally/externally powered equipment
Degree of Protection:	CF
Protection Against Ingress of Fluids:	IPX1

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