Operating Manual of Fingertip Pulse oximeter Model:JZK-303 $\bullet \ Thank\ you\ for\ purchasing\ the\ Pulse\ Oximeter\ product\ produced\ by\ our\ company.$ $\bullet \textbf{In order for you to use this product safely and correctly, please read the operating }$ ullet Please keep the operating manual properly. Publication date: July 2020

Section 1

Safety

1.1 Instructions for the safe Operation and Use of the Fingertip Pulse Oximeter Do not attempt to service the Fingertip Pulse Oximeter. Only qualified service personnel should attempt any needed internal servicing.

Do not use the pulse oximeter in situations where alarms are required. The device has no alarms

Prolonged use or the patient's condition may require changing the sensor site periodically. Change sensor site and check skin integrity circulatory status and correct

alignment at least every 2 hours. $\ensuremath{\mathsf{SpO2}}$ measurements may be adversely affected in the presence of high ambient light. Shield the sensor area (with a surgical towel, or direct sunlight, for example) if

The following reason will cause interference and defibrillators

High-frequency electrosurgical. Placement of a sensor on an extremity with a blood pressure cuff arterial catheter,

The patient has hypotension severe vasoconstriction severe anemia or

The patient is in cardiac arrest or is in shock.

Visual alarm function ,real-time spotchecks.

Fingernail polish or false fingernails may cause inaccurate SpO2 readings. 0

1.2Warnings

WARNING: EXPLOSION HAZARD

Do not use the Oximeter in a flammable atmosphere where concentrations of flammable anesthetics or other materials may occur.

Do not throw batteries in fire as this may causes them to explode.

Do not use the Pulse Oximeter in an MRI or CT environment.

Do not attempt to recharge normal dry-cell batteries, they may leak, and may cause

CAUTIONS

Keep the operating environment free of dust ,vibrations,corrosive,or flammable materials, and extremes of temperature and humidity.

Do not operate the unit if it is damp or wet because of condensation or spills. Avoid using the equipment immediately after moving it from a cold environment to a warm,humid location.

Never use sharp or pointed objects to operare the front-panel switches.

The batteries must be taken out from the battery compartment if the device will

The device shall only be used if the battery cover is closed. The batteries must be proper disposed according to local regulation after their use.

1.3 Definitions and symbols Description Symbol Type BF Equipment 0801 Batch code 2008.08 Date of manufacture Information of manufacture, including name and address When the end-user wishes to discard this product, it must be sent to separate collection facilities for recovery and recycling. X The information you should know to protect patients and medical staff from possible injury. The information you should know to protect the Caution

The important information you should know

2.1 General This chapter provides a general description of the Fingertip Pulse Oximeter

including. · Brief device description

· Products features

2.2 Brief Device Description

The pulse oximeter ,based on all digital technology,is intended for noninvasive spotcheck measurement of functional oxygen saturation of arterial hemoglobin(SpO2).Advanced DSP algorithm can reduce the influence of motion

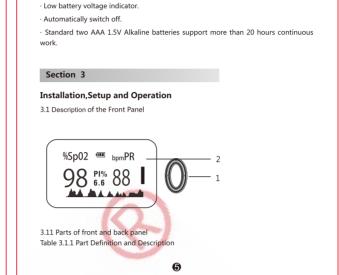
artifact and improve measurement accuracy of low perfusion . The Oximeter can be used to measure human Hemoglobin Saturation and heart rate through finger. The product is suitable for use in family, hospital (including clinical use in internist/surgery,anesthesia,pediatrics,intensive care and etc.). Oxygen Bar, social medical organizations, physical care in sports and etc.

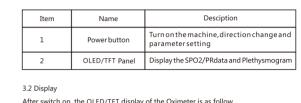
2.3Product Features

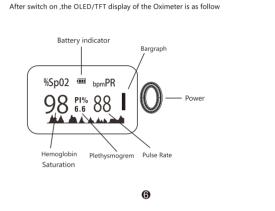
 \cdot Lightweight for carrying and easy to use.

· Manually adjust the direction of interface.

 $\bullet \ \mathsf{Color} \ \mathsf{OLED/TFT} \ \mathsf{diaplay} \ \mathsf{simultaneous} \ \mathsf{display} \ \mathsf{for} \ \mathsf{testing} \ \mathsf{value} \ \mathsf{and} \ \mathsf{plethysmogram}.$ 4







Note

Pressing the button (> 0.5s), oximetry enter the parameter setting, as shown below:

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JZK-303		JZK-303T	
Beep	on	Alm	on
SpO2 Lo	94	Pulse Beep	on
PR Hi PR Lo	130 50	SpO2 Lo PR Hi PR Lo	94 130 50
Restore	off	Restore	off
+/-	+	+/-	+

Short press to enter the next setting, long press to adjust the

parameters of the current cursor indicated item: The parameters are described as follows:

Beep: Pulse oximeter alarm switch, ON is Enables / OFF is closed (JZK-303) Alm : Pulse oximeter alarm switch, ON is Enables / OFF is closed (JZK-303T)

Pulse Beep: Pulse sound; ON is Enables/OFF is closed (JZK-303T) SpO2 Lo: Set lower limit of blood oxygen alarm PR Hi: Set the upper limit of pulse alarm PR Lo: Set lower limit of pulse alarm

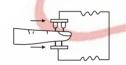
Restore: Reset all settings to factory state + / - : Set the direction for digital adjustment. "+" Means the value increases upwards, "-" means the value decreases downwards



Installing two AAA batteries into battery cassette in correct polarities and cover it.

WARNING:Do not attempt to recharge normal alkaline batteries, they may leak and may cause a fire or even an explode.

Put one of fingers into rubber hole of the Oximeter (it is best to put the finger thoroughly)with nail upward, then releasing the clamp.

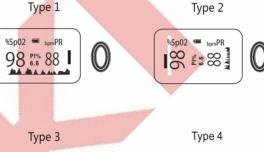


Press power button to turn the Pulse Oximeter on.The oximeter will automatically be powered off when no finger in the device for longer than 8 seconds.

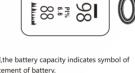
3.4.3 Read correspondent data from display screen

3.4.4Display Description of OLED/TFT

The display interface of "OLED/TFT" can rotate four directions with four different display modes after pressing the power button for less than 0.5s.It is shown as below: 8







Ndmdd ■ 20d2#

Note: When battery power is at lowerest level, the battery capacity indicates symbol of " in OLED/TFT, remind users of replacement of battery.

Section 4

Switch off the power and take out the batteries before cleaning.Keep the exterior surface (OLED/TFT display screen included)of the unit with a dry and soft cloth. Use 75% den sity of medical alcohol to clean the surface and use dry fabric with a little alcohol to avoid alcohol permeates into the device.

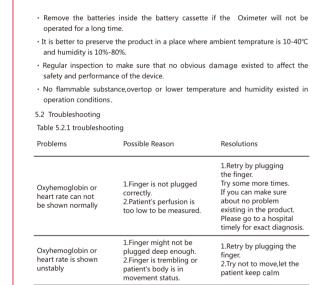
CAUTION:Don't use strong solvent. For example, acetone. CAUTION:Never use an abrasive such as steel wool or metal polish. CAUTION:Do not allow any liquid into the product ,and do not immerse any parts

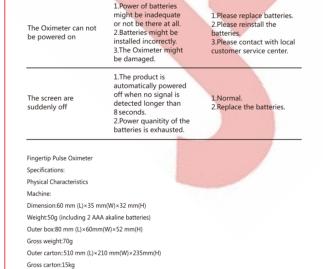
CAUTION: Avoid pouring liquids on the device while cleaning. CAUTION:Don't remain any cleaning solution on the surface of the device.

Section 5

Troubleshooting and Maintenance 5.1 Maintenance

· Replace the batteries timely when battery indication is low.Clean surface of the pulse Oximeter before it is used in diagnosis for patients.





Anti-electronic Shock Type:Internally powered equipment Anti-electronic Shock Degree:Type BF equipment Mode of operation:Continuous Operation Enclosure Degree of ingress Protection:IPX4 2 AAA 1.5V Alkaline batteries Internal

Power consumption	Smaller than 30mA (Normal)
emperature and humidity	
Operating Temperature	5°C-40°C
Storage Temperature	-10°C-50°C
Relative Humidity	15%-80% non-condensing
Alarm default value Parameter	Value
Blood oxygen saturation	Bottom limit:94
Pulse rate	Upper limit:130 Bottom limit:50
	•

Parameters		Value	
Measurement range of Blood oxygen saturation		45-100%	
Measurement range of pulse		25-250 BPM	
Resolution	Blood oxygen saturation	1%	
	Pulse rate	1 BPM	
Measure Accuracy	Blood oxygen saturation	2%(70%-100%) Unspecified (45%69%	
	Pulse rate	2 BPM	

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Warranty Card

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1. This product is within one year's warranty under normal use of non-human factors of quality problems.(Gifts do not belong to the warranty.)

2. The warranty date is subject to the invoice of the product, please

show the invoices when maintained. 3.During the warranty period,the repair isn't free under the

following circumstances: \cdot Do not follow the instructions for use caused by the fault. \cdot Due to self-repair or modifying that resulting in failure. \cdot Due to natural disasters,dropping, hitting or improper voltage .

· Appearance is naturally polluted due to use.

Examiner: _

The product has been tested and proved to be qualitied for delivery

Certificate

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Product Name : Pulse Oximeter JZK-303 / JZK-303T Inspection date : See body label