OMNI Express VS

VERSATILITY IN VITAL SIGNS

INFINIUM
MEDICAL INC.

OMNI Express VS

TOUCHSCREEN
easy and intuitive to use

PORTABLE
weighs less than 6lbs

MOBILE
backup battery powered

The Omni Express VS is a new intuitive approach to patient vital sign measurement. The Omni Express can be configured in the field by the user to measure any combination of: non-invasive blood pressure, SpO2, rapid oral temperature, and capnography (EtCO2).

Weighing in at less than 6 LBS the portable **Omni Express VS** is well suited for any patient care area by offering a multitude of vital sign combinations. The Omni Express VS can be used as a simple Spo2/NIPB monitor for continual bedside measurement or Spo2/NIPB/Rapid temperature for quick vital sign spot checks. EtCO2 can also be added to recreate the Omni Express VS into a bedside or spot check Capnograph.

The Omni Express VS simplifies clinician use by incorporating a touch screen with an easy-to-use software interface. A lithium Ion Battery is also incorporated and a 3 channel recorder can be added. Nellcor Oximax™ SpO2 and Suntech™ blood pressure can also be added as options.

Covidien Filac 2000™

Accurate within >/- 0.3C a
Temperature Reading within 4 seconds

The Covidien Filac 2000™ plug-in thermometer module can be installed into the Omni Express VS anywhere and anytime. This simple plug-in module adds the option of a 4 second oral temperature reading brightly displayed on-screen. The **Filac 2000™** supports infection control by utilizing single use probe covers and a probe isolation chamber when not in use.

Infinium Capnotrack™

Simple connection sample lines allows the **Capnotrack™** to be one of the industries lowest cost per patient End-tidal CO_2 systems.

The Infinium Capnotrack™ capnography module is a field upgradeable plug-in module that allows for maximum versatility of End-tidal CO_2 monitoring. 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.

Mounting Solutions
A RELIABLE CONNECTION

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

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DETAILED SPECIFICATIONS

SAFETY
Meet the requirement of EN60601 series, CE marking according to MDD93/42/EEC

Type of Protection:	Class I (on AC power) , internally powered equipment (on battery power):Per I.E.C. 60601-1, clause 2.2.4
Degree of Protection:	Type BF, defibrillation-proof CF - Applied part
Sterilization or Disinfection methods:	70% isopropyl alcohol solution or a nonstaining disinfectant. Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide
Operation Mode:	Continuous
Protection Against Ingress of Liquids:	IPXO

APPLICATION
Neonatal, pediatric and adult patients

PHYSICAL DIMENSIONS & WEIGHT
Base Unit:	229(W) x 133(D) x 210(H)mm
Weight:	2.5kgs

PERFORMANCE SPECIFICATIONS
Display:	7.0 inch (Diagonal) color TFT
Resolution:	800 × 3(RGB) × 480
Trace:	2 waveforms
Waveforms:	PLETH, ETCO2
Indicator:	Alarm Indicator Power indicator Pulse beep and alarm sound
Trend time:	From 1 to 72 hours
Recorder (option):	Built-in, thermal array, 2 or 3 channels Record width: 48mm Recorder paper: 50mm Record speed: 25mm/s, 50mm/s

NIBP
Measuring Technology:	Automatic oscillating measurement
Cuff Inflating:	<30s (0 ~ 300 mmH, standard adult cuff)
Measuring Period:	AVE<40s
Mode:	Manual, Auto, STAT
Measuring Interval in AUTO Mode:	2 min ~ 4 hrs
Pulse Rate Range:	30 bpm ~ 250 bpm
Measuring Range:	Adult/Pediatric Mode
	SYS: 40 ~ 250 (mmHg)
	DIA: 15 ~ 200 (mmHg)
	Neonatal Mode
	SYS: 40 ~ 135 (mmHg)
	DIA: 15 ~ 100 (mmHg)
Resolution:	1mmHg
Pressure Accuracy:	Maximum Mean error: ±5mmHg
Maximum Standard deviation:	8mmHg
Overpressure Protection:	Adult Mode: 280(mmHg) Neonatal Mode: 150 (mmHg)
Alarm Limit:	SYS: 50 ~ 240 mmHg DIA: 15 ~ 180 mmHg
Standards:	Meets performance standards of ANSI/AAMI SP10:2002

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 Upper-lower Limit:	Upper limit 70 ~ 100%, Lower limit 70 ~ 100%
SpO2 Probe:	Red light LED wavelength: 660nm±5nm Infrared light LED wavelength: 940nm±10nm
Standards:	Meets performance standards of EN ISO 9919:2005

RAPID TEMPERATURE (OPTION)
Temperature Measurement Range:	30°C to 43°C (86°F to 109°F)
Typical Measurement Times: (after insertion into measurement site):	Oral (Quick Mode): 3-5 seconds (non-fever temps), 8-10 seconds (fever temps) Oral (Standard Mode): 6-10 seconds Axillary Mode: 8-12 seconds Rectal Mode: 10-14 seconds Direct Mode (All Sites): 60-120 seconds
Pulse Timer:	60 Second count with a "beep" at 15 seconds, 2 "beeps" at 30 seconds, 1 "beep" at 45 seconds, and 2 "beeps"at 60 seconds
Patient Accuracy:	A Standard Prediction Mode reading and a Direct Mode reading will differ by less than ±0.2°C (±0.4°F) on 98% of tested patients
Batteries:	Four "AA" Required. Standard IEC package size. Alkaline --1.5 Volt Approx. 6000 temperature readings
Standards:	Meets performance standards of EN 12470-3:2000, ASTM E1112:2006

EtCO2 (OPTION)
Mode of Sampling:	Sidestream or Mainstream
Principle of Operation:	Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.
CO2 measurement Range:	0 to 150 mmHg (0 to 19.7%, 0 to 20 kPa)
CO2 Calculation Method:	BTPS (Body Temperature Pressure Saturated)
CO2 Resolution:	0.1mmHg (0-69mmHg), 0.25mmHg (70-150mmHg)
CO2 Accuracy:	0 ~ 40 mmHg ± 2 mmHg 41 ~ 70 mmHg ± 5% of reading 71 ~ 100 mmHg ± 8% of reading 101 ~ 150 mmHg ± 10% of reading Above 80 breath per minute ± 12% of reading
Sampling rate:	100Hz
Respiration Rate:	2 ~ 150 bpm
Respiration Rate accuracy:	±1 breath
Response Time:	<3 seconds - includes transport time and rise time

Inspired CO2 measurement Range:	3 ~ 50 mmHg
Standards:	Meets performance standards of ISO/FDIS 21647:2004 (E), ASTM F1456-01, IEC/CDV 60601-2-55

NETWORKING
Wired Networking:	Industry standard: 802.11b/g wired network Frequency Range: 2.412 ~ 2.484 GHz Connected bedside number: Up to 16 bedside monitors
Wireless Networking:	Up to 100m indoors Industry standard 802.11b/g wireless Supports TCP/IP and UDP/IP Protocols

POWER
Source:	External AC power or internal battery
AC Power:	100 ~ 240VAC, 50/60Hz, 150VA
Battery:	Built-in and lithium Ion rechargeable, 12.6V/5Ah
Charge Time:	8 hours
Operating Time:	3 hours

ENVIRONMENTAL SPECIFICATIONS
Temperature:	Operating: 5 ~ 40 °C Storage: -10 ~ 45 °C
Humidity Range:	Operating: ≤80 % Storage: ≤80 %

FUSE
3.15A/250V

LCD SPECIFICATIONS
Display Type:	TFT color LCD
Size (diagonal):	7.0 inch
Active Area:	152.4 (W) × 91.44 (H) mm
Color arrangement:	RGB-stripe
Dot pitch:	0.0635(W) × 0.1905(H) mm
Display Mode:	Normally white, Transmissive
Interface:	Digital(TTL)
Surface Treatment:	Anti-Glare

TOUCHSCREEN SPECIFICATIONS
Type:	Four-Wire Analog Resistive Touch Panel
Input Mode:	Stylus Pen or Finger
Connector:	FPC
Insulation resistance:	25MΩ
Voltage:	7VDC
Chattering:	10ms
Transparency:	80%
Surface hardness:	3H
Durability-surface scratching:	Write 100,000
Active force:	80gf
Knock Test:	1,000,000 times