Pulse Oximeter

User Manual
Instructions to User

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, etc. 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 about cables and transducers. 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 environment with inflammable gas such as some ignitable anesthetic agents.
✦ DO NOT use the oximeter while the testee measured by MRI and 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 is 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 packings (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.
✦ The device can only be matched with the compatible probe.
✦ Please don't measure this device with function test paper for the device's related information.

1.3 Attention

🏡 Keep the oximeter away from dust, vibration, corrosive substances, explosive materials, high temperature and moisture.
🏡 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 immerged 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.

- 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 moment 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 useful 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: 5% ~ 95%
c) Atmospheric pressure: 500hPa ~ 1060hPa

Operating Environment
a) Temperature: 0°C ~ 50°C
b) Relative Humidity: 15% ~ 95%
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](image1)

Figure 1.

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. A pulse sound indication
H. With 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 computers
L. With clock 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: 25bpm～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)
5 Installation

5.1 View of the front panel

Figure 2. front view

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.

C. It appears as the following figure after installation.

Figure 3.

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 oximeter probe  

6 Operating Guide  

6.1 Application method  

A. Install the wristband and probe according to the instructions of chapter 4.2, then put the finger into the probe.  

a) Turn on the device by long pressing the button on the panel.  
b) Do not shake the finger and keep the patient in a stable state during the process.  
c) The data can be read directly from the screen on the measuring interface.  

⚠️ Fingernails and the luminescent tube should be on the same side.  

⚠️ If the alarm function is on, the device will provide medium-priority alarm signal when probe or finger is out and intermittent alarm will occur.  

Figure 4.  

（Actual probe may be different with the probe as figure 4, please accept the actual probe with the device）

B. Change display direction  

On the measuring interface, short press the button to enter the clock interface, and then change the display direction by short pressing the button within 30 seconds.  

C. Enter and exit the clock interface  

a) On the measuring interface, short press the button in order to enter the clock interface, and it will automatically return to the measuring interface if there is no other operations within 30 seconds.  
b) On the measuring interface, long press the button for about 10 seconds in order to enter the clock interface, and the device would return to the measuring interface by long pressing 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) On the measuring interface, if the alarm function is on, during the period of alarming, you can pause it by short pressing 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, long press the button for about 1 second in order to enter the menu interface shown as figure 5 (when the display mode is upright mode, the device cannot enter the menu interface in this situation, you need to short press the button again to adjust the display mode to transverse mode so that the device can enter the menu interface). Users can adjust the setting through the main menu, such as backlight, alarm, clock, data transmission (with the data line), data storage, and power off. The specific operation methods are as the following:

![Main Menu Interface](image)

**Figure 5. Main Menu Interface**

a) Backlight adjustment

On the main menu interface, short press the button to move the menu choice bar to “Brightness”, then you can adjust the brightness of the screen by long pressing the button.

b) Alarm setting

On the main menu interface, short press the button to move the menu choice bar to “Alarm”, then the device would enter the alarm setting menu which is shown as figure 6 if you long press the button.

a. The highest/lowest alarm limit setting

Short press the button to move the menu choice bar to “Direction”, then you can choose the highest/lowest limit by long pressing the button. If you want to raise the alarm limit of SpO₂ or pulse rate, you should move the “Direction” to “up”, then short press the button in order to choose the parameter that you want to raise: The highest limit of SpO₂ (SpO₂ ALM HI), the lowest limit of SpO₂ (SpO₂ ALM LO), the highest limit of pulse rate (PR ALM HI), the lowest limit of pulse rate (PR ALM LO), then you can raise the data to the number that you want by long pressing the button. In the same way, if you want to reduce the alarm limit of SpO₂ or pulse rate, you should move the “Direction” to “down”, short press the button to choose the parameter that you want to reduce,
then adjust the number by long pressing the button.

⚠️ If the alarm function is on, the device will provide midium-priority alarm signal when the data of SpO₂ or pulse rate is beyond the limit and intermittent alarm will occur.

b. The alarm state setting

Short press the button to move the menu choice bar to “Alarm”, then choose the alarm state (on/off) by long pressing the button, choose “on” to open the alarm function, and choose “off” to close it for good.

![Alarm Setting Menu](image)

Figure 6. Alarm Setting Menu

c. Pulse sound indication setting

Short press the button to move the menu choice bar to “Pulse Sound”, then choose the pulse sound indication state (on/off) by long pressing the button, press “on” to open the function, and press “off” to close it.

d. Exit

Short press the button to move the menu choice bar to "Exit", you can exit the alarm setting menu as well as return to the main menu by long pressing the button.

c) Clock setting

On the main menu interface, short press the button to move the menu choice bar to “Clock”, then enter the clock setting interface by long pressing the button.
Figure 7. Clock Setting Menu

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 long pressing the button, choose “yes” to reset the time, choose “no” to forbid time resetting.

b. Short press the button to move the menu choice bar to the parameter that you want to change, then adjust the data by long pressing the button.

c. Short press the button to move the menu choice bar to “Exit”, then exit the clock setting menu by long pressing 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 on 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) Real-time data transmission setting

Firstly, please install the affiliated software into the computer, and two icons would appear on the desktop after installation. The icon of "SpO2 "is a program for receiving real-time data which is shown as figure 8; the icon of "SpO2 Review" is a program for receiving stored data which is shown as figure 9.

a. Please connect the device to computer with the affiliated data line, then double click the "SpO2 "icon to start the program.

b. On the main menu interface, short press the button to move the menu choice bar to"Usb", long press the button to choose whether transmit the real-time data to computer which displays the data Synchronously or not, choose “on” to permit transmission, choose “off” to forbid transmission.

c. When you unplug the data line from computer, there is a dialog box "Save data at view" appearing on the desktop, in which you can input some patient's basic information.

Figure 8. SpO2 program
If the users choose to turn on the synchronizing display function on computer, it would probably take several seconds for the data to appear on the computer screen.

e) Data storage setting

This device has the function of 24 hours data storage, it has the capability of accurately storing pulse rate and SpO2 data, then transmit the data to computer with the data line for replay and analysis.

a. On the main menu interface, short press the button to move the menu choice bar to “Record”, then long press the button to choose whether store the data or not, choose “on” to permit storing, choose “off” to forbid storing.

b. The device can storage 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 on screen, which means the device is in a state of storing.

d. In the state of storing, whatever interface the device is on (measuring interface, menu interface, clock interface), the sign "Recording" would appear on 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 on 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” on 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 press the button again, it will enter the measuring interface.

f) Stored data transmission setting

a. Please connect the device with computer by the data line which is equipped with the device, then double click "SpO2 Review" icon to open "SpO2 Review" program, click the ‘New Session’ Icon in the software, enter the patient data and then click ‘ok’. The Software will then display “device connected, waiting for data”.

b. On the main menu interface, short press the button to move the menu choice bar to "Upload", then long press the button to choose whether transmit the data to computer for displaying and analysing or not. Choose “on” to permit transmission, choose “off” to forbid transmission.

c. In the state of storing, it is not applicable for the users to upload the stored data to computer.

d. When the upload of stored data is finished, the menu choice bar will move to “Power off” automatically.

g) Power off
On the main menu interface, short press the button to move the menu choice bar to "Power off", then long press the button to shut down the device.

h) **Exit the main menu**

On the main menu interface, short press the button to move the menu choice bar to "Exit", then long press the button to exit the main menu.

F. **Charge**

There are two kinds of charging methods:

a) Connect the device with computer by data line, then the device should be under charging state.

b) Connect the device with power supply by power adaptor, then the device should be under charging state.

c) 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.

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. Do not fix the SpO2 sensor with adhesive or else it may result in venous pulsation and inaccurate measure of SpO2 and 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. Strenuous 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 SpO2 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 SpO2 determination by this monitor may be inaccurate.

C. The drugs like dopamine, procaine, prilocaine, lidocaine and butacaine may also be a major factor blamed for serious error of SpO2 measure.

D. As the SpO2 value serves as a reference value for judgement of anemic anoxia and toxic anoxia,
some patients with serious anemia may also report good SpO₂ 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 🔋, or else the device will power off automatically if it detects the shortage of power.
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 SpO₂ and Pulse Rate can</td>
<td>1. The finger is not properly positioned.</td>
<td>1. Place the finger properly and try again.</td>
</tr>
<tr>
<td>not be displayed normally</td>
<td>2. The patient’s SpO₂ is too low to be detected.</td>
<td>2. Try again; Go to a hospital for a diagnosis if you are sure the device works all right.</td>
</tr>
<tr>
<td>The SpO₂ and Pulse Rate are</td>
<td>1. The finger is not placed inside deep enough.</td>
<td>1. Place the finger properly and try again.</td>
</tr>
<tr>
<td>not displayed stably</td>
<td>2. The finger is shaking or the patient is moving.</td>
<td>2. Let the patient keep calm</td>
</tr>
<tr>
<td>The device can not be turned</td>
<td>1. The batteries are drained or almost drained.</td>
<td>1. Please recharge the battery</td>
</tr>
<tr>
<td>on</td>
<td>2. The device’s malfunction</td>
<td>2. Please contact the local service center.</td>
</tr>
<tr>
<td>The display is off suddenly</td>
<td>1. The device’s malfunction</td>
<td>1. Please contact the local service center.</td>
</tr>
<tr>
<td></td>
<td>2. The battery is drained away or almost drained away.</td>
<td>2. Please recharge the battery</td>
</tr>
<tr>
<td>The device can not be used</td>
<td>1. The battery is not full charged.</td>
<td>1. Please recharge the battery</td>
</tr>
<tr>
<td>for full time after chargre</td>
<td>2. The battery is broken</td>
<td>2. Please contact the local service center.</td>
</tr>
<tr>
<td>The battery can not be full</td>
<td></td>
<td></td>
</tr>
<tr>
<td>charged even after 10 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>charg</td>
<td>Please contact the local service center.</td>
<td></td>
</tr>
</tbody>
</table>
9 Key of Symbols

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Warning – See User Manual</td>
</tr>
<tr>
<td>%Spo₂</td>
<td>The pulse oxygen saturation(%)</td>
</tr>
<tr>
<td>PR</td>
<td>Pulse rate (bpm)</td>
</tr>
<tr>
<td>🍃</td>
<td>Full-voltage</td>
</tr>
<tr>
<td>🍃</td>
<td>Low-voltage</td>
</tr>
<tr>
<td>🔔</td>
<td>Close the alarm sound indication</td>
</tr>
<tr>
<td>🔔</td>
<td>Open the alarm sound indication</td>
</tr>
<tr>
<td>🔔</td>
<td>Close the pulse sound indication</td>
</tr>
<tr>
<td>🔔</td>
<td>Open the pulse sound indication</td>
</tr>
<tr>
<td>📄</td>
<td>menu button/power button/function button</td>
</tr>
<tr>
<td>🚶</td>
<td>Type BF</td>
</tr>
<tr>
<td>SN</td>
<td>Serial number</td>
</tr>
<tr>
<td>📛</td>
<td>1. the finger clip falls off (no finger inserted)] 2. Probe error 3. Signal inadequacy indicator</td>
</tr>
<tr>
<td>IPX1</td>
<td>Ingress of liquids rank</td>
</tr>
<tr>
<td>🔴</td>
<td>WEEE (2002/96/EC)</td>
</tr>
</tbody>
</table>

10 Function Specification

<table>
<thead>
<tr>
<th>Information</th>
<th>Display Mode</th>
</tr>
</thead>
<tbody>
<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><strong>Pulse Intensity (bar-graph)</strong></td>
<td>bar-graph</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td><strong>SpO₂ Parameter Specification</strong></td>
<td></td>
</tr>
<tr>
<td>Measuring range</td>
<td>0%～100%, (the resolution is 1%).</td>
</tr>
<tr>
<td>Accuracy</td>
<td>70%～100%: ±2%, Below 70% unspecified.</td>
</tr>
<tr>
<td><strong>Pulse Parameter Specification</strong></td>
<td></td>
</tr>
<tr>
<td>Measuring range</td>
<td>25bpm～250bpm, (the resolution is 1bpm)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2bpm or ±2% (select larger)</td>
</tr>
<tr>
<td><strong>Safety Type</strong></td>
<td>Interior Battery， B F Type</td>
</tr>
<tr>
<td><strong>Pulse Intensity</strong></td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>Continuous bar-graph display, the higher display indicate the stronger pulse.</td>
</tr>
<tr>
<td><strong>Battery Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>3.7 rechargeable lithium battery × 1</td>
</tr>
<tr>
<td><strong>Battery working life</strong></td>
<td></td>
</tr>
<tr>
<td>Charge and discharge</td>
<td>no less than 500 times.</td>
</tr>
<tr>
<td><strong>Dimensions and Weight</strong></td>
<td></td>
</tr>
<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>