Specifications: S5



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Defibrillator/ Monitor

S5

Standard Configuration:

Manual defibrillation, AED, Pacer, 3/5-lead ECG, RESP, Thermal Recorder

Optional:

NIBP, PR, SpO₂, EtCO₂(Specific parameters refer to CO₂

module parameter table)

Physical Characteristics

Size:	295mm×252mm×316mm	
Weight	5.6kg (Including 1	
	battery);5.384(Main unit)	
Screen Size:	7" TFT screen	
Resolution	800 × 480	Duighta e e e
Waveforms:	Max 4 waveforms	Brightness:

Operation Environment

0~ 45 °C
0~45 ℃
10% \sim 95%, non-condensation
700hPa~1060hPa
IP44
100-240V~, 50/60Hz±3Hz
Rechargeable Lithium-ion battery
7500mAh, d.c.14.8V
5000mAh, d.c.14.8V
1
7500mAh Battery: Less than 2
hours to 80% and less than 3 hours
to 100% with equipment power off
5000mAh Battery: Less than 1.5
hours to 80% and less than 2.5
hours to 100% with equipment
power off
7500mAh Battery:
Monitoring Mode: no less than 6
hours
Defib Mode: 210 times (360J
charge at intervals of 1minute



Pacing Mode: 4.5 hours (Load:50
Ω , frequency: 80bpm, current:
60mA, without recording)
5000mAh Battery:
Monitoring Mode: no less than 4
hours
Defib Mode: 120times (360J charge
at intervals of 1minute without
recording);
Pacing Mode: 3hours (Load:50 Ω ,
frequency: 80bpm, current: 60mA,
without recording)
Manual from X to 100, X refers to
the darkest brightness (X is 10 by
default)
Two alarm indicators
Power indicator
Battery indicator
Maintain indicator

Interfacing

Indicator

USB interface RJ45 interface AC power input Multi-functional connector

QRS beep and alarm sound

Operating key sound

Date storage

Alarm Event: Patient profiles: Patient Events: Wave Review: NIBP Review: Trend Graph: Trend Table: Voice recording: 200 groups 100 groups 1000 groups 16.6 hours 2000 groups 160 hours 160 hours Max 240 min in total;



Marked events Power-off storage: Alarm:

Network:

Recorder

Type: Channel: Real-time recording: Speed:

Record width: **Resolution:**

Background grid: External printer:

Defibrillation

Operating mode:	Manual Mode, AED Mode, ,
	Synchronous Defibrillation
Waveform:	Biphasic truncated exponentia
	waveform, with impedance
	compensation
Defibrillation pathway:	External defibrillation
Electrode type:	External defibrillation paddles
	multifunctional electrode
External defibrillation	Supports charging, discharging
electrode paddles:	energy selection; Charging
	completion indicator
Charge Time:	Less than 3 seconds to 200 Jou
(Battery power)	with a new, fully charged batt
	Less than7 seconds to 360 Jou
	with a new, fully charged batt
Charge Time:	Less than4 seconds to 200 Jou
(AC power)	Less than 8 seconds to 360 Jou
Energy accuracy:	±1.5J or ±10% of setting, whic
	is greater, while 50 Ω impeda
	±2J or 15% of setting, whichev
	greater, while 25 Ω , 75 Ω , 100
	125 Ω , 150 Ω , 175 Ω impeda
Patient Impedance	20~300 Ω (External defibrillati
Range:	

Available Yes User-adjustable High and Low 3level Limits; Prioritized audible and visual alarm **Connected to Central Monitoring** System by hardwire/wireless

(Up to 60 min for each patient)

Built-in; Thermal array Max 3 channel waveforms 3s, 5s, 8s, 16s, 32s, Continual 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s 50mm 8dot/mm (Horizontal and vertical)

Configurable Not supported

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Defibrillation proof:

Manual Mode External defibrillators:

Synchronous

Cardioversion:

Type CF: ECG, RESP, SpO₂, NIBP, PR; Type BF: EtCO₂

1J~360J, 25 types (1/2/3/4/5/6/7/8/9/10/15/20/30/5 0/70/100/120/150/170/200/220/2 50/270/300/360J) Energy transfer begins within 60ms of the R wave from internal Sync signal Energy transfer begins within 25ms of the External Sync signal

AED

Output Energy: Number of electric shocks Types can be AED: AED maximum time required for cardiac rhythm analysis to be ready for discharge: **Noninvasive Pacing**

Waveform: Pulse Width: Accuracy: Pacing Mode: Pacing frequency: Accuracy:

Pacing output: Accuracy: Speed-down pacing:

ECG (leads)

Lead Type: Lead selection:

Multi-lead synchronization analysis: ECG wave gain:

Adjustable: once, twice, 3 times VF & VT

Battery power supply: 18s AC power supply: 21s

Adujustable:100-360J

Monophasic square wave pulse 20ms or 40ms ±5% On-demand or fixed 30 ppm to 210 ppm ±1ppm or ±1.5% (whichever is greater) 0 mA to 200 mA ±5% or ±5mA, whichever is greater Pacing pulse frequency reduced to 25% of original value.

3 leads ECG, 5 leads ECG, AUTO 5-lead: I; II; III; aVR; aVL; aVF; V 3-lead: I; II; III

Available

Auto, 1.25 mm/mV (×0.125), 2.5 mm/mV (×0.25), 5 mm/mV (×0.5), 10 mm/mV (×1), 20 mm/mV (×2), 40 mm/mV (×4), Less than ±5%

Accuracy:



Sweep speed:	6.25 mm/s, 12.5 mm/s, 25 mm/s,	ST analysis review	20 groups
Sweep speed.	50 mm/s	System noise:	Less than 25µV
Accuracy:	Less than ±10%	Calibration voltage	1 mV; Accuracy: ±5%
Heart Rate:	Adult: 15~300bpm	Arrhythmia Analysis:	26 Types
Healt Nate.	Pediatric:15~350bpm	Pacemaker detection:	Detectable
			Detectable
	Accuracy: ± 1 bpm or ± 1 %	ECG (paddle)	Single lead ECC
	1%(whichever is greater)	Lead Type:	Single lead ECG
Alarm limit range	Adult:	Heart Rate	Adult: 15~300bpm
	High limit: (low limit+2bpm) ~	measurement & alarm	Pediatric:15~350bpm
	300bpm	range:	
	Low limit: 15bpm~ (high limit-	Resolution:	1 bpm
	2bpm)	Accuracy:	±1% or ±1bpm (whichever is
	Pediatric:		greater)
	High limit:(low limit+2bpm) ~	Bandwidth:	Defib: 1~20Hz (-3dB~+0.4dB)
	350bpm	CMRR:	Defib: >105dB
	Low limit: 15bpm~(high limit-	Input Impedance:	≥5MΩ
	2bpm)	Input signal range:	±8mV
Resolution:	1 bpm	HR trigger value	200μV
Accuracy:	±1bpm	Arrhythmia Analysis:	5 Types, ASY, VF, VT, PNC, and PNP
Bandwidth:	Monitoring: 0.5~40Hz (-	Respiration	
	3.0dB~+0.4dB)	Method:	Thoracic Impedance Method
	Diagnosis: 0.05~150Hz (-	RR measurement	Adult: 0~120bpm
	3.0dB~+0.4dB)	range:	Pediatric: 0 ~150bpm
	Surgery: 1~20Hz (-3.0dB~+0.4dB)	Accuracy:	7~150bpm: ±2bpm or ±2%
	ST: 0.05~40Hz(-3.0dB~+0.4dB)		(whichever is greater)
CMRR:	Monitoring: >105dB		0~6bpm: unspecified
	Diagnosis: >90dB	Apnea Alarm:	Adult: 10s~60s Ped: 10s~40s
	Surgery: \geq 105dB	Accuracy:	±5s
	ST: >105dB	Alarm:	Audible and visual alarm; alarm
Input Impedance:	≥5MΩ		events reviewable
Input signal range:	±8mV	COMEN NIBP	
HR trigger threshold	200μV	Method	Automatic oscillometric
Lead off detection	Measuring electrode: <0.1µV	Work mode:	Manual / Automatic/Continuous
current:	Driving electrode: <1µV	Interval Time:	Adjustable
Pacemaker pulse	Manual selection when the		1/2/2.5/3/4/5/10/15/30/60/90/12
suppression switch:	pacemaker is turned on		0/180/240/480/720 min
Analog output:	Magnification: 1:1000;		Continuous: 5min
	Accuracy: ±5%	Maximum	Adu/Ped: 120s
	Bandwidth: 0.5Hz \sim 40Hz	measurement cycle	
	Delay: ≤35ms	Measurement Unit:	mmHg / kPa selectable
ST Detection:	-2.0mV~+2.0mV (-	Pressure types:	Systolic, Diastolic, Mean
	20.0mm~+20.0mm)	Range of systolic	Adult Mode: 5.3~36kPa
Resolution:	, 0.01mV	pressure:	(40~270mmHg)
Accuracy:	-0.8mV ~ +0.8mV: ±0.02mV or		Pediatric Mode: 5.3~26.7kPa
	±10%;		(40~200mmHg)
	Others: Unspecified		



Range of diastolic pressure:

Range of mean pressure:

Over pressure protection:

Accuracy:

Alarm limit: PR from NIBP: Resolution: Accuracy:

SunTech NIBP

Regulatory compliance: Initial inflation range:

Maximum measurement cycle: Over pressure protection: Static pressure measurement range: Resolution: Range of systolic pressure:

Range of diastolic pressure:

Range of mean pressure:

PR from NIBP

Adult Mode:1.3~28.7kPa (10~215mmHg) Pediatric Mode: 1.3~20kPa (10~150mmHg) Adult Mode: 2.7~31.3kPa (20~235mmHg) Pediatric Mode: 2.7~22kPa (20~165mmHg) Adult: 39.6kPa (297mmHg) Pediatric: 32kPa (240mmHg) Tolerance: ± 0.4 kPa (± 3 mmHg) $\pm \pm 0.667$ kPa (± 5 mmHg), if exceeds the above range, the monitor can still display normally, but the accuracy is not considered

Same as the range of measurement 40~240bpm 1bpm ±3% or ±3bpm, whichever is greater

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Adult: 16~37.3kPa (120~280mmHg) Pediatric: 10.7~22.7kPa (80~170mmHg) Adult: 130s Pediatric: 90s Adult/Pediatric: 40.0kPa (300mmHg) 0kPa~40.0kPa (0mmHg~300mmHg)

±0.4kPa (±3mmHg) Adult: 5.3~34.7kPa (40~260mmHg) Pediatric: 5.3~21.3kPa (40~160mmHg) Adult: 2.7~26.7kPa (20~200mmHg) Pediatric: 2.7~16kPa (20~120mmHg) Adult:3.5~29.3kPa (26~220mmHg) Pediatric: 3.5~17.7kPa (26~133mmHg) 30~220bpm Measurement range: Resolution: Accuracy: Alarm range: PR Measurement Range: Resolution: Accuracy: Alarm range:

Accuracy:

Nellcor SpO₂

MASIMO SpO₂

Measurement & alarm range Resolution: Accuracy:

Alarm range PR Measurement Range Resolution: Accuracy: Alarm range: PI value:

Resolution:

SIQ: COMEN SpO₂

Measurement & alarm range: Resolution: Accuracy:

PR Measurement Range: Resolution: Accuracy: 0~100% 1% ±2% (70~100%, Adu/Ped, nonmotion) 1~69% unspecified 20~100%

±2% or ±3bpm, whichever is

greater

20~300bpm 1bpm ±3bpm (20~250bpm) Unspecified (251~300bpm) 20~350bpm

1~100% 1% ±2% (70~100%, Ped/Adu, nonmotion) ±3% (70~100%, motion); 1~69% unspecified 1~100%

25~240bpm 1bpm ±3bpm (non-motion) ±5bpm (motion); 20~350bpm 0.02~20% 0.01% (0.02~9.99%) 0.1% (10~20%) Available

0~100%

1% ±2% (70~100%, Ped/Adu, nonmotion) 0~69% unspecified

20~254bpm 1bpm ±2bpm



Alarm range:	20~250hnm		± 5% of reading (41 – 70mmHg)
Pl value:	20~350bpm		
	0.05~20%		± 8% of reading (71 –100mmHg)
Resolution:	0.01% (0.05%~9.99%)		\pm 10% of reading (101~150mmHg)
	0.1% (10.0%~20.0%)		(In 25 $^\circ\!\!\!\mathrm{C}$, if RR $>$ 80rpm, accuracy is
Accuracy:	unspecified		12% of reading)
SIQ:	Available		CapnoTrak:
MASIMO EtCO ₂ (Sidestream)			\pm 2mmHg (0~38mmHg)
Measurement range:	0~190mmHg, 0~25vol%		\pm 10% of reading (38~99mmHg)
	(at 760mmHg)		RR influence to EtCO ₂
Accuracy:	Standard environment 22 \pm 5 $^\circ \!\! ^\circ \!\! ^\circ$,		(0~99mmHg):
	1013 \pm 40kPa:		-2~0.5mmHg (0-40bpm)
	a) 0~114mmHg:		(-6% of reading)~0.5mmHg (41-
	\pm (1.52mmHg+reading $ imes$ 2%)		70bpm)
	b) 114~190mmHg: not defined		(-14% of reading)~0.5mmHg
	All environment:		(71~100bpm)
	a) 0~114mmHg:	Resolution:	1mmHg
	\pm (2.25mmHg+reading $ imes$ 4%)		Loflow: 2~150rpm
	b) 114~190mmHg: not defined	awRR range	CapnoTrak: 0, 2~100rpm
Resolution:	1mmHg or 0.1% or 0.1kPa	awRR accuracy:	±1rpm
awRR range:	0~150rpm		
awRR accuracy:	±1rpm		
Response time:	<3 s		

Respironics EtCO₂ (Sidestream)

Measurement range:	Loflow:
	0~150mmHg, 0~19.7%, (0~20kPa)
	(at 760mmHg)
	CapnoTrak:
	0~99mmHg, 0~13.03%, 0~13.2kPa
	(at 760mmHg)
Accuracy:	Loflow:
	± 2mmHg (0~40mmHg)

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