Intuitive

Designed for a fast paced work environment, the Infinium Omni (K)™ 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 (K) offers a high resolution 10.5 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 (K) series patient monitors are designed to fit-in and move amongst many patient care areas. The Omni (K)™ 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 (K)™ 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 (K) patient monitor offers Ethernet and RS-232 connections with an open source communication protocol. Infinium offers 2 levels of networking and connectivity. The Omni (K) 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 (K)™ can be upgraded and custom tailored on-site by the user. The Omni (K) 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 Entide™ 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 Entide™ utilizes a low flow (50ml/min) sidestream method that allows use for intubated and non-intubated applications. The Entide™ sample line connection incorporates filter cells to eliminate the potential of cross contamination.

Simple connection sample lines allows the Entide™ 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 (K)™.

**ECG:**

The Omni (K)™ 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)
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.
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**: 20" or larger color display, Intel Pentium IV 2.00 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, aVF, V1-V6)
  - PLETH, RESP, CO2, IBP, Multi-gas

- **NIBP (continued)**
  - Parameter:
    - 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)
    - Display Resolution: ±0.1°C
    - Alarm Limit Setting:
      - upper limit 20 – 100°C
      - lower limit 0 – 50°C
    - Channel: 2 channels

- **SpO2**
  - Resolution: ±3% (70 ~ 100%, motion)
  - Accuracy:
    - ±0.2°C (25.0 – 34.9°C)
    - ±0.3°C (45.0 – 50.0°C)
  - SpO2% Range: 0-100%

- **IBP**
  - Measurement Range: ±50 – 300 (mmHg)
  - Channel: 2 channels
  - Pressure Transducer: sensitivity, 5µV/V/mmHg
  - Impedance Range: 300 – 3000 (ohms)
  - Transducer Sites: ART, PA, CVP, RAP, LAP, ICP
  - Unit: mmHg/kPa selectable
  - Resolution: 1mmHg
  - Accuracy:
    - ±1mmHg or ±2%, whichever is greater
  - Alarm Range:
    - lower limit 0 – 50mmHg

- **ECO2**
  - Measurement Method:
    - CO2 Measurement Range:
      - 0 – 990 (mL/min)
  - Accuracy:
    - ±5% of range +0.08% for every 1mmHg above 38 (mL/min)
    - Sampling Rate: 50 (mL/min)
    - Initialization Time: 30 seconds (typical), reaches ≥5% steady-state accuracy within 3 minutes.

### C.O. (Cardiac Output)
- **Measurement Method**
  - Thermodilution Method
  - Measurement Range:
    - C.O.: 0.1 to 20 L/min
    - Resolution: C.O.: 0.1 L/min
    - Accuracy:
      - C.O.: ±5% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves.
      - TB, TI: ±0.1 (without sensor)
    - 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)

### 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: -10 – 45 °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