

# WearO2™

## Wearable Pulse Oximeter

### User Manual

#### 1. Introduction

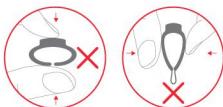
##### 1.1 Intended use

This product is intended to be used for measuring, displaying and storing of pulse oxygen saturation ( $SpO_2$ ), pulse rate of adults in home or healthcare facilities environment.

Note: This product is intended for general wellness use. It should not be used to directly diagnose or treat any medical condition.

##### 1.2 Warnings and Cautions

- DO NOT squeeze the sensor part or apply excessive force on it.



- Do not use this device during MRI examination.
- Do not use this device with a defibrillator.
- Do not store the device in the following locations: locations in which the device is exposed to direct sunlight, high temperatures or levels of moisture, or heavy contamination; locations near to sources of water or fire; or locations that are subject to strong electromagnetic influences.
- Do not use the device in a combustible environment (i.e., oxygen-enriched environment).
- Never submerge the device in water or other liquids.
- Do not clean the device with acetone or other volatile solutions.
- Do not drop this device or subject it to strong impact.
- The device and accessories are provided non-sterile.
- Do not place this device in pressure vessels or gas sterilization device.
- Do not dismantle the device, as this could cause damage or malfunctions or impede the operation of the device.
- Consult your doctor immediately if you experience symptoms that could indicate acute disease.
- Do not self-diagnose or self-medicate on the basis of this device without consulting your doctor. In particular, do not start taking any new medication or change the

- type and/or dosage of any existing medication without prior approval.
- Use only cables, sensors and other accessories specified in this manual.
- Prolonged continuous monitoring may increase the risk of undesirable changes in skin characteristics, such as irritation, reddening, blistering or burns.
- Do not open the device cover without authorization. The cover should only be opened by a qualified service personnel.

#### 1.3 Guide to Symbols

Symbol	Description
	Type BF-Applied Part
	Manufacturer
	Date of manufacture
	Follow Instructions for Use.
	MRI unsafe. Presents hazards in all MR environments as device contains strongly ferromagnetic materials.
	Protected against spraying water and against access to hazardous parts with a tool, per IEC 60529.
	Serial number
	Temperature limitation
	Humidity limitation
	Atmospheric pressure limitation
	Indicate separate collection for electrical and electronic equipment (WEEE).

#### 1.4 Unpacking

- Device ( main unit )
- User Manual
- USB Cable

#### 1.5 Overview

Wear the device. It continuously monitors your oxygen level, pulse rate and motion. The smart vibration will be triggered by low oxygen condition. Take off the device, run app to sync data. You can customize Smart Vibration in App.

## 2 Using the device and App

### 2.1 Download App

App name: [ViHealth](#)

iOS: [App Store](#)

Android: [Google Play](#)

**Notice:** if you have installed the App before, please update it to the latest version.

### 2.2 Charging

Charge the battery before using.

Connect the device to USB of computer or USB charging adapter.

After fully charged, the device will power off automatically.

### 2.3 POWER ON/OFF

#### POWER ON:

Click the button on the side to turn on the device.

#### POWER OFF:

Automatically: device turns off automatically in 2 minutes if no measurement, no operation, without App connection.

Manually: press the button for about 2 seconds to turn off.

### 2.4 Typical steps

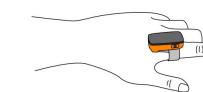
**START.** Charge the battery. Wear the device, press the button to power on.

**STOP.** Take off the device, the recording will be over after the countdown.

**DATA SYNC.** After the countdown run App to sync data. Check results in App.



### 2.5 Start monitoring



- Wear the device on thumb finger, index finger as option in case of too tight for thumb. Try to move the sensor along the forefinger to find out a best fit. Avoid being loose. Loose wearing causes inaccurate measure.
- Turn on the device. After a few seconds, the device will begin to monitor.

#### Notice:

- Avoid middle finger; avoid loose wearing.
- If the working time is less than 2 minute, the data will not be saved.
- Please avoid excessive motion for the sensed finger during recording and avoid any strong ambient light condition.

### 2.6 Stop monitoring & sync data

Take off the device, the countdown will begin.

Stop? 10

(If the working time is less than 2 minute, there will be no countdown)

During the countdown, if you wear the device again, the record will be resumed.

After the countdown, the data will be ready for sync.

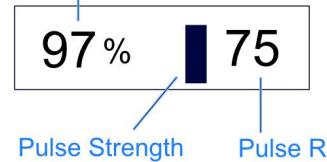
Sync data:

- After the countdown, run App to sync data;
- Or next time after you turn on the device, run App to sync.

**Notice:** The device can store maximum 4 records. The oldest record will be overwritten when the 5<sup>th</sup> record is coming in. Please sync data to your phone in time.

## 2.7 Display

### Blood Oxygen Saturation



During measurement, the screen will go off automatically for saving power; you can click the button to wake up the screen.

#### Check Battery:

During measurement, click the button, you can switch display between measurement readings (SpO<sub>2</sub> & Pulse Rate) and battery status.

## 2.8 Unavailable Symbol



When this symbol displays on device screen, it indicates the readings is unavailable right now.

It may caused by:

- Excessive movement;
- Poor signal, finger is too cold;

Usually, the readings will recover in a few seconds when at rest.

## 2.9 Bluetooth Connection

The device Bluetooth will be enabled automatically after it's turned on.

To establish a Bluetooth connection,

- 1) **keep the device Bluetooth enabled.**
- 2) **Make sure the phone Bluetooth is enabled.**
- 3) **Run the App.**

#### Notice:

- **DO NOT PAIR** in the settings of your smartphone.

## 2.10 Add a new device

For the **initial use**, you need to add a new device.

- 1) Turn on device, run App, select <WearO2>;
- 2) **Take off device**, input the **4 digits ID displayed on device**.

## 2.11 Real-time Dashboard

You can check real-time SpO<sub>2</sub>, Pulse Rate and battery in App.

- 1) Connect device to App.
- 2) App->Dashboard.

## 2.12 Smart Vibration

The vibrator in the sensor will be activated when the SpO<sub>2</sub> fall below the pre-set value (Threshold). The vibration will stop when the SpO<sub>2</sub> recover, or you can press the button to stop it.

You can customize the vibration to help you sleep better. Make sure your **device is connected** to App first. Then you can configure it in **App->Settings**.

- You can **switch on or off** the vibration.
- You can adjust the **Intensity** of vibration.
- You can adjust the **Threshold**.

## 2.13 View Results and Charts

In App, you can review all the history data. Tap a record, there comes out the detailed report, which includes analysis results and charts.

Slide a record to left, you can delete it.

## 2.14 App Offline Mode | Multiple Devices

If you enter App Offline Mode, you can view history data, in App Settings->Select Device, you can select device if you have multiple devices. In this Mode, device is not connected so you cannot sync data or set device.

## 3 Maintenance

### 3.1 Time & Date

After connection with App, device time will sync from your phone time automatically.

## 3.2 Cleaning

Use a soft cloth moistened with water or alcohol to clean the device surface.

## 3.3 Battery

To keep the battery in good condition, charge the battery every 6 months when the device is not in use.

## 4 Troubleshooting

Problem	Possible Cause	Possible Solution
Device does not turn on or no response	Battery may be low.	Charge battery and try again.
	Unexpected software condition.	Press the button for about 10 seconds to reset.
	Device might be damaged.	Please contact your local distributor.
The app cannot find the device	The Bluetooth of your phone is off.	Turn on the Bluetooth in the phone.
	The device Bluetooth is off.	Press the button, the Bluetooth will be turned on when the screen lights up.
	For Android, Bluetooth cannot work without location permission.	Allow location access.

## 5 Specifications

Environmental	Operating	Storage
Temperature	5 to 40°C	-25 to 70°C
Relative humidity (noncondensing)	10% to 95%	10% to 95%
Barometric	700 to 1060hPa	700 to 1060hPa
Protection against electric shock	Internally powered equipment	
Degree protection against electrical shock	Type BF	
Electro-magnetic compatibility	Group I, Class B	
Degree of dust & water resistance	IP64	
Weight	18g	
Size	44×26×17 mm	

<b>Battery</b>	3.7Vdc, Rechargeable Lithium-polymer
<b>Charge time</b>	2-3 hours
<b>Wireless</b>	Bluetooth 4.0 BLE
<b>Oxygen level range</b>	70% to 100%
<b>SpO<sub>2</sub> Accuracy (Arms)</b>	80-100%:±2%, 70-79%:±3%
<b>Pulse Rate range</b>	30 to 250 bpm
<b>Pulse Rate accuracy</b>	±2 bpm or ±2%, whichever is greater
<b>Vibration</b>	Triggered by low oxygen level
<b>Recorded parameters</b>	Oxygen level, Pulse Rate, motion
<b>Data storage</b>	4 records, up to 10 hours for each
<b>Mobile App for iOS</b>	iOS 9.0 or above, iPhone 4s/ iPad 3 or above
<b>Mobile App for android</b>	Android 5.0 or above, with Bluetooth 4.0 BLE
<b>Display interval in App data chart</b>	1 minute

Model: PO1

Version: F

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