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› HOLFENRY Fingertip Pulse Oximeter User Manual

HOLFENRY JKS50BL



HOLFENRY Fingertip Pulse Oximeter User Manual

MODEL: JKS50BL

1. General Description

The measurement of oxygen saturation of blood (also known as pulse oxygen saturation, usually abbreviated as SpO₂) is based on the principles of light spectra and volume tracing two specific wavelengths, which are selectively absorbed by oxyhemoglobin and deoxyhemoglobin. The optical sensor measures the changes in the light intensity after the light passes through the finger and estimates the ratio of oxygenated hemoglobin and the total hemoglobin.

$$\text{SpO}_2\% = \frac{\text{oxygenated hemoglobin}}{\text{oxygenated hemoglobin} + \text{deoxyhemoglobin}}$$



Image: The HOLFENRY Fingertip Pulse Oximeter, showing its compact design and clear display.

2. Intended Use

The Fingertip Pulse Oximeter is intended for measuring the pulse oxygen saturation and pulse rate through the finger. This device is only used for sports and aviation purposes, not intended for medical purposes.



Image: The pulse oximeter is suitable for a wide range of users including the elderly, pregnant individuals, exercisers, and patients for general health monitoring.

3. Setup and Battery Installation

The HOLFENRY Pulse Oximeter requires 2 AAA batteries for operation. Please ensure correct polarity during installation.

1. Press down on the back panel of the oximeter and push the battery cover.
2. Install the two AAA batteries into the battery cabin, ensuring the positive and negative terminals are aligned correctly.
3. Close the battery cover.

Note: Pay attention to the correct polarity terminals of the battery, which are marked with plus and minus signs. Do not install the batteries in reverse polarity. Please remove the battery if the oximeter will not be used for a long time.



Image: Visual guide for installing AAA batteries into the pulse oximeter.

Video: A user demonstrates the battery installation process for the pulse oximeter.

4. Operating Instructions

Follow these steps for accurate readings:

1. Install the battery according to the positive and negative marks on the battery compartment.
2. Insert your finger into the measuring hole and press the button. The real-time measurement results display within a few seconds.
3. Click the button to power on the pulse oximeter.
4. The real-time measurement results display within a few seconds after gripping the finger.
5. If you are using it for children under 12, we also have pulse oximeters for children.
6. To toggle between displaying PI and heart rate, press the button.

Easy to Use

① *Install the battery according to the positive and negative poles in the battery compartment.*

② *Insert your finger into the measuring hole and press the button. Wait 5-8 seconds for the oximeter to display the value. Press the button to toggle between displaying PI and heart rate.*

③ *When not in use, the oximeter will automatically shut down after 5-8 seconds. Note: There is a transparent film on the oximeter, the display will be clearer after tearing it off.*

Image: Step-by-step visual instructions for using the pulse oximeter.

Video: Official HOLFENRY introduction video demonstrating the pulse oximeter's features and ease of use.

5. Maintenance and Care

- Use a soft cloth dampened with either a commercial, non-abrasive cleaner or a 70% isopropyl alcohol solution to wipe the surface of the oximeter.

- The parts of the body coming into contact with the oximeter can be cleaned using a soft cloth dampened with 70% isopropyl alcohol.
- Do not allow liquid to enter the inside of the oximeter.
- Do not use abrasive cleaners or materials like wire brush or metal polishing agent, as these materials may cause damage to the oximeter.
- Do not soak the oximeter in liquids.
- Please use the oximeter with care.
- Avoid contact with organic solutions, dust, or corrosive gases.

6. Troubleshooting

Problem	Reason	Resolution
The button cannot be pressed to its position.	Ensure that the button is not obstructed.	Check for obstructions.
Battery capacities are low.	The batteries may be missing, discharged, or installed incorrectly.	Replace them with new ones. Check the positive and negative terminals.
There is no response to the function button.	Please check whether the batteries are installed correctly.	Reinstall batteries, ensuring correct polarity.
Battery installation error.	Batteries are not in the positive and negative direction.	Check the battery compartment.
Perfusion may be too low.	Check the people.	Change the measuring site. Try another oximeter.
People movement.	Excessive movement during the activity may be preventing accurate readings.	Keep the finger still.
The Pulse search time is too long.	Electromagnetic interference due to other devices. The oximeter may be on an unstable site, weak pulse pressure cuff, arterial stenosis, or intravascular line.	Remove the source of interference. Reposition oximeter, as necessary.
Display is dark or bright.	Battery capacities are low.	Replace the batteries.

7. Product Specifications

Name	Value
Measuring Range (SpO2)	70-100%
Accuracy (SpO2)	70-100%, $\pm 2\%$
Measuring Range (Pulse Rate)	30-250 bpm

Name	Value
Accuracy (Pulse Rate)	± 2 bpm or $\pm 2\%$ whichever is greater
Update Period	8 s
Display Type	OLED
Battery Type	2 AAA alkaline battery
Battery Life	Can be used for more than 18 hours, depending on battery type.
Dimensions	3.39 x 2.8 x 1.65 inches; 2.39 ounces
Item model number	JKS50BL
Manufacturer	HOLFENRY

8. Environmental Specifications

Operation	Value
Temperature	+5°C ~ +40°C
Atmospheric Pressure	700hPa ~ 1060hPa
Relative Humidity	$\leq 80\%$

Transport and Storage	Value
Temperature	-20°C ~ +50°C
Atmospheric Pressure	500hPa ~ 1060hPa
Relative Humidity	$\leq 93\%$

9. What's in the Box

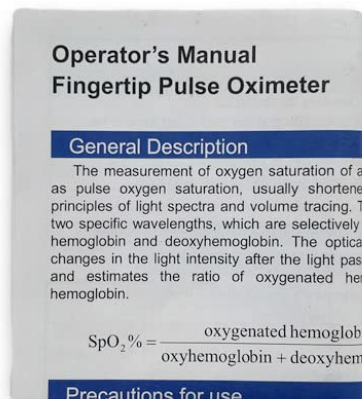
Product checklist



Oximeter



Lanyard



User Manual



AAA Batteries x2

Image: Contents of the HOLFENRY Pulse Oximeter package.

- 1 x Fingertip Pulse Oximeter
- 1 x Lanyard
- 1 x User Manual
- 2 x AAA Batteries

10. Important Notes and Disclaimers

- This device is only used for sports and aviation purposes, not intended for medical purposes.
- The pulse oximeter measures data in real time. Since the body changes dynamically, the results also change over time. Please use it with confidence.

- Excessive ambient light (including fluorescent lamps, double rubies, etc., infrared heaters, direct sunlight, etc.) will affect the measurement accuracy. Please avoid direct light on the measurement area.
- Incorrect measurement on the finger appeared with nail polish and wearing false nails and nails are too long, otherwise the data will be inaccurate or unavailable.
- The measurement time is affected by the skin color of the subject. It will be prolonged for dark-skinned people with dark skin, a longer measurement time is required.
- Because the body changes dynamically, the displayed value is updated in real time. Please use it with confidence.