

OSEN8000E 15 inch patient monitor(黑壳)

Features

- 15" Color TFT LCD Screen, optional touch screen, Display Resolution: 1024* 768
- 2 hours wave storage,720 hours Trend review,200 alarm events, 1000 NIBP measurement data review
- Standard interface: Maximum 9-channel waveforms display, the waveform color can be defined by user (7 colors)
- Optional interface: Maximum 14-channel waveforms display, the waveform color can be defined by user (7 colors)
- ST and 13 kinds arrhythmia analysis, pacemaker analysis, drug dose calculation
- Respiration monitoring with apnea alarms, alarm review, arrhythmia review
- Unique human voice alarm, Three Level: Low, medium and high,
Indication: Auditory and visual, All alarms can be silenced, Alarm Volume: The scope is 1~10
- Rechargeable high energy built-in Li battery, AC/DC available, silent fanless design
- Anti - defibrillation design, NIBP over pressure protection
- Central station support Nurse Call by wire/wireless network
- Digital SpO2 with excellent performance
- Support more than 20 kinds languages
- PVI (Pleth Variability Index)
- USB support PDF file export
- The machine includes a spare parts box

Technical Specifications

Quality Standards and Classification: ISO13485,ISO9001,CFDA,FSC

MDD classification: Class II b

Anti-electroshock degree: Class I equipment

(internal power supply)

TEMP/SpO2 /NIBP: BF

ECG/Resp: CF

Application Range

Adult/Pediatric/Neonatal/Medicine/Surgery/

Operating Room/ICU/CCU/Clinic/Ambulance/

Emergency Centers/Bedside Care Ward/Family Care

Environment

Temperature

Working: 0 ~ 40°C

Storage: -20 ~ 50°C

Humidity

Working: 15% - 90%

Storage: 15% - 90% (no coagulation)

Atmospheric pressure

Working: 86.0kPa ~ 106.0kPa

Storage: 86.0kPa ~ 106.0kPa

Power Requirement

External power required

AC: 100V ~ 240V, 50Hz/60Hz

DC: Built-in rechargeable battery

Battery: 14.8V, 2200mAh rechargeable Li-ion battery

2h operating after full charge

5min operating after low battery alarm

Input power: Pmax=90VA

FUSE: T1.5AL 250V

Dimension and Weight

Equipment: 350mm x 155mm x 320mm(about); 4.5kg(about)

Package: 430mm x 315mm x 400mm; 7.7kg(about)

Storage

Trend 720 hours

NIBP review 1000 NIBP events

Wave review 2 hours

Alarm review 200 alarm events

All storage data are non volatile

ECG

5 Leads: RA, LA,LL, RL, V

lead mode: I, I, II, AVR, AVL, AVF, V

3Leads:R,L,F or RA,LA, LL

Lead mode: I, II, II

Gain: 2.5mm/mV, 5.0mm/mV, 10mm/mV,20mm/mV, auto

Sweep speed: 12 .5mm/s, 25mm/s, 50mm/s

Bandwidth

Surgery: 1 ~ 20Hz

Monitor: 0.5 ~ 40Hz

Diagnostic: 0.05 ~ 130Hz

Calibration Signal: 1(mVp-p), Accuracy: 5%

CMRR

Diagnostic Mode: >90dB

Monitor Mode: > 110dB

Surgery Mode: >110dB

Electrode offset potential: ± 300 mV

Leakage Current: <10 μ A

HR Measure Range

Adult: 15 ~ 300 bpm

Neonatal/Pediatric: 15 ~ 350 bpm

Accuracy: $\pm 1\%$

Resolution: 1bpm

Sensitivity: >200 ($\mu\text{Vp-p}$)

Differential Input Impedance: $>5 \text{ M}\Omega$

ST Segment

ST Segment Monitoring Range

Measure and Alarm: $-2.0 \sim +2.0\text{mV}$

Accuracy: $-0.8\text{mV} \sim +0.8\text{mV}$

$\pm 0.02\text{mV}$ or $\pm 10\%$, which is greater

ARR Detecting

Type: ASYSTOLE, VFIBNTAC, COUPLET, BIGEMINY,
TRIGEMINY, R ON T, VT >2 , BRADY, MISSED BEATS,
PNP, PNC, Alarm Available, Review Available

NIBP

Method: Oscillometry

Mode: Manual, Auto, STAT

Measuring Interval in AUTO Mode: 1,2,3, 4,5, 10, 15,
30, 60, 90,120, 180,
240, 480 (Min)

Measuring Period in STAT Mode: 5 Min

Pulse Rate Range: 40 ~ 240bpm

Alarm Type: SYS, DIA, MEAN

Measuring and alarm range:

Adult Mode: SYS 40 ~ 280mmHg

DIA 10 ~ 220mmHg

MEAN 20 ~ 240mmHg

Pediatric Mode: SYS 40 ~ 220mmHg

DIA 10 ~ 160mmHg

MEAN 20 ~ 170mmHg

Neonatal Mode: SYS 40 ~ 135mmHg

DIA 10 ~ 100mmHg

MEAN 20 ~ 110mmHg

Resolution: 1mmHg

Accuracy: Maximum Mean error ± 5 mmHg

Maximum Standard deviation 8mmHg

Overpressure Protection

Adult Mode: 300mmHg

Pediatric Mode: 240mmHg

Neonatal Mode: 150mmHg

Static pressure accuracy: 3mmHg

SpO₂

Measuring Range: 0 ~ 100%

Resolution: 1%

Alarm Range: 0 ~ 100%

Accuracy: 70% ~ 100% $\pm 2\%$

<69% unspecified

Actualization interval about: 1 Sec.

Alarm Delay: 10 Sec

Pulse Rate

Measuring and Alarm Range: 20 ~ 250bpm

Resolution: 1bpm

Accuracy: ± 3 bpm

Perfusion Index

Measure and Alarm Range: 0.02 ~ 20%

Resolution: 0.01%

Respiration

Method: Impedance between R-F(RA-LL)

Measuring Impedance Range: $0.3 \sim 3\Omega$

Base line Impedance Range: $200 \sim 4000\Omega$

Bandwidth: $0.3 \sim 2.5\text{Hz}$

Resp rate: Measurement Range

Adult: $0 \sim 120$ BrP

Neonatal / Pediatric: $0 \sim 150$ BrPM

Resolution: 1 BrPM

Accuracy: $0 \sim 6$ BrPM: unspecified

$7 \sim 150$ BrPM: ± 2 BrPM

Apnea Alarm: $10 \sim 40$ S

Gain 0.25,0.500,1,2,4

Differential Input Impedance: $>2.5\text{M}\Omega$

Inspiriting current: $<300 \mu\text{A}$ RMS max

TEMP

Channel: 2

Measuring and Alarm Range: $0 \sim 50^\circ\text{C}$

Resolution: 0.1°C

Accuracy: $\pm 0.1^\circ\text{C}$ ($0 \sim 50^\circ\text{C}$)

Actualization interval about: 1 Sec

Average Time Constant: <10 Sec

Sensor Type: 10K series, 2.25K series

Standard Accessories Adult

NIBP cuff & Extension tube, ECG cable & electrodes,
SpO2 sensor, TEMP probe, Lithium-ion battery,
Power cable, User manual

Technical Specifications

IBP (optional)

Sensor

Reusable sensors: OHMEDA P23XL or BD, EDWARD compatible

Once usage: OHMEDA DT-4812 or BD, EDWARD compatible

Excitation voltage: +5Vdc \pm 2%

Sensitivity: 5uVN/mmHg

Channels: 2 channels

Measure Range: -50~ 360(mmHg)

Resolution: 1mmHg

Accuracy(no sensor): \pm 2% or \pm 1mmHg, use the greater

Band Width

Normal mode: DC ~ 40Hz

Smooth mode: DC ~ 12.5Hz

Measurable parameter: ART, PA, CVP, LAP, RAP, ICP

CO2(optional)

Measure Range: 0% ~ 13%

Resolution: 1mmHg

Accuracy: 2mmHg @ < 5.0% CO2(at ATPS)

Breath Rate: 3 ~ 150 bpm

Recorder (optional)

Paper width: 50 mm

Paper length: 20 m

Speed: 6. 25/12.5/25/50 mm/s

Wave channel: 3 channels

Gas (optional)

Range

FiCO₂,EtCO₂: 0~ 15%

RR: 0 ~ 0-150BPM

N₂O: 0~ 100

Sevoflurane: 0 ~ 10%

Isoflurane: 0 ~ 8%

Enflurane:0 ~ 8%

Desflurane: 0 ~ 22%

Accuracy

FiCO₂,EtCO₂:±(0.2% + 5% of reading)@(0 ~ 10%)

±(0.2% + 8% of reading)@(0 ~ 10%)

RR : ±1BPM

N₂O :±(2%+3%of reading)

Sevoflurane :± (0.15% + 5% of reading)@(5 ~ 10%)

±(0.3% + 10% of reading)@(5 ~ 10%)

Isoflurane :±(0.15% + 5% of reading)@(0 ~ 5%)

±(0.15% + 10% of reading)@(5 ~ 8%)

Enflurane :±(0.15% + 5% of reading)@(0 ~ 5%)

±(0.3% + 5% of reading)@(5 ~ 8%)

Enflurane :±(0.15% + 5% of reading)@(0 ~ 10%)

±(0.3% + 10% of reading)@(5 ~ 22%)

Standard:3/5-leads ECG、 SpO2、 NIBP、 RESP、 2-Temp、 PR/HR

Optional: WIFI、 AG、 2-IBP、 VGA、 CMS、 EtCO2、 Nurse Call、 Suntech Blood Pressure、 Touch Screen、 Nellcor Spo2、 Wall Mount、 Recorder、 Rolling Stand、 Depth of anesthesia、 Children Accessories、 Newborn Accessories、 Disposable Spo2 Probe