

Aquarius

Vital Sign Monitor

For Out-Patient Department, Spot-check, Transport, Ward and other basic monitoring

Configuration

SpO2 + NIBP, Li-ion battery

Optional

Masimo/Nellcor SpO2, Quick Temp, Bar code scanner, wired/wireless CMS

SpO2+NIBP+ECG+TEMP, Li-ion battery

Masimo/Nellcor SpO2, EtCO2, Quick Temp, Bar code scanner, Thermal Recorder, wired/wireless CMS



Portable Design



Touch Screen (Optional)

Masimo SET® SpO2



Ear Infrared Thermometer



Bar/QR Code Scanner

240	Hours long trend
120	Mins short trend
1000	NIBP measurements
200	Alarm events

Aquarius

Vital Sign Monitor

- 8.4" color TFT LCD Screen (Touch screen optional)
- Portable, Lighter weight and sturdy design
- MEWS (Modified Early Warning Score)
- Calculations: Hemodynamics/Dose calculation
- Rechargeable Li-ion Battery (up to 15 hours uninterrupted work)
- Spot-check and continuous monitoring mode

- Suitable for Adult, Pediatric and Neonatal
- Wired/WiFi/3G/4G CMS, support HL7 protocol to HIS
- Barcode scanner, Infrared ear/Forehead thermometer
- Night mode selectable, reduce light stimulation and noise
- Graphical & tabular trend review (240 hours)
- 48H full disclosure wave review for each patient



Specifications

Physical Specification

Display: 8.4" TFT LCD screen
Resolution: 600 x 800
Number of traces: 3, up to 7 ECG waveforms
Dimension: 175x275x175mm(WxHxD)
Weight: < 2.5 kg under standard configuration
LAN: 1 standard RJ45 port
WLAN: IEEE 802.11b/g/n
USB: 2 USB interface

ECG

Lead type
3-lead: I, II, III
5-lead: I, II, III, aVR, aVL, aVF, V
ECG waveform: 1 channel, 7 channels
Display sensitivity:
2.5mm/mV (x0.25), 5mm/mV (x0.5),
10mm/mV (x1.0), 20mm/mV (x2.0)
Wave sweep speed:
3.125mm/s, 6.25mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s
Bandwidth
Diagnostic mode: 0.05Hz~100Hz
Monitor mode: 0.5Hz~40Hz
Surgery mode: 1Hz~20Hz
Strong filter mode: 5Hz~20Hz
CMRR>100dB
Notch: 50/60Hz notch filter can be set to on or off
Differential input impedance>5MΩ
Electrode polarization voltage range: ±400mV
HR range: 15 - 350 bpm
Baseline recovery time <3s after defibrillation (in monitor and surgery mode)
Calibration signal: 1mV (peak - peak), accuracy ±3%

RESP

Measurement method : Thoracic electrical bioimpedance
Measuring lead: Lead I, II
Wave gain: x0.25, x0.5, x1, x2
Respiratory impedance range: 0.5-50
0 - 150bpm
Baseline impedance: 500-4000Ω
Gain: 10 grades
Scan speed: 3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s

TEMP

Measurement method: Thermistor
Measuring range: 5~50°C (41~122°F)
Resolution: 0.1°C
Measurement accuracy: ±0.1°C

NIBP

Measurement method : Automatic oscillometric method
Operating mode: Manual, automatic, continuous
Measurement unit: mmHg/kPa selectable
Typical measurement time: 20~40s
Measurement type: Systolic, Diastolic, Mean
Measurement range (mmHg)
Range of Systolic pressure: Adult 40-280
Pediatric 40-200
Neonatal 40-135
Range of Diastolic pressure: Adult 10-210
Pediatric 10-150
Neonatal 10-95
Range of Mean pressure: Adult 20-230
Pediatric 20-165
Neonatal 20-105

Measurement accuracy
Maximum average error: ±5mmHg
Maximum standard deviation: 8mmHg
Resolution: 1mmHg
Interval: 1, 2, 3, 4, 5, 10, 15, 30, 60, 90, 120, 180, 240, 480 minutes
Overpressure protection: Software and hardware, double safety protection
Cuff pressure range: 0-300mmHg

Northern SpO2

Measurement range : 0-100%
Parameter monitoring: Perfusion Index(PI) :1-10
Optional Pleth Variability Index(PVI)
Resolution: 1%
Accuracy: ±2% or ±2bpm
Refreshing Rate: 1s

Masimo SET SpO2 (optional)

Measurement range : 0-100%
Resolution: 1%
Accuracy: ±2% (70-100%, Adult/Pediatric, non-motion, low perfusion);
±3% (70-100%, Neonate, non-motion);
±3% (70-100%, motion);
0-69%, unspecified
Refreshing Rate: 1s

Pulse Rate

Range: 30~300 bpm
Resolution: 1bpm
Accuracy: ±2bpm (non-motion)
±5bpm (motion)
Refreshing rate: 1s

Infrared Ear Thermometer(optional)

Display range: 34~42.2°C (93.2~108°F)
Operation ambient temperature range: 10~40°C (50~104°F)
Accuracy for displayed temperature range:
≥35°C (95.9°F) ~≤42.2°C (107.6°F) range ±0.2°C (0.4°F)
<35°C (95.9°F) ~≤34°C (93.2°F) range ±0.3°C (0.5°F)

Masimo IRMA™ Sidestream CO2 (optional)

Warm-up time: Full accuracy within 10 seconds
Sampling flow rate: 50ml/min(+/-10/min)
Accuracy: 0~15% (±0.2% of the reading)
15~25%, unspecified
Measurement Range: 0~25%
Rise time: 200ms, typical at 50ml/min flow rate
Total response time:
within 3 seconds (with 2m Momoline sampling line)
AWRR Range: 0~150bpm

Masimo IRMA™ Mainstream CO2 (optional)

Measurement Range: 0~25%
Warm-up time: Full accuracy within 10 seconds
Accuracy: 0~15% (±0.2% of the reading)
15~25%, unspecified
AWRR Range: 0~150bpm

Recorder(optional)

Built-in Thermal dot array
Horizontal resolution: 16 dots/mm (25 mm/s paper speed)
Vertical resolution: 8 dots/mm
Paper speed: 12.5mm/s, 25 mm/s, 50 mm/s
Number of waveform channels: 3

Operation Environment

Input Power: AC 100-250V, 50/60Hz
Temperature: 5~40°C
Humidity: <85%
Patient Range: Adult, Pediatric, Neonate



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