OMNI III

VERSATILITY IN VITAL SIGNS

INFINIUM

[Image of a medical device displaying vital signs]
Intuitive

Designed for a fast paced work environment, the Infinium Omni III™ 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 III offers a high resolution 15 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 series patient monitors are designed to fit-in and move amongst many patient care areas. The Omni III™ 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 bedside monitor, to an operating room monitor while keeping the patient on a single monitor at all times.

Connective

The Omni III™ 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 III patient monitor offers Ethernet and RS-232 connections with an open source communication protocol. Infinium offers 2 levels of networking and connectivity. The Omni III 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.
Whether it be a basic outpatient procedure or a high acuity cardiac surgery the **Omni III™** can be upgraded and custom tailored on-site by the user. The **Omni III** 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.

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**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 End-tidal 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.

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**Cardiac Output & Invasive Blood Pressure:**

2 channels of invasive blood pressure and the facility for thermodilution cardiac output are standard on the **Omni III™**.

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**ECG:**

The **Omni III™** 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)
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.
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
OMNI III TECHNICAL SPECIFICATIONS:

Application
Neonatal, pediatric and adult patients

Performance Specifications
Display: 15 inch color touch screen
Trace: 8 waveforms
Indicator: Alarm indicator
Power Indicator
GVS beep and alarm sound
Accuracy: ±3 bpm (motion)
Alarm Limit Setting: upper limit 3 ~ 120 rpm,
Alarm Range: -10 ~ 300mmHg
Resolution: 1200 x 1024
Waveform
ECG (I, II, III, aVR, aVL, aVF, V1-V6)
PLETHER, RESP, CO2, IBP, Multi-gas

nBPI (continued)
Resolution: 1mmHg
Overpressure Protection: Adult Mode: 300 (mmHg)
Alarm Limit Setting: SYS: 50 ~ 240 mmHg
DIA: 15 ~ 180 mmHg

TEMP
Range: 25 ~ 50 °C
Accuracy: ±0.2°C (25.0 ~ 35.9°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)

Respiratory System
Respiratory Rate Range: 0 ~ 150 breaths/min
Respiratory Mode: adult, neonatal
Accuracy: ±15% or ±2% or ±0.5 Vol% or ±12% rel.

C.O. (Cardiac Output)
Measurement Method: Thermoclinical Method
Measurement Range: TEB: 0 to 27
Tb: 0.1 L/min
Resolution: C.O. ±5% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves.
Accuracy: C.O. ±0.1°C (without sensor)
Alarm Range: TB: 23 to 43
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, Enflurane: 0 ~ 8.5%
Sevoflurane, Desflurane: 0 ~ 10%
CO2: 0 ~ 30%
N2O: 0 ~ 10%
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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