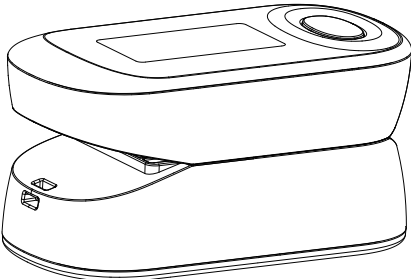
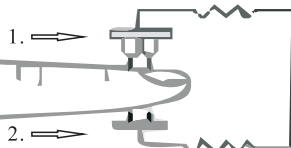
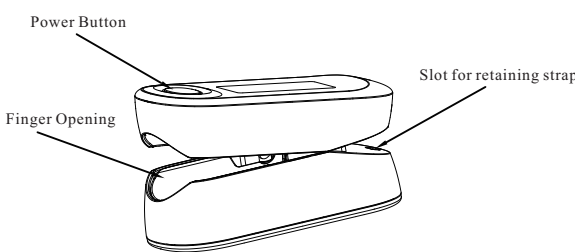
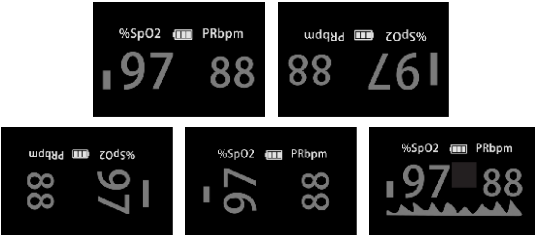
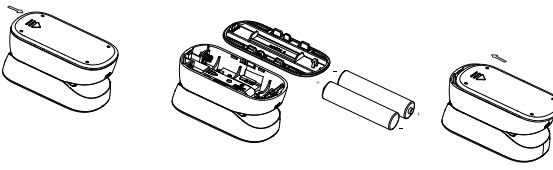
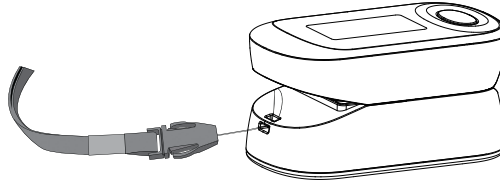
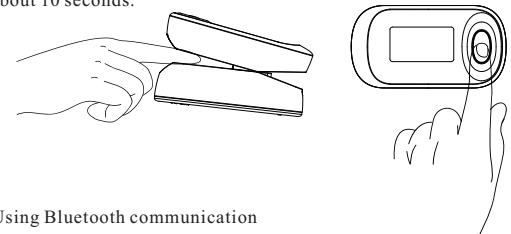



Owner's Manual Fingertip Pulse oximeter XM-103	Safety Notice	Important Testing Guidelines	Features	To Use	Cleaning and Maintenance
 <p>Document No.: JDXM-0304-052 Version: Z</p> <h3>General Description</h3> <p>CAUTION: Federal (U.S.) Law restricts this device to sale by or on the order of a physician.</p> <p>Oxygen binds to hemoglobin in red blood cells when moving through the lungs. It is transported throughout the body as arterial blood. A pulse oximeter uses two frequencies of light (red and infrared) to determine the percentage(%)of hemoglobin in the blood that is saturated with oxygen. The percentage is called blood oxygen saturation, or SpO2. A pulse oximeter also measures and displays the pulse rate at the same time it measures the SpO2 level.</p> <p>The oximeter is for prescription use or prescription home use. This device conforms to IEC6061-1, IEC60601-1-2, IEC60601-1-11, ISO 80601-2-61, IEC 62304, 47 FCC part 15C, ANSI C63.27.</p> <h3>Measurement Principle</h3> <p>PRINCIPLE of the oximeter is as follows: The pulse oximeter works by applying a pulsating arterioral vascular bed. The sensor contains a dual light source and photo detector. The one wavelength of light source is 660nm, which is red light the other is 905nm, which is infrared-red light skin, bone, tissue and venous vessels normally absorb a constant amount of light over time. The photo detector in finger sensor collects and converts the light into electronic signal which is proportional to the light intensity. The arterioral bed normally pulsates and absorbs variable amounts of light during systole and diastole, as blood volume increases and decreases. The ratio of light absorbed at systole and diastole is translated into an oxygen saturation measurement. This measurement is referred to as SpO2.</p> <h3>Diagram of Operation Principle</h3> <ol style="list-style-type: none"> Red and infrared-ray emission tube Red and infrared-ray receipt tube 	<ol style="list-style-type: none"> Before use,carefully read the manual. Do not use the pulse oximeter: <ul style="list-style-type: none"> -if you are allergic to rubber products. -if the device or finger is damp. -during MRI or CT scan. -while taking a blood pressure measurement on the arm. -nail polish, dirty, coating fingers and false nails applied fingers. -displays with anatomical changes, edemas, scars or burns. -Too big finger: the width of finger is over than 20mm and the thickness is over than 15mm. -Too small finger: the width of finger is less than 10mm and the thickness is less than 5mm. -Minors under 18 years oldl. -The environmental light changes strongly. -near flammable or explosive gas mixtures. Extended use may cause pain for people with circulatory disorders. Do not use the pulse oximeter for longer than two hours on one finger. Measurements are for your information only - they are no substitute for a medical examination. Check the pulse oximeter regularly before use to ensure that there is no visible damage and the batteries are still sufficiently charged. In case of doubt, do not use the device and contact customer services or authorized retailer. Do not use any additional parts that are not recommended by the manufacturer. Any circumstances do not open or repair the device by yourself! Failure to comply will result in voiding of the warranty. For repairs, please contact customer services or authorized retailer. Do not look directly inside the housing during the measurement. The red light and the invisible infrared light in the pulse oximeter are harmful to your eyes. This device is not intended for use by people (including children) with restricted physical, sensory or mental skills or a lack of experience or a lack of knowledge, unless they are supervised by a person who has responsibility for their safety or they receive instructions from that person on how to use the device. Children should be supervised around the device to ensure they do not play with it. If the unit has been stored at temperatures below 0°C, leave it in a warm place for about two hours before using it. If the unit has been stored at temperatures above 40°C, leave it in a cool place for about two hours before using it. Neither of the displays for the pulse wave and pulse bar allows the strength of the pulse or circulation to be evaluated at the measurement site. Rather, they are exclusively used to display the current visual signal variation of the measurement site and do not enable diagnosis for the pulse. Operation of the fingertip pulse oximeter may be affected by the use of an electrostimulatory unit (ESU). Follow local ordinances and recycling instructions regarding disposal or recycling of the device and device components, including batteries. This equipment complies with IEC 60601-1-2:2014 for electromagnetic compatibility for medical electrical equipment and systems. In healthcare center or other environment, their radio transmission equipment and electromagnetic interference may affect the performance of the oximeter. The oximeter contains radio communication function, it may affect other electronic medical equipment, so it should not be used close to or stacked with other equipment. This equipment is not intended for use during patient transport outside the healthcare facility. When the signal is not stable, the reading may inaccurate. Please do not reference. 	<ol style="list-style-type: none"> Non-observance of the following instructions can lead to incorrect or failed measurements <ul style="list-style-type: none"> -There must not be any nail polish, artificial nails or other cosmetics on the finger to be measured. - Ensure that the finger nail on the finger to be measured is short enough that the fingertip covers the sensor element in the housing. - Keep your hand, finger and body steady during the measurement. - In cases of carbon monoxide poisoning, the pulse oximeter will display a measurement value that is too high. - To avoid incorrect results, there should not be any strong light sources(e.g. fluorescent lamps or direct sunlight) in the immediate vicinity of the pulse oximeter. - Protect the pulse oximeter from dust, shocks, moisture, explosive materials. - Excessive patient movement. The following situations may cause inaccurate measurements <ul style="list-style-type: none"> - Significant levels of dysfunctional hemoglobin (such as carboxyl - hemoglobin or methemoglobin). - Venous pulsations. - Placement of a sensor on an extremity with a blood pressure cuff, arterial catheter, or intravascular line. - The patient has hypotension, severe vasoconstriction, severe anemia, or hypothermia. - The patient is in cardiac arrest or is in shock. - Weak pulse quality (low perfusion). - Low hemoglobin. <h3>Intended Use</h3> <p>The fingertip pulse oximeter is a portable non-invasive, spot-check, oxygen saturation of arterial hemoglobin and pulse rate of adult at home, and hospital (including clinical use in internist/surgery, anesthesia etc).</p> <h3>Unit Illustration</h3> <h3>Contents</h3> <ul style="list-style-type: none"> 1 x XM103 pulse oximeter 1 x Owner's Manual 1 x Retaining strap 1 x Storage Bag 2 x 1.5v AAA Batteries <h3>Monitor Unit</h3>  <h3>Display</h3> 	<ol style="list-style-type: none"> Simple to operate and convenient to carry. Small volume, light weight and low power consumption. Displays SpO2, PR, Pulse bar, and waveform. Level 1-5 adjustable brightness. 5.5 display modes. A low voltage warning will be indicated in visual window when battery voltage is so low that normal operation of the oximeter might be influenced. When it shows "Finger out", the pulse oximeter will power off automatically in 10 seconds. Beep. When the buzzer and reminder function are turned on, the numbers on the screen will flash when the reminder occurs, and the buzzer will beep. Bluetooth function. <h3>Unit Operation</h3> <h4>Battery Installation</h4> <p>Slide battery cover off as indicate by arrow. Install 2 new AAA alkaline batteries according to polarity. Close battery Cover.</p>  <p>Note: 1) Be sure to follow the correct polarity when installing the batteries. 2) Reversed batteries may cause damage to the device. 3) Use only the size and type of batteries specified. 3) Do not mix different types of batteries together or old batteries with fresh ones. Always replace batteries as a simultaneous set. 4) Replace the batteries in a timely manner when low voltage lamp is lighted. 5) If the batteries in the device are depleted or the device will not be used for a long period of time, remove the batteries to damage or injury from possible battery leakage. 6) Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. 7) Do not dispose of batteries in fire, batteries may explode or leak. 8) Keep batteries away from children and pets. Batteries may be harmful if swallowed. Should a child or pet swallow a battery, seek medical assistance immediately. 9) Please follow the law of the local government to deal with used batteries.</p> <h4>Attaching the retaining strap</h4>  <h3>System Settings</h3> <p>With power off, press the power button about 5 seconds to actuate system setting.</p> <p>Setting available for Tips, Beep, Language, Default, SpO2 Tips Lo, PR Tips Hi, PR Tips Lo and EXIT. Long press to enter the specific value setting, short press to switch among the settings items.</p> <div style="display: flex; justify-content: space-around;"> <div> Settings Tips + On Beep On Language EN Defaults </div> <div> Settings SpO2 Tips Lo + 90 PR Tips Hi 100 PR Tips Lo 50 Exit </div> </div>	<h3>To Use</h3> <p>CAUTION: Please make sure your finger size is appropriate (fingertip width is about 10–20 mm, thickness is about 5–15 mm)</p> <p>CAUTION: This device cannot be used in strong radiation environment. It can only be used after binding.</p> <p>CAUTION: This device cannot be used with other medical devices or non-medical devices.</p> <p>CAUTION: When placing your fingers, ensure your fingers can completely cover the LED transparent window in the finger clamp compartment.</p> <p>1.As shown in the figure, squeeze the clip of the pulse oximeter, fully insert your finger into the finger clip compartment, and then loosen the clip</p> <p>2.Press the power button one time on front panel to turn the pulse oximeter on.</p> <p>3.Keep your hands still for the reading. Do not shake your finger during the test. It is recommended that you do not move your body while taking a reading.</p> <p>4. Read the data from the display screen.</p> <p>5.To select your desired display brightness, press and hold the power button during operation until the brightness level changes.</p> <p>6. To choose among the various display formats, press the power button briefly during operation.</p> <p>7.If you remove the oximeter from your finger, it will shut off after about 10 seconds.</p>  <p>8.Using Bluetooth communication</p> <p>a)Download and install the"JOYTECH Healthcare" app from your smartphone's app store. Recommended App Store: recommend "Google store" for Android users, and recommend "App store" for IOS users.</p> <p>b)Open the App on your phone. If requested, you should enable Bluetooth on your phone. You can enable Bluetooth under the Settings menu on your smart phone.</p> <p>c>Create a new user account on the APP or use existed user name and password to login.</p> <p>d) Attention : First , turn on the oximeter and then click "not connected" on the APP. When the APP scans the Bluetooth of the oximeter, the icon and the name of the oximeter will be displayed on the APP. At this time, click "Pair this device" on the APP, when "connected" is displayed on the APP, the connection is successful. Note: To realize the connection between the designated mobile phone and the designated oximeter, it is necessary to ensure that all oximeters expect the designated oximeter are turned off.</p> <p>e)When your oximeter is connected successfully to your smart phone, The data transfer will begin automatically. The APP will display the received data from oximeter immediately without delay. Note: The monitor requires a smart device with: Android 5.0 or later, IOS9.0 or later.</p>  <p>9. APP Introduction</p> <p>As shown in the figure, this is an app icon.</p> <p>The APP interface can display blood oxygen value, pulse rate value, pulse waveform and historical data curve, historical data is sorted in the APP,When the user pulls out the finger from the oximeter, the APP will record the data once , The "Home" page of the APP can display Last 3 historical data , and the "Curve" page of the APP can display a graph with all of historical data of any date in the past. The oximeter can only send the data to APP, mutual control is not supported. When the Bluetooth connection is successful between the oximeter and the APP ,the APP cannot actively disconnect. The Bluetooth connection can only be disconnected when the oximeter is turned off or the Bluetooth of the mobile phone is turned off. Only when the original oximeter is disconnected, the APP can be paired with the new oximeter</p>	<ol style="list-style-type: none"> Please use medical alcohol to clean the silicone touching the finger inside of oximeter with a soft cloth dampened with 70% isopropyl alcohol. Also clean the being tested finger using alcohol before and after each test. 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. The fingertip pulse oximeter requires no routine calibration or maintenance other than replacement of batteries. The use life of the device is 3 years when it is used for 1 measurements every day and 15 minutes per one measurement Stop using and contact local service center if one of the following cases occurs: <ul style="list-style-type: none"> ● An error in the Possible Problems and solutions is displayed on screen. ● The oximeter cannot be powered on in any case and not the reasons of battery. ● There is a crack on the oximeter or damage on the display resulting readings cannot be identified; the spring is invalid or the key is unresponsive or unavailable. Cleaning and Disinfecting Cleaning procedures: <ol style="list-style-type: none"> Place the oximeter on a clean table and wipe the entire surface and upper and lower finger pads for 3 times by a white soft cloth dipped in 70%

Connection failure! Data is not transmitted

If there are no causes of data transmission interference found near the oximeter, move the oximeter with 16ft. (5m) of the smart device away again

The oximeter did not pair successfully to the smart device

Try to pair the devices once again

The application on the smart device is not ready

Specifications

Model	XM-103	
Display	OLED display	
SpO2	Display Range	0%~99%
	Measurement Range	70%~100%
	Accuracy	70%~100% ±2% 0%~69% no definition
	Resolution	1%
Pulse Rate	Display Range	0~240bpm
	Measurement Range	30~240bpm
	Accuracy	30~100bpm, ±2bpm; 100~240bpm, ±2%
	Resolution	1bpm
Power supply	2x1.5V AAA batteries	
Power Consumption	<60mA	
Weight	Approx.50g	
Dimensions	Approx.60mm*32mm*31.4mm	
Operating Environment	Temperature	5℃~40℃
	Humidity	15%~93%RH
	Pressure	700hPa~1060hPa
Storage Environment	Temperature	-20℃~55℃
	Humidity	15%~93%RH
	Pressure	700hPa~1060hPa
Ingress Protection Rating	IP22	
Classification	Internal Powered Equipment Type BF	
Frequency range	Modulation	GFSK
	BT Version	5.0 BT Signal mode
	Transmit output power	≤10m (at room temperature)
Bluetooth communication	Rx sensitivity	97dBm @ 1Mbps mode
	Supply voltage	1.8V ~ 3.6V
Current consumption	2uA (Sleep Mode)	
	6uA (OFF Mode)	
Wavelength	660nm (RED)	
	940nm (IR)	
Probe LED Specifications	Power Consumption	
RED	Approx. 660mW	Approx. 3.2mW
IR	Approx. 905mW	Approx. 2.4mW
The Date UPDATE period		Less than 12s

Notes:

The functional test cannot be used to assess the accuracy of the oximeter. The test methods used to establish the SpO2 accuracy is clinical testing. The oximeter used to measure the arterial haemoglobin oxygen saturation levels and these levels are to be compared to the levels determined from arterial blood sampling with a CO-oximeter.

1.ISO 80601-2-61, medical electrical equipment - part 2-61; particular requirements for the basic safety and essential performance of pulse oximeter equipment.

2.AAMI/ANSI ES60601-1:2005(R)2012 and C1:2009(R)2012 and a2:2010(R)2012 (consolidated text) medical electrical equipment – part 1: general requirements for basic safety and essential performance.

3.AAMI/ANSI/IEC 60601-1-2, medical electrical equipment -- part 1-2: general requirements for basic safety and essential performance – collateral standard: electromagnetic disturbances – requirements and tests (General II (ES/EMC)).

4.IEC 60601-1-11, medical electrical equipment – part 1-11: general requirements for basic safety and essential performance - collateral standard: requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment.

Correct disposal of this product.

(Waste electrical & electronic equipment)

This marking shown on the product indicates that it should not be disposed with other household waste at the end of its life. To prevent potential harm to the environment or to human health, please separate this product from other types of wastes and recycle it responsibly. When disposing this type of product, contact the retailer where product was purchased or contact your local government office for details regarding how this item can be disposed in an environmentally safe recycling center. Business users should contact their supplier and check the terms and conditions of the purchasing agreement. This product should not be mixed with other commercial wastes for disposal. This product is free of hazardous materials.

Icon Explanation

Symbol	Definition	Symbol	Definition
	Type BF applied		Attention
	Protected against dripping water.		Oxygen saturation
	Pulse rate (BPM)		Low power indication
	Alarm inhibit (Note: This device does not provide any alarm function)		Serial No.
	Storage temperature and relative humidity		Follow instruction for use
	Date of Manufacture		Authorized representative in the European community
	European union approval		Manufacturer's information
	Conformity to WEEE Directive		Bluetooth
	MR unsafe		Prescription use

FCC Information

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

*Note:The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This equipment has been tested and found to comply with the limits for a Class B digital device,pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radiofrequency energy. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the distance between the equipment and the receiver.

-Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Warning

The Fingertip Pulse oximeter is guaranteed for 2-year from the date of purchase. If the Fingertip Pulse oximeter does not function properly due to defective components or poor workmanship, we will repair or replace it freely. The warranty does not cover damages to your Fingertip Pulse oximeter due to improper handling. Please contact local retailer for details.

Contact Information
JOYTECH Healthcare Co., Ltd.
No.365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City,311100 Zhejiang, China
Please contact us on:
Email: info@sejoy.com
Telephone: +86-871-81957767
Fax: +86-571-81957750

Confidence 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 ensure that it is used in such an environment.

Immunity test	IEC 61010-4 test level	Compliance test	Electromagnetic environment - guidance
Electrostatic discharge (ESD)	±15 kV contact ±8 kV air	±15 kV contact ±8 kV air	Electromagnetic immunity is adequate for use in an environment with electrostatic discharges up to ±15 kV contact

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The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should ensure that it is used in such an environment.

Immunity test	IEC 61010-4 test level	Compliance test	Electromagnetic environment - guidance
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