

What's in the box?

- Oximeter iProven OXI-27
- Two AAA-batteries
- Lanyard
- Oximeter case



Intended use

The iProven Fingertip Pulse Oximeter is a digital monitor that measures the level of oxygen saturation of haemoglobin in the arterial blood. The monitor detects signs of low levels of oxygen in the body. It measures the pulse rate in beats per minute, and also displays a bar graph that illustrates the strength of the pulse signal.

The OXI-27 is intended for sport and aviation use only. It is intended for use on children above four years old and adults whose weight is between 15kg and 110kg.

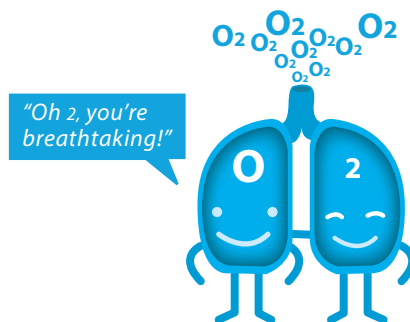
The device should be used in the home/domestic setting only, and is not intended for continuous monitoring.

This device is intended for non-invasive measuring and monitoring of the oxygen saturation of haemoglobin in arterial blood and the pulse rate in beats per minute.

How to increase oxygen saturation in a natural way?

1. Try to breathe more slowly and more deeply. In through the nose, out through the mouth. Guess you heard that before. But being aware of your respiration can already improve its quality!
2. Add green to your world! Consider buying some (extra) plants. Open your window more often. Take a walk in the park. Being in the green can improve your oxygen levels. It will also help you to feel more relaxed. Which will help you to breathe more deeply, and as said, that can also improve your oxygen levels!
3. Stay hydrated! The O in H₂O stands for the oxygen molecules in water. So drinking water will help to keep your oxygen levels up. Hydrating yourself has quite a few extra benefits. It can help to fight fatigue. It may keep a headache away. And it can even help you to lose weight

Components of the device



Proven
Professional Care Brought Home

iProven OXI-27BL
Manual ver 1.1 US

FAQ

Q: How do I clean the device?

A: You can use medical alcohol to disinfect it. Please use a soft cloth to clean the whole unit. Don't use any abrasive or volatile cleaners.

Q: How can I replace the batteries?

A: Open the battery cover.

Insert the batteries according to the polarity indications.

Close the battery cover

Q: When do I replace the batteries?

A: - Low battery sign shows on the display.

- The LED display dims.

- When powering on the monitor, the LED display doesn't light up.

Q: How do I attach the lanyard?

A: Put the thin end of the rope through the hole.

Then put the thick end of the rope through the loop, and pull the end to secure it.

How to take a measurement

1. Open the clip and place your finger inside the oximeter. Make sure your nail touches the upper part of the clip, see image
2. Press the button and wait for 10 seconds
3. Read your saturation level and heart rate from the display



Please note

- Measurements may be inaccurate in the following situations:
 - When you're moving your fingers
 - In a very cold environment
 - When your finger isn't placed properly into the device (see above)
- Excessive ambient light, such as a fluorescent lamp or direct sunlight, may affect the result
- Enamel or acrylic fingernail polish or other fingernail applications may give inaccurate readings

What is oxygen saturation?

Oxygen saturation indicates how much oxygen the blood is carrying as a percentage of the maximum it could carry. Red blood cells contain iron-containing protein haemoglobin. Haemoglobin (hb) attaches oxygen to the red blood cell and carries it through the body. 1 haemoglobin molecule can attach up to 4 oxygen molecules. If all the haemoglobin molecules are carrying 4 oxygen molecules, it is said that you have a saturation of 100%. A healthy person with healthy lungs, breathing air at sea level, will have an oxygen saturation of between 95% and 100%.

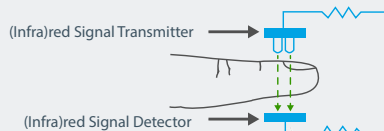
Warehouse

9450 SW Gemini DR
Beaverton, Or 97008-7105

Call us toll free if you have any questions or concerns. +18557001668
Service Hours: Monday - Friday, 3 PM - 6 PM PST

Measurement principle

The fingertip pulse oximeter contains a microprocessor and a display. The display shows the oxygen saturation, the pulse rate and the intensity of your heart beat.



The display continuously gives information about the level of oxygen in your body and your pulse rate per minute. The monitor updates its calculations regularly during use to show immediate readings. The monitor starts to beep if the value of the oxygen saturation 94% or lower. It will also beep when your heartbeat is below 50 or above 130.

Extra notes on the device

- This device is not intended for use on extremities other than the fingertip.
- Do not confuse self-monitoring with self-diagnosis. Do not begin or end medical treatment without asking a physician for treatment advice.
- If you are taking medication, consult your physician to determine the most appropriate time to measure the oxygen levels in your body and pulse rate. Never change a prescribed medication without consulting your physician.
- The user must check that the equipment functions safely and see that it is in proper working order before use.
- Avoid shaking and collisions.
- If you have any problems with this device, such as setup, maintenance, or use, please contact customer support. Don't open or repair the device by yourself.
- Please report to iProven if any unexpected operations or events occur.
- Place the device in a dry environment. Avoid sunlight and do not immerse in water. Also avoid dusty environments and unstable temperatures. All of these factors can impact and reduce the performance and lifetime of the device.
- Make sure children do not use the device unsupervised.

EMC Guidance

Guidance and manufacturer's declaration — electromagnetic emission

The iProven OXI-27 is intended for use in the electromagnetic environment specified below. The customer of the user of the iProven OXI-27 should assure that it is used in such an environment.

Emission test Compliance Electromagnetic environment — guidance

RF emissions CISPR 11	Group 1	The OXI-27 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
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RF emission CISPR 11	Class B	The OXI-27 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
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Error messages

Problem	Possible reason	Solution
The SpO2 and Pulse Rate cannot be displayed normally	1) The finger is not positioned properly 2) The user's SpO2 is too low to be detected 3) Poor blood circulation in fingers	1) Place the finger properly and try again 2) Try again; consult your doctor if you are sure the device works correctly 3) Move your fingers to stimulate blood circulation
The SpO2 and Pulse Rate are not displayed constantly	1) The finger is not placed inside deep enough 2) The finger is shaking or the user is moving	1) Place the finger properly and try again 2) Try to calm down and stop moving your finger
The device cannot be turned on	1) The batteries are low, or there are no batteries in the device 2) The batteries are not inserted properly 3) The device does not work properly	1) Change batteries 2) Reinstall batteries 3) Contact customer support via www.iproven.com
The display is off suddenly	1) The device powers off automatically when there is no signal within 16 seconds 2) The batteries are low	1) This is normal

CAUTION

- Remove batteries if the device is not likely to be used for some time.
- Worn batteries are harmful to the environment. Do not dispose with daily garbage.
- Remove the old batteries from the device following your local recycling guidelines.
- Do not dispose of batteries in fire. Batteries may explode or leak.
- The operator should not touch output of batteries /adapter and the user simultaneously. To avoid measurement errors, please avoid strong electromagnetic fields, radiated interference signal, or electrical fast transient/burst signal.

Symbols

	Type BF applied part
	Attention must be paid
%SpO2	The Pulse Oxygen saturation (%)
♥/min	Pulse rate (beats per minute)
	The battery voltage indication is deficient (change the battery in time to avoid inexact measurements)
---	1. No finger inserted 2. An indicator of signal inadequacy
	Waste electrical materials should be sent to a dedicated collection point for recycling
IP22	anti-dust and anti-water class

Description

Warranty

This device is subject to Limited Warranty. This covers any defects in materials or workmanship under normal use during the Warranty Period. iProven will either replace the product or repair the product at no charge, using new or refurbished replacement parts. The Warranty Period of this iProven product is 2 years from the date of purchase. A replacement product or product part assumes the remaining warranty of the original product purchase. This Limited Warranty does not cover batteries and packaging, nor any problem that is caused by conditions, malfunctions, or damage not resulting from defects in material or workmanship.

To obtain warranty service, contact our customer support at www.iproven.com to determine the problem and the most appropriate solution for your situation.

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Technical Specifications

Display information	
Display format	LED display
The Pulse Oxygen Saturation (SpO2)	Digital
Pulse Rate (PR)	Digital
Pulse intensity (bar-graph)	Digital bar-graph display
SpO2 Parameter Specification	
Measuring range	35%-100% (resolution is 1%)
Accuracy	70%-100%; +/-2% Below 70%; unspecified
Pulse Parameter Specification	
Measuring range	25bpm-250bpm (resolution is 1bpm)
Accuracy	+/-2bpm
Pulse Intensity	
Range	Continuous bar-graph display; the higher the bar on the display, the stronger the pulse
Battery requirement	
2x 1.5V (AAA size) alkaline battery	
Power Consumption	
Smaller than 35 mA	
Battery Life	
Two batteries can work continuously for 24 hours	
Power off	
The fingertip pulse oximeter can be powered off in case no finger is placed within the device for 16 seconds.	
Optical Sensor	
Red light (wavelength is 660nm) Infrared (wavelength is 905nm)	
Dimensions and Weight	
Dimensions	62 (L) x 37 (W) x 32 (H) mm
Weight	About 50 gram with the batteries