Dear users, thank you very much for purchasing the Pulse Oximeter.

This Manual is written and compiled in accordance with the council directive MDD93/42/EEC for medical devices and harmonized standards. In case of modifications and software upgrades, the information contained in this document is subject to change without notice.

The Manual describes, in accordance with the Pulse Oximeter’s features and requirements, main structure, functions, specifications, correct methods for transportation, installation, usage, operation, repair, maintenance and storage, as well as the safety procedures to protect both the user and equipment. Refer to the respective chapters for details.

Please read the User Manual carefully before using this product. The User Manual which describes the operating procedures should be followed strictly. Failure to follow the User Manual may cause measuring abnormality, equipment damage and human injury. The manufacturer is NOT responsible for the safety, reliability and performance issues and any monitoring abnormality, human injury and equipment damage due to users' negligence of the operation instructions. The manufacturer’s warranty service does not cover such faults.

Owing to the forthcoming renovation, the specific products you received may not be totally in accordance with the description of this User Manual. We would sincerely regret for that.

This product is medical device, which can be used repeatedly.

**WARNING:**

- Uncomfortable or painful feeling may appear if using the device ceaselessly, especially for the microcirculation barrier patients. It is recommended that the sensor should not be applied to the same finger for over 2 hours.

- For the special patients, there should be a more prudent inspecting in the placing process. The device can not be clipped on the edema and tender tissue.

- The light (the infrared is invisible) emitted from the device is harmful to the eyes, so the user and the maintenance man should not stare at the light.

- Testee can not use enamel or other makeup.

- Testee’s fingernail can not be too long.

- Please refer to the correlative literature about the clinical restrictions and caution.

- This device is not intended for treatment.

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1 Safety

1.1 Instructions for Safe Operations

- Check the main unit and all accessories periodically to make sure that there is no visible damage that may affect patient’s safety and monitoring performance. It is recommended that the device should be inspected once a week at least. When there is obvious damage, stop using the device.
- Necessary maintenance must be performed by qualified service engineers ONLY. Users are not permitted to maintain it by themselves.
- The oximeter cannot be used together with devices not specified in User’s Manual. Only the accessory that appointed or recommendatory by manufacture can be used with this device.
- This product is calibrated before leaving factory.

1.2 Warning

- Explosive hazard—DO NOT use the oximeter in the environment with tinder such as anesthetic.
- DO NOT use the oximeter while the patient is being scanned by MRI or CT.
- Please do not break the wristband, for fear it becomes out of use, or the unexpected drop of the device which is due to the looseness of the wristband in the process of using. Users who are allergic to the wristband are not recommended to use it.
- The person who is allergic to rubber can not use this device.
- The disposal of scrap instrument and its accessories and packing (including battery, plastic bags, foams and paper boxes) should follow the local laws and regulations.
- Please check the packing before use to make sure the device and accessories are totally in accordance with the packing list, or else the device may have the possibility of working abnormally.
- Please choose the accessories and probe which are approved or manufactured by the manufacturer, or else it may damage the device.
- Please choose the battery chargers which should be ensured compliance with the requirements of IEC 60601-1, or else it may damage the device.
- Please don't use the device in the course of charging.
- The device can only be matched with the compatible probe.
- Please don't measure this device with functional tester for the device's related information.

1.3 Attention

- Keep the oximeter away from dust, vibration, corrosive substances, explosive materials, exorbitant or overly low temperature and humidity.
- If the oximeter gets wet, please stop operating it.
- When it is carried from cold environment to warm or humid environment, please do not use it immediately.
- DO NOT operate keys on front panel with sharp materials.
- High temperature or high pressure steam disinfection of the oximeter is not permitted. Refer to User Manual in the relative chapter (7.1) for instructions of cleaning and disinfection.
- Do not have the oximeter immersed in liquid. When it needs cleaning, please wipe its surface.
with medical alcohol by soft material. Do not spray any liquid on the device directly.

- When cleaning the device with water, the temperature should be lower than 60°C.
- As to the fingers which are too thin or too cold, it would probably affect the normal measure of the patients’ SpO2 and pulse rate, please clip the thick finger such as thumb and middle finger deeply enough into the probe.
- The pulse oximeter can be used to adult or infant. Whether the device is used to adult or infant, it depends on the probe selected.
- The update period of data is less than 5 seconds, which is changeable according to different individual pulse rate.
- Please read the measured value when the waveform on screen is equably and steady-going, this measured value is optimal value. And the waveform at the monument is the standard one.
- If some abnormal conditions appear on the screen during test process, pull out the finger and reinsert to restore normal use.
- The device has normal life for three years since the first electrified use.
- This device has the function of alarming, users can check on this function according to chapter 6.1 as a reference.
- The device has the function of limits alarming, when the measured data is beyond the highest or lowest limit, the device would start alarming automatically on the premise of the alarming function is on.
- The device has the function of alarming, this function can either be paused, or closed for good, please check the chapter 6.1 as a reference.
- The device may not work for all patients. If you are unable to achieve stable readings, discontinue use.

2 Overview

The pulse oxygen saturation is the percentage of HbO2 in the total Hb in the blood, so-called the O2 concentration in the blood. It is an important bio-parameter for the respiration. A number of diseases relating to respiratory system may cause the decrease of SpO2 in the blood, furthermore, some other causes such as the malfunction of human body's self-adjustment, damages during surgery, and the injuries caused by some medical checkup would also lead to the difficulty of oxygen supply in human body, and the corresponding symptoms would appear as a consequence, such as vertigo, impotence, vomit etc. Serious symptoms might bring danger to human's life. Therefore, prompt information of patients' SpO2 is of great help for the doctor to discover the potential danger, and is of great importance in the clinical medical field.

The Pulse Oximeter features in small volume, low power consumption, convenient operation and being portable. It is only necessary for patients to put one of his fingers into a probe for diagnosis, and a display screen will directly show the measured value of pulse oxygen saturation with the high veracity and repetition.

2.1 Features

A. Operation of the product is simple and convenient.
B. The product is small in volume, light in weight and convenient in carrying.
C. Low power consumption
2.2 Major Applications and Scope of Application

The Pulse Oximeter can be used in measuring the pulse oxygen saturation and pulse rate through finger. The product is suitable for being used in family, hospital, oxygen bar, community healthcare, physical care in sports (It can be used before or after doing sports and it is not recommended to use the device during the process of having sport) and etc.

⚠️ The problem of overrating would emerge when the patient is suffering from toxicosis which caused by carbon monoxide, the device is not recommended to be used under this circumstance.

2.3 Environment Requirements

Storage Environment
a) Temperature :-40°C~+60°C
b) Relative humidity :≤95%
c) Atmospheric pressure :500hPa~1060hPa

Operating Environment
a) Temperature:10°C~40°C
b) Relative Humidity :≤75%
c) Atmospheric pressure:700hPa~1060hPa

3 Principle

Principle of the Oximeter is as follows: An experience formula of data process is established taking use of Lambert Beer Law according to Spectrum Absorption Characteristics of Reductive Hemoglobin (Hb) and Oxyhemoglobin (HbO₂) in glow & near-infrared zones. Operation principle of the device is: Photoelectric Oxyhemoglobin Inspection Technology is adopted in accordance with Capacity Pulse Scanning & Recording Technology, so that two beams of different wavelength of lights can be focused onto human nail tip through perspective clamp finger-type sensor. Then measured signal can be obtained by a photosensitive element, information acquired through which will be shown on screen through treatment in electronic circuits and microprocessor.

![Diagram of Pulse Oximeter Principle](image-url)
4 Technical Specifications

4.1 Main Performance

A. SpO₂ value display
B. Pulse rate value display, bar graph display
C. Pulse waveform display
D. Low-voltage indication: low-voltage indicator appears before working abnormally which is due to low-voltage
E. The display mode can be changed
F. Screen brightness can be changed
G. Pulse sound indication
H. Alarm function
I. With SpO₂ value and pulse rate value of storage, the stored data can be uploaded to computers
J. It can be connected with an external oximeter probe
K. Real-time data can be transmitted to computer
L. Clock function
M. Wireless transmission function

4.2 Main Parameters

A. Measurement of SpO₂
   Measuring range: 0%~100%
   Accuracy:
   When the SpO₂ measuring range is 70%~100%, the permission of absolute error is ±2%;
   Below 70% unspecified
B. Measurement of pulse rate
   Measuring range: 30bpm~250bpm
   Accuracy: ±2 bpm or ±2% (select larger)
C. Resolution
   SpO₂: 1%, Pulse rate: 1bpm.
D. Measurement Performance in Weak Filling Condition
   SpO₂ and pulse rate can be shown correctly when pulse-filling ratio is 0.4%. SpO₂ error is ±4%, pulse rate error is ±2 bpm or ±2% (select larger).
E. Resistance to surrounding light
   The deviation between the value measured in the condition of man-made light or indoor natural light and that of darkroom is less than ±1%.
F. Power supply requirement: 3.6 V DC ~ 4.2V DC.
G. Optical Sensor
   Red light (wavelength is 660nm, 6.65mW)
   Infrared (wavelength is 880nm, 6.75mW)
H. Adjustable alarm range:
   SpO₂: 0%~100%
   Pulse Rate: 0bpm~254bpm
5 Installation

5.1 View of the Front Panel

Figure 2. Front view
（Actual probe may be different with the probe as figure 4, please accept the actual probe with the device）

Figure 3. Left and right view

1. Probe jack: It is used to connect a SpO2 sensor to measure the oxygen saturation and pulse rate.
2. USB port: It is used to connect a personal computer to export the trend data or charge the lithium battery via a data line.
3. Charging indication light. When the device is in the state of battering charging, the indication light appears to be orange, and when the battery status is full, the light turns to green.

5.2 Wristband Installation and Probe Connection

A. Put one side of the wristband on which there is no ring through the belt hole above the device, then put it through the other belt hole under the device.
B. Make the alignment signs on the probe in accordance with the alignment signs on the device, then plug the probe into the jack. (The probe for the device is limit to the probe that is produced by our company, don’t use the other similar products to replace).
C. It appears as the following figure after installation.

![Figure 4.](image)

5.3 Accessories

A. a wristband  
B. a User Manual  
C. a power adapter  
D. a data line  
E. a disk (PC software)  
F. An adult-oximeter probe (Model:S6RXTH024)  
   An infant-oximeter probe (May purchase selectively)

6 Operating Guide

6.1 Application Method

A. Install the wristband and probe according to the instructions of chapter 5.2.
   a) Put the suitable probe into the jack on the right side of the oximeter. (The probe is limited to be produced by our company; never replace it with the similar ones by other manufacturers).
   b) Put the finger into the probe.
   c) Turn on the device by long pressing the button on the panel.
   d) Do not shake the finger and keep the patient in a stable state during the process.
   e) The data can be read directly from the screen in the measuring interface.
   △ Fingernails and the luminescent tube should be in the same side.
   △ If the alarm function is on, the device will provide medium-priority alarm signal when probe or finger is out. Intermittent alarm will occur and the user interface presents "FINGER OUT".
   Medium priority indicating that prompt operator response is required.
Figure 5.

(Actual probe may be different with the probe as figure 5, please accept the actual probe with the device)

Attention:

CLICK = short press of power button and PRESS = prolonged push of power button (1 sec)

B. Change display direction

In the measuring interface, enter the clock interface by click the button, then click the button to return the measuring interface, and then click the button to change the display direction within 30 seconds.

C. Enter and exit the clock interface

a) In the measuring interface, click the button in order to enter the clock interface, and it will automatically return to the measuring interface if there are no more operations within 30 seconds.

b) In the measuring interface, click the button in order to enter the clock interface, and the device would return to the measuring interface by click the button again.

D. Pause alarm

a) Alarm including the alarm of measure data's going beyond the limits, the alarm of low-voltage, the alarm of probe or finger's out of position.

b) In the measuring interface, if the alarm function is on, during the period of alarming, you can pause it by click the button, but the function will be renewed in about 60 seconds.

c) If you want to turn off the alarm for good, you should enter the menu for operation.

E. Menu operations

When the device is under the measuring interface, press the button for about 1 second in order to enter the menu interface shown as figure 5. Users can adjust the setting through the main menu, such as backlight, alarm, clock, Wireless transmission (with Wireless adapter), data storage, and power off. The specific operation methods are as the following:
a) Backlight adjustment

In the main menu interface, Click the button to select “Brightness”, Press the power button and hold to adjust the backlight brightness.

b) Alarm setting

In the main menu interface, click the button to select “Alarm”, Press the power button (1 sec) to enter the alarm setting interface as shown in Figure 6:

a. Adjusting the high and low limits of alarms

Click the button to select “Direction”, and then Press the button to choose Up or Down. (This will be the direction the value of the high-low limits of SpO2 and pulse rate will be adjusted)

To raise the SpO2 and pulse rate limit, choose “Direction” as ‘up’, then Click the button to highlight the parameter to be adjusted: SpO2 high limit (SpO2 ALM HI), SpO2 low limit (SpO2 ALM LO), Pulse rate high limit (PR ALM HI), Pulse rate low limit (PR ALM LO), Press the button and hold to adjust the selected limit to the desired higher value and release the button once the higher limit has been reached.

To lower the SpO2 and pulse rate limit, choose “Direction” as ‘down’, then Click the button to choose the parameter to be adjusted. Press the button and hold to adjust the selected limit to the desired lower value and release the button once the lower limit has been reached.

⚠️ If the alarm function is on, the device will provide medium-priority alarm signal when the data of SpO2 or pulse rate is beyond the limit. Intermittent alarm will occur and the measurement shows in yellow.

Medium priority indicating that prompt operator response is required.

b. The alarm state setting

Click the button to select “Alarm”, and then Press the button to choose alarm on or off, press “on” to turn on the alarms and “off” to turn off the alarms.
c. Pulse sound indication setting

Click the button to select “Pulse Sound”, and then Press the button to choose to have the Pulse Sound (heart beat) alarm “on” or “off”.

d. Exit the Alarm settings

Click the button to select “EXIT”, and then Press the button to exit the Alarm Settings Menu.

c)Clock setting

In the main menu interface, Click the button to select “Clock”, and then enter the clock setting interface by press the button.

a. When entering the clock setting menu, the menu choice bar would be on the item of “set time”, and the state would always be “no” whenever it enters the clock setting menu on the purpose of avoiding unexpected changes of time due to improper operation. You can change the state by press the button, choose “yes” to reset the time, choose “no” to forbid time resetting.

b. Click the button to select the parameter that you want to change, and then adjust the data by press the button.

c. Click the button to select “Exit”, and then exit the clock setting menu by press the button. If you have reset the time or date, when exiting the clock setting menu, firstly the renewed time and date
would be displayed in the screen, then it returns to the main menu; if you didn’t reset the time and date, when exiting the clock setting menu, the device would return to the main menu directly.

d) Wireless setting
Click the button to select “Wireless”, then press the button to turn on/off the Wireless function.

⚠️ It is recommended to use the 2.4GHZ Wireless adapter which uses CSR as main chip. Please don't pull out the USB data line or Wireless adapter when the data is being transmitted between device and computer, when the data is being transmitted between device and computer, the user can't set "Wireless". If the user can't set "Wireless" after cutting connecting, please try again after waiting 30 seconds.

e) Data storage setting
This instrument has the ability to store 24 hours data. It can store the measured pulse rate and SpO2 value accurately, transfer the data to the computer, display the data and print reports (with the included SpO2 Software - SpO2 Assistant).

a. In the main menu interface, Click the button to select “Record”, then Press the button to choose whether store the data or not, choose “Yes” to permit storing, choose “No” to forbid storing.

b. The device can save starting time automatically.

c. If the data storage function is being turned on, when return to the measuring interface, a red "REC" sign and a flashing red dot would appear in screen, which means the device is in a state of storing.

d. In the state of storing, whatever interfaces the device is in (measuring interface, menu interface, and clock interface), the sign "Recording" would appear in the screen in 30 seconds, then the clock interface would appear in succession after several seconds. And then the screen will be automatically shut down. If short press the button at this moment, the sign "Recording" would appear in the screen, and then the screen will be automatically shut down again; if long press the button, the device would return to the former interface.

e. If turning on the data storage function, the former data storage will be automatically removed.

f. In the state of data storing, after the screen is automatically shut down, the pulse sound indication would be off for saving power.

g. When the storage space is full, it displays “Memory is full” in the screen, and then shut down in a few seconds. But it will still display “Memory is full” by the next time you turn on the device on the purpose of warning the user, if Click the button again, it will enter the measuring interface.

f) Device ID
The user can modify device ID by software "SpO2 Assistant".

g) Power off
In the main menu interface, Click the button to select "Power off", then Press the button to shut down the device.

h) Exit the main menu
In the main menu interface, Click the button to select "Exit", and then Press the button to exit the main menu.
F. PC software operation

Please connect the device with computer by the USB data line or Wireless which is affiliated with the device, then double click "SpO2 Assistant " icon to run the PC software. The functions such as uploading storage data and change device ID can be carried out by the software. Please refer to <SpO2 Assistant user manual> for details.

![Figure 9 Software Symbol](image)

⚠️ If the users choose to turn on the synchronizing display function on computer, it would probably take several seconds for the data to appear in the computer screen. (If there is no data in the computer screen, unplug the Wireless adapter or data line, then try again.)

G. Charge

There are two kinds of charge method:
- **a)** Connect the device with computer by data line, then the device should be under charge state.
- **b)** Connect the device with power supply by power adaptor, and then the device should be under charge state.
- **c)** When the device is in the state of battery charge, the indication light appears to be orange, and when the battery status is full, the light turns to green.

⚠️ If the alarm function is on, the device will provide high-priority alarm signal when the battery is in low power status. Intermittent alarm will occur and the battery icon turns red in the state of flashing. High priority indicating that immediate operator response is required.

6.2 Attention for Operation

A. Please check the device before using, and confirm that it can work normally.

B. The finger should be in a proper position (see the attached illustration of figure 4 for reference), or else it may result in inaccurate measure.

C. The SpO2 sensor and photoelectric receiving tube should be arranged in a way with the subject’s arteriole in a position there between.

D. The SpO2 sensor should not be used at a location or limb tied with arterial canal or blood pressure cuff or receiving intravenous injection.

E. Ensure nothing, such as a plaster, can impede the light passage, or else it may result in inaccurate measure of SpO2, pulse rate.

F. Excessive ambient light may affect the measuring result. It includes fluorescent lamp, dual ruby light, infrared heater, direct sunlight and etc.

G. Exquisite action of the subject or extreme electrosurgical interference may also affect the accuracy.

H. Testee can not use enamel or other makeup.

I. Please clean and disinfect the device after operating according to the User Manual (7.1).
6.3 Clinical Restrictions

A. As the measure is taken on the basis of arteriole pulse, substantial pulsating blood flow of subject is required. For a subject with weak pulse due to shock, low ambient/body temperature, major bleeding, or use of vascular contracting drug, the \( \text{SpO}_2 \) waveform (PLETH) will decrease. In this case, the measurement will be more sensitive to interference.

B. For those with a substantial amount of staining dilution drug (such as methylene blue, indigo green and acid indigo blue), or carbon monoxide hemoglobin (COHb), or methionine (Me+Hb) or thiosalicylic hemoglobin, and some with icterus problem, the \( \text{SpO}_2 \) determination by this monitor may be inaccurate.

C. The drugs like dopamine, procaine, prilocaine, lidocaine and butacaine may also be a major factor resulted in serious error of \( \text{SpO}_2 \) measure.

D. As the \( \text{SpO}_2 \) value serves as a reference value for judgment of anemic anoxia and toxic anoxia, some patients with serious anemia may also report good \( \text{SpO}_2 \) measurement.

7 Maintain, Transportation and Storage

7.1 Cleaning and Disinfecting

Using medical alcohol to disinfect the device, nature dry or clean it with clean soft cloth.

7.2 Maintain

A. Please clean and disinfect the device before using according to the User Manual (7.1).

B. Please recharge the battery when the screen shows [image]

C. Recharge the battery soon after the over-discharge. The device should be recharged every six months when it is no regular used. It can extend the battery life following this guidance.

D. The device needs to be calibrated once a year (or according to the calibrating program of hospital). It also can be performed at the state-appointed agent or just contact us for calibration.

7.3 Transportation and Storage

A. The packed device can be transported by ordinary conveyance or according to transport contract. The device can not be transported mixed with toxic, harmful, corrosive material.

B. The packed device should be stored in room with no corrosive gases and good ventilation. Temperature: -40°C~60°C; Humidity: ≤95%

8 Troubleshooting

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Possible Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The ( \text{SpO}_2 ) and Pulse Rate can not be displayed normally</td>
<td>1. The finger is not properly positioned. 2. The patient’s ( \text{SpO}_2 ) is too low to be detected.</td>
<td>1. Place the finger properly and try again. 2. Try again; Go to a hospital for a diagnosis if you are sure the device works all right.</td>
</tr>
<tr>
<td>The ( \text{SpO}_2 ) and Pulse Rate are not displayed stably</td>
<td>1. The finger is not placed inside deep enough. 2. The finger is shaking or the patient is moving.</td>
<td>1. Place the finger properly and try again. 2. Let the patient keep calm.</td>
</tr>
</tbody>
</table>
| The device can not be turned on | 1. The batteries are drained or almost drained.  
2. The device’s malfunction. | 1. Please recharge the battery.  
2. Please contact the local service center. |
|--------------------------------|-------------------------------------------------|---------------------------------|
| The display is off suddenly  | 1. The device’s malfunction.  
2. The battery is drained away or almost drained away. | 1. Please contact the local service center.  
2. Please recharge the battery. |
| The device can not be used for full time after charge | 1. The battery is not full charged.  
2. The battery is broken | 1. Please recharge the battery  
2. Please contact the local service center. |
| The battery can not be full charged even after 10 hours charging time. | The battery is broken. | Please contact the local service center. |

### 9 Key of Symbols

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Warning" /></td>
<td>Warning – See User Manual</td>
</tr>
<tr>
<td><img src="image" alt="%Spo2" /></td>
<td>The pulse oxygen saturation (%)</td>
</tr>
<tr>
<td><img src="image" alt="PR" /></td>
<td>Pulse rate (bpm)</td>
</tr>
<tr>
<td><img src="image" alt="Full-voltage" /></td>
<td>Full-voltage</td>
</tr>
<tr>
<td><img src="image" alt="Low-voltage" /></td>
<td>Low-voltage</td>
</tr>
<tr>
<td><img src="image" alt="Close the alarm sound indication" /></td>
<td>Close the alarm sound indication</td>
</tr>
<tr>
<td><img src="image" alt="Pause the alarm sound indication" /></td>
<td>Pause the alarm sound indication</td>
</tr>
<tr>
<td><img src="image" alt="Open the alarm sound indication" /></td>
<td>Open the alarm sound indication</td>
</tr>
<tr>
<td><img src="image" alt="Open the Wireless indication" /></td>
<td>Open the Wireless indication</td>
</tr>
<tr>
<td><img src="image" alt="Close the pulse sound indication" /></td>
<td>Close the pulse sound indication</td>
</tr>
<tr>
<td><img src="image" alt="Open the pulse sound indication" /></td>
<td>Open the pulse sound indication</td>
</tr>
<tr>
<td><img src="image" alt="menu button/power button/function button" /></td>
<td>menu button/power button/function button</td>
</tr>
<tr>
<td><img src="image" alt="Type BF" /></td>
<td>Type BF</td>
</tr>
<tr>
<td>Information</td>
<td>Display Mode</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>The Pulse Oxygen Saturation( SpO2)</td>
<td>2-digit digital OLED display</td>
</tr>
<tr>
<td>Pulse Rate(PR)</td>
<td>3-digit digital OLED display</td>
</tr>
<tr>
<td>Pulse Intensity (bar-graph)</td>
<td>bar-graph OLED display</td>
</tr>
</tbody>
</table>

**SpO2 Parameter Specification**

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>0%~100%, (the resolution is 1%).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>70%~100%: ±2%, Below 70% unspecified.</td>
</tr>
<tr>
<td>Average value</td>
<td>Calculate the Average value in every 4 measure value. The deviation between average value and true value does not exceed 1%.</td>
</tr>
</tbody>
</table>

**Pulse Parameter Specification**

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>30bpm~250bpm, (the resolution is 1bpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>±2bpm or±2% (select larger)</td>
</tr>
<tr>
<td>Average pulse rate</td>
<td>Moving calculate the Average pulse rate every 4 cardio-beat cycle. The deviation between average value and true value does not exceed 1%</td>
</tr>
</tbody>
</table>

**Safety Type**

| Interior Battery, BF Type |

**Pulse Intensity**

| Range | Continuous bar-graph display, the higher display indicates the stronger pulse. |

**Battery Requirement**

<p>| Voltage 3.7 rechargeable lithium battery × 1 |</p>
<table>
<thead>
<tr>
<th><strong>Battery working life</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge and discharge no less than 500 times.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Power Adapter</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>100 to 240V AC, 50/60 Hz</td>
</tr>
<tr>
<td>Output voltage</td>
<td>5V DC</td>
</tr>
<tr>
<td>Output current</td>
<td>1A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Wireless Module</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit frequency</td>
<td>2.4GHz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dimensions and Weight</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>61(L) × 56(W) × 24 (H) mm</td>
</tr>
<tr>
<td>Weight</td>
<td>About 50g (with the lithium battery*1)</td>
</tr>
</tbody>
</table>
### Appendix

<table>
<thead>
<tr>
<th>State</th>
<th>Alarm condition delay</th>
<th>Alarm signal generation delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low voltage alarm</td>
<td>0.6s</td>
<td>20ms</td>
</tr>
<tr>
<td>SpO₂ alarm</td>
<td>400ms</td>
<td>20ms</td>
</tr>
<tr>
<td>Pulse rate alarm</td>
<td>400ms</td>
<td>20ms</td>
</tr>
<tr>
<td>Probe error alarm</td>
<td>400ms</td>
<td>20ms</td>
</tr>
</tbody>
</table>