

OMNI II

TOUCH SCREEN PATIENT MONITOR



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 120 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 be 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™ 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 CO₂ 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)

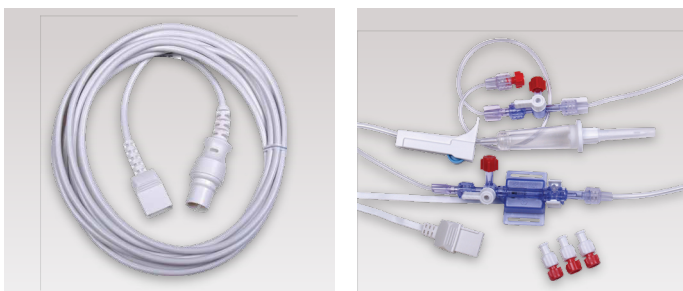
Both mainstream and sidestream modules are available for End-tidal CO₂ and agent measurement.

Our CO₂ utilizes a low flow (50ml/min) sidestream method that allows use for intubated and non-intubated applications. The CO₂ sample line connection incorporates filter cells to eliminate the potential of cross contamination.



Simple connection sample lines allows our CO₂ 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™.

ECG:

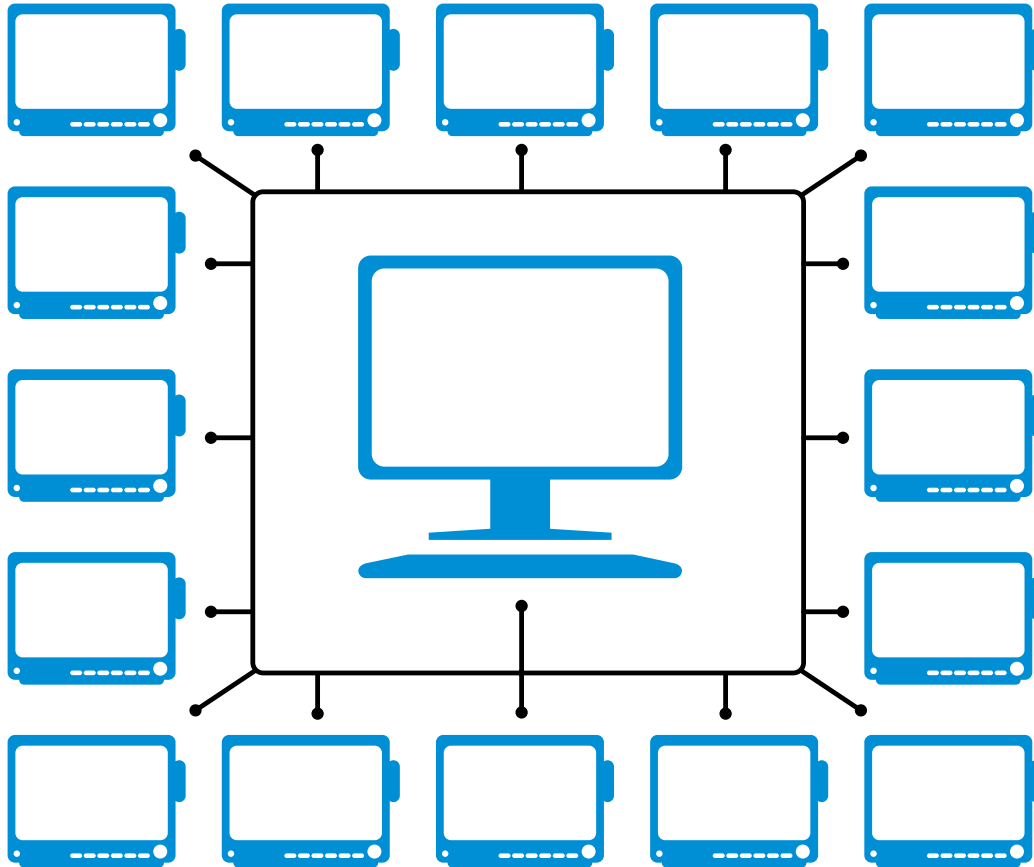


The Omni II™ offers a 3, 5, and 12 lead ECG platform. Arrhythmia detection and ST are also standard and measurable on all lead sets.

- 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 be transferred to an 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.



Mounting Solutions

A RELIABLE CONNECTION

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

ROLLING STAND

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



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

22" or larger color display
 CPU: AMD Ryzen 9 5900HX with 8Cores
 GPU: AMD Radeon Graphics
 RAM: DDR4 8GBx2 Dual Channel
 Storage: Quiet 512GB SSD

Performance

Display

Size: Color TFT display 22" 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, CO₂, IBP, Multi-gas

Parameter

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

In dicator

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
 (16 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: 3, 6, or 8 waveforms
 Indicator: Alarm indicator
 Power indicator
 QRS beep and alarm sound
 Trend Time: 1-120 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, aVL, V, V1-V6, TEST
 Gain Choice: x0.5, x1, x2, x4
 Frequency Characteristic: 0.05 ~ 35 Hz (+3dB)
 ECG Waveforms: 7 channels
 Penetration Voltage: 4000VAC50/60Hz
 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: 6.25, 12.5, 25 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 AUTOMode: 2 min ~ 4 hrs
 Pulse Rate Range: 30 ~ 250 (bpm)
 Measuring Range: Adult/Pediatric Mode: SYS: 40 ~ 250 (mmHg) DIA: 15 ~ 200 (mmHg) SYS: 40 ~ 135 (mmHg) DIA: 15 ~ 100 (mmHg) Neonatal Mode: Accuracy: Maximum Mean Error: ±5mmHg Maximum Standard deviation: 8mmHg

NIBP (CONTINUED)

Resolution: 1mmHg
 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) 0.1°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: -10 ~ 300mmHg
 Channel: 2 channels
 Pressure Transducer: sensitivity, 5µV/V/mmHg
 Impedance Range: 300 ~ 3000Ω
 Transducer Sites: ART, PA, CVP, RAP, LAP, ICP
 Unit: mmHg/kPa selectable
 Resolution: 1mmHg
 Accuracy: ±1mmHg or ±2%, whichever is greater
 Alarm Range: -10 ~ 300mmHg

ETCO₂

CO₂ 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% steady-state accuracy within 3 minutes.
 Respiration Rate: 0 ~ 150 breaths/min
 Mode: adult, neonate

CARDIAC OUTPUT

Measurement Method: Thermodilution Method
 Measurement Range: C.O. 0.1 to 20 L/min TB 23 to 43°C TI 0 to 27°C
 Resolution: C.O. 0.1 L/min TB, TI 0.1°C
 Accuracy: C.O. ±5% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves. TB, TI ±0.1 °C (without sensor)
 Alarm Range: TB 23 to 43°C
 Repeatability: C.O. ±2% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves.

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: ±(0.15 Vol% + 15% rel.) CO₂: ±(0.5 Vol% + 12% rel.) N₂O: ±(2 Vol% + 8% rel.) O₂: ±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 & 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 NIBP trends (up to 250 readings), user set defaults, Arrhythmia detection, ST segment



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