

MEDSURGE AQUARIUS VITAL SIGN MONITOR











AQUARIUS

A Compact and Convenient Patient Monitoring System

Aquarius Vital Sign Monitor is a compact, portable and simple to use vital signs monitor with an exciting array of accessories and options. For Out-Patient Department, Spot-check, Transport, Ward and other basic monitoring.









Portable Design



Touch Screen (Optional)

Masimo SET® SpO2



Bar/QR Code Scanner

FEATURES

- Mobility
 - Product dimension:
 - Unit: 173mm Wide x 152 mm Deep
 - Without Trolley: 274mm High
 - With Trolley: High Adjustable
- Quality
 - 8.4" TFT color LCD
 - Optional Touch Screen
 - High resolution 600*800.
 - Up to 6 parameter or 3 wave form display









Performance Specifications

- Usability
 - Built-in rechargeable battery Standard 5 hour uninterrupted working time, can be upgraded to last 15 hours!
 Convenience
 - Multi-selectable user screen options
- Venipuncture mode, Spot check mode
- Sp02 support PVI & Pl, low perfusion 0.2%
- Sp02 pulse-tone modulation (Pitch Tone)
 Making more accurate screening and precise diagnoses
- Wired/Wireless CMS, support HL7
- Graphical & tabular trend review (120 hrs)
- Full disclosure waveforms review & storage
- 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





Optional Accessories

Touch screen, ECG, Quick Temp, Bar code scan, EtC02, Nellcor/Masimo Sp02, Wired/Wirelss CMS, Printer, Plus many more...

- Touch Screen Interface
- SpO2 Sensors: Neonatal, Paediatric & Adult finger clip
- Hard reusable sensor, Soft reusable sensor & SPo2 Extension Cable
- Infrared Tympanic Thermometer Set
- Reusable Cuffs: Neonatal 7-13cm, Infant 12-19cm, Regular 20 26cm Adult - 25 - 35cm, Large Adult - 34 - 33cm
- Height Adjustable Trolley with Basket and Castors

Clinical Applications:

Hemodynamic, Dose, Oxygenation, Ventilation, MEWS, Renal function



Technical Specifications

Physical Specification

Display: 8.4"TFT LCD screen

Resolution: 600 x 800

Number of traces: 3, up to 7 ECG waveforms Dimension: 17542754175mm(W4H4ID) Weight: < 2.5 kg under standard configuration LAN: 1 standard RI45 port

WLAN: I Standard R/45 por 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 (40.25), 5mm/mV (40.5),

10mm/mV (41.0), 20mm/mV (42.0)

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>5M Ω

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 $\pm 3\%$

RESP

Measurement method: Thoracic electrical bioimpedance

Measuring lead: Lead I, II

Wave gain: 40.25, 40.5, 41, 42

Respiratory impedance range: $0.5-5\Omega$

0 - 150bpm

Baseline impedance: $500\text{-}4000\Omega$

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

Infrared Ear Thermometer(optional)

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

Operation ambient temperature range: $10\sim40^{\circ}\text{C}$ ($50\sim104^{\circ}\text{F}$)

Accuracy for displayed temerature range:

 \geq 35°C (95.9°F) ~ \leq 42.2°C (107.6°F) range \pm 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 ™ 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

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

Temperature: 5-40°C Humidity: <85%

Patient Range: Adult, Pediatric, Neonate

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 10-210

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

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Pulse Rate

Range: 30~300 bpm

Resolution: 1bpm Accuracy: ±2bpm (non-motion)

±5bpm (motion)

Refreshing rate: 1s

Masimo IRMA TM 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

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





MUSEUM HILL CENTRE, MUSEUM ROAD P.O. BOX 75534 00200 NAIROBI, KENYA

Tel: 0720 714 337 Email: info@medsurgehealth.co.ke Web: www.medsurgehealth.co.ke

