

Specification: 8000E



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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 0~40°C
Humidity: ≤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

Interface:

Parameter cable interface
AC power input
USB port
RJ45 port
Multi-functional interface

Optional:

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:

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
Resolution: 1 rpm
RESP Apnea 10s~60s(Adu); 10s~40s (Ped/Neo)
Alarm: Audible and visual alarm; alarm events reviewable

Sweep Speed:	6.25, 12.5, 25mm/s	Neonate Mode	40~135mmHg
Gain Selection:	X0.25, X0.5, X1, X2, X4	Range of diastolic pressure:	Adult Mode:10~215mmHg
ECG:			Pediatric Mode:10~150mmHg
Lead Type:	CardioTec™5-leads ECG Analysis, 12-Lead and 3-leads selectable		Neonate Mode 10~100mmHg
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	Range of mean pressure:	Adult Mode:20~235mmHg
Gain Selection	1.25mm/mV, 2.5mm/mV, 5.0mm/mV, 10mm/mV, 20mm/mV, 40mm/mV, Auto. Manual replacement. Plus $\pm 750\text{mV}$ DC polarization voltage; sensitivity change range: $\pm 5\%$.		Pediatric Mode:20~165mmHg
Sweep Speed:	6.25, 12.5, 25, 50mm/s	Over-pressure protection:	Neonate Mode 20~110mmHg
Heart Rate Range:	Adult: 15~300bpm Pediatric/Neonate:15~350bpm	Accuracy:	Both hardware and software over pressure protection
Resolution:	1 bpm	Resolution:	$\pm 3\text{mmHg}$
Accuracy:	$\pm 1\%$ or $\pm 1\text{bpm}$ (Whichever is greater)	Alarm:	1mmHg
Protection:	Withstand 4000VAC/50Hz voltage in isolation; Against electrosurgical interference and defibrillation;	PR from NIBP:	Systolic, Diastolic, Mean
Bandwidth:	MON Mode:0.5 Hz~40 Hz DIA Mode: 0.05Hz~150 Hz OPE Mode:1 Hz~20 Hz ST Mode:0.05Hz~40Hz	Resolution:	40~240bpm
ST detection:	-2.0mV~ +2.0 mV (Automatic)	Accuracy:	1bpm
Resolution:	0.01mV		$\pm 3\%$ or $\pm 3\text{bpm}$, whichever is greater
Accuracy:	-0.8mV ~ +0.8mV: $\pm 0.02\text{mV}$ or $\pm 10\%$; Others: Unspecified	Nellcor SpO₂:	
Arrhythmia analysis:	26 Types	Measurement range	0~100%
pacemaker detection:	Detectable	Resolution:	1%
NIBP:		Accuracy:	$\pm 2\%$ (70~100%, Adu/Ped, non~motion) $\pm 3\%$ (70~100%, Neo, non~motion) 1~69% unspecified
Method	Automatic Oscillometric	Alarm range:	0~100%
Work mode:	Manual / Automatic/Continuous	PR Measurement	
Measurement time:	Adjustable(1~480min)	Range:	20~300bpm
Maximum measurement time:	Adu/Ped: 120s; Neo: 85s	Resolution:	1bpm
Measurement types:	Systolic, Diastolic, Mean	Accuracy:	$\pm 3\text{bpm}$ (20~250bpm); Unspecified (251~300bpm)
Range of systolic pressure:	Adult Mode:40~300mmHg Pediatric Mode:40~200mmHg	Alarm Range:	0~300bpm
		Masimo SpO₂:	
		Measurement & alarm range	1~100%
		Resolution:	1%
		Accuracy:	$\pm 2\%$ (70~100%, Adu/Ped, non-motion) $\pm 3\%$ (70~100%, Neo, non-motion) 1~69% unspecified
		PR Measurement	
		Range:	25~240bpm
		Resolution	1bpm
		Accuracy:	$\pm 3\text{bpm}$ (non-motion) $\pm 5\text{bpm}$ (motion)
		Alarm Range:	0~300bpm
		PI value:	0.02~20%
		Resolution:	0.01% (0.02%~9.99%)

Accuracy:	0.1% (10.0%~20.0%)
Comen SpO₂:	unspecified
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 ± 5 °C ,1013 ± 40hpa): 0~15%: ±(0.2%+reading×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 ± 5°C,1013 ± 40hpa): 0~15%: ±(0.2%+reading×2%) 15~25%: not defined All environment: ± (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 Range:	ART: 0~300mmHg 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
Resolution:	0.1kPa or 1mmHg		
	(-50mmHg~300mmHg)		
Alarm Range:	-50mmHg~300mmHg		

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