

OMNI Express VS

VERSATILITY IN VITAL SIGNS



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/NIBP monitor for continual bedside measurement or SpO₂/NIBP/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.

Field Upgradeable THERMOMETER



Covidien Filac 2000™

Accurate within $\pm 0.3^{\circ}\text{C}$ 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.

Field Upgradeable CAPNOGRAPHY



Infinium Capnotrack™

Simple connection sample lines allows the **Capnotrack™** to be one of the industries lowest cost per patient End-tidal CO₂ systems.

The Infinium Capnotrack™ capnography module is a field upgradeable plug-in module that allows for maximum versatility of End-tidal CO₂ 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

OMNI Express VS

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:	IPX0

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 mmHg, standard adult cuff)

Measuring Period:	AVE<40s
Mode:	Manual, Auto, STAT

Measuring Interval in AUTO Mode:	2 min ~ 4 hrs
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Pulse Rate Range:	30 bpm ~ 250 bpm
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Measuring Range:	Adult/Pediatric Mode SYS: 40 ~ 250 (mmHg) DIA: 15 ~ 200 (mmHg) Neonatal Mode SYS: 40 ~ 135 (mmHg) DIA: 15 ~ 100 (mmHg)
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Resolution:	1mmHg
Pressure Accuracy:	Maximum Mean error: ±5mmHg

Maximum Standard deviation:	8mmHg
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Overpressure Protection:	Adult Mode: 280(mmHg) Neonatal Mode: 150 (mmHg)
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Alarm Limit:	SYS: 50 ~ 240 mmHg DIA: 15 ~ 180 mmHg
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Standards:	Meets performance standards of ANSI/AAMI SP10:2002
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SPO2

ASpO2:	Anti-motion SpO2
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SpO2% Range:	0 ~ 100%
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SpO2 Accuracy:	±2% (70 ~ 100%, non-motion) ±3% (70 ~ 100%, motion)
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Pulse Rate Range:	30-250 bpm
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Pulse Rate Accuracy:	±2 bpm(non-motion), ±3 bpm (motion)
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Alarm Upper-lower Limit:	Upper limit 70 ~ 100%, Lower limit 70 ~ 100%
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SpO2 Probe:	Red light LED wavelength: 660nm±5nm Infrared light LED wavelength: 940nm±10nm
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Standards:	Meets performance standards of EN ISO 9919:2005
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RAPID TEMPERATURE (OPTION)

Temperature Measurement Range:	30°C to 43°C (86°F to 109°F)
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Typical Measurement Times:	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
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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
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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
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Batteries:	Four "AA" Required. Standard IEC package size. Alkaline -1.5 Volt Approx. 6000 temperature readings
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Standards:	Meets performance standards of EN 12470-3:2000, ASTM E1112:2006
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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)
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CO2 Calculation Method:	BTPS (Body Temperature Pressure Saturated)
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CO2 Resolution:	0.1mmHg (0-69mmHg), 0.25mmHg (70-150mmHg)
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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
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Sampling rate:	100Hz
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Respiration Rate:	2 ~ 150 bpm
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Respiration Rate accuracy:	±1 breath
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Response Time:	<3 seconds - includes transport time and rise time
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Inspired CO2 measurement Range:	3 ~ 50 mmHg
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Standards:	Meets performance standards of ISO/FDIS 21647:2004 (E), ASTM F1456-01, IEC/CDV 60601-2-55
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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
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Humidity Range:	Operating: ≤80 % Storage: ≤80 %
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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



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FDA 510K
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