

User-friendly touch-screen patient monitor

Measures ECG, SpO₂, NIBP, heart rate, temperature and respiration

Also available with dual invasive blood pressures, EtCO₂, a battery and a built-in recorder

**ST segment
monitoring
and 72 hours
of trend data
analysis**



- » 12.1" color TFT display with a touch-screen interface
- » Multi-lead ECG monitoring
- » ST segment monitoring and 72 hours trend data analysis
- » NIBP list and OxyCRG dynamic view display
- » Drug dose calculations
- » Large font display with 4, 6 and 8 waveforms shown
- » Built-in battery (optional)
- » Built-in thermal recorder (optional)
- » Networkable with a Central Monitoring System via a wireless or wired network
- » Compact design convenient for mobile monitoring
- » Multi-lingual settings

**Intuitive touch-screen displays large fonts
and up to eight crisp waveforms**

Technical Specifications

Physical Dimensions & Weight

Main Unit

Dim. 21.9" H x 13.2" W x 9.23" D
(555 mm H x 335 mm W x 235 mm D)

Weight Approx. 11 lbs (5kg)

Application

Neonatal, pediatric and adult patients

Operation Environment

Power

Source External AC power
or internal battery

AC Power 100-240VAC, 50/60Hz,
<150VA

Battery Rechargeable Lead-Acid;

» Operating time under normal
conditions 1 hour

» Operating time after 1st low
battery alarm 10 min.

Temperature

Working 5° - 40° C

Storage -20° - 65° C

Relative Humidity

Working 30 - 75%

Storage <80%

Altitude

Operating Altitude Up to 5,000 meters

Hyperbaric Pressure Up to 405.3 kPa

Performance Specifications

Display 12.1" color TFT, Touch Screen

Resolution 800 x 600 pixels

Trace 4, 6, 8 or 9 waveforms

ECG (I, II, III, aVR, aVL, aVF, V1-V6),
PLETH, RESP, IBPx2, ETCO₂

Indicator Alarm indicator;
Power indicator

QRS beep and alarm sound

Trend Time 72 hours

Recorder Built-in, thermal array,
2 channels

» Record Width 48 mm

» Recorder Paper 50 mm

» Record Speed 25 mm/s, 50 mm/s

OxyCRG Combines HR, SpO₂, and resp.
trends into a single graph

ECG

Input 5-lead ECG cable and standard
AAMI line for connection

Lead Choice I, II, III, aVR, aVF, aVL, V

Gain Choice x0.125, x0.25, x0.5, x1.0, x2.0

Filter

» Diagnostic mode 0.05 - 100Hz

» Monitoring mode 0.05 - 75Hz

» Surgical mode 1 - 20Hz

Performance Specifications

ECG continued

ECG Waveforms 7 channels

Penetration Voltage 4000VAC 50/60Hz

Sweep Speed 12.5, 25 and 50 mm/s

HR Display Range 15 - 300bpm

Accuracy ±1% or ±1bpm,
whichever is greater

» S-7 Segment Detection 7 channels

» Measurement Range -2.0mv - +2.0mv

» Arrhythmia Analysis 13 types

Alarm Limit Range Setting

» Upper limit 80 - 400bpm

» Lower limit 20 - 150bpm

RESP

Measure Method RA-LL impedance

Range 0 - 120 rpm

Accuracy ±3 rpm

Alarm Upper-lower Limit Setting:

» Upper limit 6 - 120 rpm,

» Lower limit 3 - 120 rpm

Sweep Speed 12.5 and 25 mm/s

NIBP

Measuring Technology
Automatic oscillating measurement

Cuff Inflating <30s (0 - 300mmHg,
standard adult cuff)

Measuring Period AVE<40s

Mode Manual, Auto, STAT

Measuring Interval in

AUTO Mode 2 min - 4 hrs

Pulse Rate Range 30 - 250 (bpm)

Measuring Range

» Adult/Pediatric Mode

SYS 40 - 250 (mmHg)

DIA 15 - 200 (mmHg)

» Neonatal Mode

SYS 40 - 135 (mmHg)

DIA 15 - 100 (mmHg)

Resolution 1mmHg

Accuracy: Pressure

» Maximum Mean error ±5mmHg

» Max. Standard deviation 8mmHg

Overpressure Protection

» Adult Mode 280(mmHg)

» Neonatal Mode 150 (mmHg)

Alarm Limit Setting

» SYS 50 - 240 mmHg

» DIA 15 - 180 mmHg

TEMP

Range 0 - 50° C

(32 - 122° F)

Accuracy Without sensor

Display Resolution 0.1° C

Alarm Upper-lower Limit Setting:

» Upper limit 0-50° C

» Lower limit 0-50° C

Channel 2 channels, provide T1, T2, ΔT

Performance Specifications

SPO₂

ASpO₂ Anti-motion SpO₂

SpO₂ % Range 0 - 100%

SpO₂ Accuracy

» ±2% 70 - 100%, non-motion

» ±3% 70 - 100%, motion

Pulse Rate Range 30 - 250 bpm

Pulse Rate Accuracy

» ±2 bpm (non-motion)

» ±3 bpm (motion)

Alarm Upper-lower Limit Setting:

» Upper limit 70 - 100%

» Lower limit 70 - 100%

SpO₂ Probe

» Red Light LED Wavelength
660nm±5nm

» Infrared Light LED Wavelength
905nm±10nm

IBP (Option)

Measurement Range -50 - 300mmHg

Channel 2 channels

Pressure Transducer Sensitivity,
5μV/V/mmHg

Impedance Range 300 - 3000Ω

Transducer Sites ART, PA, CVP, RAP,
LAP, ICP

Resolution 1mmHg

Accuracy ±1mmHg or ±2%,
whichever is greater

Alarm range -50 - 300mmHg

EtCO₂ (Option)

Mode of Sampling Sidestream

Principle of Operation
Non-dispersive infrared (NDIR) single
beam optics, dual wavelength, no
moving parts

CO₂ Measurement Range
0 to 150 mmHg (0 to 19.7%, 0 to 20 kPa)

CO₂ Calculation Method BTPS
(Body Temperature Pressure Saturated)

CO₂ Resolution 0.1mmHg
(0 - 69mmHg); 0.25mmHg (70 - 150mmHg)

CO₂ Accuracy 0 - 40 mmHg ± 2 mmHg;
41 - 70 mmHg ± 5% of reading;
71 - 100 mmHg ± 8% of reading;
101 - 150 mmHg ± 10% of reading;
Above 80 breath per minute
± 12% of reading

Sampling Rate 100Hz

Respiration Rate 2 - 150 bpm

Respiration Rate Accuracy ±1 breath

Response Time <3 seconds
(includes transport time and rise time)

Inspired CO₂

Measurement Range
3 - 50 mmHg

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Specifications subject to change without notice