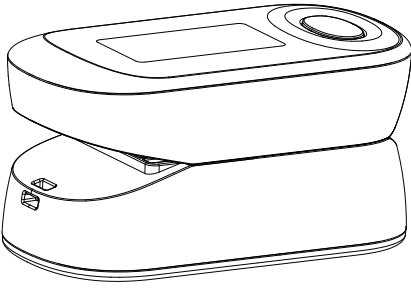
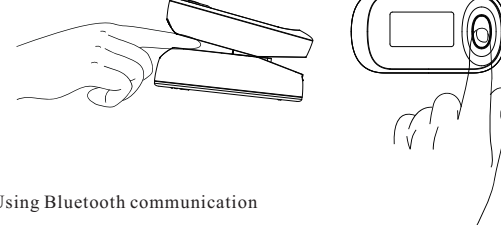



Owner's Manual Fingertip Pulse oximeter XM-103		Safety Notice	Important Testing Guidelines	Features	To Use	Cleaning and Maintenance
		<p>1. Before use,carefully read the manual.</p> <p>2. Do not use the pulse oximeter:</p> <ul style="list-style-type: none"> <li>-if you are allergic to rubber products.</li> <li>-if the device or finger is damp.</li> <li>-during MRI or CT scan.</li> <li>-while taking a blood pressure measurement on the arm.</li> <li>-nail polish, dirty, coating fingers and false nails applied fingers.</li> <li>-displays with anatomical changes, edemas, scars or burns.</li> <li>-Too big finger: the width of finger is over than 20mm and the thickness is over than 15mm.</li> <li>-Too small finger: the width of finger is less than 10mm and the thickness is less than 5mm.</li> <li>-Minors under 18 years old.</li> <li>-The environmental light changes strongly.</li> <li>-near flammable or explosive gas mixtures.</li> </ul> <p>3. Extended use may cause pain for people with circulatory disorders. Do not use the pulse oximeter for longer than two hours on one finger.</p> <p>4. Measurements are for your information only - they are no substitute for a medical examination.</p> <p>5. 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.</p> <p>6. Do not use any additional parts that are not recommended by the manufacturer.</p> <p>7. 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.</p> <p>8. 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.</p> <p>9. 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.</p> <p>10. If the unit has been stored at temperatures below 0°C, leave it in a warm place for about two hours before using it.</p> <p>11. If the unit has been stored at temperatures above 40°C, leave it in a cool place for about two hours before using it.</p> <p>12. 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.</p> <p>13. Operation of the fingertip pulse oximeter may be affected by the use of an electrostimulatory unit (ESU).</p> <p>14. Follow local ordinances and recycling instructions regarding disposal or recycling of the device and device components, including batteries.</p> <p>15. 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.</p> <p>16. This 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.</p> <p>17. This equipment is not intended for use during patient transport outside the healthcare facility.</p> <p>18. When the signal is not stable, the reading may inaccurate. Please do not reference.</p>	<p>1.Non-observance of the following instructions can lead to incorrect or failed measurements</p> <ul style="list-style-type: none"> <li>-There must not be any nail polish, artificial nails or other cosmetics on the finger to be measured.</li> <li>- Ensure that the finger nail on the finger to be measured is short enough that the fingertip covers the sensor element in the housing.</li> <li>- Keep your hand, finger and body steady during the measurement.</li> <li>- In cases of carbon monoxide poisoning, the pulse oximeter will display a measurement value that is too high.</li> <li>- 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.</li> <li>- Protect the pulse oximeter from dust, shocks, moisture, explosive materials.</li> <li>- Excessive patient movement.</li> </ul> <p>2.The following situations may cause inaccurate measurements</p> <ul style="list-style-type: none"> <li>- Significant levels of dysfunctional hemoglobin (such as carboxyl - hemoglobin or methemoglobin).</li> <li>- Venous pulsations.</li> <li>- Placement of a sensor on an extremity with a blood pressure cuff, arterial catheter, or intravascular line.</li> <li>- The patient has hypotension, severe vasoconstriction, severe anemia, or hypothermia.</li> <li>- The patient is in cardiac arrest or is in shock.</li> <li>- Weak pulse quality (low perfusion).</li> <li>- Low hemoglobin.</li> </ul>	<p>1.Simple to operate and convenient to carry.</p> <p>2.Small volume, light weight and low power consumption.</p> <p>3.Displays SpO<sub>2</sub>, PR, Pulse bar, and waveform.</p> <p>4.Level 1-5 adjustable brightness.</p> <p>5.5 display modes.</p> <p>6.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.</p> <p>7.When it shows "Finger out", the pulse oximeter will power off automatically in 10 seconds.</p> <p>8.Beep.</p> <p>9.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.</p> <p>10.Bluetooth function.</p>	<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 except 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 ometier can control all 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>	<p>1.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.</p> <p>2.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.</p> <p>3.The fingertip pulse oximeter requires no routine calibration or maintenance other than replacement of batteries.</p> <p>4.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:</p> <ul style="list-style-type: none"> <li>●An error in the Possible Problems and solutions is displayed on screen.</li> <li>●The oximeter cannot be powered on in any case and not the reasons of battery.</li> <li>●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.</li> </ul> <p>5.Cleaning and Disinfecting</p> <p>Cleaning procedures:</p> <p>a)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% isopropanol;</p> <p>b) Dip a clean soft cloth in 70% isopropanol, and clip it by the finger pads for at least 3 minute;</p> <p>c) Take out the soft cloth, wait for 1 minute to fully dry the oximeter.</p> <p>Disinfection procedures:</p> <p>a) Dip a clean soft cloth in 70% isopropanol, and clip it by the finger pads for at least 3 minute;</p> <p>b) Take out the soft cloth, wait for 1 minute to fully dry the oximeter.</p> <p>CAUTION: Never use EtO or formaldehyde for disinfection.</p> <p>6.The device is provided as non-sterile, please clean and disinfect it according to the instructions before each use.</p>
General Description			Intended Use	Battery Installation	Unit Operation	
Document No.: JDXM-0304-052 Version: Z				Slide battery cover off as indicate by arrow. Install 2 new AAA alkaline batteries according to polarity. Close battery Cover.		
CAUTION: Federal (U.S.) Law restricts this device to sale by or on the order of a physician.  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.  The oximeter is for prescription use or prescription home use.  This device conforms to IEC6061-1, IEC60601-1-2, ANSI C60601-1-11, ISO 80601-2-61, IEC 62304, 47 FCC part 15C, ANSI C63.27.				Note:  1)Be sure to follow the correct polarity when installing the batteries. Reversed batteries may cause damage to the device. 2)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.		
Measurement Principle			Unit Illustration			
PRINCIPLE of the oximeter is as follows: The pulse oximeter works by applying a pulsating arteriolar 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 arteriolar 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.			Contents - 1 x XM103 pulse oximeter - 1 x Owner’s Manual - 1 x Retaining strap - 1 x Storage Bag - 2 x 1.5v AAAA batteries			
Diagram of Operation Principle			Monitor Unit		Attaching the retaining strap	

[illegible]