Aquarius

Vital Sign Monitor

NORTHERN

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

Configuration	Optional
SpO2 + NIBP, Li-ion battery	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

/ WIFI

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 uninterruptable 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: 175×275×175mm(W×H×D)
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 (×0.25), 5mm/mV (×0.5),
10mm/mV (×1.0), 20mm/mV (×2.0)
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: ×0.25, ×0.5, ×1, ×2
Respiratory impedance range: 0.5-5Ω
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:1,2,3,4,5,10,15,30,60,90,120,180,240,480minutes
Overpressure protection: Software and hardware, double safety protection
Cuff pressure range: 0-300mmHg

Northern SpO_2

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 SpO_2 (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)

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

Masimo IRMA™ Sidestream CO_2 (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 CO_2 (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℃
Humidity:	<85%
Patient Range:	Adult, Pediatric, Neonate

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