OMNI II

TOUCH SCREEN PATIENT MONITOR



Features:

12.1 Inch Touch Screen3 or 5 Lead ECGVital Signs TrendingInvasive Blood Pressure

NIBP SPO 2 ETCO2 Temperature

OMNI II



Intuitive

Designed for a fast paced work environment, the Infinium **Omni II™** patient monitor offers an extremely simple and adaptable user interface. Patient information along with vital sign settings can be quickly modified to meet the needs of a patient's changing condition. The **Omni II** offers a high resolution 12.1 inch touch screen to optimize the speed of patient care. The user can therefore make quick screen adjustments, set default settings, alarm limits, and manage up to 72 hours of detailed patient data.

Upgradable

From the general floor to high acuity surgeries, the Infinium Omni II series patient monitors are designed to fit-in and move amongst many patient care areas. The **Omni II**[™] offers standard measurements of: non-invasive blood pressure, ECG with arrhythmia detection, motion tolerant SpO₂, Temperature, and Respiration rate. End-tidal CO₂, Anesthetic Agent measurement, Cardiac Output and Invasive blood pressure can added on-site by simply attaching our plug in modules. This field upgradability can allow the user to customize the monitor's acuity level while the patient's condition changes. If desired, the user can move from a basic vital signs monitor, to a continuous bed side monitor, to an operating room monitor while keeping the patient on a single monitor at all times.

Connective

The **Omni II**[™] offers several connective solutions to network multiple monitors and/or manage patient data on an electronic medical records platform or a HL7 based hospital information system. The **Omni II** patient monitor offers Ethernet and RS-232 connections with an open source communication protocol. Infinium offers 2 levels of networking and connectivity. The **Omni II** is HL7 compliant. The HL7 network protocol will allow for all patient information and vital sign trends to be transferred and stored on a hospital information system. For non-HL7 medical facilities, there is the Infinium **Omniview**[™] central station which allows the real time remote monitoring and network of up to 32 **Omni** patient monitors. The Omniview[™] archives full disclosure of all patient vital sign trends. The patient data from the **Omniview**[™] can be very simply saved, stored, printed, and, transferred.

A Field Upgradable Operating Room Solution A MONITOR THAT CAN GROW WITH YOU...

Whether it be a basic outpatient procedure or a high acuity cardiac surgery the **Omni II**TM can be upgraded and custom tailored on-site by the user. The **Omni II** is preconfigured with non-invasive blood pressure, 3/5 ECG with arrhythmia detection, impedance respiration, SpO₂, and temperature. More advanced readings of End-tidal CO₂, Anesthetic agent measurement, and Cardiac Output Invasive blood pressure can be activated by the user at anytime.

Capnography & Anesthetic Agent Measurement plug in Module:

The Infinium **Capnotrack™** module is a field upgradable plug in module that can measure End-tidal CO₂ alone or End-tidal CO₂ with the automatic identification of anesthetic agents (N₂O, O₂, Sevoflurane, Isoflurane, Desflurane, Halothane, Enflurane)

Both mainstream and sidestream modules are available for Endtidal CO₂ and agent measurement.

The **Capnotrack**[™] utilizes a low flow (50ml/min) sidestream method that allows use for intubated and non-intubated applications. The **Capnotrack**[™] sample line connection incorporates filter cells to eliminate the potential of cross contamination.



Simple connection sample lines allows the **Capnotrack™** to be one of the Industry's lowest cost per patient End-tidal CO₂ and anesthesia measurement systems.

Cardiac Output & Invasive Blood Pressure:



2 channels of invasive blood pressure and the facility for thermodilution cardiac output are standard on the **Omni II**^M.

ECG:

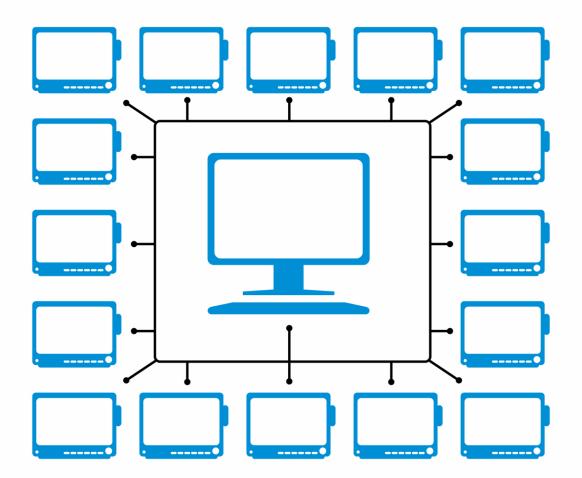


The **Omni II**[™] offers a 3, 5, and 12 lead ECG platform. Arrhythmia detection and ST are also standard and measurable on all lead sets.

- 3-Lead: I, II, III
- 5-Lead: I, II, III, aVR, aVL, aVF, V
- 12-Lead: I, II, III, aVR, aVL, aVF, V1~V6 (factory installed)

OMNIVIEW Central Station

SIMPLICITY IN CONNECTIVITY:



The **Omniview**[™] central station allows the wireless or hard-wired measurement for a network of up to 32 **Omni** patient monitors. The **Omniview**[™] archives full disclosure of all patient information and vital sign trends. In real time the **Omniview**[™] displays the patient's numeric vital signs along with waveforms. The patient data from the **Omniview**[™] can transferred to a EMR as a supplement to the patient's file or integrated into a hospital information system.

The **Omniview™** gives a real time display of all patient vital signs: Heart rate, Last BP reading, SpO₂, Temp, EtCO₂ and Respiration rate with waveforms.

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Mounting Solutions A RELIABLE CONNECTION

Several mounting systems are available for the Omni series patient monitors. Quick release slide mount Accessory basket Medical grade steel construction Lockable wheels

ROLLING STAND

Height and tilt adjustable with a large wheel base allows for smooth and stable mobility.



WALL MOUNTS

Height and tilt adjustable wall mounts offer.

- Quick release of monitor
- Medical grade construction
- Adaptable to anesthesia machines
- Adaptable to most wall rail systems

OMNIVIEW CENTRAL MONITORING SYSTEM SPECIFICATIONS:

MAIN FRAME

Power Supply AC100-240V 6A/3A

Basic Configuration

20" or larger color display Intel Pentium IV2.0G CPU Windows XP professional operating system 512MB RAM 80GB Fixed Disk drive

PERFORMANCE

Display

Size:

Number of display: Resolution:

color TFT display 20" or larger 1 or 2 sets (optional) 1280 x 1024

Waveform

Application

ECG (I, II, III, aVR, aVL, aVF, V1-V6) PLETH, RESP, CO2, IBP, Multi-gas

Parameter

HR, ST, NIBP, IBP, SpO2, PR, RR, TEMP, EtCO2, Multi-gas

Indicator

Up to 32-waveform presentation 12.5mm/s, 25.0mm/s, 50.0mm/s user-adjustable sweep speed Alarm sound

Alarm

High and Low limits alarm Audiable and visual alarm

Record Type

NIBP (continued)

TEMP

Overpressure Protection:

8 seconds real-time recording Freeze waveform recording Trend data recording Alarm strip recording

Printer

External Laser Printer

Resolution:

1mmHg

Adult Mode: 300 (mmHg)

SYS: 50 ~ 240 mmHa

Neonatal Mode: 160 (mmHg)

View

Up 64 waveforms for up to 32 bedside monitors (8 monitors per screen) All waveform presentation for single patient 48 hours of trend display for all parameters Multi-leads ECG waveform display Waveform freeze Wireless Networking Industry standard 802.11b/g WLAN Connected bedside number: up to 16 bedside monitors

Review

240 hours trend review for each bedside monitor 720 items parameters alarm review for each bedside monitor 720 NIBP measurements review 72 hours of 32 channels full-disclosure waveforms store and review

Connection methods

Wireless via transmitter Hardwired via ethernet Hardwired via RS-232

OMNI II TECHNICAL SPECIFICATIONS:

Neonatal, pediatric and adult patients **Peformance Specifications** Display: 12.1 inch color touch screen Trace: 8 waveforms Indicator: Alarm indicator Power indicator Trend time: 1 - 72 hour **Recorder:**

Input: Lead Choice: Gain Choice : Frequency Characteristic: ECG Waveforms:

x0.5, x1, x2, x4 0.05 ~ 35 HZ (+3dB) 7 channels Penetration Voltage: 4000VAC 50/60Hz 12.5, 25, 50 and 100 mm/sec Sweep Speed: (left to right or right to left) HR Display Range: 30 ~ 300bpm ±1bpm or ±1%, whichever is greater Accuracy: Alarm Limit Range Setting: upper limit 100 ~ 200bpm, lower limit 30 ~ 100bpm

(left to right or right to left)

RESP

ECG

Measure Method: Range: 0~120 rpm Accuracy: ±3 rpm Alarm Limit Setting: upper limit 6 ~ 120 rpm, lower limit 3 ~ 120 rpm Sweep Speed: 12.5, 25, 50 and 100 mm/sec

NIBP

Measuring Technology: automatic oscillating measurement <30s (0 ~ 300 mmHg, standard Cuff Inflating: 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)

Accuracy Maximum Mean error: ±5mmHa Maximum Standard deviation: 8mmHa

QRS beep and alarm sound Built-in, thermal array, 3 channels Record width: 48mm Recorder paper: 50mm Record speed: 25mm/s, 50mm/s 5-lead ECG cable and standard AAMI line for connection I, II, III, aVR, aVF, aVL, V, V1-V6, TEST Sp02 **RA-LL** impedance

IRP

Measurement Range: Channel: Pressure Transducer: Impedance Range: Transducer Sites: Unit: Resolution: Accurancy: AlarmRange: EtCO2

Alarm Limit Setting:

CO₂ Measurement Range: Accuracy:

> Sampling Rate: Initialization Time:

Respiration Rate: Mode:

Alarm Limit Setting: DIA: 15 ~ 180 mmHg 25 ~ 50 (°C) Range: ± 0.2°C (25.0 ~ 34.9°C) Accuracy: ± 0.1°C (35.0 ~ 39.9°C) $\pm 0.2^{\circ}C$ (40.0 ~ 44.9°C) ± 0.3°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 ASp02: Anti-motion Sp02 Sp02% Range: 0-100% ±2% (70 ~ 100%, non-motion) Sp02 Accuracy: ±3% (70 ~ 100%, motion) Pulse Rate Range: 30-250 bpm Pulse Rate Accuracy: ±2 bpm (non-motion ±3 bpm (motion) upper limit 70 ~ 100%, lower limit 70 ~ 100% Sp02 Probe: Red light LED wavelength 660nm±5nm

> 940nm±10nm -50 ~ 300mmHg 2 channels sensitivity, 5µV/V/mmHg **300 ~ 3000**Ω ART, PA.CVP, RAP, LAP, ICP mmHg/kPa selectable 1mmHg ±1mmHg or ±2% whichever is greater -10 ~ 300mmHg

Infrared light LED wavelength

0 ~ 99mmHg ±2mmHg (0~ 38mmHg) 39-99mmHg ±5% of reading +0.08% for every 1mmHg (above 38mmHg) 50 ml/min 30 seconds (typical), reaches ±5% steady-state accuracy within 3 minutes. 0 ~ 150 breaths/min adult. neonate

C.O. (Cardiac Output) Measurement Method

Bias:

Thermodilution Method Measurement Range C.O. 0.1 to 20 L/min TB 23 to 43 0 to 27 TΙ Resolution 0.1 L/min C.O. TB, TI 0.1 ±5% or ±0.1 L/min, which-Accuracy C.O. ever is greater, as measured using electronically generated flow curves. TB, TI ±0.1 (without sensor) Alarm Range 23 to 43 TR Repeatability ±2% or ±0.1 L/min, which-C.O. ever is greater, as measured using electronically generated flow curves. **Anesthetic Agents** Method: Infrared absorption Gas Sorts: Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane, CO2, N2O, 02 (optional Automatic Agent ID) Measurement Range: Halothane, Isoflurane: 0~8.5% Enflurane. Sevoflurane: 0~10% 0~20% Desflurane: CO2: $0 \sim 10\%$ N₂0: 0~100% 02: 0~100% Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane: ±(0.15 Vol% + 15% rel.) CO2: ±(0.5 Vol% + 12% rel.) ± (2 Vol% + 8% rel.) N20: ±3 Vol% 02: Networking Industry standard 802.11b/g wireless network Power Source: External AC power or internal battery 100 ~ 240VAC, 50/60Hz, 150VA AC Power: Battery: Built-in & rechargeable lithium ion Operating Time: 3+ hours **Environmental Specifications** Temperature: Operating: 5 ~ 40 °C Storage: -20 ~ 65 °C Humidity range: Operating: ≤80 % Storage: ≤80 % **Other Standard Features** OxyCRG, drug dose calculation, cascading ECG,

On screen NIPB trends (up to 250 readings). user set defaults, Arrhythmia detection, ST segment



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