Pulse Oximeter JPD-500F

FCC Statement
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference.
(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
● Reorient or relocate the receiving antenna.
● Increase the separation between the equipment and receiver.
● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
● Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Precautions
Do not attempt to maintain the Oximeter unless you are professional engineers. Only professionals with maintenance qualification are allowed to perform interior maintenance as necessary.
Periodically change the contact position between the Oximeter probe and the finger for a measurement that lasts a long time. Adjust the position of the probe before the measurement lasts two hours, and check the integrity of skin, the blood circulation condition of the finger as well as the position of the finger.
This product is not applicable to the examination of newborn babies.
Seek for medical care in time if the measured value goes beyond the normal range while you are sure that the instrument does not malfunction.
Do not directly expose your eyes to light-emitting components of the Oximeter, as that could cause harm to your eyes.
For details about clinical limitations and contraindications, please carefully consult relevant medical literatures.
The following factors may cause disturbance to or affect the accuracy of examination:
This product is used in an environment involving high-frequency devices, such as high-frequency electric knives and CT apparatuses.
The probe of the Oximeter is placed on the same body part or limb as with blood pressure cuff arterial duct or intravenous injection.
The user suffers from hypotension, severe vascular atrophy, severe anemia, or low oxygen.
The user is in sudden cardiac arrest or shock state.
The finger with nail polish or a fake fingernail may cause wrong readings of pulse oxygen saturation.

Warnings
Warning: Do not use the Oximeter in an environment with any inflammable gases, inflammable anesthetic, or other inflammable substances.
Warning: Do not attempt to charge any common dry battery, as that could cause leakage, fire disaster, or even explosion. Dispose of exhausted batteries in accordance with environment protection regulations.
Warning: Do not use the Oximeter in an MRI or CT environment.
Warning: Do not operate the Oximeter when it is damp with overflow or water vapor condensation. Avoid moving the Oximeter from an excessively-cold environment to a high-temperature moist environment.

Symbol Conventions

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>BF-type application part</td>
<td>Caution: Please see this manual.</td>
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<tr>
<td>Symbol of oxygen saturation</td>
<td>Measured value of oxygen saturation</td>
</tr>
<tr>
<td>Symbol of pulse rate</td>
<td>Bar graph</td>
</tr>
<tr>
<td>Bluetooth symbol</td>
<td>Plethysmogram</td>
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<tr>
<td>When end users abandon this product, they must send the product to the collection place for recycling.</td>
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Overview
Oxygen saturation is the percentage of oxyhemoglobin (HbO2) that is combined with oxygen against all combinable hemoglobin (Hb). It is an important physiological parameter involved in respiration and circulation. The oxygen saturation of arterial blood in a normal human body is 98%. Oxygen saturation is an important indicator of the oxygen condition in the human body. In general, the normal values of oxygen saturation shall not be lower than 94%. If the measured value of oxygen saturation is lower than 94%, an insufficient supply of oxygen is considered.
The pulse rate is the number of pulse beats per minute. Normally, the pulse rate is consistent with the heart rate. In general, the pulse rate of every person is 60 to 90 beats per minute.

The Perfusion Index (PI) usually reflects the limb perfusion status of an examined patient, and shows the detection precision of the instrument as well; that is, examination can still be performed even in the low or weak perfusion condition. The PI of a normal human body is 3% or greater.

Working Principles, Expected Usage, and Applicable Scope
Based on full digital technology, the Finger Pulse Oximeter non-invasively measures the actual content (oxygen saturation) of oxyhemoglobin (HbO2) in arterial blood using the optical transmittance method.
The Finger Pulse Oximeter measures the blood oxygen saturation and pulse rate of a human body via finger artery. It is applicable to a wide range of fields, such as families, hospitals (including operation rooms of the departments of internal medicine and surgery, the department of anesthesiology, the department of paediatrics, and intensive care rooms), oxygen bars, social medical care institutions, and sports & health. Use this instrument for measurement before or after sports. You are not advised to use this instrument during sports activities. It is applicable to patients 15 to 60 years old. Do not use it for continuous care for patients.

Schematic Diagram of Display
The following figure shows the information display on the OLED screen of the Oximeter in normal detection state:

Power-On Key/Functional Key Operations
After powering on the Oximeter, hold the power-on key/functional key for about one second. The Oximeter shows a parameter setting interface. Press or hold the power-on/functional key to perform corresponding operations. Hold it to set an item, or press it to switch an option or switch the display mode. Press means no more than 0.5 seconds, while Hold means more than 0.5 seconds.

Alert Sound Setting
Hold the power-on/key/functional key while the Oximeter is in powered-on state. Parameter setting interface 1 is displayed, as shown in the following figure. Move "*" to the corresponding option, and hold the functional key to set Alm to on and set Beep off. When Alm is set to on and the measured values of the blood
Continuously press the functional key in the monitoring process. The monitored data and the display mode will be cyclically displayed on the OLED screen in two different ways (large fonts and plethysmogram) and four directions, as shown in the following figure.

Replace the batteries when the battery capacity is insufficient and the symbol (□) flickers on the screen.

**Parameter**  | **Value**
---|---
Oxygen saturation | Upper limit: 100  
 | Lower limit: 94
Pulse rate | Upper limit: 130  
 | Lower limit: 50

**Alert condition**  
When the alert switch is on and the actual measured value goes beyond the preset alert parameter range, the Oximeter gives an alert sound.