

VenusCritical Care Patient Monitor



Features

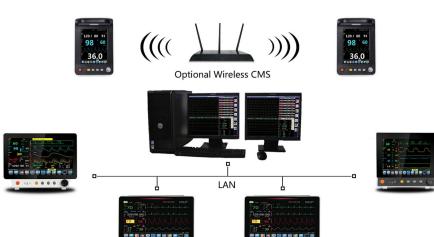
- 15.6" High resulotion TFT LCD Touch screen
- 10 waveform display,up to 12-lead ECG analysis
- Powerful calculation(Hemodynamic,Dose,Oxygenation,Ventilation)
- MEWS(Modified Early Warning Score)
- Pacemaker detection
- ST & arrhythmia analysis(26 types)
- SpO2 support PVI and PI, low perfusion 0.2%
- Night mode, standby mode, venipucture mode

- Trolley/wall mount braket solutions
- Support BIS module, NMT module
- Wired/Wireless/4G connection, support HL7 protocol to HIS
- SpO2 pulse-tone modulation (Pitch Tone)
- VGA/HDMI support external display
- · Graphical & tabular trend review
- · Rechargeable Lithium-ion Battery
- 72 hours full disclosure wave review for each patient

Easy access to view the historical data







Central Monitoring System

Up to 64 beds

Net work is compatible to wired or wireless CMS Auto adaptable to different screen resolution





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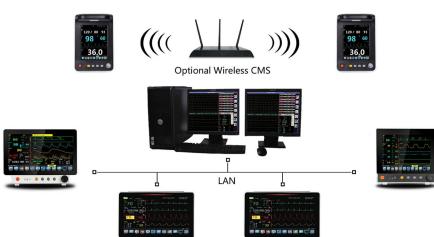
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Specifications

Display

15.6" TFT Touch screen Resolution: 1366 x 768

Number of traces: 10, up to 12 ECG waveforms Dimension: 398×302×183mm(W×H×D)

Weight: < 7 kg under standard configuration

LAN: 1 standard RJ45 port WLAN: IEEE 802.11b/g/n **USB: 2 USB connectors**

HDMI: 1 HDMI monitor connnector

Output:1 connector for Nurse call, Defib Sync Analog Output

Lead type: 3-lead, 5-lead, 12-lead (optional)

ECG waveform:2 channels,7 channels, 12 channels

Display sensitivity(wave gain):

1.25mm/mV(×0.125), 2.5mm/mV (×0.25), 5mm/mV (×0.5), 10mm/mV (×1.0), 20mm/mV (×2.0), 40mm/mV (×4.0),

Auto

Wave sweep speed:

3.125mm/s, 6.25mm/s, 12.5 mm/s, 25 mm/s, 50 mm/s Bandwidth

Diagnostic mode: 0.05Hz~150Hz Monitor mode: 0.5Hz~40Hz Surgery mode: 0.5Hz~25Hz Strong filter mode: 5Hz~25Hz

CMRR>100dB

Notch: 50/60Hz notch filter can be set to on or off

Differential input impedance> $5M\Omega$ 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%

Measurement method: Thoracic electrical bioimpedance

Measuring lead: Lead I, II Wave gain: ×0.25, ×0.5, ×1, ×2 Respiratory impedance range: $0.5-5\Omega$ Respiration range: 0 - 150bpm

Baseline impedance: $500-4000\Omega$ Gain: 10 grades

Scan speed: 3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s

Accuracy: ±0.1°C or ±0.2°F (without probe) Measurement range: 5~50°C (41~122°F)

Channel: Two channels Resolution: 0.1°C

Measurement range: 0-100%

Parameter monitoring: Perfusion Index(PI)

Pleth Variability Index(PVI)

Resolution: 1%

Accuracy: ±2% or ±2bpm

Refreshing Rate: 1s

Pleth wave speed: 3.125mm/s, 6.25mm/s, 12.5 mm/s, 25mm/s

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

Range: 30~300 bpm

Resolution: 1bpm

Accuracy: ±2bpm (non-motion)

±5bpm (motion)

Refreshing rate: 1s

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

40-200 Pediatric Neonatal 40-135

Range of Diastolic pressure: Adult 10-210

Pediatric 10-150 10-95 Neonatal

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

Channel:2-channel or 4-channel

ART: 0 to 300 mmHg PA: -6 to 120 mmHg

CVP/RAP/LAP/ICP: -10 to 40 mmHg

Measurement range: P1/P2 -50 to 300 mmHg

Resolution:1mmHg

Accuracy:

±2% or ±1mmHg, whichever is greater(without sensor)

Sensitivity: 5uV/mmHg/V Impedance range: 300 to 3000 Ω

Method: Thermodilution

Range: C.O.: 0.2 to 20 L/min TB: 23 to 45 °C

T1: -1 to 27°C

Accuracy:C.O.:±5% or ±0.1L/min, whichever is greater

TB,T1: ±0.5°C (without sensor)

Measurement range: 0-19.7%,150mmHg, or 0-20kPa Resolution: 0.1mmHa

Measurement accuracy

0 - 40 mmHg: ± 2 mmHg

41 - 70 mmHg: ± 5% of reading 71 - 100 mmHg: ± 8% of reading

101 - 150 mmHg: ± 10% of reading

Respiration rate: 3-150 bpm

Respiration rate accuracy: 1% ±1bpm

Warm-up time: 97% within 8s, full accuracy within 20s

Measurement rage: 0-20% (0 - 150mmHg)

< 5.0% CO 2: ± 2 mmHg Accuracy:

> 5.0% CO 2: < 6% of reading

Respiration rate: 2 ~ 150 BPM

Respiration rate accuracy: 1% ±1BPM

Warm-up time: 97% within 45s, full accuracy within 10 min Rise times(t10-90%): About 100ms, when flow is 100 ml/min,

adult water trap, 1.5m sampling tube Delay time: <3sec when flow is 100 ml/min, adult water trap,

1.5m sampling tube

Vertical resolution:8 dots/mm

Number of waveform channels: 3

Sampling flow rate: 50ml/min(+/-10/min) Measurement Range: 0 -25%

0~15% (±0.2% of the reading) Accuracy:

Warm-up time: Full accuracy within 10 seconds

15~25%, unspecified

Rise time: 200ms,typical at 50ml/min flow rate

Total response time:

within 3 seconds (with 2 m Momoline sampling line)

AWRR Range: 0-150bpm AWRR Accuracy:±1 breath

Measurement Range: 0 -25%

Accuracy: 0~15% (±0.2% of the reading)

15~25%, unspecified

Warm-up time: Full accuracy within 10 seconds

AWRR Range: 0-150bpm AWRR Accuracy:±1 breath

Gas:CO2,N2O,HAL,ISO,ENF,SEV,DES with automatic

Warm-up time: Full accuracy within 20 seconds for IRMA AX+ CO2 Accuracy: 0-10%:±(0.2%+2% of the reading)

 $0-15\%:\pm(0.3\%+2\%)$ of the reading)

N2O Accuracy: 0-100%:±(2%+2% of the reading) HAL,ISO,ENF: 0-8%:±(0.15%+5% of the reading)

SEV:0-10%: ±(0.15%+5% of the reading) DES:0-22%: ±(0.15%+5% of the reading)

Agent identification time: < 20s(typical < 10s) AWRR range: 0-150bpm

AWRR accuracy: +/-1bpm Apnea time: 20~60s

Parameter Measurement:

BC: 0~30(Only limited to the combined use of an external

sensor with a BIS module)

EMG: 30~55dB(bar chart) with intensity between 30dB and

80dB(tendency chart)

BIS: 0~100

SQI: 0%~100%

SR: 0%~100%

SEF: 0.5Hz~30Hz

TP:40~100Db

EEG Measurement: Input impedance>5M Ω

Noise(RTI)< 2μ V(0.25~50Hz)

Input signal range: ±1Mv

EEG bandwidth between: 0.25Hz~110Hz

Microprocessor-controlled

Stimulation Mode: TOF, TOFS, PTC, 1Hz Twitch, 0.1Hz Twitch ,DBS DBS3.3 and 3.2(Double Burst) , Tetanic

Stimulation (Burst), 5s - 50Hz or 100Hz Output (accuracy±5% of full scale value)

Surface electrodes:

Constant current,0-60mA(0-12/18µC) up to 5KOhm. Monophasic, 200µs or 300µs pulse width

Needle electrodes:

Constant current,0-6mA(0-0.24µC) up to 5KOhm.

Monophasic, 40µs pulse width Acceleration transducer: Accuracy±5% of full scale value Temperature sensor: Range 20.0-41.5°C(accuracy±5°C)

Operation Environment

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

Humidity: <80% Patient Range: Adult, Pediatric, Neonate

Built-in, Thermal dot array Horizontal resolution :16 dots/mm (25 mm/s paper speed)

Paper speed:12.5mm/s, 25 mm/s, 50 mm/s

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