User Manual **HERZ P1**

Herz P1 Smart Oximeter
Fingertip Pulse Oximeter

2×1.5V AAA
INCLUDED

Model: YK-80A, YK-80B, YK-80C, YK-81A, YK-81B, YK-81C, YK-82A, YK-82B, YK-82C, YK-83A, YK-83B, YK-83C, YK-84A, YK-84B, YK-84C, YK-81CEU

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1 Product Introduction

This Fingertip Pulse Oximeter is a kind of innovated medical device with non-invasive features for artery SPO2 and PR detection. Being portable, it is able to measure SPO2 and PR values quickly and precisely.

1.1General Description

Haemoglobin Saturation is the percentage between the capacity of Oxyhemoglobin (HbO2) that compounded with oxygen and that of all combinativable haemoglobin (Hb) in blood. In other words, it is the saturation of Oxyhemoglobin in blood. It is a very important physiological parameter for Respiratory and Circulation Systems. Many respiratory diseases could reduce haemoglobin saturation in human blood. Moreover, factors such as Automatic Organic Regulation Malfunction caused by anaesthesia, trauma resulted from major operation and some medical examination can also cause problems in oxygen supply, which might reduce human haemoglobin saturation. As a result, such symptoms as megrim, vomiting and asthenia might appear to patients. Hence, it is very important to know hemoglobin saturation of patient timely in clinical medical aspects. The fingertip pulse oximeter features in small size, low power consumption, convenient operation and portability. It is only necessary for patient to put one finger into fingertip photoelectric sensor for measurement, and the display screen will directly show measured value of hemoglobin saturation. It has been proved in clinical experiments that it possesses rather high precision and repeatability.

1.2 Intended purpose

The fingertip pulse oximeter can be used to measure human haemoglobin saturation and pulse rate of adult through finger.It is expected for hospitals, families, schools and medical centers.

1.3 Contraindication

Not found

Note

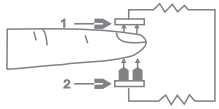
- The image in the instruction may have slight differences with the actual instruments.
- Technical parameters and appearance change, without prior notice.

1.4 Product include

Main unit and SpO2 sensor.

1.5 Measurement principle

The principle of the oximeter is as follows: An experience formula of data process is established by exerting Lambert Beer Law according to Spectrum Absorption Characteristics of Reductive hemoglobin and oxyhemoglobin(HbO2)in red light and infrared light zones. Operation principle of the instrument is to combine Photoelectric Oxyhemoglobin Inspection Technology with Capacity Pulse Scanning and Recording Technology, so that two lights with different wavelength (660nm red light and 940nm infrared light) can be focused onto human nail through perspective clamp finger-type sensor. Then measured signal can be obtained by a photosensitive element, information acquired through which will be shown on two groups of diodes through process in electronic circuits and microprocessor.



1.6 Diagram of Operation Principle

1.Red-ray and Infrared-ray receiving diode
2.Red-ray and Infrared-ray transmitting diode

1.7 Precautions for use

Warning

(1)Do not use the oximeter together with MRI or CT equipment.
(2)Do not use the oximeter in the presence of flammable anesthetics or other flammable substances, oxygen-enriched environments, or nitrous oxide to avoid the risk of explosion.
(3)The oximeter is intended only as an adjunct in patient assessment.Doctors should make diagnosis in conjunction with clinical manifestation and symptoms.
(4)Check the oximeter sensor application site frequently to make sure that the circulation and skin integrality of patient are under good condition.
(5)The sensor of the oximeter is not suitable for contacting the adhesive tape, which may lead to the error of measurement data or mistaking that there are blisters on the tested skin.
(6)Please read the manual carefully before your operation.
(7)The oximeter has no SpO2 alarm, it is not for continuous monitoring,using during motion or using with low perfusion.
(8)Check the sensor site every at least every 2 hours to ensure adequate blood circulation, intact skin, and appropriate sensor location. Otherwise, it may cause skin damage, compressive necrosis, or inaccurate measurement readings.
(9)Inaccurate measurements may be caused by autoclaving, ethylene oxide sterilizing, or immersing the sensors in liquid.
(10)Significant levels of dysfunctional hemoglobins (such as carboxyl-hemoglobin or methemoglobin) may cause inaccurate reading.
(11)Intravascular dyes such as indocyanine green or methylene blue may cause inaccurate reading.
(12)SpO2 measurements may be adversely affected in the presence of high ambient light. Please shield the sensor area (with a surgical towel or direct sunlight, for example) if it is necessary.
(13)Unexpected action may cause inaccurate reading.
(14)Medical signal with high frequency or interference caused by defibrillator may lead to inaccurate reading.
(15)Venous pulsations may cause inaccurate reading.
(16)It may cause inaccurate reading when the positions of sensor and blood pressure cuff are on the same arterial catheter or intravascular line.
(17)Hypotension, severe vasoconstriction, severe anemia, or hypothermia may cause inaccurate reading.
(18)It may cause inaccurate reading by giving use of cardiotonic to patient after his cardiac arrest or when he is in quiver.
(19)Bright nail or painted nail may cause inaccurate SpO2 reading.
(20)Do not use this oximeter if you are allergic to ABS, black silicone pad and other materials.
(21)If the performance is inconsistent with the description or changes, stop using immediately and contact the manufacturer.
(22)Measuring function should not be used to evaluate oximeter accuracy.
(23)The effects of degraded sensors and electrodes, or loosened electrodes, that can degrade performance or cause other problems.
(24)Please place the oximeter in a place where children, pets, etc. can not be touched, so as to prevent falling, biting and affecting the product performance.
(25)Do not use beyond the service life of the device, otherwise the accuracy of the device will be affected.
(26)No modification of this equipment is allowed.
(27)Oximeter should be avoided in places with poor ventilation and high dust and lint content.
(28)The products should be avoided direct sunlight and strong light sources.
(29)The oximeter cannot be serviced and maintained during use.
(30)The oximeter can be maintained and calibrated once every two years, and the basic safety and basic performance of the oximeter have been guaranteed.
(31)The maximum temperature of the contact surface between the product and human body does not exceed 105.8 °F (41 °C).
(32)The device is not intended for use in intensive care unit environments and emergency healthcare environments.

1.8 Term abbreviation

SpO2:Blood oxygen saturation
PR:Pulse rate

2 Features

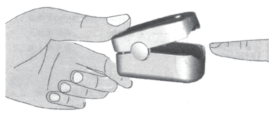
◆ OLED display

(1)Product adopts double color OLED display,can show the six different display mode.
【Note:if the device equipped with gravity sensor, it can show four different display mode】
(2)Low-power consumption, continuously work for more than six hours with two AAA batteries
(3)Low voltage indicator
(4)In the absence of signals, the product will be in after 8 seconds to enter standby state.
(5)Small size, light weight, and convenient to carry.

3 Operation Instructions

3.1 Operation method

(1)Check oximeter integrity(Package damaged,device broken, device failure,expiry date) before use.
(2)Check the storage condition and working condition before use.
(3)Install two AAA batteries into battery case at the bottom side of the device.
(4)Plug one finger into the rubber hole of the oximeter (it is best to plug the finger thoroughly).
(5)Press the button on the front panel of the oximeter.
(6)Don't move your finger and stay still as possible during the measurement.
(7)Press the button on the front panel, if you want change display direction.
Note: if equipped with gravity sensor and will change the display direction automatically.
(8)Read the measured data from display screen.
(9)Remove the device from your finger. The device will turn off automatically after 8 seconds.
(10)Please replace new batteries when OLED indicates the batteries are in low power.



Note: When placing your finger into the Oximeter, your nail surface must be upward.
Your finger must be clean for a proper reading(Use 75% alcohol to clean your finger, before and after each test).
Declaration: The rubber inside of the Oximeter adopts medical rubber, which has no toxin, no harm, and brings no side effect such as allergy to the our skin.

3.2 Battery installation

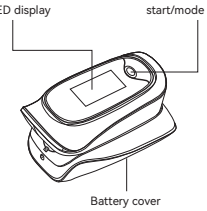
(1)Place two AAA batteries into the battery compartment, according to the negative and positive signs
(2)Push the battery cover horizontally in the direction of the arrow at the bottom.
Note: pay attention to the battery positive and negative polarity, batteries must be installed correctly, otherwise it may cause damage to device.

3.3 Lanyard installation

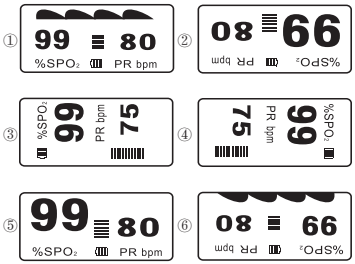
(1)Put the lanyard thin end through the hole.
(2)Put the lanyard coarser end through the thin end part and tighten.

3.4 Brief Description of Front Panel

(1)Put the lanyard thin end through the hole.
(2)Put the lanyard coarser end through the thin end part and tighten.



◆ OLED display modes:



Button function description: in standby mode, press the button to turn on the device into the working mode, while in working mode,press the button to change between display modes.

Note

- For models equipped with gravity sensor, only display modes only1-4 are available.
- The device profile picture is for reference only. Different models may look slightly different.

3.5 Parameter setup

Press the button (>3s) , into parameter setup .As menu ①:
1.In menu ①, When the "*" signal is shown on the "Alm Setup", press the button (>3s) and enter into the menu ②. Press the button (<1s) can select item, then press button (>3s) to set the on/off for prompt ,beep,demo and screen brightness adjustment (optional "1" ," 2 "," 3 "and" 4 "). When the "*" signal is shown on the "Restore",press the button (>3s) and all the settings are back to the factory settings.

Attention

- Using devices outdoors or under strong light, please adjust the screen brightness to a higher proper level for observation.
- It's better for user to choose a lower brightness to conserve battery power.

2. In menu ②, When the "*"signal is shown on the "Sounds Setup", press the button (>3s) and enter into the menu ②, Press the button (<1s) can select item ,then press the button (>3s) to setup data.choose "+"or"-" to plus or minus values.

Settings	
Alm Setup	*
Alm	off
Beep	off
Demo	off
Restore	OK
Brightness	3
Exit	

Menu ①

Settings	
Sounds Setup	*
Spo2 Alm Hi	99
Spo2 Alm Lo	85
PR Alm Hi	130
PR Alm Lo	50
+/-	+
Exit	

Menu ②

4 Descriptions of Technical Parameters

4.1 Main technical parameters

(1)Display Type: OLED display
(2)SpO2: Measurement range: 70%～100%
Accuracy: 80%～100%:±2% (Including 80%);
70%～79%: ±3% ;
Below 70% no requirement;
Resolution: 1%
(3)PR: Measurement range: 30BPM～254BPM
Accuracy: ≤100BPM ,±1BPM
>100BPM ,±2BPM
Resolution: 1BPM
(4)Sensor specifications

	Wavelength	Radiation power
RED	Approx. 660nm	1.8mW
IR	Approx. 940nm	2.0mW

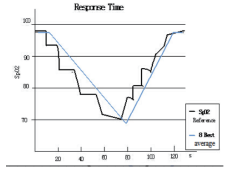
The parameter can be especially useful to clinicians.
(5)Power: DC 3V, two AAA 1.5V batteries
(6)Automatic standby: the device shuts off by itself when no finger is in the product about 8 seconds.
(7)Gravity sensing function: finger movement, the screen display will change with the gravity sensing changes. (optional)
(8)Dimension and weight

Model	Dimension	Weight
YK-80A,YK-80B,YK-80C	Approx. 58*36*32mm (2.28x1.42x1.26 in)	Approx.26.5g (0.93 oz)
YK-81A,YK-81B,YK-81C, YK-81CEU	Approx. 58*35*31.5mm (2.28x1.38x1.24 in)	Approx.33.0g (1.16 oz)
YK-82A,YK-82B,YK-82C	Approx. 57.7*35.9*30mm (2.27x1.41x1.18 in)	Approx.26.6g (0.94 oz)
YK-83A,YK-83B,YK-83C	Approx.58*35.4*31.5mm (2.28x1.39x1.24 in)	Approx.29.6g (1.04 oz)
YK-84A,YK-84B,YK-84C	Approx.57.9*35.8*30mm (2.28x1.41x1.18 in)	Approx.27.0g (0.95 oz)

(9)Operation environment:
Temperature: 41°F~104°F (5°C~40°C)
Humidity: 15%RH ~ 80%RH,no condensing
Atmospheric pressure: 70kPa ~ 106kPa
Transport, storage environment:
Temperature: 14 °F to 104 °F (−10 °C to 40 °C)
Humidity: 10%RH~ 95%RH,no condensing
Atmospheric pressure: 70kPa ~ 106kPa, non-corrosive gas and well-ventilated environment.
(10)Declaration: EMC of this product comply with IEC60601-1-2 standard.
(11)The date update period :＜12S
(12) The time required for equipment to warm/cool from the minimum/maximum storage temperature between uses until it is ready for intended use: about 30min
(13)Applied parts specified: Probe and its circuit.
(14) The oximeter uses digital filtering and signal correlation technology to process the pulse waveform signal, which is normalized.
(15)Service life:5 years
(16)Use specification

Expected medical instructions	The fingertip pulse oximeter can be used to measure human haemoglobin saturation and pulse rate through finger.
Intented Patients	Adult.
Expected use or interaction with body parts tissue type	Finger
Intended users	Home users or professional clinical staffs
Application environment	Avoid electromagnetic interference Extreme temperature Avoid pollution and dust Avoid direct sunlight, etc
Operating principle	Operation principle of the device is to combine Photoelectric Oxyhemoglobin Inspection Technology with Capacity Pulse Scanning and Recording Technology, so that two lights with different wavelength (660nm glow and 940nm near infrared light) can be focused onto human nail through perspective clamp finger-type sensor. Then measured signal can be obtained by a photosensitive element, information acquired through which will be shown on two groups of diodes through process in electronic circuits and microprocessor.

(17)Device response time



(18)Determination of Oxygen Saturation Accuracy
The claimed oxygen saturation is supported by coverage of the entire range of clinical research measurements.
1.For each claimed range, the oxygen saturation accuracy(Arms)of the pulse oximeter should be represented in the form of mean root square of the difference between the measured values (SpO2i)of oxygen saturation and the reference value(SRi). The formula is as follows:

$$A_{rms} = \sqrt{\frac{\sum_{i=1}^{n}\left(SpO_{2i} - S_{Ri}\right)^2}{n}}$$

2.The technology used in oximeter has been verified with accuracy when there is no motion via human blood studies on healthy volunteers of both male and female with light to dark pigmented skin in induced hypoxia studies in the range of 70%~100% SpO2 against a laboratory co-oximeter.

◆ Characteristics of Population under Clinical Investigation

The clinical investigation report contains data from 14 healthy volunteers-10 women and 4 men.The ages ranged from 18 to 50 years.The Skin tones included in the study were as follows: 4 subjects with dark pigmentation, 6 subject with very light pigmentation. The remaining subjects with light (medium) skin tones of Asian origins.

3.Because pulse oximeter equipment measurements are statistically distributed,only about two-thirds of pulse oximeter equipment measurements can be expected to fall within Arms of the value measured by a co-oximeter.

4.The pulse oximeter is calibrated to display functional oxygen saturation.

5.The pulse rate accuracy of this oximeter is compared with the heart rate measured by ECG of the Patient Monitoring Devices.

(19)Accessories:2 AA A alkaline batteries(optional)

4.2 Classification

1.Medical device classification： Class IIa

2.Anti-electric Shock Type: Internally powered equipment

3.Anti-electric Shock Degree: Type BF

4.Degrees of protection provided by enclosures(IP code)： IP22

5.Over-voltage category classification:Class I

6.Pollution degree:Pollution degree2:Micro-environment with non-conductive pollution,expect occasional conductivity caused by condensation

Manufacturer's Declaration of the EUT

Statement:

The oximeter or user should use the product in the electromagnetic environment specified in the following table, otherwise it may cause abnormal operation of the device.

●Warning:Portable RF communications equipment (including peripherals such as antenna cables and external antennas)should be used no closer than 30cm(12 inches)to any part of theoximeter ,including cables specified by the manufacturer.Otherwise, degradation of the performance of this oximeter could result.

●Warning:Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation.If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

●Warning:Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

●The essential performance of this device:

SpO_2	Measurement range: 70%～100%	Accuracy： 80%～100%: ±2% (Including 80%); 70%～79%: ±3%
PR	Measurement range: 30BPM～254BPM	Accuracy： ≤100BPM ,±1BPM >100BPM ,±2BPM

Guidance and manufacturer´s declaration – electromagnetic emission – for all EQUIPMENT AND SYSTEMS

Guidance and manufacturer´s declaration – electromagnetic emission	
The device is intended for use in the electromagnetic environment specified below. The customer or the user of device should assure that it is used in such an environment.	
Emissions test	Compliance
RF emissions CISPR 11	Group 1 Class B
RF emissions CISPR 11	N/A
Harmonic emissions IEC 61000-3-2	N/A
Voltage fluctuations /flicker emissions IEC 61000-3-3	N/A

Guidance and manufacturer's declaration – electromagnetic immunity –for all EQUIPMENT and SYSTEMS

Guidance and manufacturer's declaration – electromagnetic immunity		
The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.		
Immunity test	EN 60601 test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15kV air
Radiated RF EM fields IEC61000-4-3	10 V/m[f]) 80 MHz – 2,7 GHz[b]) 80 % AM at 1 kHz[c])	10 V/m[f]) 80 MHz – 2,7 GHz[b]) 80 % AM at 1 kHz[c])
Proximity fields from RF wireless communications equipment IEC61000-4-3	Table 3	Table 3
Electrostatic transient / burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	N/A
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	N/A
Conducted RF IEC 61000-4-6	3 V 0, 15 MHz -80 MHz 6 V in ISM and amateur radio bands between 0, 15 MHz and 80 MHz 80 % AM at 1 kHz	N/A

5 Maintenace and Preservation

(1)Replace the batteries timely when the low battery indicator flashes.

(2)Remove the batteries when the oximeter is not likely to be used for some time as leakage from batteries would result in an unacceptable risk.

(3)Keep the product in -10~40℃ (14-104℉) and humidity of 10%-95%.

(4)It is recommended that the product should be kept dry anytime. A wet ambience might affect its lifetime and even damage the product.

(5)The device has been calibrated before leaving the factory, and the user does not need to calibrate it again during use. If the user needs to verify the oximeter during maintenance, the simulator of FLUKE Index2 can be used for verification. Please contact the manufacturer to provide the verification curve.

(6)Maintenance method

●If the oximeter is dirty when used at home, it is recommended to wipe the enclosure and rubber pad with soft cloth moistened with clear water before and after each use,if the oximeter is not dirty, simply wipe the rubber pad with soft cloth moistened with clear water before and after each use ,then dry naturally or wipe it with dry cloth.

●When used in a medical institutions, wipe the enclosure and rubber pad with soft cloth moistened with clear water before and after each use,then dry naturally or wipe it with dry cloth.

●Do not pour or spray liquids onto the oximeter, and do not allow any liquid to enter any openings in the device. Allow the oximeter to dry thoroughly before reuse.

(7)Waste disposal

●Please follow local laws to dispose of waste scrap.

●Follow local ordinances and recycling instructions regarding to disposal or recycling of the device and device components, including used batteries and packaging box.

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % U_T; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % U_T; 1 cycle and 70 % U_T; 25/30 cycles Single phase: at 0° 0 % U_T; 250/300 cycle	N/A
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m
Proximity magnetic fields IEC61000-4-39	Table 4	Table 4

NOTE U_T is the a. c. mains voltage prior to application of the test level.

Table 3 – Test specifications for enclosure port immunity to RF wireless communications equipment

Test frequency (MHz)	Band[a]) (MHz)	Service[a])	Modulation[b])	Immunity TEST LEVEL (V/m)
385	380 -390	TETRA 400	Pulse modulation[b]) 18 Hz	27
450	430 - 470	GMRS 460, FRS 460	FM[c]) ± 5 kHz deviation 1 kHz sine	28
710	704 - 787	LTE Band 13, 17	Pulse modulation[b]) 217 Hz	9
745				
780				
810	800 - 960	GSM 800/900. TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation[b]) 18 Hz	28
870				
930				
1 720	1 700-1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3 4, 25; UMTS	Pulse modulation[b]) 217 Hz	28
1 845				
1 970				
2450	2 400-2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation[b]) 217 Hz	28
5 240	5 100-5 800	WLAN 802.11 a/n	Pulse modulation[b]) 217 Hz	9
5 500				
5 785				

If necessary to achieve the IMMUNITY TEST LEVEL ,the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61 000-4-3

a)For some services, only the uplink frequencies are included.
b)The carrier shall be modulated using a 50 % duty cycle square wave signal.
c)As an alternative to FM modulation, the carrier may be pulse modulated using a 50 % duty cycle square wave signal at 1 8 Hz. While it does not represent actual modulation, it would be worst case.

Table 4 – Test specifications for ENCLOSURE PORT IMMUNITY to proximity magnetic fields

Test frequency	Modulation	I MMUNITY TEST LEVEL (A/m)
30 kHz[a])	CW	8
1 34,2 kHz	Pulse modulation[b]) 2,1 kHz	65[c])
1 3,56 MHz	Pulse modulation[b]) 50 kHz	7,5[c])

a)This test is applicable only to ME EQUIPMENT and ME SYSTEMS intended for use in the HOME HEALTHCARE ENVIRONMENT
b)The carrier shall be modulated using a 50 % duty cycle square wave signal.
c)r.m.s., before modulation is applied.

7 Possible Problems and Resolutions

Problem	Possible reason	Solution
SpO_2 or PR can not be shown normally	1.Finger is not plugged correctly 2.Patient's Oxyhemoglobin value is too low to be measured	1.Retry by plugging the finger 2.Try more times. If you can make sure there is no problem in the product, please go to hospital timely for exact diagnosis
SpO_2 or PR is shown unsteady	1.The finger might not be plugged deep enough 2.Finger is trembling or the patient is on movement status	1.Retry by plugging the finger 2.Please remain at rest
The Oximeter can not be turned on	1.Inadequate power or power off 2.Batteries might be installed incorrectly 3.The Oximeter might be damaged	1. Please replace the batteries 2.Please reinstall the batteries 3.Please contact with local customer service centre
Indication lamps are suddenly off	1.The product automatically shuts off when no signal is detected in 8 seconds 2.Inadequate power	1.Normal 2.Replace the batteries

8 Symbols and Definitions

Symbols	Definitions	Symbols	Definitions
	Type BF applied part		This device has no alarm function
	This way up		Humidity limitation
	Refer to instruction manual		Keep dry
	Caution	CE0123	CE mark
SN	Serial number	LOT	Batch code
	Date of manufacture		Temperature limit
	Manufacturer		Keep away from sunlight
	Stand-by	UDI	Unique Device Identifier
	Separate collection for electrical and electronic equipment		
	Not made with natural rubber latex		
IP22	Protected against solid foreign objects greater than 12.5mm in diameter and dripping water when tilted up to 15°		
#	Model number	MD	Medical device
EU REP	Authorized representative in the European Community / European Union		Use-by date
——	Signal inadequacy ①Indication of probe faults (open circuit condition or close circuit condition) ②Indication of Probe cable faults ③Indication of Probe cable extender faults		

9 Components

Components	Quantity
Fingertrip pulse oximeter	1 set
Lanyard	1 pc
User manual	1 pc
AAA battery（optional）	2pcs

10 Statement

●If you need maintenance, please contact the manufacturer

●The company can be in the form of email or other electronic files provide users with random files.

●A functional tester cannot be used to assess the accuracy of a pulse oximeter probe or a pulse oximeter monitor.

●Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

11 After-sales service

Ensure that users

● Please read user manual before using the device.

● According to the requirement of the instruction manual for the operation and daily maintenance, and make sure the machine power supply, and environmental requirements

Maintenance regulations

●To conform to the regulations, free maintenance within the scope of products, with warranty card for free maintenance.All that is beyond the scope of free maintenance product, provide paid services.

● With warranty card and shopping invoice,main machine for a year, accessories for three months are under free maintenance services from the date of purchase.

● Following does not belong to the scope of free maintenance

→ The fault caused by human factors, the damage.

→ Use the working environment that does not conform to the regulations of our company and cause damage.

→ The product is not disassembled or repaired by the authorized personnel of our company, resulting in damage.

→ Products beyond the warranty period.

Company Information

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