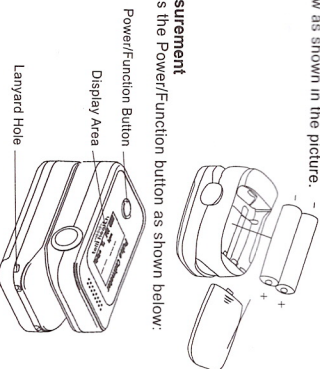


Quick Operation Guide:

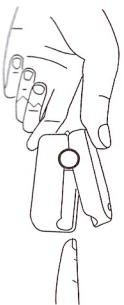
- 1. Install Battery**
To remove the back cover compartment, push the white button and follow the direction of the printed arrows.
- 2. Install two AAA batteries** into the battery compartment. Match the plus (+) and minus (-) signs in the compartment. If the polarities are not matched, damage to the oximeter may occur.
- 3. Slide the battery door cover horizontally** in the direction of the arrow as shown in the picture.



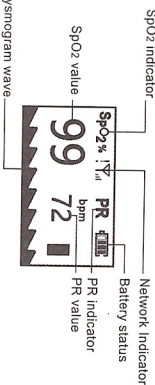
- 2. Measurement**
1) Press the Power/Function button as shown below:



- 2) Place one finger into the rubber hole of the oximeter** (it is best to plug the finger thoroughly) before releasing the clamp, with the nail upward, as indicated below.



- 3) The data (SpO₂ and Pulse Rate) will read as below.** Don't move the finger, be sure to remain motionless during the reading.



- 4) Once the measurement is finished, it will display "Thank you"** as shown below. Remove finger. The device will turn off automatically.

Thank you

Product Description

The pulse oximeter is an important, common device that checks oxygen saturation (SpO₂) and pulse rate. It is a small, compact, simple, reliable, and durable physiological monitoring device. It contains the mainboard, OLED display, and dry batteries.

Intended Use

The pulse oximeter is a reusable device intended for intermittent checks of oxygen saturation and pulse rate for adults in a clinical environment. This medical device is not intended for continuous monitoring.

Applicable Users and Scope

The pulse oximeter is intended for monitoring adults. It is used in clinical settings, outpatient departments, and sickrooms. It can also be used in recovery and healthcare organizations as well as community medical treatment centers.

Contraindications

The pulse oximeter only applies to adults. It is not suitable for injured skin tissue.

Measurement Principle

Arterial oxygen saturation is measured via a method called oximetry. It is a continuous, non-invasive method based on the different spectra absorption of hemoglobin and oxyhemoglobin (called the spectrophotometer principle).

The data processed by the device is obtained via a formula based on the Lambert Beer Law, according to the spectrum absorption characteristics of hemoglobin (Hb) and oxyhemoglobin (HbO₂) in glow and near-infrared zones. The instrument operates on the principle of Photoelectric Oxymetry. Inspection Technology. Two beams of different wavelengths of light (660nm visible red light and 905nm near-infrared light) can be focused on the human nail tip via emitters by adopting the Capacity Pulse Signal and Recording Technology. The amount of light absorbed relates to the amount of oxygen in the blood during these pulses. The ratio of the two absorbed spectrums can be calculated via the microprocessor, and the results are compared with the saturation value in the memory. This is how the blood oxygen saturation value is obtained.

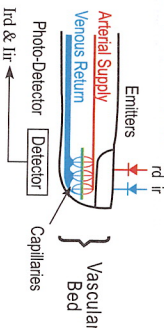


Diagram of Measurement Principle

Safety Information

- Anyone who uses the pulse oximeter must receive adequate training before use.
- The pulse oximeter is only meant to assess patients' physiological conditions. It must be used in conjunction with clinical symptoms. It is not intended for treatment.
- When using the pulse oximeter in conjunction with the electrical surgery equipment, the user should ensure safety of the patient.
- **EXPLOSION HAZARD:** Do not use the pulse oximeter in the presence of flammable anesthetics, explosive substances, vapors, or liquids.
- It is forbidden to use the pulse oximeter in MRI (magnetic resonance imaging) scanning or CT (Computed Tomography) because the induced current could cause potential burning.
- The pulse oximeter does not include an alarm function. Therefore, continuous monitoring for long periods of time is not suitable.
- Modification of the pulse oximeter is not allowed. Any product maintenance should be done by manufacturer-approved, professional maintenance personnel.
- Please shut off the power before cleaning the pulse oximeter. Disinfecting the pulse oximeter via high-pressure and high-temperature methods is prohibited. Any cleaning agents/disinfectants other than recommended ones listed in the operation manual are not allowed for use.
- The pulse oximeter is not waterproof. Keep its surface dry and clean and prevent any liquid from infiltrating the product. The pulse oximeter is fragile and requires precision to function properly. Avoid any pressure, jostling, strong vibrations, or other potential mechanical damage. Hold it carefully and lightly. If it is not in use, the pulse oximeter should be appropriately stored.

- Do not dispose of the pulse oximeter randomly. Disposal procedure should follow local regulations or hospital policy regarding disposal of the pulse oximeter and accessories.
- Use AAA alkaline batteries. Do not use carbon or poor-quality batteries. Remove the batteries if the pulse oximeter hasn't been used for a long time.
- A functional tester can't be used to assess the accuracy. If the patient is the intended operator, the patient must read the operation manual carefully or consult with a doctor and using the pulse oximeter, stop usage immediately and go to the hospital.
- To avoid any static electricity damage to the pulse oximeter, direct or indirect static electricity should be discharged before usage.
- Try to keep the pulse oximeter away from any radio receivers when in use.
- If the pulse oximeter is used in a configuration which does not pass the EMC test, it can enhance electromagnetic radiation or reduce anti-electromagnetic interference performance. Please use the specified configuration.
- The pulse oximeter should not be in close proximity (or stacked) with other devices. If that cannot be avoided, it should be observed and verified that the oximeter can run normally with the close proximity/stacked configuration.
- There should be no dirt or wound on the tested surface (i.e., finger).
- Federal law restricts this device to sale by the order of a physician.

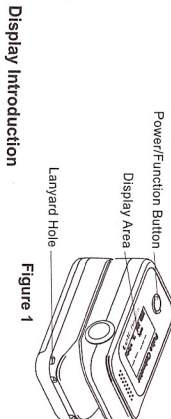
Precaution

- Check the pulse oximeter for damage before use. If it's damaged, don't use it.
- Don't put the pulse oximeter on extremities with arterial catheter or venous syringe.
- Don't perform SpO₂ and NIBP measurements on the same arm simultaneously. Obstruction of blood flow during NIBP measurements may adversely affect the reading of the SpO₂ value.
- Don't use the pulse oximeter to measure patients whose pulse rates are lower than 30bpm (this may cause incorrect results).
- The well perfusion of the measuring instrument should fully cover the test window of the sensor. Clean and dry the measurement part before storing the pulse oximeter.
- Cover the sensor with opaque material under strong light. Otherwise, the light can cause inaccurate measurements.
- Make sure there is no contamination or scarring on the tested finger. Otherwise, the results may be incorrect.
- The product is prone to cross-contamination when used on different patients. Disinfection is recommended before using the product on other patients.
- Incorrect placement of the sensor may affect the accuracy of the measurements. To achieve the best measurements, hold the device in the same horizontal position (parallel) with the heart.
- Do not use the device if the temperature exceeds 41°C.
- Change sensor location and check skin integrity and circulatory status at least every 2 hours.

Factors affecting measurement accuracy:

- The measurements depend on absorption of a special wavelength ray by oxidized hemoglobin and deoxyhemoglobin. The concentration of non-functional hemoglobin may affect the accuracy of the measurement.
- Shock, anemia, hypothermia, and vasoconstrictive drugs may decrease arterial blood flow to an unmeasurable level. Pigments or deep colors (i.e., nail polish, artificial nails, dyes, or pigmented cream) may cause inaccurate measurements.

Product Structure



Display Introduction

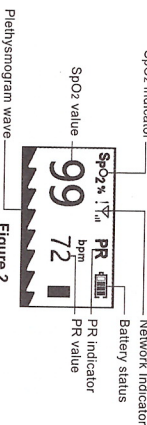


Figure 2

- To remove the back cover compartment, push the white button and follow the direction of the printed arrows.
- Install two AAA batteries into the battery compartment. Match the plus (+) and minus (-) signs in the compartment. If the polarities are not matched, damage to the oximeter may occur.
- Slide the battery door cover horizontally in the direction of the arrow as shown in **Figure 3, 4**.

Note:

- Please remove the batteries if the pulse oximeter will not be used for long periods of time.
- Please replace the batteries when the power indicator starting flickering.



Figure 3

Using the Lanyard

- Thread the thinner end of the lanyard through the threaded end before pulling it tightly.

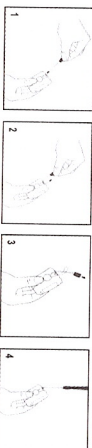


Figure 4

Warning!

Keep the oximeter away from young children. Small items such as the battery door, battery, and lanyard are choking hazards.

Directions for Use

1. After properly installing two AAA batteries, push down on the lid's press sign as shown in the **Figure 5** and open the clip. Place the testee's finger between the rubber cushions of the clip. Make sure the finger is in the right position as shown in **Figure 5**, then release the clip.
2. The device takes only a moment to take the reading. The SpO₂ value and PR value will be displayed on the OLED screen after the plethysmograph wave and measured values are stable, as shown in **Figure 6**.
- Be sure to place the patient's finger in the device in the correct orientation. The LED part of the sensor should be on the end that is closer to the patient's wrist. Be sure to insert the finger deep enough into the sensor so that the fingernail is opposite the light emitted from the sensor.
- Don't move the finger, remain motionless during the process.
- Data update period is less than 30 seconds.

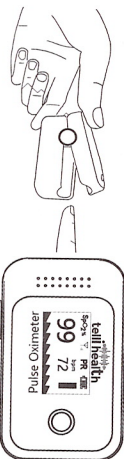


Figure 5

Function Description

1. Press the "POWER/FUNCTION" button to power on the device. Press it again to rotate the display orientation, as shown in **Figure 7** and **Figure 8**.



Figure 7

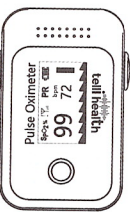


Figure 8

2. Press and hold the "POWER/FUNCTION" button for more than 3 seconds to show the IMEI and SIM card number. Press it again to exit, as shown in **Figure 9**.
3. When there is no finger inserted, the invalid value "----" will be displayed on the screen, as shown in **Figure 10**.

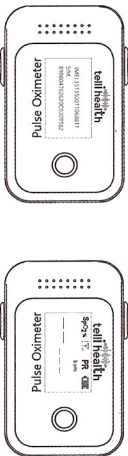


Figure 9

4. When the measurement is finished and the network is available, the upload procedure will be started automatically, as shown in **Figure11**. It will end with "Success" or "Failed," as shown in **Figure12** and **Figure13**. If the upload failed, the current measurement record will be saved automatically and re-uploaded next time.



Figure 10

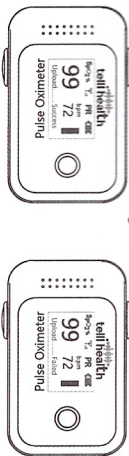


Figure 11

5. The product will be automatically shut down when there is no finger inserted for more than 10 seconds or after upload is finished.

Figure 12

6. The purpose of confirming the blood oxygen measurements accuracy is to compare the oximetry measurement value with the value of a blood gas analyzer.

Figure 13

7. The purpose of confirming the blood oxygen measurements accuracy is to compare the oximetry measurement value with the value of a blood gas analyzer.

Network Indicator Description

SYMBOL	DESCRIPTION
	No signal
	Signal is weak
	Signal is normal
	Signal is good
	Signal is perfect
	Network is unattached

Cleaning and Disinfection

- Do not immerse the oximeter and any relevant accessories in water or disinfectant.
- We recommend that the product be disinfected only when necessary to avoid long-term damage to the product.
- Don't use cleaning agents/disinfectants other than the recommended models.
- Don't dislodge the device via high-pressure or high-temperature water.
- Shut off the power and take out the batteries before cleaning and disinfecting.
- Cleaning
 - Clean the product with cotton or a soft cloth moistened with water.
 - After cleaning, wipe off the water with a soft cloth.
 - Leave the device to dry naturally.
- Disinfection

The recommended disinfectants include the following: ethanol 70%, isopropanol 70%, glutaraldehyde (2%) solution disinfectants.

 - Clean the product as instructed above.
 - Disinfect the product with cotton or a soft cloth moistened with one of the recommended disinfectants.
 - After disinfection, be sure to wipe off the disinfectant left on the product with a soft cloth moistened with water.
 - Leave the device to dry naturally.

Packing List

THE STANDARD CONFIGURATION	
Pulse oximeter	1pc
Lanyard	1pc
The operation manual	1pc
Alkaline battery	2pcs

Expected service life: 3 years

Technical Specifications

1. Display Mode: OLED

2. SpO2:

Measurement range: 0~100%
Accuracy: $\pm 3\%$ (70%~100%)

3. Pulse Rate:

Measurement range: 25~250bpm
Accuracy: ± 2 bpm

- Pulse Rate accuracy has passed verification and comparison with the SpO2 simulator.

4. Low Perfusion:

Range: 0.5%~20%
SpO2 Accuracy: $\pm 3\%$ (70%~100%)
PR Accuracy: 25~250bpm ± 2 bpm

5. Electrical Specifications:

Working Voltage: D.C.2.2V~D.C.3.4V
Battery Type: Two 1.5V AAA alkaline batteries
Battery Life: Measurement and upload in normal conditions over 500 times

6. Product Specifications:

Size: 58 (H) x 34 (W) x 30(D) mm
Weight: 50g (includes two AAA batteries)

7. Environment Requirements:

Temperature: $+5\sim+40^{\circ}\text{C}$
Transport and Storage: $-10\sim+50^{\circ}\text{C}$
Humidity: $15\%\sim 80\%$ (noncondensing)
Operation: $15\%\sim 80\%$ (noncondensing)
Transport and Storage: $10\%\sim 90\%$ (noncondensing)
Atmospheric Pressure:
Operation: 860hPa~1060hPa
Transport and Storage: 700hPa~1060hPa

NOTE:

- A functional tester can't be used to assess this product's accuracy.
- The purpose of confirming the blood oxygen measurements accuracy is to compare the oximetry measurement value with the value of a blood gas analyzer.

LED:

Wavelength: 660nm/905nm
Output Power: <0.1mW

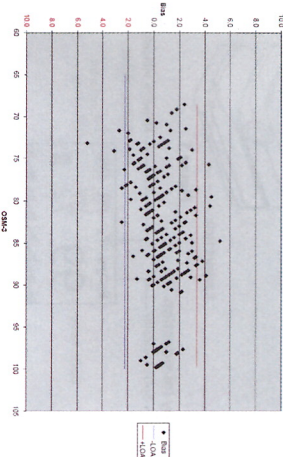
Arms Specifications

1. SpO2 Arms:

SP02 RANGE	ARMS SPECIFICATION
70% - 80%	1.65
80% - 90%	1.22
90% - 100%	1.11

2. Clinical Data Graphical Plot:

Hemometer Range	60-80	80-100	60-100	70-100	60-70	70-80	80-90	90-100
Mean	0.27	0.74	0.58	0.57	0.90	0.25	1.00	0.12
Count	102	185	287	284	3	99	131	54
Missing Data	0	2	2	0	0	0	0	2
Standard Deviation	1.64	0.25	1.42	1.42	1.23	1.65	1.22	1.11
Standard Error	0.16	0.09	0.08	0.08	0.71	0.17	0.11	0.15
95% Confidence Interval	0.32	0.18	0.16	0.17	1.38	0.33	0.21	0.30
Upper LOA	3.55	3.22	3.38	3.38	N/A	3.55	3.42	2.29
Lower LOA	-3.01	-1.73	-2.23	-2.24	N/A	-3.05	-1.42	-2.95
Maximum	4.50	5.20	5.20	5.20	1.80	4.50	5.20	2.40
Minimum	-5.20	-3.10	-5.20	-5.20	-0.50	-5.20	-1.60	-3.10
Root Mean Square	1.66	1.45	1.53	1.53	1.35	1.67	1.57	1.11



Troubleshooting

TROUBLE	POSSIBLE REASON	SOLUTION
The SpO2 and PR values are displayed normally and the value disappears.	1. The finger is not properly inserted. 2. The patient's SpO2 is too low to be detected.	1. Please try again. 2. If the patient is hospitalized for a diagnosis if you are sure the device is working correctly.
The SpO2 and PR values are displayed normally and the value disappears.	1. The finger is not properly inserted. 2. The patient's SpO2 is too low to be detected.	1. Place the finger properly deep enough inside the device. 2. Encourage the testee to keep calm.
The device can't be powered on.	1. The batteries are drained or almost drained. 2. The installation of the batteries is not correct. 3. The device has malfunctioned.	1. Change batteries. 2. Reinstall batteries. 3. Please contact the supplier.
The screen suddenly turned off.	1. The product will automatically shut down when there is no finger inserted for more than 10 seconds or after upload is finished. 2. The power of the batteries is exhausted.	1. Normal. 2. Replace the batteries.

Symbol Meaning

SYMBOL	MEANING
	"CAUTION!" Please refer to the operation manual.
	Type BF Equipment.
	The product does not contain alarm function.
	When the end-user wishes to discard this product, it must be sent to a separate collection facilities for recovery and recycling.
	Information of manufacture, including name and address.
	Date of manufacture.
	Serial Number.
	Batch Code.
	Type Number.
	Degrees of protection provided by enclosure.

Shanghai Berry Electronic Tech Co., Ltd.
Unit 104, 1st Floor, 7th Building, No. 1188 Lianhang Road,
Minhang District, Shanghai, China 201112
TEL: +86-21-5853 1958 FAX: +86-21-5853 0420
WEB: www.shberry.com

If you need additional information, please contact with the manufacturer.

Appendix A EMC Declaration

Guidance and manufacturer's declaration - electromagnetic emissions - for all EQUIPMENT and SYSTEMS

Guidance and manufacturer's declaration - electromagnetic emissions - for all EQUIPMENT and SYSTEMS
<p>The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should ensure that it is used in such an environment.</p> <p>Emission Test</p> <p>Compliance</p> <p>Electromagnetic Environment-Reference</p> <p>Group 1</p> <p>The Pulse Oximeter uses RF energy only for its normal operation. It does not generate or use radio frequency energy. It is not likely to cause any interference in nearby electronic equipment.</p> <p>Class B</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p> <p>RF emissions</p> <p>CISPR11</p> <p>Class B</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p>

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

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<p>The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should ensure that it is used in such an environment.</p> <p>Immunity Test</p> <p>Compliance Level</p> <p>Electromagnetic Environment - Reference</p> <p>Group 1</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p> <p>Class B</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p> <p>RF emissions</p> <p>CISPR11</p> <p>Class B</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p>

Guidance and manufacturer's declaration - electromagnetic immunity - for all EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING

Guidance and manufacturer's declaration - electromagnetic immunity - for all EQUIPMENT and SYSTEMS that are not LIFE-SUPPORTING
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Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment
<p>The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should ensure that it is used in such an environment.</p> <p>Immunity Test</p> <p>Compliance Level</p> <p>Electromagnetic Environment - Reference</p> <p>Group 1</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p> <p>Class B</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p> <p>RF emissions</p> <p>CISPR11</p> <p>Class B</p> <p>The Pulse Oximeter is suitable for use in all environments including those containing radio frequency electromagnetic energy. It is not likely to cause interference with other equipment, nor is it susceptible to interference from other equipment.</p>

Manufactured for: Tell Health LLC
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Miami, FL, 33130 USA

