

# OMNI II

## TOUCH SCREEN PATIENT MONITOR



# OMNI II

## ■ Intuitive

Designed for a fast paced work environment, the Infinium Omni series patient monitors offers an extremely simple and adaptable user interface. The **Omni II** offers a standard high resolution 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. The patient information along with vital sign settings and be quickly modified to meet the needs of a patients changing condition.

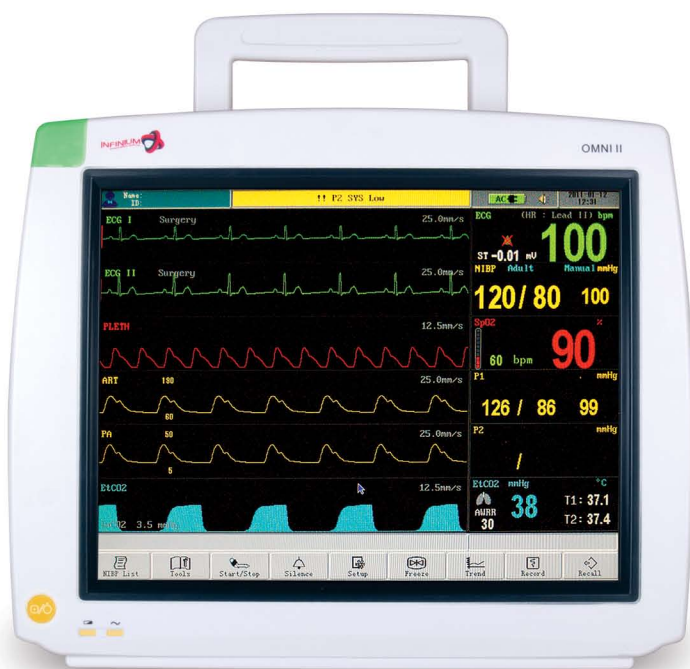
## ■ Upgradable

From the general floor to high acuity surgeries, the Infinium Omni 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 SpO<sub>2</sub>, Temperature, and Respiration rate. End-tidal CO<sub>2</sub>, Anesthetic gasses 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 monitors 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 anesthesia 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 a EMR or hospital network. The Omni series patient monitors offer Ethernet and RS-232 connections with an open source communication protocol. Infinium offer 2 levels of networking and connectivity. The Infinium **Datamanager**® is a software solution designed for surgery centers and office based surgery. The **Datamanager**® software application allows for the patient information and vital sign trends to be saved and stored on a dedicated PC. For larger medical facilities, the **Omniview**® central station allows the real time measurement and network of up to 32 Omni patient monitors. The **Omniview**® archives full disclosure of all patient vital sign trends. The patient data from either of these applications can sent to an EMR as a supplement to the patient's file or integrated into a hospital network.





## ■ Field Upgradable

*A monitor that can grow with you...*

All Infinium Omni series patient monitors are preconfigured with non-invasive blood pressure, ECG with arrhythmia detection, impedance respiration, SpO<sub>2</sub>, and temperature. End-tidal CO<sub>2</sub>, Anesthetic agent measurement, Invasive blood pressure, extended life batteries and thermal recorders are all upgrades that can be added by the user after initial purchase. These modules can also be moved between monitors to save costs on large monitor installations.



The Infinium **Capnotrac**® module is a field upgradable plug in module that can measure End-tidal CO<sub>2</sub> alone or End-tidal CO<sub>2</sub> with, O<sub>2</sub>, N<sub>2</sub>O, Halothane, Sevoflurane, Desflurane, Enflurane and Isoflurane gasses.



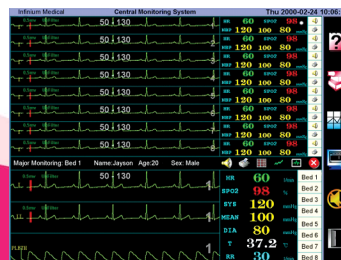
Both mainstream and sidestream modules are available for End-tidal CO<sub>2</sub> and anesthetic gas measurement.

## ■ Simplicity in Connectivity:

# THE OMNIVIEW CENTRAL STATION



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 be sent to an EMR as a supplement to the patient's file or integrated into a hospital network.



The *Omniview*® gives a real time display of all patient vital signs: **Heart rate, Last BP reading, SpO<sub>2</sub>, Temp, EtCO<sub>2</sub> and Respiration rate.**

## ■ A reliable connection:

# MOUNTING SOLUTIONS

*Several mounting systems are available for the Omni series patient monitors.*



## ■ 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

## ■ Rolling Stands

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

- Quick release slide mount
- Accessory basket
- Medical grade steel construction
- Lockable wheels



# 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: color TFT display 20" or larger

Number of display: 1 or 2 sets (optional)

Resolution: 1280 x 1024

### Waveform

ECG (I, II, III, aVR, aVL, aVF, V1-V6)

PLETH, RESP, CO<sub>2</sub>, IBP, Multi-gas

### Parameter

HR, ST, NIBP, IBP, SpO<sub>2</sub>, PR, RR, TEMP, EtCO<sub>2</sub>, 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

Audible and visual alarm

### Record Type

8 seconds real-time recording

Freeze waveform recording

Trend data recording

Alarm strip recording

### Printer

External Laser Printer

### View

Up to 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:

## Application

Neonatal, pediatric and adult patients

## Performance Specifications

Display: 12.1 inch color touch screen

Trace: 8 waveforms

Indicator: Alarm indicator

Power indicator

QRS beep and alarm sound

Trend time: 1 - 72 hour

Recorder: Built-in, thermal array, 3 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, 50 and 100 mm/sec

(left to right or right to left)

HR Display Range: 30 ~ 300bpm

Accuracy: ±1bpm or ±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: ±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

(left to right or right to left)

## 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)

## NIBP (continued)

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: ±5mmHg

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: ± 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 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: ±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 Limit Setting: upper limit 70 ~ 100%,

lower limit 70 ~ 100%

SpO2 Probe: Red light LED wavelength

660nm±5nm

Infrared light LED wavelength

940nm±10nm

## IBP

Measurement Range: -50 ~ 300mmHg

Channel: 2 channels

Pressure Transducer: sensitivity, 5pV/V/mmHg

Impedance Range: 300 ~ 3000Ω

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

mmHg/kPa selectable

Unit: 1mmHg

Resolution: ±1mmHg or ±2%,

whichever is greater

AlarmRange: -10 ~ 300mmHg

## EtCO2

CO<sub>2</sub> Measurement Range: 0 ~ 99mmHg

Accuracy: ±2mmHg (0 ~ 38mmHg)

39-99mmHg ±5% of reading +0.08%

for every 1mmHg (above 38mmHg)

Sampling Rate: 50 ml/min

Initialization Time: 30 seconds(typical), reaches ±5%

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, CO<sub>2</sub>, N<sub>2</sub>O,

O<sub>2</sub> (optional Automatic Agent ID)

Measurement Range:

Halothane, Isoflurane: 0 ~ 8.5%

Enflurane, Sevoflurane: 0 ~ 10%

Desflurane: 0 ~ 20%

CO<sub>2</sub>: 0 ~ 10%

N<sub>2</sub>O: 0 ~ 100%

O<sub>2</sub>: 0 ~ 100%

Bias:

Halothane, Isoflurane, Enflurane,

Sevoflurane, Desflurane: ±(0.15 Vol% + 15% rel.)

CO<sub>2</sub>: ±(0.5 Vol% + 12% rel.)

N<sub>2</sub>O: ± (2 Vol% + 8% rel.)

O<sub>2</sub>: ±3 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: ≤80 %

Storage: ≤80 %

## Other Standard Features

OxyCRG, drug dose calculation, cascading ECG,

On screen NIBP trends (up to 250 readings),

user set defaults, Arrhythmia detection, ST segment



12151 62nd St N #5 • Largo FL 33773 • USA

Phone: (1) 727-531-8434 • Fax: (1) 727-531-8436

Web: www.infiniummedical.com • Email: sales@infiniummedical.com

