OMNI® EXPRESS

THE COMPREHENSIVE CAPNOGRAPH







OMNI® EXPRESS

PORTABLE

With Battery Backup

Bright Color 7 Inch
TOUCHSCREEN

UPGRADABLE

Blood Pressure, SpO2, and 3-Lead ECG Additions

UPGRADABLE

Printer Option

| State | Stat

The **Omni® Express** is a new cost-effective approach to capnography measurement. The **Omni® Express** can be configured to measure any combination of: capnography (EtCO2), non-invasive blood pressure, SpO2, and ECG.

Weighing in at less than 5 LBS the portable **Omni® Express** is well suited for any patient care area by offering a multitude of vital sign combinations. The **Omni® Express** can be used as a basic capnograph for minor procedures or can offer more by

adding blood pressure, pulse oximetry measurement or even 3-lead ECG. The **Omni® Express** is well suited for both bed side and procedure room use.

OMNI Express

The **Omni**® **Express** simplifies clinician use by incorporating a touch screen with a simple user interface making the **Omni**® **Express** intuitive for any user. A long-life lithium Ion battery is standard and many mobile mounting solutions' are available for the **Omni**® **Express**.

MULTIPLE CARE AREAS

- **N** Minor Procedure
- **N** Dental Sedation
- N Sleep Labs
- **N** Pain Management
- **N** Respiratory Care
- n Post Anesthesia Care

MULTIPLE CONFIGURATIONS

- **N** Capnography
- Capnogrpahy+SpO2
- Capnogrpany+SpO2+BP
- Capnogrpany+SpO2 +BP+ECG
- Rolling Stand Mounted
- Wall or Bedside Mounted

PROVEN TECHNOLOGY

- N Masimo® Spo2
- SunTech® Advantage BP
- n Respironics® LoFLO EtCO2

The Upgradeable

CAPNOGRAPH



The **Omni**® **Express** capnograph provides a cutting edge low flow End-tidal CO2 measuring system. The **Omni**® **Express** uses a 50/ml per minute sidestream method to deliver the most accurate EtCO2 readings. Low cost sample lines allows the **Omni**® **Express** to be the industry's lowest cost per patient Capnograph. The **Omni**® **Express** can be used on both intubated and non-intubated patients. The **Omni**® **Express** sample line connection system uses filter cells to eliminate the potential of cross contamination.

The **Omni**® **Express** Capnograph is beneficial in:



PAIN MANAGEMENT



MINOR PROCEDURE SEDATION

Suppressed respiratory function can be caused by patient-controlled analgesia (PCA). Opiates may suppress the respiration of patient receiving pain management. The use of Capnography to measure End-Tidal CO2 (EtCO2) can quickly alert clinicians to the symptoms of a patient's respiratory depression which can lead to avoidance of coma or cardiac arrest.

The American Society of Anesthesiologists (ASA) States, "During moderate to deep sedation the Adequacy of Ventilation shall be evaluated by continual observation of qualitative clinical signs and monitoring for the presence of exhaled carbon dioxide." End-Tidal CO2 (EtCO2) is the earliest indictor of respiratory complications during medical procedures.



SEDATION DENTISTRY

The American Association of Oral and Maxillofacial Surgeons (AAOMS) states, "During moderate or deep sedation and general anesthesia, the adequacy of ventilation shall be evaluated by the continual observation or qualitative clinical signs and monitoring of exhaled carbon dioxide."

OMNI EXPRESS TECHNICAL SPECIFICATIONS:

PEFORMANCE SPECIFICATIONS

Display: 7" color TFT Resolution: 1024×860 Trace: 2 or 3 waveforms

Waveforms ECG (I, II, III, aVR, aVL, aVF, V1-V6),

 ${\sf PLETH,\,RESP,\,ETCO2}$

Indicator: Alarm indicator
Power indicator

QRS beep and alarm sound Trend time: From 30 minutes to 120 hours

ECG

Input: 5 lead or 3 lead ECG cable and standard

AAMI line for connection Lead Choice: I, II, III, aVR, aVF, aVL, V

Gain Choice: $\times 0.5$, $\times 1.0$, $\times 2.0$

CMRR (common mode

rejection ratio): >100 dB at 50 Hz or 60 Hz

Frequency Characteristic: $0.67{\sim}40~\text{Hz}$ (+3dB attenuation)

ECG Waveforms: 7 channels

Sweep Speed: 12.5, 25 and 50 mm/s

HR Display Range: 30~300bpm

Accuracy: ±1bpm or ±1%, whichever is greater

Alarm Limit Range Upper limit: 80~400bpm

Lower limit: 20~150bpm

RESPIRATION

Measure Method: RA-LL impedance

Range: 0~120 rpm Accuracy: ±3 rpm

Alarm Upper-lower Limit: Upper limit: 6~120 rpm,

Lower limit: 3~120 rpm

Sweep Speed: 12.5 and 25mm/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
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

TEMPERATURE (Included with ECG option only)

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 Upper-lower Limit: Upper limit 0~50 °C

Lower limit 0~50 °C

Channel: 1 channels Alarm Limit: 10~50 (°C)

Masimo SET Pulse Oximetry (standard)

Sp02

Measurement range: 0% to 100%

Resolution: 1%

Accuracy: 70% to 100%, +/-2%, Adult/

Pediatric, Non-motion conditions

70% to 100%, +/-3%, Neonate, Non-

motion conditions

70% to 100%, +/-3%, Adult/

Pediatric/Infant/Neonate, Motion

conditions

70% to 100%, +/-2%, Adult/ Pediatric/Infant/Neonate, Low

perfusion conditions

Averaging time: 2~4 sec, 4~6 sec, 8 sec, 10 sec, 12

sec, 14 sec, 16 sec (user selectable)

Sensitivity settings: Normal, Maximum, APOD

(user selectable)

Pulse Rate

Measurement range: 25 to 240 bpm

Accuracy: +/-3 bpm, Adult/Pediatric/Infant/

Neonate, Non-motion conditions 5 bpm, Adult/Pediatric/Infant/ Neonate, motion conditions

Resolution: 1 bpm

Perfusion Index (PI)

Measurement range: 0.02 - 20%

Any other Sp02 (optional)

EtC02

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 \pm 5% of reading 71~100 mmHg \pm 8% of reading 101~150 mmHg \pm 10% of reading Above 80 breath per minute \pm 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

POWER

Source: External AC power and internal battery

AC Power: 100~240VAC, 50/60Hz, 150VA Battery: Rechargeable Lead-Acid Type: FB 1223 12v-2.3Ah

Operating time under normal condition: 3 hour

Operating time after the first alarm of

low battery: 10 minutes

Manufacturer: Pilot Battery Co.,Ltd.

Charge Time: 4 hours Operating Time: 3+ hour

ENVIRONMENTAL SPECIFICATIONS

Temperature: Operating: 5~40 °C

Storage: -20~60 °C

Humidity Range: Operating: $\leq \! 80 \ \%$

Storage: ≤80 %

RECORDER (OPTION)

Record Width: 48 (mm)
Paper Speed: 25 (mm/s)

Print Data: 3 waveforms with patient info

and digital values

FUSE T 3.0A