Omni III®

Infinium Omni III®

Versatility in Patient Monitoring

Masimo SET®

INTUITIVE

Designed for a fast-paced work environment, the Infinium Omni III® 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 III® offers a high-resolution 15-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 72 hours of detailed patient data.

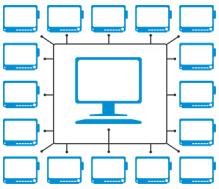
UPGRADABLE

From the general floor to high acuity surgeries, Infinium Omni III® 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
- Optional cardiac output

The Omni III® 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 III® 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® Patient Monitoring

Infinium Omni III® Patient Monitor

Specifications

Application
Neonatal, pediatric and adult patients

Peformance Specifications

Display:	15 inch color touch screen
Trace:	8 waveforms
Indicator:	Alarm indicator Power indicator QRS beep and alarm sound
Trend time:	1 - 72 hour
Recorder:	Built-in, thermal array, 3 channels Record width: 48mm Recorder paper: 50mm Record speed: 25mm/s, 50mm/s

ECG

Input:	5-lead ECG cable and standard AAMI line for connection
Lead Choice:	I, II, III, aVR, aVF, aVL, V, V1-V6, TEST
Gain Choice :	x0.5, x1, x2, x4
Frequency Characteristic:	0.05 ~ 35 HZ (+3dB)
ECG Waveforms:	7 channels
Penetration Voltage:	4000VAC 50/60Hz
Sweep Speed:	12.5, 25, 50 and 100 mm/sec (left to right or right to left)
HR Display Range:	30 ~ 300bpm
Accuracy:	±1bpm or ±1%, whichever is greater
Alarm Limit Range Setting:	upper limit 100 ~ 200bpm, lower limit 30 ~ 100bpm

RESP

Measure Method:	RA-LL impedance
Range:	0 ~ 120 rpm
Accuracy:	±3 rpm
Alarm Limit Setting:	upper limit 6 ~ 120 rpm, lower limit 3 ~ 120 rpm
Sweep Speed:	12.5, 25, 50 and 100 mm/sec (left to right or right to left)

NIBP

Measuring Technology:	automatic oscillating measurement
Cuff Inflating:	<30s (0 ~ 300 mmHg, standard adult cuff)
Measuring Period:	AVE<40s
Mode:	Manual, Auto
Measuring Interval in AUTO Mode:	2 min ~ 4 hrs
Pulse Rate Range:	30 ~ 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)
Accuracy:	
Maximum Mean error:	±5mmHg
Maximum Standard deviation:	8mmHg
Resolution:	1mmHg
Overpressure Protection:	Adult Mode: 300 (mmHg) Neonatal Mode: 160 (mmHg)
Alarm Limit Setting:	SYS: 50 ~ 240 mmHg DIA: 15 ~ 180 mmHg

TEMP

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 Limit Setting:	upper limit 0 ~ 50°C, lower limit 0 ~ 50°C
Channel:	2 channels

Masimo SET Pulse Oximetry (standard)

SpO2

Measurement range:	0% to 100%
Resolution:	1%
Accuracy:	
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)

IBP

Measurement Range:	-50 ~ 300mmHg
Channel:	2 channels
Pressure Transducer:	sensitivity, 5μ V/V/mmHg
Impedance Range:	300 ~ 3000Ω
Transducer Sites:	ART, PA,CVP, RAP, LAP, ICP
Unit:	mmHg/kPa selectable
Resolution:	1mmHg
Accurancy:	±1mmHg or ±2%, whichever is greater
AlarmRange:	-10 ~ 300mmHg

EtCO2

CO_2 Measurement Range:	0 ~ 99mmHg
Accuracy:	±2mmHg (0 ~ 38mmHg) 39-99mmHg ±5% of reading +0.08% for every 1mmHg (above 38mmHg)
Sampling Rate:	50 ml/min
Initialization Time:	30 seconds (typical), reaches ±5% steady-state accuracy within 3 minutes.
Respiration Rate:	0 ~ 150 breaths/min
Mode:	adult, neonate
Measurement Method	Thermodilution Method
Measurement Range	C.O. 0.1 to 20 L/min TB 23 to 43°C TI 0 to 27°C
Resolution	C.O. 0.1 L/min TB, TI 0.1°C
Accuracy	C.O. ±5% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves. TB, TI ±0.1°C°C(without sensor)
Alarm Range	TB 23 to 43°C
Repeatability	C.O. ±2% or ±0.1 L/min, whichever is greater, as measured using electronically generated flow curves.

Anesthetic Agents

Method:	Infrared absorption
Gas Sorts:	Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane, CO_2, N_2O, O_2 (optional Automatic Agent ID)
Measurement Range:	
Halothane, Isoflurane:	0 ~ 8.5%
Enflurane, Sevoflurane:	0 ~ 10%
Desflurane:	0 ~ 20%
CO_2:	0 ~ 10%
N_2O:	0 ~ 100%
O_2:	0 ~ 100%
Bias:	
Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane:	±(0.15 Vol% + 15% rel.)
CO2:	±(0.5 Vol% + 12% rel.)
N2O:	±(2 Vol% + 8% rel.)
O2:	±3 Vol%

Networking
Industry standard 802.11b/g wireless network

Power

Source:	External AC power or internal battery
AC Power:	100 ~ 240VAC, 50/60Hz, 150VA
Battery:	Built-in & rechargeable lithium ion
Operating Time:	3+ hours

Environmental Specifications

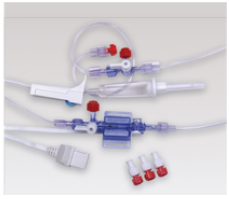
Temperature:	
Operating:	5 ~ 40 °C
Storage:	-10 ~ 45 °C
Humidity range:	
Operating:	≤80 %
Storage:	≤80 %

Other Standard Features
OxyCRG, drug dose calculation, cascading ECG, On screen NIPB trends (up to 250 readings), user set defaults, Arrhythmia detection, ST segment

Optional Modules & Accessories

Cardiac Output

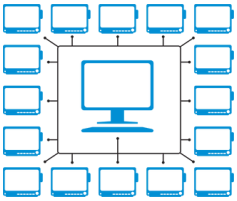
Invasive BP



EtCO2 / Capnography

Mounting Options

Central Station



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