

O2Ring™

Wearable Oxygen Monitor

User Manual

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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.

1. Introduction

1.1 Intended use

This product is intended to be used for measuring, displaying and storing of pulse oxygen saturation (SpO₂), pulse rate of adults in home or healthcare facilities environment for sleep or daily use.

Notice: This product is not a medical device. It 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.
- 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 based on 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.

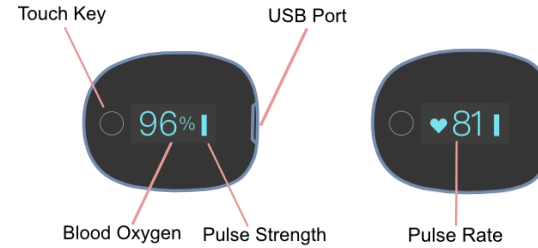
1.3 Guide to Symbols

| 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. |
| IP24 | Against ingress of solid foreign objects ≥ 12.5mm diameter, splashing. |
| SN | Serial number |
| | Temperature limitation |
| | Humidity limitation |
| | Atmospheric pressure limitation |
| | Indicate separate collection for electrical and electronic equipment (WEEE). |

1.4 Unpacking

- Device
- User Manual
- Data/Charging Cable

2 Overview



3 Using the Device and App

3.1 Charging

Charge the battery before using. Connect the device to computer USB or USB charging adapter with USB cable. After fully charged, the device will power off automatically.

3.2 POWER ON/OFF

POWER ON:

Wear the device, it will turn on automatically.

POWER OFF:

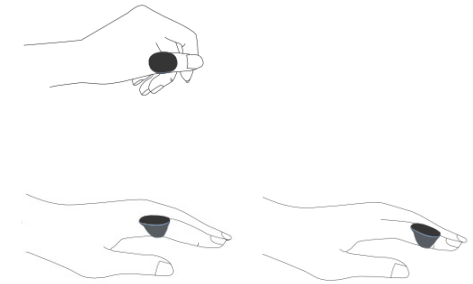
The device turns off automatically in a moment after you take it off.

3.3 Typical steps

- START.** Charge the battery. Wear the device 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. **OR** next time after you turn on the device, run App to sync.



3.4 Start working



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

Notice:

- Keep snug enough, loose wearing may cause inaccurate readings.
- DO NOT use middle finger; if too tight for thumb or forefinger, try little finger.
- If the working time is less than 2 minutes, the data will not be saved.
- Please avoid excessive motion.
- Please avoid strong ambient light condition.

3.5 Stop working & sync data

Take off the device, the countdown will begin. (If the working time is less than 2 minutes, 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 have been saved in device and ready to 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 built-in memory can store 4 sessions. The oldest will be overwritten by the 5th. Please sync data to your phone in time.

3.6 Screen Wake up

The screen will go off automatically for saving power in Standard Mode; you can touch the key on top to wake up the screen.

3.7 How to Check Battery

Touch the key on top, you can switch display between readings and battery.

3.8 Unavailable Symbol



When this symbol displays on device screen, it indicates the readings is unavailable right now. It may be caused by:

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

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

3.9 Bluetooth Connection

The device Bluetooth will be **enabled automatically after it is turned on.**

- 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 phone.**

3.10 Add a New Device

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

- 1) Turn on device, run App, select <O2Ring>.
- 2) Touch the key on top of device.

3.11 Smart Vibration by SpO₂

The vibrator in the sensor will be activated when the SpO₂ fall below the preset value (Threshold). The vibration will stop when the SpO₂ recover or by touching the key on the top of device.

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**. If the vibration disturbs you during sleep too much, you can lower the **Threshold**. If you would like to get more protection from oxygen shortage, you can turn up the **Threshold**.

3.12 Smart Vibration by Pulse Rate

When your pulse rate is above the Upper Threshold or below the Lower Threshold, vibration will be activated.

You can customize them in **App-Settings** during connection.

3.13 Screen Mode and Brightness

In App->Settings, you can set device screen mode during connection.

Screen Mode: **Standard; Always-on.**

You can also change screen brightness.

3.14 View Report

In App->History,

- Tap an item in the list, you can check the detailed report, which includes analysis results and diagrams.
- Slide an item to left, you can delete it.



3.15 O₂ Score

O₂ Score is overall assessment of oxygen condition, which synthesizes the frequency, depth and duration of oxygen shortage overnight. The range is 0-10 (10 is best). It is provided for each record in App.

Example:



3.16 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.

4 PC software

PC Software: O2 Insight Pro

Download from:

<https://www.lookeetech.com/pages/downloads>

If you are using Mac, please download the App "O2 insight Pro" from App Store.

Install the software on Windows PC (win 7/8/10).

- 1) Turn on device, connect the device to PC USB port with **the supplied Data Cable (it is different from universal USB cable)**
- 2) Run the PC software, click the **Download** button to download data from the device

With the PC software, you can view and print sleep report, which can also be exported as PDF or CSV files.

Note: while the device is being connected to app, it cannot connect to PC software.

5 Maintenance

5.1 Time & Date

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

5.2 Cleaning

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

6 Troubleshooting

| Problem | Possible Cause | Possible Solution |
|--|--|---|
| Device does not turn on or no response | Battery may be low. | Charge battery and try again. |
| | Device might be damaged. | Please contact your local distributor. |
| | Software exception | Keep device in charging, touch the key for 8 seconds. |
| 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. | Turn on device |
| | For Android , Bluetooth cannot work without location permission | Allow location access |

7 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 | IP24 | |
| Weight | 15 g | |
| Size | 38×30×38 mm | |
| Battery | 3.7Vdc, Rechargeable Lithium-polymer | |
| Charge time | 2-3 hours | |
| Battery life | 12-16 hours for typical use | |
| Wireless | Bluetooth 4.0 BLE | |
| Oxygen level range | 70% to 99% | |
| SpO ₂ Accuracy (Arms) | 80-99%: ±2%, 70-79%: ±3% | |
| Pulse Rate range | 30 to 250 bpm | |
| Pulse Rate accuracy | ±2 bpm or ±2%, whichever is greater | |
| Vibration source | low oxygen level. high/low pulse rate | |
| Recorded parameters | Oxygen level, Pulse Rate, motion | |
| Data storage | 4 sessions, up to 10 hours for each | |
| Mobile App for iOS | iOS 9.0 or above, iPhone 4s/ iPad 3 or above | |
| Mobile App for android | Android 5.0 or above, with <i>Bluetooth</i> 4.0 BLE | |

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Model: PO2
Version: F