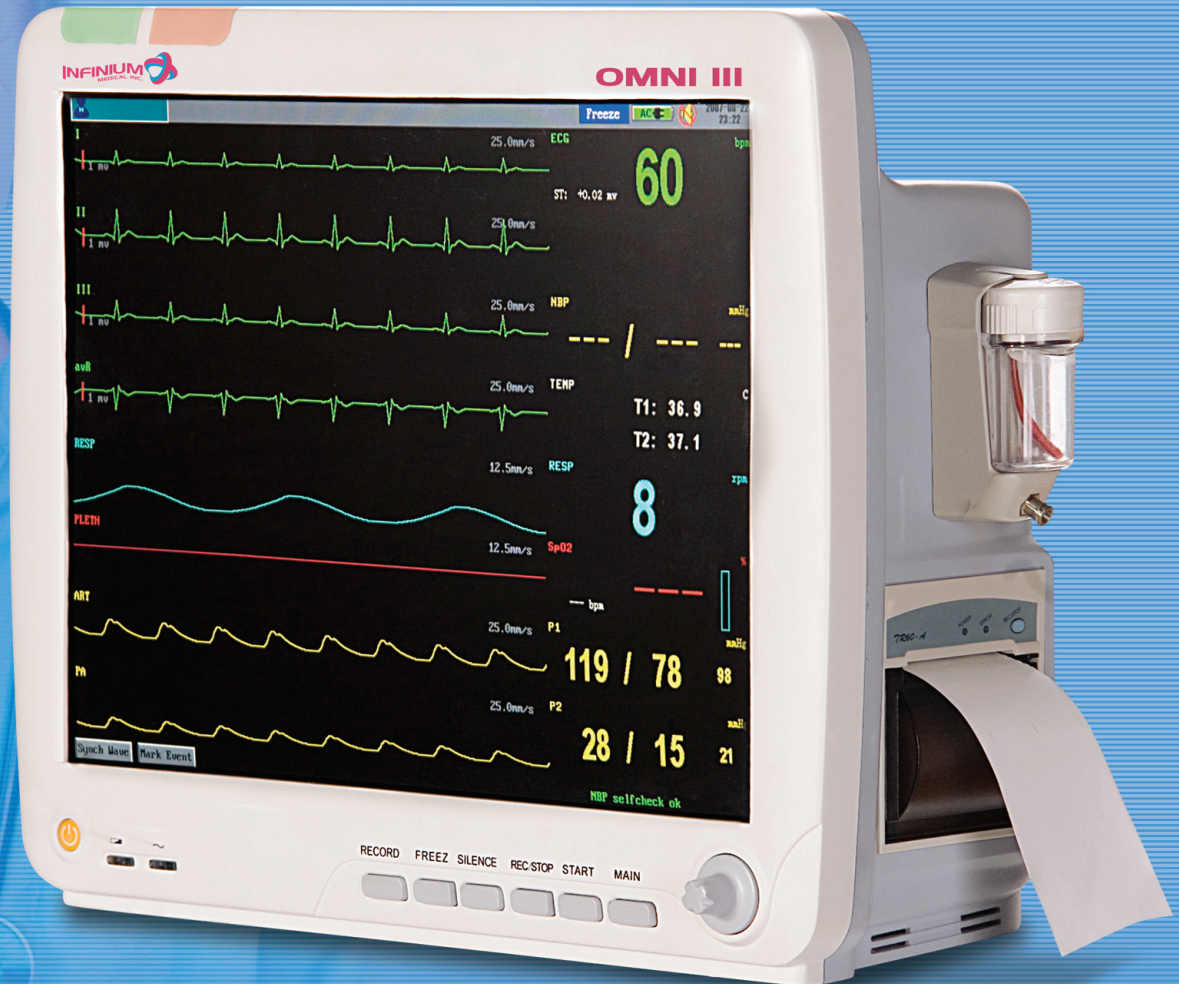


OMNI III

MULTI-FUNCTION PATIENT MONITOR

ECG • Respiration • SpO2 • NIBP • Temperature



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.

The Omni III offers:

- Facility to measure many parameters: ECG (3 or 5 lead) with ST segment monitoring, respiration, dual temperature monitoring, SpO2, non-invasive blood pressure.
- Optional features include: capnography, dual channel invasive blood pressure, anesthetic agent monitoring (5 agents, N2O, FIO2, EtCO2) and a built-in thermal printer.
- Up to 8 waveforms displayed
- Optional automatic agent ID
- 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



Advanced, Affordable Medical Technology For The World

OMNI III TECHNICAL SPECIFICATIONS

Physical Dimensions & Weight

Base Unit: 309mm H x 365mm W x 159mm D
Weight: 8.0kgs (including anesthetic agents module and batteries)

Application

Neonatal, pediatric and adult patients

Performance Specifications

Display: 15" color TFT, Resolution 1024 x 768
Trace: 8 waveforms
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: x0.5, x1, x2, x4
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: $\pm 1\text{bpm}$ or $\pm 1\%$, whichever is greater
Alarm Limit Range Setting: upper limit 100 ~ 200bpm, lower limit 30 ~ 100bpm

RESP

Measure Method: RA-LL impedance
Range: 0 ~ 120 rpm
Accuracy: $\pm 3\text{ rpm}$
Alarm 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
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:
Maximum Mean error: $\pm 5\text{mmHg}$
Maximum Standard deviation: 8mmHg

Overpressure Protection:
Adult Mode: 300(mmHg) Neonatal Mode: 160 (mmHg)

Alarm Limit Setting:
SYS: 50 ~ 240 mmHg DIA: 15 ~ 180 mmHg

TEMP

Range: 25 ~ 50 (°C)
Accuracy: $\pm 0.2^\circ\text{C}$ (25.0 ~ 34.9°C)
 $\pm 0.1^\circ\text{C}$ (35.0 ~ 39.9°C)
 $\pm 0.2^\circ\text{C}$ (40.0 ~ 44.9°C)
 $\pm 0.3^\circ\text{C}$ (45.0 ~ 50.0°C)
Display Resolution: 0.1°C
Alarm Limit Setting: upper limit 0 ~ 50°C, lower limit 0 ~ 50°C
Channel: 2 channels

SpO2

ASpO2: Anti-motion SpO2
SpO2% Range: 0-100%
SpO2 Accuracy: $\pm 2\%$ (70 ~ 100%, non-motion) $\pm 3\%$ (70 ~ 100%, motion)
Pulse Rate Range: 30-250 bpm
Pulse Rate Accuracy: $\pm 2\text{ bpm}$ (non-motion) $\pm 3\text{ bpm}$ (motion)
Alarm Limit Setting: upper limit 70 ~ 100%, lower limit 70 ~ 100%
SpO2 Probe: Red light LED wavelength 660nm $\pm 5\text{nm}$
Infrared light LED wavelength 940nm $\pm 10\text{nm}$

IBP

Measurement Range: -50 ~ 300mmHg
Channel: 2 channels
Pressure Transducer: sensitivity, 5 $\mu\text{V/V/mmHg}$
Impedance Range: 300 ~ 3000 Ω
Transducer Sites: ART, PA,CVP, RAP, LAP, ICP
Unit: mmHg/kPa selectable
Resolution: 1mmHg
Accuracy: $\pm 1\text{mmHg}$ or $\pm 2\%$, whichever is greater
Alarm Range: -10 ~ 300mmHg

EtCO2(Oridion)

CO2 Measurement Range: 0 ~ 99mmHg
Accuracy: $\pm 2\text{mmHg}$ (0 ~ 38mmHg)
39-99mmHg $\pm 5\%$ of reading + 0.08% for every 1mmHg (above 38mmHg)

Sampling Rate: 50 ml/min
Initialization Time: 30 seconds(typical), reaches $\pm 5\%$ steady-state accuracy within 3 minutes.

Respiration Rate: 0 ~ 150 breaths/min
Mode: adult, neonate

Anesthetic Agents

Method: Infrared absorption
Gas Sorts: Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane, CO2, N2O, O2(optional Automatic Agent ID)

Measurement Range:

Halothane, Isoflurane: 0 ~ 8.5%
Enflurane, Sevoflurane: 0 ~ 10%
Desflurane: 0 ~ 20%
CO2: 0 ~ 10%
N2O: 0 ~ 100%
O2: 0 ~ 100%

Bias:

Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane: $\pm(0.15\text{ Vol}\% + 15\% \text{ rel.})$
CO2: $\pm(0.5\text{ Vol}\% + 12\% \text{ rel.})$
N2O: $\pm(2\text{ Vol}\% + 8\% \text{ rel.})$
O2: $\pm 3\text{ Vol}\%$

Networking

Industry standard 802.11b/g wireless network

Power

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

Environmental Specifications

Temperature:
Operating: 5 ~ 40 °C
Storage: -20 ~ 65 °C
Humidity range:
Operating: $\leq 80\%$
Storage: $\leq 80\%$



Authorized Distributor:



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