

OMNI II

TOUCH SCREEN PATIENT MONITOR



**ECG, SPO2, NIBP,
HR, TEMP, RESP.**

- 12.1" color TFT display with touch screen.
- Multi-lead ECG monitoring
- Touch screen user interface
- NIBP list & OxyCRG dynamic view display
- Drug dose calculations
- Large font display with 4, 6 & 8 waveforms shown
- Networkable with Central Monitoring System via a wireless or wired network
- S-T Segment & 72 hours trend data analysis
- Compact design is convenient for mobile monitoring
- Multi-lingual settings
- Optional:
Dual IBP, EtCO2 and Built-in thermal recorder



Advanced, Affordable Medical Technology For The World

OMNI II TECHNICAL SPECIFICATIONS

Physical Dimensions & Weight

Main Unit

Dimension: 555mm H x 335mm W x 235mm D
Weight: 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 the normal condition: 1 hour
Operating time after the first alarm of low battery: 10 mines

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: 48mm
Recorder paper: 50mm
Record speed: 25mm/s, 50mm/s
OxyCRG: Combines HR, SPO2 and Respiration 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
ECG Waveforms: 7 channels
Penetration Voltage: 4000VAC 50/60Hz

ECG (cont.)

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
Maximum 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

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

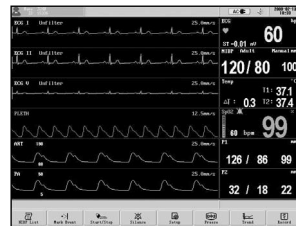
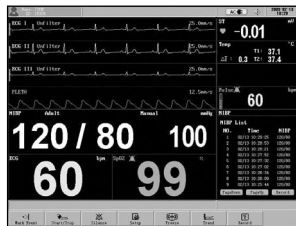
EiCO2 (OPTION)

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

Specifications subject to change without notice.

Selectable Screens:

4, 6 or 8 waveforms



Authorized Distributor:



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