A Product Specifications

Safety specifications (classified according to IEC60601-1)	
Type of protection against electrical shock	II (Internally powered equipment)
Degree of protection against electric shock	Type BF – Applied part (defibrillation proof)
Degree of protection against hazards of explosion	Ordinary equipment, not protected
Degree of protection against ingress of liquid	IPX2
Equipment type	Handheld
Mode of operation	Continuous

Physical specifications	
Width × Height × Depth	56×124×30 mm
Max. weight	< 300g (full configuration, including the batteries)

Environmental specifications	Operating conditions	Storage conditions
Temperature (ºC)	0 to 40	-20 to 60
Relative humidity (non-condensing)	15% to 95%	10% to 95%
Atmospheric pressure (mmHg)	425 to 809	120 to 809
Maximum recommended ambient temperature：	35 °C for battery charging and 45 °C for battery discharging	

Charger stand	
Input voltage	100 to 240 VAC, 50/60 Hz
Output voltage	5 VDC
Output current	1.2 A
Output power	6 W

Alkaline batteries	
Quantity	3
Specification	1.5 V, AA
Capacity	2000 mAh
Run time	36 hours with SpO_2 monitored continuously, audio indicators off and backlight brightness set to minimum using new, full power batteries at ambient temperature 25℃.
Shutdown delay	Min. 5 minutes after the low battery alarm first occurs.

Lithium ion battery(LI11S001A)	
Quantity	1
Rated voltage	3.7V
Capacity	1800 mAh
Run time	24 hours with SpO_2 monitored continuously, audio indicators off and backlight brightness set to minimum using a new, fully charged battery at ambient temperature 25℃.
Charge time	2 hours to 90% 3.5 hours to 100%
Shutdown delay	Min. 5 minutes after the low battery alarm first occurs.

Hardware specifications	
Display	Color TFT, 2.4", 320×240 pixel
Power indicating lamp	1, lighting green and yellow
Loudspeaker	1; Gives audible alarm (45 to 85dB) and button tone; Supports Pitch Tone and multi-level volume; Alarm tones meet the requirement of IEC 60601-1-8.
Alarm indicating lamp	1, lighting red and yellow
Multifunctional connector	1, 9-pin type D connector
Power supply connector	1, used to connecting the Charger stand

Data storage		
Operating mode	Continuous monitoring	Spot-checking
Capacity	96 hours of data	4000 data
Resolution	2 s	30 s
Stored data	Patient ID, patient category, SpO2 and PR value, measurement time	

Measurement specifications	
SpO₂	
Measurement validation: The SpO2 accuracy has been validated in human studies against arterial blood sample reference measured with a CO-oximeter. Pulse oximeter measurements are statistically distributed, and only about two-thirds of the measurements can be expected to fall within the specified accuracy compared to CO-oximeter measurements.	
Range	0 to 100%
Resolution	1%

Accuracy	70 to 100%:	$\pm 2\%$ (measured without motion in adult/pediatric mode)
	70 to 100%:	$\pm 3\%$ (measured without motion in neonatal mode)
	70 to 100%:	$\pm 3\%$ (measured with motion)
	0% to 69%:	Unspecified
Refreshing rate	1 s	
Averaging time	7 s (When the sensitivity is set to High)	
	9 s (When the sensitivity is set to Med)	
	11 s (When the sensitivity is set to Low)	
PR		
Range	18 to 300 bpm	
Resolution	1 bpm	
Accuracy	± 3 bpm (measured without motion)	
	± 5 bpm (measured with motion)	
Refreshing rate	1 s	
Averaging time	7 s (When the sensitivity is set to High)	
	9 s (When the sensitivity is set to Med)	
	11 s (When the sensitivity is set to Low)	

Alarm limit specifications		
Alarm limits	**Range (%)**	**Step (%)**
SpO_2 high limit	(low limit +1) to 100	1
SpO_2 low limit	50 to (high limit -1)	
Alarm limits	**Range (bpm)**	**Step (bpm)**
PR high limit	(low limit +1) to 300	1
PR low limit	18 to (high limit -1)	