AquariusVital Sign Monitor



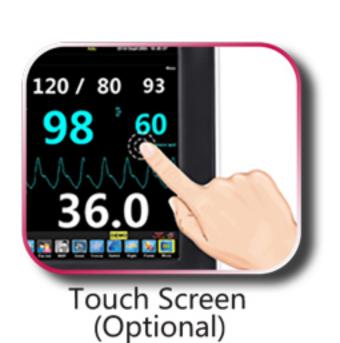
For Out-Patient Department, Spot-check, Transport, Ward and other basic monitoring

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





Quick Temp (Infrared Ear Thermometer)



Portable Design







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

Northern Meditec Limited

AquariusVital Sign Monitor







- 8" color TFT LCD Screen (Touch screen is an optional)
- Portable, Lighter weight and sturdy design
- Flexible parameters configuration for different clinical environments
- Rechargeable Li-ion Battery(up to 12 hours uninterruptable work)
- Big font and color font display setting
- Spot-check and continuous monitoring mode

- Selectable for Adult, Pediatric and Neonatal patients
- Wired/Wireless CMS, support HL7 protocol to HIS
- · Barcode scanner support
- · Thermal recorder support
- Graphical & tabular trend review
- 48h full disclosure wave review for each patient(stroed in SD card)

Specifications

Display

8" color TFT LCD Screen, resolution: 800 x 600

ECG

Lead type

3-lead:I, II, III

5-lead:I, II, III, aVR, aVL, aVF, V

Display sensitivity:

2.5mm/mV (×0.25), 5mm/mV (×0.5), 10mm/mV (×1.0),

20mm/mV (×2.0)

Wave sweep speed: 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>5M Ω

Electrode polarization voltage range: ±400mV

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: $\times 0.25$, $\times 0.5$, $\times 1$, $\times 2$ Respiratory impedance range: $0.5-5\Omega$ Baseline impedance: $500-4000\Omega$

Gain: 10 grades

Scan speed: 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

Recorder(optional)

Built-in, Thermal dot array

Horizontal resolution :16 dots/mm (25 mm/s paper speed)

Vertical resolution:8 dots/mm Paper speed:25 mm/s, 50 mm/s Number of waveform channels:3

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 40-270 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

Neonatal 20-105

20-165

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

Pediatric

Cuff pressure range: 0-280mmHg

Northern SpO₂

Measurement range: 0-100%

Resolution: 1%

Accuracy: ±2% (70-100%, Adult/Pediatric);

±3% (70-100% , Neonate);

0-69%,unspecified

Refreshing Rate: 1s

Masimo SpO₂ (optional)

Measurement range : 0-100%

Resolution: 1%

Accuracy: ±2% (70-100%, Adult/Pediatric, non-motion, low

prefusion);

±3% (70-100% , Neonate, non-motion); ±3% (70-100% , motion);

0-69%,unspecified

Refreshing Rate: 1s

Pulse Rate

Range: 30~254 bpm Resolution: 1bpm

Accuracy: ±2bpm (non-motion)

±5bpm (motion)

Refreshing rate: 1s

Infrared Ear Thermometer(optional)

Displayed range: 34~42.2°C (93.2~108 F°)

Operation ambient temperature range: 10~40°C (50~104°F)

Accuracy for displayed temerature 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)

Phasein 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

Phasein IRMA™ Mainstream CO₂ (optional)

Measurement Range: 0 -25%

Warm-up time: Full accuracy within 10 seconds Accuracy: $0\sim15\%$ ($\pm0.2\%$ of the reading)

15~25%, unspecified

AWRR Range: 0-150bpm

Operation Environment

Power: AC 100-250V, 50/60Hz
Temperature: 5-40°C

Temperature: 5-40°C
Humidity: <85%

Patient Range: Adult, Pediatric, Neonate



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