OMNI EXPRESS

PORTABLE PATIENT MONITOR



OMNI EXPRESS



Intuitive

Designed for a fast paced work environment, the Infinium **Omni Express**[™] 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 Express** offers a high resolution 7 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 Express 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, Masimo SET® SpO2, Temperature, and Respiration rate. Masimo SET® (Signal Extraction Technology®) SpO2 provides industry standard Measure-through Motion and Low Perfusion™ Pulse Oximetry to Infinium patient monitors. End-tidal CO₂ 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 Express™** 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 Express** patient monitor offers Ethernet and RS-232 connections with an open source communication protocol. Infinium offers 2 levels of networking and connectivity. The **Omni Express** 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 Express™** can be upgraded and custom tailored on-site by the user. The **Omni Express** 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 can be activated by the user at anytime.

Capnography & Anesthetic Agent Measurement plug in Module:



The Infinium **Capnotrack**[™] module s a field upgradable plug in module that can measure End-tidal CO₂ alone

Both mainstream and sidestream modules are available for Endtidal CO2 and agent measurement The CapnotrackTM utilizes a low flow (50ml/min) sidestream method that allows use for intubated and non-intubated applications. The CapnotrackTM 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 industries lowest cost per patient End-tidal CO₂ systems



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 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.

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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.

Medical grade steel construction



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 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) **Resolution:** 1280 x 1024 Waveform ECG (I, II, III, aVR, aVL, aVF, V1-V6) PLETH, RESP, CO2, IBP, Multi-gas

Size:

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 Alarm 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**

View

Hardwired via RS-232

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

OMNI EXPRESS TECHNICAL SPECIFICATIONS:

| | 01710110 | TEMPEDATURE | | 000 Accurrent | 0.40 mml/a · 2 mml/a |
|---------------------------|---|--------------------------|---|----------------------------|---|
| PEFURMANCE SPECIFI | CATIONS | TEMPERATURE | | GUZ Accuracy: | $0 \sim 40 \text{ mmHg} \pm 2 \text{ mmHg}$ |
| Display: | 7" color TFT | Range: | 25~50 (°C) | | $41 \sim 70$ mmHg ± 5% of reading |
| Resolution: | 1024×860 | Accuracy: | ± 0.2 °C (25.0~34.9 °C) | | $71 \sim 100 \text{ mmHg} \pm 8\% \text{ of reading}$ |
| Trace: | 2 or 3 waveforms | | ± 0.1 °C (35.0~39.9 °C) | | $101 \sim 150 \text{ mmHg} \pm 10\% \text{ of reading}$ |
| Waveforms | ECG(I, II, III, aVR, aVL, aVF, V1-V6), | | ± 0.2 °C (40.0~44.9 °C) | | Above 80 breath per minute \pm 12% of reading |
| | PLETH, RESP, ETCO2 | | ± 0.3 °C (45.0~50.0 °C) | Sampling Rate: | 100Hz |
| Indicator: | Alarm indicator | Display Resolution: | 0.1 °C | Respiration Rate: | 2~150 bpm |
| | Power indicator | Alarm Upper-lower Limit: | Upper limit 0~50 °C | Respiration Rate Accuracy: | ±1 breath |
| | QRS beep and alarm sound | | Lower limit 0~50 °C | Response Time: | <3 seconds - includes transport time |
| Trend time: | From 30 minutes to 72 hours | Channel: | 1 channels | | and rise time |
| ECG | | Alarm Limit | 10~50 (°C) | Inspired CO2 | |
| Input: | 5 lead or 3 lead ECG cable and standard | Masimo SET Pulso Ovi | inetry (standard) | Measurement Range: | 3~50 mmHa |
| | AAMI line for connection | SnO2 | inica y (standard) | NETWORKING | 5 |
| Lead Choice | I II III aVB aVF aVI V | Massurement renges | 0% to 100% | Wired Networking: | Industry standard: IEEE 802.3 |
| Gain Choice: | | weasurement range: | 0% 10 100% | in our notificitien ang. | wired network |
| CMPD (common mode | ~0.0, ~1.0, ~2.0 | Resolution: | 1% | | Connected bedside number |
| civinn (common mode | 100 dB at E0 Up at 60 Up | Accuracy: | | | Un to 16 bodside monitors |
| rejection ratio): | > 100 dB at 50 Hz or 60 Hz | Accuracy: | 70% to 100%, +/-2%, Adult/ | | D 10 10 Deuside monitors |
| Frequency Characteristic: | 0.67~40 HZ (+30B attenuation) | | Pediatric, Non-motion conditions | Winsless Nationalism | RJ45 III.eliace of R5232 Selial port |
| ECG Waveforms: | 7 channels | | 70% to 100%, +/-3%, Neonate, Non- | wireless Networking: | Up to TUUM Indoors |
| Sweep Speed: | 12.5, 25 and 50 mm/s | | motion conditions | | Frequency Range: 2.412~2.484 GHZ |
| HR Display Range: | 30~300bpm | | 70% to 100%, +/-3%, Adult/ | | Industry standard 802.11b/g wireless |
| Accuracy: | ±1bpm or ±1%, whichever is greater | | Pediatric/Infant/Neonate, Motion | | Supports TCP/IP and UDP/IP Protocols |
| Alarm Limit Range | Upper limit: 80~400bpm | | conditions | POWER | |
| | Lower limit: 20~150bpm | | 70% to 100%, +/-2%, Adult/ | Source: | External AC power and internal battery |
| RESPIRATION | | | Pediatric/Infant/Neonate, Low | AC Power: | 100~240VAC, 50/60Hz, 150VA |
| Measure Method: | RA-LL impedance | | nerfusion conditions | Battery: | Rechargeable Lead-Acid |
| Range: | 0~120 rpm | Averaging time: | 2×4 sec 4×6 sec 8 sec 10 sec 12 | | Type: FB 1223 12v-2.3Ah |
| Accuracy: | ±3 rpm | Averaying une. | $2 \sim 4$ Sec, $4 \sim 0$ Sec, 0 Sec, 10 Sec, 12 | | Operating time under normal |
| Alarm Upper-lower Limit: | Upper limit: 6~120 rpm. | Consitivity oottingo. | Normal Maximum ADOD (user | | condition: 3 hour |
| | Lower limit: 3~120 rpm | Selisiuvity seturiys: | Normal, Maximum, APOD (user | | Operating time after the first alarm of |
| Sween Sneed | 12.5 and 25mm/s | selectable) | | | low battery: 10 minutes |
| NIRP | | Puise kate | | | Manufacturer: Pilot Battery Co., I td. |
| Measuring Technology: | Automatic oscillating measurement | Measurement range: | 25 to 240 bpm | Charge Time | 4 hours |
| Cuff Inflating | <30s (0300 mmHq, standard adult cuff) | Accuracy: | +/-3 bpm, Adult/Pediatric/Infant/ | Onerating Time: | 3+ hour |
| Moscuring Dariad | | | Neonate, Non-motion conditions | ENVIRONMENTAL SPEC | CIFICATIONS |
| Medasu | AVL<405 | | 5 bpm, Adult/Pediatric/Infant/ | Temperature | Operating: 5-,40 °C |
| Mode: | Manual, Auto, STAT | | Neonate, motion conditions | iemperature. | Storago, 10 45 °C |
| | O main A han | Resolution: | 1 bpm | Humidity Dongo | Operating 20 % |
| AUTO Mode: | 2 min~4 nrs | Perfusion Index (PI) | | numuny namye. | |
| Puise Rate Range: | 30 ppm~250 ppm | Measurement range: | 0.02 - 20% | | Storage: ≤o0 % |
| Measuring Range: | Adult/Pediatric Mode | Any other Sp02 (optio | nal) | | 40 () |
| | SYS 40~250 (mmHg) | | | Record Width: | 48 (mm) |
| | DIA 15!200 (mmHg) | EtCO2 (OPTION) | | Paper Speed: | 25 (mm/s) |
| | Neonatal Mode | Mode of Sampling | Sidestream or Mainstream | Print Data: | 3 waveforms with patient info |
| | SYS 40!135 (mmHg) | Principle of Operation: | Non-dispersive infrared (NDIR) single | | and digital values |
| | DIA 15!100 (mmHg) | | hom-dispersive initiated (NDIR) single | FUSE T 3.0A | |
| Resolution: | 1mmHg | | no moving porto | | |
| Pressure Accuracy: | Maximum Mean error: ±5mmHg | COO Macouromont Daras | 10 110 110 110 µdi lS. | | |
| | Maximum Standard deviation: 8mmHg | 002 measurement Kange: | DTDC (Dedu Terrenerature Dreese and | | |
| Overpressure Protection: | Adult Mode 280(mmHg) | GUZ GAICULATION METHOD: | DIPS (BODY Temperature Pressure | | |
| | Neonatal Mode 150 (mmHg) | | Saturated) | | |
| Alarm Limit: | SYS 50~240 mmHa | CO2 Resolution: | 0.1mmHg (0-69mmHg), | | |
| | DIA 15~180 mmHg | | 0.25mmHg (70-150mmHg) | | |
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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