

# Omni K<sup>®</sup>

## Infinium Omni K<sup>®</sup> 10.5" Touch Screen Patient Monitor

### INTUITIVE

Designed for a fast-paced work environment, the Infinium Omni K<sup>®</sup> 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 K<sup>®</sup> offers a 10.5-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 K<sup>®</sup> series patient monitors are designed for flexibility and fit well across many patient care settings.

#### Vital Sign Parameters:

- NIBP ( Suntech technology available )
- ECG with arrhythmia detection
- SpO2 ( Masimo or Nellcor tech available )
- Temperature and respiratory rate
- Optional Respiration Mainstream or Sidestream 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 K<sup>®</sup> 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.

Masimo SET<sup>™</sup>



# Infinium Omni K<sup>®</sup> Specifications

## PERFORMANCE SPECIFICATIONS

Display: 10.5 inch 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, aVF, 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

043.120.0001 REV3

### EtCO2 / Capnography



### Rolling Stand



### Wall Mount



### Central Station

