

# Omni II®

## Infinium Omni II® Touch Screen Patient Monitor

### INTUITIVE

Designed for a fast-paced work environment, the Infinium Omni II® 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 II® offers a high-resolution 12.1-inch touch screen to optimize the speed of patient care. Clinicians can make quick screen adjustments, set default settings, alarm limits, and manage up to 120 hours of detailed patient data.

### UPGRADABLE

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

#### Vital sign parameters include:

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

The Omni II® can move from a basic vital signs monitor, to a continuous bedside monitor, to an operating room monitor while keeping the patient on a single monitor at all times.



### CONNECTED

The Omni II® 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®



INFINIUM®

Patient Monitoring

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

## PERFORMANCE SPECIFICATIONS

|              |                                                                                 |
|--------------|---------------------------------------------------------------------------------|
| Application: | Adult, Pediatric, & Neonatal                                                    |
| Display:     | Display: 12.1 in color touch screen                                             |
| Trace:       | 3, 6, 8, or 12 waveforms                                                        |
| Indicators:  | Alarm and Power with QRS beep and alarm sound                                   |
| Trend time:  | 120 hours                                                                       |
| Recorder:    | Built-in thermal array, 3 channels<br>Width: 48mm, Paper: 50mm<br>Speed: 25mm/s |
| Networking:  | Industry-standard 802.11 b/g wireless                                           |
| AC Power:    | 100 - 240VAC, 50/60Hz, 150VA                                                    |
| Battery:     | Rechargeable lithium-ion                                                        |

## ENVIRONMENTAL

|              |                                                    |
|--------------|----------------------------------------------------|
| Temperature: | Operating: 0-40 °C, Storage -20-60°C               |
| Humidity:    | Operating: 15-95%, Storage: 10-95% (Noncondensing) |

## STANDARD FEATURES

**Parameters:** ECG ( cascading ), RESP, NIBP ( up to 250 trend readings ), TEMP, Masimo SpO<sub>2</sub>, Pulse, PI.  
**Features:** OxyCRG, Drug Dose Calc, User Settings Memory, Arrhythmia Detection, ST Segment Analysis

## PARAMETERS

### ECG

|                  |                                                                                 |
|------------------|---------------------------------------------------------------------------------|
| Input:           | 3,5, or 12-lead ECG cable & AAMI                                                |
| Lead Choice:     | I,II, III, aVR, aVF, aVL, V <sub>1</sub> ,V <sub>1</sub> -V <sub>6</sub> , TEST |
| Gain Choice:     | x0.5, x1, x2, x4                                                                |
| Frequency:       | .05 - 35Hz(+3dB)                                                                |
| ECG Waveform:    | 12 channels (max)                                                               |
| Penetration Vlt: | 4000VAC 50/60Hz                                                                 |
| Sweep Speed:     | 12.5, 25, and 50 mm/sec ( bi-directional )                                      |
| HR Display:      | 30 - 300bpm                                                                     |
| Accuracy:        | ±1bpm or ±1%, whichever greater                                                 |
| Alarm Limit:     | Upper: 80 - 400bpm, Lower: 12 -150bpm                                           |

### RESPIRATION

|              |                                       |
|--------------|---------------------------------------|
| Method:      | RA-LL Impedance                       |
| Range:       | 0 - 120rpm                            |
| Accuracy:    | ±3rpm                                 |
| Alarm Limit: | Upper: 8-120rpm, Lower: 6-100rpm      |
| Sweep Speed: | 6.25, 12.5, 25mm/sec (bi-directional) |

## NIBP

|                    |                                   |
|--------------------|-----------------------------------|
| Method:            | Auto oscillating measurement      |
| Cuff Inflation:    | <30s (0-300mmHg, standard cuff)   |
| Period:            | AVE <40s                          |
| Modes:             | Manual, Auto, STAT, Average       |
| Interval in Auto:  | 2min - 4hrs                       |
| Pulse Range:       | 30 - 300bpm                       |
| Adult/Pediatric:   | SYS: 40-250mmHg, DIA: 15-200mmHg  |
| Neonatal:          | SYS: 40-135mmHg, DIA: 15-100mmHg  |
| Max Mean Error:    | ±5mmHg                            |
| Max Std Dev:       | 8mmHg                             |
| Resolution:        | 1mmHg                             |
| Over Protection:   | Adult: 297mmHg, Neonatal: 147mmHg |
| Adult Alarm Limit: | SYS: 30-270mmHg, DIA: 10-215mmHg  |
| Neo Alarm Limit:   | SYS: 30-240mmHg, DIA: 10-180mmHg  |

## TEMPERATURE

|               |                                                                                              |
|---------------|----------------------------------------------------------------------------------------------|
| Range:        | 25 - 50 °C                                                                                   |
| Accuracy:     | ±0.2°C at 25-34.9 °C<br>±0.1°C at 35-39.9 °C<br>±0.2°C at 40-44.9 °C<br>±0.3°C at 45-50.0 °C |
| Resolution:   | 0.1°C                                                                                        |
| Alarm Limits: | Upper & Lower: 10-50°C                                                                       |
| Channel:      | 2 channels                                                                                   |

## MASIMO SET SpO<sub>2</sub> ( Standard )

### Ask About Optional SpO<sub>2</sub> Specifications

|                |                                                                |
|----------------|----------------------------------------------------------------|
| Range:         | 1 - 100%                                                       |
| Resolution:    | 1% increments                                                  |
| Accuracy:      | Std Non-motion: 70 - 100% ±2%<br>Neo Non-motion: 70 - 100% ±3% |
| Motion:        | 70 - 100% ±3%                                                  |
| Low Perfusion: | 70 - 100% ±2%                                                  |
| Average Time:  | 2-4, 4-6, 8, 10, 12, 14, 16 sec ( select )                     |
| Sensitivity:   | Normal, Maximum, APOD ( select )                               |

### Masimo Pulse Rate

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| Range:      | 25 - 240 bpm                                                     |
| Accuracy:   | Non-motion: ±3 bpm ( all modes )<br>Motion: ±5 bpm ( all modes ) |
| Resolution: | 1 bpm                                                            |

### Masimo Perfusion Index ( PI )

|        |            |
|--------|------------|
| Range: | .02% - 20% |
|--------|------------|

## IBP (optional)

|                   |                             |
|-------------------|-----------------------------|
| Range:            | -10 - 300mmHg               |
| Channels:         | 2 Channels                  |
| Transducer:       | Sensitivity, 5µ V/V/mmHg    |
| Impedance:        | 300 - 3000 Ω                |
| Transducer Sites: | ART, PA, CVP, RAP, LAP, ICP |
| Unit:             | Selectable mmHg / kPa       |
| Resolution:       | 1mmHg                       |
| Accuracy:         | Greater of ±1mmHg or ±2%    |
| Alarm Range:      | -10 - 300mmHg               |

## EtCO<sub>2</sub> (optional)

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| CO <sub>2</sub> Range: | 0 - 150 mmHg                                                                                            |
| Accuracy:              | 0 - 40mmHg: ±2mmHg<br>41 - 70mmHg: ±5%<br>71 - 100mmHg: ±8%<br>101 - 150mmHg: ±10%<br>Above 80 bpm ±12% |
| Sampling:              | 50ml / minute                                                                                           |
| Initialization:        | 20 sec, ±5% accuracy within 2min                                                                        |
| Respiration:           | 2-150 breaths / minute                                                                                  |

**NOTE:** Based on standard gas temp of 25°C

## Anesthetic Agents (optional)

|            |                                                                                                                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method:    | Infrared absorption                                                                                                                                                                                 |
| Gas Sorts: | Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane, CO <sub>2</sub> , N <sub>2</sub> O, O <sub>2</sub> , Optional Auto Agent ID                                                              |
| Range:     | Halothane: 0 - 8%<br>Enflurane: 0 - 8%<br>Isoflurane: 0 - 8%<br>Sevoflurane: 0 - 10%<br>Desflurane: 0 - 22%<br>CO <sub>2</sub> : 0 - 15%<br>N <sub>2</sub> O: 0 - 100%<br>O <sub>2</sub> : 0 - 100% |

**Accuracy:**  
Under Standard Conditions.

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| All Agents:       | ±(.15 vol% + 5% of reading)<br>does not apply to gas mixtures |
| CO <sub>2</sub> : | ±(.2 vol% + 2% of reading)                                    |
| N <sub>2</sub> O: | ±(2 vol% + 2% of reading)                                     |
| O <sub>2</sub> :  | ±(1 vol% + 2% of reading)                                     |

## Optional Modules & Accessories

### EtCO<sub>2</sub> / Capnography



### Invasive BP



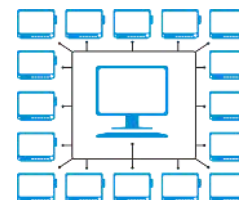
### Rolling Stand



### Wall Mount



### Central Station



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