Specification: 8000E



SHENZHEN COMEN MEDICAL INSTRUMENT CO.,LTD

No.2 of FIYATA Timepiece Building, Nanhuan Avenue, Gongming sub-district, Guangming New District, Shenzhen, P.R. China

Tel: +86-755-26408879 Fax: +86-755-26431232 Email: infoatszcomen.com

Web: en.comen.com



Patient Monitor 8000E



Standard Configuration:

3 -lead ECG, RESP, Comen SpO2, NIBP, HR,

Temp(Single Channel)

Optional Configuration:

Dual-IBP, EtCO2, Dual-Temp, Nellcor/Masimo SpO2,

5/12-lead ECG, Thermal Recorder, Suntech NIBP,

Trolley, Wall mount, Ground wire

Safety Standards:

IEC 60601-1 IEC 60601-1-8 IEC 60601-2-27 EN 1060-3 IEC

80601-2-30 IEC60601-2-34 IEC60601-2-49 ISO 80601-2-56 ISO

80601-2-61

Physical Characteristics:

Size: 300mm×278 mm×150mm

Weight: 2.72kg

Screen Size: 12.1" color TFT screen

Resolution 800×600

Waveforms: Up to 9 waveforms

Operation Environment:

Working

Temperature $0^{\sim}40^{\circ}C$ Humidity: $\leq 93\%$

Power Supply 100-240V~, 50/60Hz±1Hz

Battery Type: Rechargeable Lithium-ion battery
Battery Capacity: 2200mAh (Option: 4400mAh)

Battery Recharging

Time: Maximum 3 hours for charging;
Battery backup: 3 hours for continuous working

Brightness: Manual from 10 to 100

Indicator:

Alarm indicator

Power indicator

Battery indicator

QRS beep and alarm sound

Key backlight

Parameter cable interface

AC power input

USB port RJ45 port

Optional: Multi-functional interface

Data storage

Alarm Review: 200 groups

Wave Review: 6 hours (8 waves)

NIBP Review: 2000 groups
Trend Graph: 160 hours
Trend Table: 160hours

Power-off storage: Yes

Alarm: User-adjustable High and Low 3~level

Limits;

Prioritized audible and visual alarm

Network: Connected to Central Monitoring

System by hardwire/wireless

Recorder:

Type: Built-in; thermal array
Channel: 3 channel waveforms
Speed: 25mm/s,50mm/s

Record width 50mm External printer: Yes

Respiration:

Alarm:

Method: RA-LL Impedance Method

RR measurement

range: Adult: 0~120rpm

Pediatric/Neonate:0~150rpm

Accuracy: 7~150rpm: ±2rpm or 2%, whichever is

greater; 0~6rpm: unspecified

Audible and visual alarm; alarm events

Resolution: 1 rpm

RESP Apnea 10s~60s(Adu); 10s~40s (Ped/Neo)

reviewable

Interface:



Sweep Speed: 6.25, 12.5, 25mm/s Neonate Mode 40~135mmHg

Gain Selection: X0.25, X0.5, X1, X2, X4 Range of diastolic

ECG:

CardioTec[™]5-leads ECG Analysis, Lead Type:

12-Lead and 3-leads selectable

Lead selection 12-Lead I; II; III; aVR; aVL; aVF; V1~V6.

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

3-lead: I; II; III

Gain Selection 1.25mm/mV, 2.5mm/mV,

5.0mm/mV, 10mm/mV, 20mm/mV.

40mm/mV, Auto.

Manual replacement.

Plus ±750mV DC polarization voltage; sensitivity change range:

 $\pm 5\%$.

Sweep Speed: 6.25, 12.5, 25, 50mm/s Heart Rate Range: Adult: 15~300bpm

Pediatric/Neonate:15~350bpm

Resolution: 1 bpm

Accuracy: ±1% or ±1bpm (Whichever is greater)

Protection: Withstand 4000VAC/50Hz voltage in

isolation;

Against electrosurgical interference

and defibrillation;

MON Mode: 0.5 Hz~40 Hz Bandwidth:

DIA Mode: 0.05Hz~150 Hz

OPE Mode:1 Hz~20 Hz

ST Mode:0.05Hz~40Hz

-2.0mV~ +2.0 mV (Automatic) ST detection:

Resolution: 0.01mV

Accuracy: -0.8mV $\sim +0.8$ mV: ± 0.02 mV or $\pm 10\%$;

Others: Unspecified

Arrhythmia

analysis: 26 Types

pacemaker

detection: Detectable

NIBP:

Method **Automatic Oscillometric**

Work mode: Manual / Automatic/Continuous

Measurement time:

Adjustable(1~480min)

measurement time: Adu/Ped: 120s; Neo: 85s

Measurement

Maximum

types: Systolic, Diastolic, Mean

Range of systolic

pressure: Adult Mode:40~300mmHg

Pediatric Mode:40~200mmHg

pressure: Adult Mode:10~215mmHg

Pediatric Mode:10~150mmHg

Neonate Mode 10~100mmHg

Range of mean

pressure: Adult Mode: 20~235 mmHg

Pediatric Mode:20~165mmHg

Neonate Mode 20~110mmHg

Over-pressure

protection: Both hardware and software

over pressure protection

Accuracy: ±3mmHg Resolution:

1mmHg

Alarm: Systolic, Diastolic, Mean

40~240bpm Resolution: 1bpm

±3% or ±3bpm, whichever is greater Accuracy:

Nellcor SpO₂:

PR from NIBP:

Measurement

range 0~100%

Resolution: 1%

Accuracy: ±2% (70~100%, Adu/Ped, non~motion)

±3% (70~100%, Neo, non~motion)

1~69% unspecified

0~100% Alarm range:

PR Measurement

20~300bpm Range:

Resolution: 1bpm

±3bpm (20~250bpm); Accuracy:

Unspecified (251~300bpm)

0~300bpm Alarm Range:

Masimo SpO₂:

Measurement &

alarm range 1~100%

Resolution: 1%

±2% (70~100%, Adu/Ped, non-motion) Accuracy:

±3% (70~100%, Neo, non-motion)

1~69% unspecified

PR Measurement

Accuracy:

Range: 25~240bpm

Resolution 1bpm

±3bpm(non-motion)

±5bpm(motion)

Alarm Range: 0~300bpm PI value:

0.02~20% Resolution: 0.01% (0.02%~9.99%)



0.1% (10.0%~20.0%)

Accuracy: unspecified

Comen SpO₂:

Measurement

& alarm range 0~100% Resolution: 1%

Accuracy: ±2% (70~100%, Adu/Ped, non-motion)

±3% (70~100%, Neo, non-motion)

Unspecified (0~69%)

PR measure

Range: 20~300bpm

Resolution: 1bpm

Accuracy: ±1bpm

Alarm Range: 0~300bpm

PI value: 0.05~20%

Resolution: 0.01% (0.05%~9.99%)

0.1% (10.0%~20.0%)

Accuracy: unspecified Temperature (Dual Channel)

Measurement &

alarm range: 0~50°C

Sensor: Skin/rectal TEMP sensor

Resolution: 0.1°C

Accuracy: ±0.1°C (exclusive of error of sensor)
Channel: T1, T2, TD (Temperature Difference)

Respironics EtCO₂ (Sidestream)

Measurement &

alarm range: 0 ~150 mmHg, 0~20kPa (at 760mmHg)

Accuracy: ±2 mmHg (0~40 mmHg)

±5% of reading (41~70 mmHg) ±8% of reading (71~100 mmHg) ±10% of reading (101~150 mmHg)

awRR range: 2~150rpm awRR accuracy: ±1rpm

Response time: <240msec (10%~90%)

Delay time: <2s

Respironics EtCO₂(mainstream)

Measurement &

alarm range: 0~150 mm Hg, 0~20kPa (at 760mmHg)

Accuracy: ±2mmHg (0~40 mmHg)

±5% of reading (41~70 mmHg) ±8% of reading (71~100 mmHg) ±10% of reading (101~150 mmHg)

awRR range: 0~150rpm awRR accuracy: ±1rpm

Response time: <240msec (10% to 90%)

Delay time: <2s

Masimo EtCO₂ (Sidestream)

Measurement &

alarm range: 0 ~190 mm Hg, 0 – 25% (at 760mmHg)

Accuracy: Standard environment $22 \pm$

5 °C ,1013 ±

40hpa):

 $0 \sim 15\%$: $\pm (0.2\% + \text{reading} \times 2\%)$

15~25%: not defined

All environment:

awRR range 0~150rpm awRR accuracy ±1rpm

Response time: <240msec (10% to 90%)

Delay time: <2s

Masimo EtCO₂ (mainstream)

Measurement &

alarm range: 0 ~190 mm Hg, 0~25% (at 760mmHg) Accuracy: Standard environment 22 $\pm 5^{\circ}$ C,1013

 \pm 40hpa):

0~15%: ±(0.2%+reading×2%)

15~25%: not defined

All environment:

 \pm (0.3kPa+reading×4%)

awRR range 0~150rpm awRR accuracy ±1rpm

Response time: <240msec (10% to 90%)

Delay time: <2s

IBP

Channel: 2 Channels

Measured Pressure: ART, PA, CVP, RAP, LAP, ICP, LV, AO,

UAP, BAP, FAP, UVP, IAP, P1, P2,

Measurement Unit: mmHg/ kPa selectable
Measurement ART: 0~300mmHg
Range: PA: -6~120 mmHg

CVP: -10~40mmHg RAP: -10~40mmHg LAP: -10~40mmHg ICP: -10~40mmHg LV: 0~300mmHg AO: 0~300mmHg UAP: 0~300mmHg

BAP: 0~300mmHg FAP: 0~300mmHg



UVP: -10~ 40mmHg PR from IBP: 20bpm~350bpm

IAP: -10~40mmHg Resolution: 1bpm

P1, P2: -50~300mmHg Accuracy: ±1% or ±1bpm, whichever is greater

Accuracy: ±2% or ±1mmHg, whichever is greater Alarm Range: 20bpm~350bpm

0.1kPa or 1mmHg

Resolution:

(-50mmHg~300mmHg) *Notice: Specifications subject to changes without

Alarm Range: -50mmHg~300mmHg prior notice. All rights reserved by Comen