OMNI III

MULTI-FUNCTION PATIENT MONITOR

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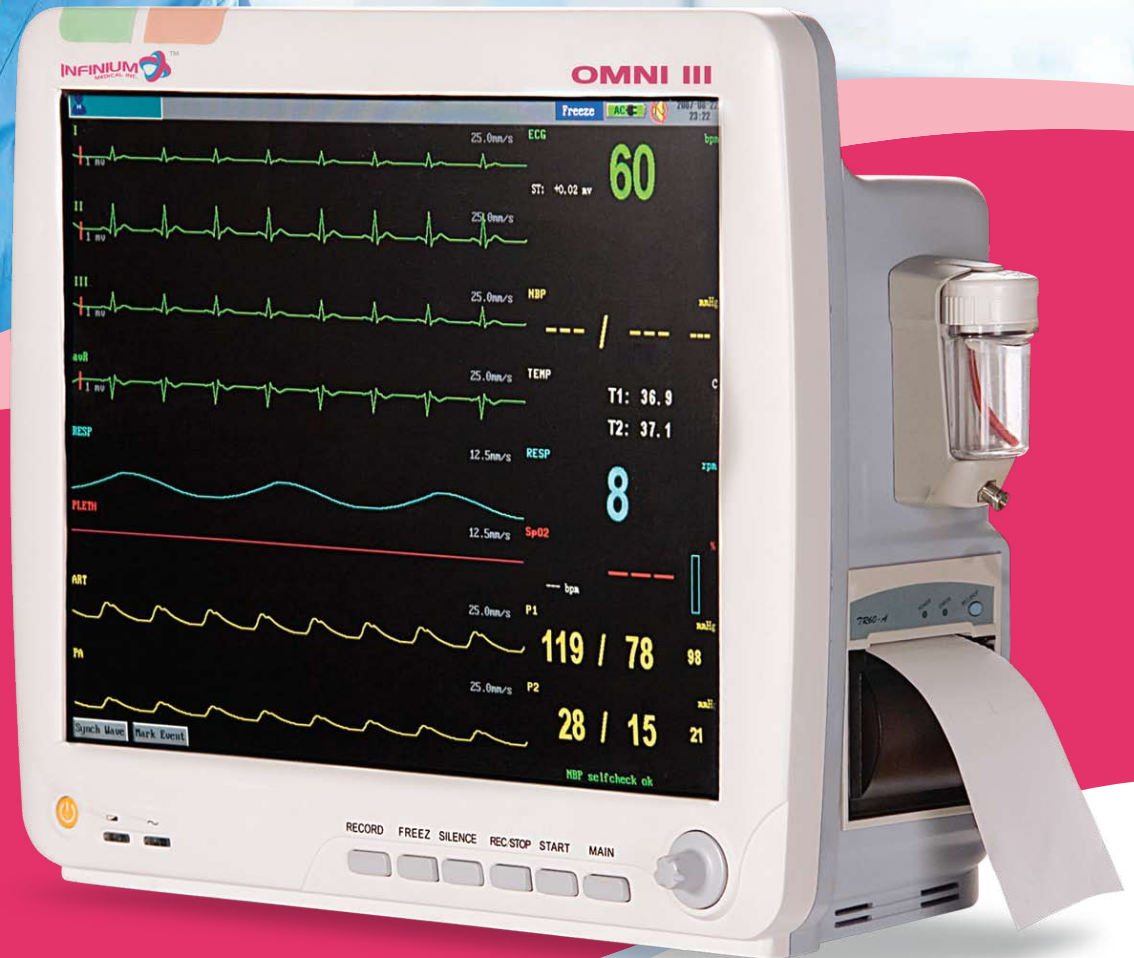
ECG, Respiration, SpO2, NIBP, Temperature

INFINIUM MEDICAL INC.

Advanced, Affordable Medical Technology For The World

- Facility to measure many parameters: ECG (3 or 5 lead) with ST segment monitoring, respiration, dual temperature monitoring, SpO2, non-invasive blood pressure.
- Up to 8 waveforms displayed
- Multi-lead simultaneous ECG monitoring
- Auto setting of alarm limits
- Graphical / Tabular trending
- Color coded alarms
- Patient data entry
- Battery backup (2 removable batteries)
- Networking capability
- Large high resolution 15 inch screen

The Omni III patient monitor delivers the best performance and flexibility for the price. The Omni III features a large 15" high resolution screen while still remaining light and portable.

PHYSICAL DIMENSIONS & WEIGHT

Base Unit:	309mm H×365mm W×159mm D
Weight:	7.0kgs

APPLICATION

Neonatal, pediatric and adult patients

PEFORMANCE SPECIFICATIONS

Display:	15" color TFT
Resolution:	1024×768
Trace:	8 waveforms
	ECG(I, II, III, aVR, aVL, aVF, V1-V6), PLETH, RESP
Indicator:	Alarm indicator
	Power indicator
	QRS beep and alarm sound
Trend time:	1- 48 hours
Recorder:	Built-in, thermal array, 2 channels
Record width:	48mm
Recorder paper:	50mm
Record speed:	25mm/s, 50mm/s

ECG

Input:	5-lead ECG cable and standard AAMI line for connection
Lead Choice:	I, II, III, aVR, aVF, aVL, V, TEST
Gain Choice:	×0.5, ×1, ×2
Frequency Characteristic:	0.05~35 Hz (+3dB)
ECG Waveforms:	7 channels
Penetration Voltage:	4000VAC 50/60Hz
Sweep Speed:	12.5, 25 and 50 mm/s
HR Display Range:	30~300bpm
Accuracy:	±5%, whichever is greater
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 (0~300 mmHg, standard adult cuff)
Measuring Period:	AVE<40s
Mode	Manual, Auto, STAT
Measuring Interval in AUTO Mode	2 min~4 hrs

NIBP (continue)

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	5~180 mmHg

TEMP

Range:	25~50 (°C)
Accuracy:	±0.2°C (25.0~34.9 °C)
	±0.1°C (35.0~39.9 °C)
	±0.2°C (40.0~44.9 °C)
	±0.3°C (45.0~50.0 °C)
Display Resolution:	0.1 °C
Alarm Upper-lower Limit Setting	
	upper limit 0~50 °C,
	lower limit 0~50 °C
Channel:	2 channels
Alarm Limit Setting:	10~50 °C

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
	±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	940nm±10nm

NETWORKING

Industry standard 802.11b/g wireless network

Frequency Range:	2.412 – 2.484 GHz
Connected bedside number:	up to 8 bedside monitors

POWER

Source:	External AC power or internal battery
AC Power:	100-240VAC, 50/60Hz, 150VA
Battery:	Built-in and rechargeable
Charge Time:	4 hours
Operating Time:	1 hour

ENVIRONMENTAL SPECIFICATIONS

Temperature:	
Operating:	5~40 °C
Storage:	-10~45 °C
Humidity range:	
Operating:	≤80 %
Storage:	≤80 %

BATTERY

Rechargeable Lead-Acid
Operating time under the normal condition - 1 hour
Operating time after the first alarm of low battery - 10 minutes

RECORDER (OPTION)

Record Width	48 (mm)
Paper Speed	25 (mm/S)
Trace	2

FUSE (SELF-RECOVERY)

Input fuse:	3.15A/250V

LIFETIME

8 Years

Authorized Distributor:

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