# Instruction for Use

Model: SM-806

The Pulse Oximeter manual is intended to provide information for proper operation and maintenance. General knowledge of monitoring and understanding of the features and functions of the Pulse Oximeter Monitor are prerequisites for proper use. Please read these instructions carefully before

using this equipment.

The manual describing the operating procedures should be followed strictly. Failure to follow these instructions can cause measuring abnormality, equipment damage and personal injury. The manufacturer is NOT responsible for the safety, reliability and performance issues and any monitoring abnormality, personal injury and equipment damage due to user's negligence of the operation

The Pulse Oximeter is a medical device, and can be used repeatedly.

# Warning 1

Warnings are identified by the WARNING symbol shown above.

• Suplosion hazard. Do not use the PULSE OXIMETER in the presence of flammable anesthetics mixed with air, or with oxygen, or nitrous oxide.

• Do not spray, pour, or spill any liquid on the PULSE OXIMETER, its accessories, connectors,

Reusable sensors must be moved to a new site at least every 4 hours. Because individual skin condition affects the ability of the skin to tolerate sensor placement, it may be necessary to change the sensor site more frequently with some patients. If skin integrity changes, move the

sensor to another site.

At elevated anabient temperatures, patient skin could be severely burned after prolonged sensor application at sites that are not well perfused. To prevent this condition, be sure to check patient application sites frequently. All listed sensors operate without risk of exceeding

check patient application sites frequently. All listed sensors operate without risk of exceeding 41°C on the skin if the initial skin temperature does not exceed 35°C.

Be aware that following removal of the sensor from the patient, it is possible that environmental light may cause the monitor to continue to display a waveform or data values but these data should not be used as a basis for a clinical diagnosis.

Portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT.

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Information concerning the decommissioning of your equipment.

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

This device is not intended for treatment.

The LCD panel contains toxic chemicals. Do not ingest chemicals from a broken LCD panel.

Do not modify this equipment without authorization of the manufacturer.

## Latex Content Statement

The PULSE OXIMETER and accessories are not made with natural rubber latex in any location that may

The PULSE OXIMETER is to be operated by qualified personnel only. Before servicing this product, read the operator's manual carefully and a thorough understanding of operation

# Section 1-Overview

## Intended Use

The Pulse Oximeter is intended for continuous use or spot checking in measuring and displaying functional arterial oxygen saturation (SpO<sub>2</sub>), pulse rate and temperature of patients in hospitals, physician's office, clinical settings and home care environment. Target population: Adult, adolescent and child.

## About the Pulse Oximeter

The device contains a dual light source (red LED and infrared red LED) and a photo detector Ine device contains a qual light source (red LED and infrared red LED) and a photo detector. Bone, tissue, pigmentation and venous vessels normally absorb a constant amount of light over time. The arteriolar bed normally pulsates and absorbs variable amounts of light during the pulsations. The ratio of light basorbed is translated in an oxygen saturation measurement (SpO<sub>2</sub>). Because a measurement of SpO<sub>2</sub> is dependent on light from the device, excessive ambient light can interfere with this measurement.

# Identification of Front Panel, Left Panel Buttons and Symbols

Refer to the PULSE OXIMETER Operator's manual for a complete description of all buttons, symbols, controls, displays and indicators.





Figure 1: PULSE OXIMETER Front Panel and Left Pane

1— Menu button/Power button	6— Waveform Display
2— %SpO₂ Display	7— Bar graph (The Pulse Amplitude Indicator)
3— Low Battery indicator	8— Screen turn switch
4— Temperature Display	9— Accessories Port Connector
5— Pulse Rate Display (bpm)	

# Equipment Symbols

Equipment	3ymbors		
$\triangle$	Caution	86 kPa	Atmospheric pressure limitation
	Non sterile Packaging	<b>†</b>	Type BF (Body Floating) Applied Part
<b>(3)</b>	Refer to Instruction manual/booklet	-10°C -40°C	Temperature limit
(di)	DO NOT THROW AWAY Intended for multiple use	100	Environment-friendly use period
% _ % - 80%	Humidity limitation	LOT	Batch Code
IPX2	Protected against vertically falling water drops when enclosure tilted up to 15°	سا	Date of manufacture
A	Compliance with WEEE Standard	X	No SpO₂ Alarm



## Technical Specifications

Pulse Oximeter	
SpO₂ Range	70% to 100%
SpO <sub>2</sub> Resolution	1%
SpO₂ Accuracy	90% to 100% range: ±2%; 70% to 89% range: ±3% <70%: unspecified; complies with EN ISO80601-2-61: 2011
Reminder	Battery-low indicator
Method	Dual wavelength LED
Pulse Rate Range	30 to 245 bpm
Pulse Rate Resolution	1 bpm
Pulse Accuracy	±3 bpm
LED Wavelengths	Red: approximately 660nm; Infrared: approximately 905nm
Optical output power	Less than 15mW
Temperature Note:The function ftemp	eraturemeasureworksby theaccessory of temperaturperob
Range Accuracy	77°to 113°F (25°C, to 45°C):+0.1°C

//"to 113°F (25°C to 45°C):±0.1°C Display Resolution
Power Supply Requirements

Note: The Oximeter does not include batter 1.5V (AAA) alkaline batteryX2 (IEC Type LR03) 2.6V~3.6V Batteries Adaptable Range

environment Hyperbaric Pressure

(Storage, Transportation and Operating) Classification

Operating Current
Only SpO<sub>2</sub> function works
Only Temp function works
SpO<sub>2</sub> and Temp function work Less than 60mA together
Apply the accessory of SpO<sub>2</sub> Less than 55m∆ probe SpO2, Pulse Rate, Pulse Waveform Display, Bar Graph Display Parameters and Low Battery Indicator Data Update Period Reminder Response Time <2s SpO<sub>2</sub> plethysmogram, pulse sound Value of Pulse and SpO; Temperature41°~104(5°C~40°C), humidity ≤80% Operating environment
Transportation and Storage Temperature14° $\sim$ 104( $\sim$ 10°C $\sim$ 40°C), humidity  $\leq$  80%

Class II a by EU Directive 93/42/EEC Medical device: Protection Against Liquids: Weight: 31.5g (Not including batteries) Size: 61\*34\*30.5mm Dimension and Weighting Compliance Compliant with Safety Standards: IEC 60601-1:2012,

86kPa~106kPa

Equipment classification EMC: IEC 60601-1-2:2014 Type of protection Internally powered equipment (on battery power) Degree of protection Type BF Applied part Mode of operation Continuous Front panel and case labeling ISO15223-ISO 80601-2-61-201

ISO 80601-2-56:2009 Temperature The surface material complies with ISO 10993-5:2009, ISO 10993-10:2010 and has no harm or toxicity for the Compatibility person in contact

# Product parts and accessories

The Pulse Oximeter is composed of instrument and accessories. The accessories including adapter able and Pulse Oximeter probe. Detail of the instrument and accessories see figure 2 and figure



Accessories (Separate Purchase) 2.1 Wrist strap adapter

Port Connector

Figure 3-1: Wrist strap adapter

2.2 Probes

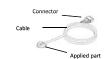


Figure 3-2: Temperature probe (model is W0024F by default, other models are optional accessories on paid.)

## 2.3 Adapter Cable



## Principle of Measurement

The measurement of PULSE OXIMETER is uses a multi-functional oxyhemoglobinometer to 

Oppositely, pulse oxygen oximeter measure functional O2Hb saturation:

Functional O2Hb saturation = O2Hb RHb + O2Hb X100

Present SpO<sub>2</sub> oximeter transmits light of two wavelengths only, red light and infrared, to differentiate HbO<sub>2</sub> from HbR. One side of the sensor contains two LEDs, and the other side contains a photoelectric detector. SpO<sub>2</sub> oximeter measures HbO<sub>2</sub> saturation in the blood by the light plethysmograph when the pulse beats. The result is quite precise when HbO<sub>2</sub> saturation is between 70% to 100%.

## Clinical Restrictions

1) As the measure is taken on the basis of arteriole pulse, substantial pulsating blood flow of

As the firms are called in the cases or all effective successions and pushing mutan from the case of t determination by this monitor may be inaccurate.

determination by this monitor may be inaccurate. The drugs like dopamine, procaine, prilocaine, lidocaine and butacaine may also be a major factor blamed for serious error of SpO; measure. The SpO; value serves only as a reference value for judgement of anemic anoxia and toxic anoxia, some patients with serious anemia may also report good SpO; measurement.

- Keep the oximeter away from dust, vibration, corrosive substances, explosive materials, high temperature and moisture.
   If the oximeter gets wet, please stop using.
   When it is carried from cold environment to warm and 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's Manual for instructions of cleaning and disinfection.
   Do not have the oximeter immerged in liquid. When it needs cleaning, please wipe its surface with disinfect solution by soft material. Do not spray any liquid on the device
- directly.
   When cleaning the device with water, the temperature should be less than 60°C.

Remove the instrument of PULSE OXIMETER from the shipping carton and examine for signs of shipping damage. Please check all materials against the packing list. Save the invoice, bill of lading and all packing materials. These may be required if it is necessary to process a claim

If anything is missing or damaged, please contact the Technical Service Department. You can contact by:

Phone: +86 755 61120085 Fax: +86 755 61120055 Email: user07@med-linket.com

## Included in the package:

Description	l Qtv
PULSE OXIMETER (instrument)	1 Piece
PULSE OXIMETER Operator's Manual	1 Piece
Sling	1 Piece
Temperature probe(model W0024E by default): Disposable Skin-surface Temperature Probe, 0.9m.	1 Piece

# Section 2- Operation

# Installation and Verification

## Battery installation

Caution: The Pulse Orimeter does not operate with dead batteries and can not be powered by external power source does not input outer power. Install new batteries.

Install new batteries.

I Unplug all accessories from the Pulse Oximeter, and press the menu bar to access the Setting Interface, turn the PULSE OXIMETER off. See table 1.

Pull the battery downward, toward the bottom of the PULSE OXIMETER, and remove the battery

- access door. See Figure 4.

  Insert two "AAA" size batteries, making sure the battery's positive and negative poles are correctly oriented in the holder as shown in Figure 4.

  Closing the battery rear cover.



Figure 4: Installing Batteries

WARNING: Explosion hazard. Do not use the PULSE OXIMETER in the presence of flammable anesthetics mixed with air, with oxygen, or nitrous oxide.

WARNING: To ensure accurate performance and prevent device failure, do not expose the PULSE OXIMETER to extreme moisture such as rain.

Performance Verification

. Performance Tests

The power-up performance test verifies that the PULSE OXIMETER is ready for patient monitoring. 2. Power-On Self-Test

Foreign the PULSE OXIMETER, you must verify that the PULSE OXIMETER is working properly and is safe to use. Proper working conditions are verified each time when the PULSE OXIMETER is turned on as described in the following procedure. The verification procedure (POST) takes 2 to 3 seconds to complete.

Caution: If any indicator or display element does not light when the PULSE OXIMETER is turned on, do not use the PULSE OXIMETER. Instead, contact qualified service personnel, your local MED-LINKET representative, or MED-LINKET's rehenical Services Department.

Note: Physiological conditions, medical procedures, or external agents that may interfere with the PULSE OXIMETER's ability to detect and show measurements, including dysfunctional hemoglobin, arterial dyes, low perfusion, dark pigment, and externally applied coloring agents such as nail polish, dye, or pigmented cream.

Note: The Pulse Oximeter automatically starts the Power-On Self-Test (POST) to ensure that its internal circuits are functioning properl

Procedure

cedure
Turn on the PULSE OXIMETER by pressing the Menu button.
After the device completes the Power-On Self-Test (POST), it will directly switch to
measure interface.



Long press the button to switch device interface of PULSE OXIMETER, adjustment parameters. See table-1 on page2.

## General Operation

The PULSE OXIMETER can be measure functional oxygen saturation in the blood by itself or plug an accessory of MED-LINKET SpO<sub>2</sub> probe into the instrument. To measure the body temperature probe of MED-LINK. See table—1 on page 2.

Preparative for operating 1) Open up battery compartment cover carefully and then install two "AAA" Alkaline batteries according to the (+/-) electrodes.

Press the "power switch" key for 1 second to activate the device.

# SpO<sub>2</sub> measure

Jameasure
Open the clip of PULSE OXIMETER, See figure 5. ①.
Place a finger (The preferred application is middle finger and index finger) on the silicone (Ensure the finger position is correct that the LED (irradiancy) window against finger prominence and the accepting window against finger funula), see figure 5. ②, and then clip

the finger, see figure 5. ③.
Turn on the PULSE OXIMETER by pressing the Power button "
Get the information of SpO<sub>2</sub> directly from screen display.



Figure 5: measurement

The detail of setting see table - 1.

When put finger into the silicone cushions of the clip, make sure nail is upturned.

# Temperature measure

I) Plug the temperature probe connector side into the monitoring instrument's USB female connector receptacle, and then adhere the side of the temperature probe to patient's surface or Esophageal/Rectal for collect the temperature signal.

2) Get the information of Temperature directly from screen display.

# Safety

1) Safety

- Sately tributors 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. Please stop using the monitor when there is obvious damage.

  Necessary maintenance must be performed by qualified service engineers ONLY. Users

- Necessay maintenance must be performed by qualified service engineers ONLY. User expension are experimented to maintain it by themselves. The oximeter cannot be used together with devices not specified in User's Manual. Please use the device recommend by Manufacturer. At elevated ambient temperatures, patient skin could be severely burned after prolonged sensor application at sites that are not well perfused. To prevent this condition, be sure to check patient application sites frequently. All listed sensors operational without risk of exceeding 1.0 and the shift if the linital skin temperature does not
- Please remove the finger from the instrument to stop measure and pull the accessories from the instrument, then the PULSE OXIMETER will power off automatically within 8 seconds if the instrument must be closed for the urgent status.

# 2) Warnings

- Explosive hazard—DO NOT use the oximeter in environment with inflammable gas such as some ignitable anesthetic agents as some ignitable anesthetic agents are some converse or which the sesse is under measurement of MRI and CT. Be such as the converse of the sesse in the sesse in the session of the session

# The attention of Operation

- The equipment should be fully tested to see if it can be used normally before using. The finger should be placed properly (see figure 5 of this manual), or else it may cause inaccurate measurement. The SpO<sub>2</sub> sensor and photoelectric receiving tube should be arranged in a way with the
- testee's arteriole in a position in between.

  The SpO<sub>2</sub> sensor should not be used at a location or limb tied with arterial canal or
- The SpU; sensor should not be used at a location or limb fled with arterial canal or blood pressure cuff of receiving intravenous injected obstacles like rubberrized fabric; otherwise it may result in venous pulsation and inaccurate measure of SpO;. Excessive ambient light may affect the measuring result. It includes fluorescent lamp, dual ruby light, infrared heater, direct sunlight and ct. Strenuous action of the testee or extreme electrosurgical interference may also affect
- the accuracy Testee cannot use enamel or other makeup. Please clean and disinfect the device after operating according to the user manual.

Function Setting Introduction Press the Pulse Oximeter Menu button to power on and access to the testing interface, or press

the Menu button repeatedly during normal operation sequentially switch parameter-setting interfaces to set up the parameters and then return to the POST display. Settable parameters include high and low SpC<sub>2</sub> limit, high and low bpm limits, high and pulse beep volume. The device will power off automatically within 8 seconds when there is no any signals input, and can also use the menu button under parameter-setting interfaces to turn the PULSE OXIMETER OF The Control of the PULSE OXIMETER OF THE OXIMETER OXIME

## Menu Setting

Table 1: Instruction for Menu setting

Function	Instruction for operation	Figures
Power "on" and "off"	Power on Turn on the PULSE OXIMETER by pressing the Menu/Power button "  Power off setting Short press the button, move the cursor to	Temp-Pube Olimeter O

	Temp-Pulse Oximeter BZ0300A	
	select the item of "power off", and then long	
	press the button to turn the power off. Note:	
	The device will power off automatically within 8 seconds when there is no any signal input.	
Setting	Setting enter Long press the button to enter the interface of	
enter and exit	settings	Alm Setupl
exit	The setting interface of PULSE OXIMETER includes "Alm Setup 1", "Alm Setup 2" and	
	Sounds Setup".	Restore * OK
	Exit PULSE OXIMETER setting interface	E AIU
	<ul> <li>Short press the button, move the cursor to select the item of "Exit", long press the</li> </ul>	
	button return to the POST display.	
" Alm "	Alm on or off setting	
on or off	<ul> <li>Short time presses the menu button to enter the interface of settings of "Alm Setup 1".</li> <li>Move the cursor select the item of "Alm",</li> </ul>	Alm Settings Alm Setupl Alm Setupl Beep * off
setting	Move the cursor select the item of "Alm",	
	and then long press the button turn the functions on or off.	Restore OK
	<ul> <li>Short press the button, move the cursor to</li> </ul>	E xit
	<ul> <li>Short press the button, move the cursor to select the item of "Exit", and then long press the button return to the POST display.</li> </ul>	Sattings
"Beep" on	"Beep" on or off setting	Alm Setupl on Seep wer off
or off	Short press the button, move the cursor to	Beep off * off Restore OK
setting	select the item of "Beep", and then long press	E xit
	the button to turn the functions on or off.	
Default	Default setting Short press the button, move the cursor to select	the item of "Restore".
setting	then long press the button to returns the PULSE O	XIMETER to factory
	default setting.  After completing the setting, the interface will ind	icate "OK".
	After completing the setting, the interface will ind Move the cursor to select the item of "Exit" by sho	ort press the button, and
	then long press the button to return to the POST of	lisplay.
	C-uti-	Settings
	Alm Setupi on Alm Se	on.
	Alm Setupl Alm Se Alm on Beep Power off Beep Power	Settings ctupl on off
	Alm Settings Alm Settings Alm Setup1  On Beep Cower off Restore Exit	off off off e * 0K
	Restore *	e w OK
SpO <sub>2</sub> High	Restore *  SpO <sub>2</sub> High Limit setting	Exit * OK
Limit	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Men Setup 2" Short press the	Exit * OK
	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Men Setup 2" Short press the	Exit * OK
Limit	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the settings of "Aim Setup 2". Short press the "SpO <sub>2</sub> Aim Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to	Exit * OK
Limit	SpO <sub>3</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the button, move the cursor to select the item of "SpO <sub>2</sub> Aim If, long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.	Exit * OK  Exit * OK  Settings  Sp02 Jun Fi  Sp02 Jun Fi  Fi Jun F
Limit	DO, High Limit setting  SAD, SAD, SAD, SAD, SAD, SAD, SAD, SAD,	Exit * OK Exit   Settings   Setti
Limit setting SpO <sub>2</sub> Low Limit	SpO <sub>3</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the button, move the cursor to select the item of "SpO <sub>3</sub> Aim High, long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>3</sub> Low Limit setting SpO <sub>3</sub> Low Limit setting	Exit * OK Exit   Settings   Setti
Limit setting SpO <sub>2</sub> Low	SpO <sub>2</sub> High Limit setting Long press the button of enter the interface of Long press the button of enter the interface of Long press the button of enter the button, move the cursor to select the item of "SpO <sub>2</sub> Alm Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 1.00%.  SpO <sub>2</sub> Low Limit setting Short press the button in the interface of "Alm Setup 2", mow the cursor to select the item of	Exit * OK Exit   Settings   Setti
Limit setting SpO <sub>2</sub> Low Limit	SpO <sub>2</sub> High Limit setting Long press the button or enter the interface of Long press the button or enter the interface of Long press the button or enter the button, move the cursor to select the item of "SpO <sub>2</sub> Alm Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "SpO <sub>2</sub> Alm Lo", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to	Exit * OK  Exit * OK  Settings  Sp02 Jun Fi  Sp02 Jun Fi  Fi Jun F
Limit setting SpO <sub>2</sub> Low Limit	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the button to adjust the button, move the cursor to select the item of "SpO <sub>2</sub> Aim High, long press the button to adjust and set up 2", move the cursor to select the item of "SpO <sub>2</sub> Aim Lo", long press the button to adjust	Exit * 0K  Exit * 0K    Alm S Stitutus 8   S
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting SpO <sub>2</sub> Low	Exit * 0K  Exit * 0K    Alm S Sattlenes
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of sm Setup. Short press the setting the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low limit setting Short press the button in the interface of "Alm Setup. 2", move the cursor to select the item of "SpO <sub>2</sub> . Alm Lo", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup. 2", move the cursor to select the item of "Alm Setup. 2", move the cursor to select the item of "Alm Setup. 2", move the cursor to select the item of	Exit * 0K  Exit * 0K    Alm S Sattlenes
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the button to adjust the student of "SpO <sub>2</sub> Aim Fil," long press the button to adjust the student of "SpO <sub>2</sub> Aim Fil," long press the button to adjust the student of "SpO <sub>2</sub> Aim Fil," long press the button to adjust the student of "SpO <sub>2</sub> Aim Ci," long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of PRA Alm Hil," long press the button to adjust the parameter of SpO <sub>2</sub> in the student of the setup 2", move the cursor to select the item of "PRA Alm Hil," long press the button to adjust the	Exit * 0K  Exit * 0K    Alm S   Stribbus   S
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting	SpO <sub>2</sub> High Limit setting Long press the button or enter the interface of Long press the button or enter the interface of Long press the button or enter the interface of Long press the button or enter the Little property of the cursor to select the item of "SpO <sub>2</sub> Alm Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Short press the button in the interface of "Alm Setup 2", mow the cursor to select the item of "SpO <sub>2</sub> Alm Lo", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Hi", long press the button to adjust the arameter of BPM in the scope of 5-250bpm.	Exit * 0K    Simple Scale   10
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Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Pulse Rate (PR)	Spo. High Limit setting one other the interface of settings of "Alm Setup 2". Short press the button, one she button, one she clear the interface of settings of "Alm Setup 2". Short press the button in the button, mow the cursor to select the item of "Spo. Alm Hi", long press the button to adjust the parameter of \$pO, in the scope of \$0% to 100%.  Spo_ Low Limit setting Short press the button in the interface of "Alm Setup 2", mow the cursor to select the item of "Spo. Alm Lo", long press the button to adjust the parameter of \$pO, in the scope of \$50% to 100%.  Short press the button in the interface of "Alm Setup 2", mowe the cursor to select the item of "RAI mill", long press the button to adjust the parameter of BPM in the scope of \$-250bpm.  Short press the button in the interface of "Alm Setup 2", mowe the cursor to select the item of setup 2", mowe the cursor to select the item of setup 2", mowe the cursor to select the item of setup 2", mowe the cursor to select the item of setup 2", mowe the cursor to select the item of	Exit * 0K    Simple Scale   10
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit Limit setting	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of sim Setup 2". Short press the settings of sim Setup 2", short press the settings of sim Setup 2", short press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "SpO <sub>2</sub> . Alm Lo", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Lo", long press the button to adjust the Setup 2", move the cursor to select the item of "PR Alm Lo", long press the button to adjust the Setup 2", move the cursor to select the item of "PR Alm Lo", long press the button to adjust the	Exit * 0K  Exit * 0K    Simple
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Pulse Rate (PR)	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the settings of "Aim Setup 2". Short press the settings of "Aim Setup 2". Short press the form of "SpO <sub>2</sub> Aim Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Stort press the button in the interface of "Alm Setup 2", move the cursor to select the item of "SpO <sub>2</sub> Aim Ci <sub>2</sub> ", move the cursor to select the item of "PR Aim Hi", long press the button to adjust the parameter of BpM in the scope of 5-250bpm.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Aim Lio", long press the button to adjust the parameter of BpM in the scope of 5-250bpm.	Exit * OK  Exit * OK  Alm Services  Alm Serv
SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit setting  Temp	SpO <sub>2</sub> High Limit setting Long press the button or enter the interface of Long press the button or enter the interface of Long press the button or enter the interface of Long press the button or enter the interface of Long with the cursor to select the item of "SpO <sub>2</sub> Alm Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Short press the button in the interface of "Alm Setup 2", mowe the cursor to select the item of "SpO <sub>2</sub> Alm Lo", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Hi", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Lo", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of Short press the button in the interface of	Exit * 0K  Exit * 0K    Simple
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit setting  Tune Transport to the setting Transport to the setting Transport High Limit setting Transport High Limit to the setting Transport High	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Aim Setup 2". Short press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Aim Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Aim C <sub>1</sub> long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Aim Setup 2", move the cursor to select the item of "PR Aim Hi", long press the button to adjust the parameter of BpM in the scope of 5-250bpm.  Short press the button in the interface of "Aim Setup 2", move the cursor to select the item of "PR Aim Lo", long press the button to adjust the parameter of BpM in the scope of 5-250bpm.  Short press the button in the interface of "Sounds Setup", move the cursor to select the "Sounds Setup", move the cursor to set the "Sounds Setup", move the cursor to select the	Exit * 0K  Exit * 0K    Simple
SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit setting  Temp	SpO_High Limit setting  SpO_High Limit setting  sports be bettone on enter the interface of settings of "Aim Setup 2". Short press the button to adjust the parameter of \$pO_s in the scope of \$50% to 100%.  SpO_Low Limit setting Short press the button to adjust the parameter of \$pO_s in the scope of \$0% to 100%.  SpO_Low Limit setting Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "SpO_s Aim Lo", long press the button to adjust the parameter of \$pO_s in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Hi", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Lo", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Sounds Setup", move the cursor to select the item of "Sounds Setup", move the cursor to select the item of "Sounds Setup", move the cursor to select the item of "Emp Alm Hi", long press the button to	Exit * 0K    Sing S Settings   Sing Fine   Sing S Settings   Sing S Sett
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit setting  Tune Transport to the setting Transport to the setting Transport High Limit setting Transport High Limit to the setting Transport High	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of spoesh to the setting long press the button to enter the interface of spoesh to the setting long press the setting and the setting long long long long long long long lo	Exit * 0K  Exit * 0K    Simple
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Pulse Rate (PR)  Limit setting  Temp	Spo. High Limit setting.  Spo. High Limit setting on the properties of settings of "Alm Setup 2". Short press the button, mow the cursor to select the item of "Spo. Alm Hi", long press the button to adjust the parameter of Spo. in the scope of 50% to 100%.  Spo. Low Limit setting Short press the button to adjust the parameter of Spo. in the scope of 50% to 100%.  Spo. Low Limit setting Short press the button to adjust the parameter of Spo. in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", mowe the cursor to select the item of "PR Alm Hi", long press the button to adjust the parameter of BPM in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", mowe the cursor to select the item of "PR Alm Lo", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Spo. Short press the button in the interface of "Sounds Setup", move the cursor to select the item of "Spo. Alm Hi", long press the button to adjust the parameter of Alm Hi", long press the button to adjust the parameter of Alm Hill", long press the button to adjust the parameter of Idm Hill", long press the button to adjust the parameter of Idm Hill", long press the button to adjust the parameter of Idm Hill", long press the button to adjust the parameter of Idm Hill", long press the button to adjust the parameter of temperature in the scope of 10-45 C.	Exit * 0K  Exit * 0K    Simple   Simple
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Cow Limit setting  Pulse Rate (PR) Low Limit setting  Temp  Temp  Temp	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of Long press the button to enter the interface of Long press the button to enter the interface of Long press the button to enter the button to adjust the parameter of spO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Short press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "SpO <sub>2</sub> Alm Lo", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Hi", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "Sounds Setup", move the cursor to select the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Sounds Setup", move the cursor to select the item of "Temp Alm Hi", long press the button to adjust the parameter of temperature in the scope of 10-45 C. Short press the button in the interface of	Exit * 0K    Stribute   Stribute
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit setting  Temp High Limit setting  Temp low Limit setting	Spo. High Limit setting  Spo. High Limit setting  Spo. High Limit setting  Spo. High Limit setting  Spo. Sport Spo	Ling Settings Setting
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Cow Limit setting  Pulse Rate (PR) Low Limit setting  Temp  Temp  Temp	SpO <sub>2</sub> High Limit setting Long press the button of earlier the interface of Long press the button of earlier the interface of Long press the button of earlier the interface of Long press the button of the control of SpO <sub>2</sub> Aim Hi'', long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Short press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Aim Li", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Aim Lo", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "SpO <sub>3</sub> and "SpO <sub>4</sub> and	Sign   Southers   Sign
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit setting  Temp High Limit setting  Temp low Limit setting	Spo. High Limit setting  Spo. High Limit setting  Spo. High Limit setting  Spo. High Limit setting  Spo. Sport Spo	Ling Settings Setting
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Low Limit setting  Temp High Limit setting  Temp low Limit setting	Spo. High Limit setting  Spo. High Limit setting  Spo. High Limit setting  Spo. High Limit setting  Spo. Spo. Spo. Spo. Spo. Spo. Spo. Spo.	Sign   Sections   Se
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Limit setting  Pulse Rate (PR) Limit setting  Temp High Limit setting  Temp low Limit setting  Return to the POST	SpO <sub>2</sub> High Limit setting Long press the button of enter the interface of Long press the button of enter the interface of Long press the button of 2". Short press the Lutton, move the cursor to select the item of "SpO <sub>2</sub> Aim Hi", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low Limit setting Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "SpO <sub>2</sub> Aim Lo", long press the button to adjust the parameter of SpO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Hi", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Lo", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Sounds Setup", move the cursor to select the item of "Temp Alm Hi", long press the button to adjust the parameter of temperature in the scope of 10-45° C.  After completed above setting, press the button to adjust the parameter of temperature in the scope of 10-45° C.  After completed above setting, press the button to adjust the parameter of setting, move	Signature   Sections
Limit setting  SpO <sub>2</sub> Low Limit setting  Pulse Rate (PR) High Limit setting  Pulse Rate (PR) Limit setting  Pulse Rate (PR) Low Limit setting  Temp low Limit setting  Temp low Limit setting  Return to	SpO <sub>2</sub> High Limit setting Long press the button to enter the interface of settings of "Am Setup 2". Short press the settings of "Am Setup 2". Short press the of "SpO <sub>2</sub> Aim Hi", long press the button to adjust the parameter of spO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>2</sub> Low limit setting short press the button to adjust the parameter of spO <sub>2</sub> in the scope of 50% to 100%.  SpO <sub>3</sub> Low Limit setting short press the button to adjust the parameter of spO <sub>2</sub> in the scope of 50% to 100%.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Hi", long press the button to adjust the parameter of spO <sub>2</sub> in the scope of 5-250bpm.  Short press the button in the interface of "Alm Setup 2", move the cursor to select the item of "PR Alm Lo", long press the button to adjust the parameter of BPM in the scope of 5-250bpm.  Short press the button in the interface of "Sounds Setup", move the cursor to select the item of "Temp Alm Hi", long press the button to adjust the parameter of the parameter of temperature in the scope of 10-45 °C.  Short press the button in the interface of "Sounds Setup", move the cursor to select the item of "Temp Alm Hi", long press the button to adjust the parameter of temperature in the scope of 10-45 °C.  After completed above setting, press the	Sign S   Settings   Sign S   Sign F



warning.

Uncomfortable or painful feeling may appear if use 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 4 hours.

For the special patients, there should be a more prudent inspecting in the placing process. The

device cannot be clinned on the edema and tender tissue device cannot 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 cannot use enamel or other makeup.

Testees fingermail cannot be too long.

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

This device is not intended for treatment.

This device is not intended for treatment. The user is not allowed to repair the equipment. Changes or modification not expressly approved by Shenzhen Med-link may void the warranty. Removing the batteries to avoid battery leakage and device damage if long time no use. Note: The device has No Alarm System, just only warning signal is provided.

Section 3- Troubleshooting
This section explains how to troubleshoot the PULSE OXIMETER. Tables list possible PULSE OXIMETER

	th probable causes, and recommended acti	ions to correct the difficulties. Detailed
see table 3 as below.		
	Table 3—Troubleshooting	
Phenomena	Possible Causes	Solutions
abnormal booth	The power button did not press in	Re-press the power button in place,
of Pulse-Oximeter	place	and keep 1-2 seconds
(display screen	Not Install battery	Install battery
and transmitting	Battery use-out	Replace battery
tube of LCD	Install battery improperly	Check and re-install battery
presenting lights	Partial damage of Metal dome (which	Contact authorized distributors
off)	is directly connected to the battery).	
	Damage in Connection between	Contact authorized distributors
	mainboard and battery holder (i.e.	
	Damage in flexible printed circuit board	
	(FPCB) or break in soldering spot).	
No display on	With damage in display screen or break	Contact authorized distributors
screen, but the	in the connection spot of display	
transmitting tube	screen	
of LED lights on.		

No reading display on Pulse-Oximeter	Poor perfusion problem (generally, oscillator intensity has no display on screen, while the transmitting tube of LCD presenting lights on, and the finger insert in place)	If the oscillator intensity has no display on screen, Please, Adjust the finger position; Use your middle or index finger in preference; Warm your fingers;
	The transmitting tube of LED lights off	Contact authorized distributors
Fail auto-off	External Temp-probe is still working	Pull out the external temp-probe
	Damage in collection tube or other device parts.	Contact authorized distributors
Inaccurate Temp Measurement	The surface Temp-Probe did not firmly stick on the skin surface.	Stick the Temp-Probe on the proper measuring position by medical proof fabric
	Wrong position of Temp-Probe	Place the Temp-Probe in proper position according to the specification
	No enough measuring time	Keep the correct measuring method by 10 mins, and then get the result.

## Section 4- Electromagnetic Environment

Electromagnetic Interference Caution
This device has been tested and found to comply with the limits for medical devices to the IEC 60501-12 and MDD 93/42/EEC. These limits are designed to provide reasonable to the profile of the complete of the profile of the such interference, measurements may seem inappropriate or the monitor may not seem to

Electromagnetic Environment
The PULSE OXIMETER is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of the PULSE OXIMETER can ladiated in distributions are continued. The Custoffier of user of the POLSE CAMPILIA Carl help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the PULSE OXIMETER as recommended below, according to the maximum output of the communications equipment.

Washing:

PUISE OXIMETER should not be used adjacent to or stacked with other equipment and that if adjacent or stacked use is necessary, PUISE OXIMETER should be observed to verify normal operation in the configuration in which it will be used.

Table 4—Declaration electromagnetic emissions.

PULSE OXIMETER is intended for use in the electromagnetic environment specified below.

The customer or the user of the Oximeter probe should assure that it is used in such an

environment.		'
Emissions test	compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The PULSE OXIMETER uses RF energy for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR11	Class B	The PULSE OXIMETER is suitable for use in domestic establishment and in establishment directly connected to a low voltage power supply network which supplies buildings used for domestic purposes

# OGuidance & Declaration - Electromagnetic Immunity

Table 5—Guidance & Declaration — electromagnetic immunity The PULSE OXIMETER is intended for use in the electromagnetic environment specified

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 2 kV, ±4kV, ±8 kV, ±15 kV air	$\pm$ 8 kV contact $\pm$ 2 kV, $\pm$ 4kV, $\pm$ 8 kV, $\pm$ 15kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Radiated RF Electromagnetic fields IEC 61000-4-3	10 V/m 80MHz to 2.7GHz 80% AM at 1kHz	10 V/m	
Power frequency magnetic field IEC 61000-4-8	30 A/m 50 Hz or 60 Hz	30 A/m 50 Hz or 60 Hz	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

## Section 5- Measurement Validation

The Pulse eximeter accuracy has been validated in human studies against arterial blood sample reference measured with a CO-Oximeter. In a controlled desaturation study, healthy adult volunteers with saturation levels between 70% and 100% SaO2 were studied.

The population characteristics for those studies as follow table 6

Table 6—PULSE OXIMETER Clinical study Subject Demographics Record.						
Subject #	Gender	Age	Height (cm)	Weight (kg)	Skin Tone	Remark
1#	M	31	160	70	Light	Asian (Chinese)
2#	M	24	165	55	Light	Asian (Chinese)
3#	F	22	160	45	Light	Asian (Chinese)
4#	M	29	175	60	Medium Dark	Asian (Chinese)
5#	F	22	160	49	Light	Asian (Chinese)
6#	F	19	160	45	Light	Asian (Chinese)
7#	F	21	162	54	Light (White)	Caucasian
8#	M	34	192	102	Light (White)	Caucasian
9#	F	27	178	58	Light (White)	Caucasian
10#	M	23	178	78	Dark dark	African
11#	F	24	174	80	Dark dark	African
12#	M	26	169	65	Dark dark	African

## ARMS Results:

The final analysis was performed on 249 data points collected across 11 subjects. The SpO<sub>2</sub> accuracy performance of each pulse oximeter and sensor combination is identified below.

$$Arms = \sqrt{\frac{\sum_{i=1}^{n} (SpO2_{i} - SR_{i})^{2}}{n}}$$

## Where:

A<sub>RMS</sub> is the accuracy root mean square.

SpO2 is the test pulse oximeter readings during sample i.

SRi(RefSaO<sub>2</sub>) is the Average Reference CO-Oximeter functional oxygen saturation reading during sample i. n is the number of points. The detail of the Apps Results is below table 7 and table 8

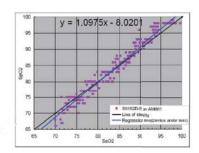
Table 7 -- overall Average Root Mean Square (ARMS) for PULSE OXIMETER in the SpO2 range of 70%-100%

76-10076.			
Compared to Avg. Reference CO-Oximeter, Functional SaO₂ Apr 6-8, 2012	Functional SaO <sub>2</sub> 70-100% A <sub>RMS</sub>	# of Points	Specification 70-100% A <sub>RMS</sub>
PULSE OXIMETER	1.92	241	Pass A <sub>RMS</sub> of 3

Table 8 -ARMS values measured by using PULSE OXIMETER in a clinical study.

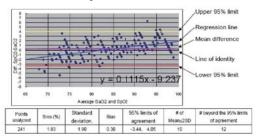
Compared to Avg. Reference CO-Oximeter, Functional SaO₂ Apr 6-8, 2012	SaO <sub>2</sub> ranges of 70-80% A <sub>RMS</sub>	SaO <sub>2</sub> ranges of 80-90% A <sub>RMS</sub>	SaO <sub>2</sub> ranges of 90-100% A <sub>RMS</sub>				
PULSE OXIMETER	2.20	1.87	1.66				

... Scatter plot of the data of PULSE OXIMETER to the Reference CO-Oximeter During Non-Motion Conditions



ttem.	70-100	90-100	80<90	70-<80
# pts	241	80	82	79
Bias	0.30	1.09	0.61	-0.80
Awa	1.92	1.66	1.87	2.20
Max diff	6.30			
Min diff	-5.50			

Bland-Altman Plot Comparing the SpO<sub>2</sub> Difference between the PULSE OXIMETER and the Reference CO-Oximeter During Non-Motion Conditions



# Section 6- Service and Maintenance

## Cleaning and Disinfecting

Clean the surface of the oxmeter by using a soft cloth dampened with either a commercial, non-abrasive cleaner or a solution of 70% isopropyl alcohol in water, and wiping it lightly the surfaces of the oximeter.

surfaces of the oximeter.

Please switch off pulse oximeter before cleaning. Clean the LED and photo-sensor with moist cloth or cotton ball and alcohol gently.

The aforementioned general cleaning process is not for infection prevention. Please contact the specialist for process of contagious infection.

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Please use the SpO<sub>2</sub> simulator of Fluke Biomedical index 2 to calibrate PULSE OXIMETER for the function of SpO<sub>2</sub> measure. The calibration must be operated to by qualified personnel only. Please use the Temperature simulator of BC Biomedical MULTI-PARAMETER PATIENT SIMULATOR operated calibrates PULSE OXIMETER for the function of temperature measure. This calibration

must be operated by qualified personnel only.

The SpO2 accuracy can be validated in human studies against arterial blood sample reference measured with a CO-oximeter. All of the process of the clinical study must be complied with standard of EN ISO806012-61:2011.

## Repairing and Maintenance

pairing and Maintenance Please change the batteries when the low-voltage indicator lightens. Please clean the surface of the device before using. Wipe the device with alcohol first, and then let it dry in air or clean it by dry clean fabric. Please take out the batteries if the oximeter is not in use for a long time. Please take out the batteries if the oximeter is not in use for a long time. The best storage environment of the device is -10°C to 40°C ambient temperature and not higher than 80% relative humidity. Please maintain properly for resuring the device can be used normally. The device needs to be calibrated once a year (or according to the calibrating program of hospital). It can also be performed at state-appointed agent or just contact us for calibration.

High-pressure sterilization cannot be used on the device.
 Do not immerse the device in liquid.
 It is recommended that the device should be kept in a dry environment. Humidity may reduce the using life, or even damage the device.

1) Used batteries should not be disposed of in the household rubbish. Used Batteries should be

deposited at a collection point.

At the end of its life, the appliance should not be disposed of in household rubbish. Enquire about the options for environment-friendly and appropriate disposal. Take local regulations

Our company warrants pulse eximeter at the time of its original purchase and for the subsequence

Our company warrants puse owmeter at the time or its onginal purchase and for the substime period of one year.

The warrant for the followings:

The device series number label is torn off or cannot be recognized.

Damage to the device resulting from misconnection with other devices.

Damage to the device resulting from accidents.

Changes performed by users without the prior written authorization of the company.



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