Aquarius

Vital Sign Monitor

SeaMed®

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

Touch Screen
(Optional)

Quick Temp
(Infrared Ear Thermometer)

Portable Design

/ WIFI

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

Aquarius

Vital 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>5MΩ

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: ×0.25, ×0.5, ×1, ×2

Respiratory impedance range: 0.5-5Ω

Baseline impedance: 500-4000Ω

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
	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: 0-280mmHg

Northern SpO_2

Measurement range : 0-100%

Resolution: 1%

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

±3% (70-100% , Neonate);

0-69%,unspecified

Refreshing Rate: 1s

Masimo SpO_2 (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℃ (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)

Phasein 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

Phasein 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

Operation Environment

Power: AC 100-250V, 50/60Hz

Temperature: 5-40℃

Humidity: <85%

Patient Range: Adult, Pediatric, Neonate

TÜV SÜD

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