OMNI EXPRESS

PORTABLE PATIENT MONITOR





OMNI EXPRESS

Intuitive

Designed for a fast paced work environment, the Infinium Omni series patient monitors offers an extremely simple and adaptable user interface. The *Omni Express* 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 Express* offers standard measurements of: non-invasive blood pressure, ECG with arrhythmia detection, motion tolerant SpO₂, Temperature, and Respiration rate. End-tidal Co₂ 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 Express* 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_2 , and temperature. End-tidal Co_2 , 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 Co₂.



Both mainstream and sidestream modules are available for End-tidal Co₂.



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





■ 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

color TFT display 20" or larger Number of display: 1 or 2 sets (optional)

1280 x 1024 Resolution:

Waveform

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

Δlarm

High and Low limits alarm Audiable and visual alarm

Record Type

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

Alarm strip recording

Printer

External Laser Printer

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 EXPRESS TECHNICAL SPECIFICATIONS:

Application

Neonatal, pediatric and adult patients

Peformance Specifications

Display: 8 inch color touch screen 8 waveforms Trace:

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

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) FCG Waveforms: 7 channels 4000VAC 50/60Hz Penetration Voltage:

12.5, 25, 50 and 100 mm/sec Sweep Speed: (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

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)

NIRP

automatic oscillating measurement Measuring Technology:

<30s (0 ~ 300 mmHg, standard **Cuff Inflating:** adult cuff)

Measuring Period: AVF<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 (mmHa) DIA: 15 ~ 100 (mmHq)

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

25 ~ 50 (°C) Range:

± 0.2°C (25.0 ~ 34.9°C) Accuracy: ± 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

Sp02

ASp02: Anti-motion Sp02

Sp02% Range: 0-100%

Sp02 Accuracy: ±2% (70 ~ 100%, non-motion) ±3% (70 ~ 100%, motion)

Pulse Rate Range: 30-250 hpm Pulse Rate Accuracy: ±2 bpm(non-motion)

±3 bpm (motion) upper limit 70 ~ 100%. Alarm Limit Setting:

lower limit 70 ~ 100% Red light LED wavelength Sp02 Probe:

660nm+5nm Infrared light LED wavelength

940nm±10nm

IBP

Measurement Range: -50 ~ 300mmHa 2 channels Channel: Pressure Transducer: sensitivity, 5µV/V/mmHg

Impedance Range: $300 \sim 3000\Omega$ ART, PA,CVP, RAP, LAP, ICP Transducer Sites: Unit: mmHg/kPa selectable

Resolution: 1mmHg Accurancy: ±1mmHg or ±2%, whichever is greater AlarmRange: -10 ~ 300mmHa

EtC02

CO₂ Measurement Range: 0 ~ 99mmHa

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%

steady-state

accuracy within 3 minutes.

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

Networking

Industry standard 802.11b/g wireless ne twork

Power

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

Charge Time: 4 hours

Environmental Specifications

Temperature:

5 ~ 40 °C Operating: -20 ~ 65 °C Storage:

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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