# LOOKEE® KidsO2™ Sleep Monitor

# User Manual

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## Dowload 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.*
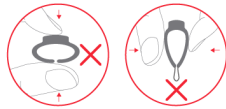
## 1. Introduction

### 1.1 Intended use

This product is intended to be used for sleep and activity tracking for children from 3 – 10 years old.

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 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 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 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.
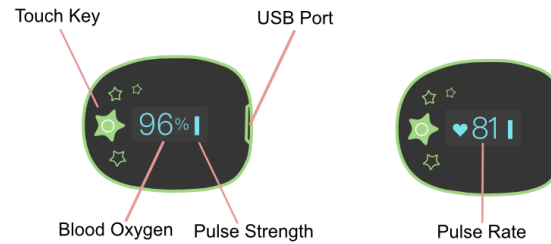
### 1.3 Guide to Symbols

| Symbol | Description |
| --- | --- |
| | Type BF-Applied Part |
| | Manufacturer |
| | Date of manufacture |
| | Follow Instructions for Use. |
| MR | MRI unsafe. Presents hazards in all MR environments as device contains strongly ferromagnetic materials. |
| IP22 | Against ingress of solid foreign objects ≥12.5mm diameter, Against dripping (15° tilted) |
| 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



Touch Key    USB Port
Blood Oxygen    Pulse Strength    Pulse Rate

## 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:**
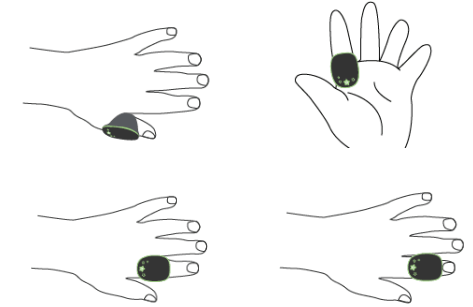Wear the device, it will turn on automatically.

**POWER OFF:**
The device turns off automatically in a moment after you take it off.

### 3.3 Typical steps

1) **START.** Charge the battery. Wear the device to power on.

2) (Optional step) **Monitor**. In App Dashboard, you can monitor the real-time oxygen levels, heart rate and PI.

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

4) **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



1) Wear the device on finger.
2) Device will turn on automatically. After a few seconds, the device will begin to work.

To choose the wearing finger: all fingers can be used for wearing, from thumb to little finger. To get an accurate reading, the wearing should not be loose. For proper wearing, there should be no gap between the inner side of the ring and finger skin.

(As a general recommendation, thumb or index finger may be a good choice for kids 3 to 7 years old; Middle finger, ring finger or little finger may be a better option for kids 5-10 years old. for reference only)

*Notice:*
- *Tight wearing is helpful for measurement but may increase the risk of adverse effect to the skin. Always take close care of the skin condition during long-time wearing*
- *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 Check Pulse Signal Index（PI）
In App Dashboard, you can check the PI Bar (Pulse Signal Index), green indicates good signal. If it is orange or red, try to change a finger to get better pulse signal (higher PI).

Poor signal (low PI) may cause inaccurate readings.

### 3.6 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.*

### 3.7    Screen Wake up

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

### 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, PI is low.

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

### 3.9    How to Check Device Battery

Touch the key on top, you can switch display between readings and battery.
In App Dashboard, you can also check battery level.

### 3.10    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 phone.*

### 3.11    Add a New Device

**For the initial use**, you need to add a new device.
1) Turn on device, run App, select <KidsO2>.

2) Touch the key on top of device.

### 3.12    Audio Reminder in Device and App

There are two independent Audio Reminders in device and App. The Reminder will be activated when the $SpO_2$ fall below the pre-set value (Threshold).

### 3.13    Audio Reminder in Device

You can configure it in **App-Settings** when your device is connected to App.
- You can **switch on or off** the reminder.
- You can adjust the volume of the reminder.
- You can adjust the **Threshold**.

The reminder will stop when $SpO_2$ recover, or you can press the key to stop it.

### 3.14    Audio Reminder in App Dashboard

You can configure it in **App-Settings**.
- You can **switch on or off** the reminder.
- You can adjust the **Threshold**.

The volume is same as your phone's volume.
The Reminder works only when your phone stayed in Dashboard and not locked.

The Reminder in Dashboard will be activated when $SpO_2$ fall below the pre-set value (Threshold).

The Reminder will stop when the $SpO_2$ recover. You can press the Mute icon on Dashboard to mute.

### 3.15    View Report

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

### 3.16    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:

O2 Score 7.5    0 ——————— 10    (in the APP)

### 3.17    App Offline Mode

If you enter App Offline Mode, you can view history data without connection.

### 3.18    Data of Multiple Devices

Enter Offline Mode. In App **Settings->Select Device**, you can select device **if you have multiple devices** to check data of another device. 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 | IP22 | |
| Weight | 12 g | |
| Size | 38×30×27 mm | |
| Battery | 3.7Vdc, Rechargeable Lithium-polymer | |
| Charge time | 2-3 hours | |
| Battery life | 14 hours for typical use | |
| Wireless | Bluetooth 4.0 BLE | |
| Oxygen level range | 70% to 99% | |
| SpO2 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 | |
| Reminder source | low oxygen level; | |
| 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 *Bluetooth* 4.0 BLE | |

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Model: PO4        Version: B