

Omni Express®

Infinium Omni Express® 7" Touch Screen Patient Monitor

INTUITIVE

Designed for a fast-paced work environment, the Infinium Omni Express® offers a 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 7-inch HD touch screen to optimize the speed of patient care. Clinicians can make quick screen adjustments, set defaults, alarm limits, and manage hours of detailed patient data.

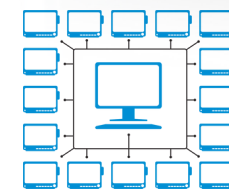
From the general floor to high acuity surgeries, Infinium Omni Express® series patient monitors are designed for flexibility and fit well across many patient care settings.

Vital Sign Parameters:

- NIBP (IBP Optional)
- ECG with arrhythmia detection
- Masimo SET® SpO2
- Temperature and respiratory rate
- Optional EtCO2

Key Features:

- Multi-lead ECG monitoring
- Graphic tabular trending
- Displays 3 waveforms
- 3-hr rechargeable li-ion battery
- Audio visual alarms
- Quick BP readings recall



CONNECTED

The Omni Express® offers Ethernet and RS-232 connections with an open-source communication protocol and 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 64 Omni patient monitors.



Infinium Omni Express® Specifications

PERFORMANCE SPECIFICATIONS

Display: 7" color TFT
 Resolution: 1024x860
 Trace: 2 or 3 waveforms
 Waveforms: ECG (I, II, III, aVR, aVL, aVF, V1-V6), 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, aVL, V
 Gain Choice: x0.5, x1.0, x2.0
 CMRR (common mode rejection ratio): >100 dB at 50 Hz or 60 Hz
 Frequency Characteristic: 0.67-40 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 151200 (mmHg)
 Neonatal Mode
 SYS 401135 (mmHg)
 DIA 151100 (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)

SpO2

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 SpO2 (optional)

EtCO2

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

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: ≤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

Optional Modules & Accessories

EtCO2 / Capnography



Invasive BP



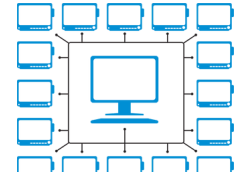
Rolling Stand



Wall Mount



Central Station



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