KidsO2[™]

Wearable Oxygen Monitor

User Manual

Download App

Download the ViHealth App from iOS App Store or Google Play Store, or scan the QR code.

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 users in home or healthcare facilities environment.

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 dester immediately if your exercises
- 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.
- The device shall only be maintained by qualified professionals.
- The manufacturer shall provide the service personnel with circuit diagrams, component part descriptions, calibration instructions, or information that will assist service repair the device.

1.3 Guide to Symbols

Symbol	Description		
***	Manufacturer		
~~~	Date of manufacture		
SN	Serial number		
X	Indicates a medical device that is not to be disposed of as unsorted municipal waste.		
<b>&amp;</b>	Follow Instructions for Use.		
Ŕ	Type BF Applied Part		
$\bigotimes$	No alarm system		
MR	MRI unsafe. Presents hazards in all MR environments as device contains strongly ferromagnetic materials.		
IP22	Resistant to liquid ingress		
<b>C E</b> 0197	CE marking		
EC REP	Authorized representative in the European community		

UK CA	UKCA marking	
UK REP	Authorized Representative in the United Kingdom	
((⊷)))	Non-ionizing radiation	
	This product complies with verpackG.	
	Our products and packaging can be recycled, don't throw them away!	
().÷	Find where to drop them off on the www.quefairedemesdechets.fr site	
	(Only applicable for French market).	

## 1.4 Unpacking

- Device
- User ManualData/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.

Pulse Rate

## 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) 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.

**Notice:** In App Dashboard, you can monitor the real-time oxygen levels, heart rate and PI.

## 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.

#### 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 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; you can touch the key on top to wake up the screen.

#### 3.7 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.

## 3.8 How to Check Device Battery and Time

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

#### 3.9 Bluetooth Connection

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

- To establish a Bluetooth connection,
  - Keep the device Bluetooth enabled.
- 2) Make sure the phone Bluetooth is enabled.
- 3) Run the App.

1)

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 <KidsO2>;2) Touch the key on top of device.

#### 3.11 Audio Reminder in Device and App

There are two independent Audio Reminders in device and App.

The Reminder will be activated when the  $\text{SpO}_2$  fall below the pre-set value (Threshold).

#### 3.12 Audio Reminder in Device

You can configure it in App's [Profile]->[My device] when your device is connected.

- 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  $\text{SpO}_2$  recover, or you can press the key to stop it.

The Reminder works only when your phone stayed in

The Reminder in Dashboard will be activated when SpO2

The Reminder will stop when the SpO₂ recover. You can

Tap an item in the list, you can check the report,

which includes analysis results and diagrams.

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

(in the APP)

Slide an item to left, you can delete it.

#### 3.13 Audio Reminder in App Dashboard

You can configure it in App's [Profile]->[My device].

- You can switch on or off the reminder.
- You can adjust the Threshold.

fall below the pre-set value (Threshold).

press the Mute icon on Dashboard to mu

Dashboard and not locked.

**3.14 View Report** In App->[History],

O2 Score

provided for each record in App.

O2 Score 7.5

3.15

Example:

The volume is same as your phone's volume.

## 3.16 Data of Multiple Devices

In App's [Profile]->[Select Device], you can select device if you have multiple devices to check data of another device .

## 4 PC software

PC Software: O2 Insight Pro

Download from:

<u>https://getwellue.com/pages/pc-software</u> Install the software on Windows PC (win 7/8/10) or

MacOS (10.15 or above).

- 1) Turn on device, connect the device to PC USB port with the supplied Data Cable (it's different from
- universal USB cable)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 can't 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	Battery may be low.	Charge battery and try again.	
does not turn on	Device might be damaged.	Please contact your local distributor.	
or no response	Software exception	Keep device in charging, touch the key for 8 seconds.	
	The Bluetooth of your phone is off.	Turn on the Bluetooth in the phone.	
The app cannot find the device	The device Bluetooth is off.	Turn on device	
	For <b>Android</b> , 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 (non-condensing)	10% to 95%	10% to 95%	
Barometric	700 to	700 to	
barometric	1060hPa	1060hPa	
Protection against	Internally nowe	red equipment	
electric shock	Internally powered equipment		
Degree protection			
against electrical	Type BF		
shock			
Electro-magnetic	Group I, Class B		
compatibility			
Degree of dust &	IP22		
water resistance			
Weight	12 g		
Size	38mm×30mm×3	27 mm	
Battery	3.7Vd.c., Rechargeable		
Dattery	Lithium-polymer		
Charge time	2-3 hours		
Battery life	14 hours for typical use		
Wireless	Bluetooth 4.0 BLE		
Oxygen level range	70% to 100%		
SpO2 Accuracy (Arms)	80-100%:±2%, 7	70-79%:±3%	
Pulse Rate range	30 to 250 bpm		
Pulse Rate accuracy	±2 bpm or ±2%, whichever is		
Fuise Nate accuracy	greater		
Reminder source	low oxygen level; high/low		
Nemmaer source	pulse rate		
Recorded parameters	Oxygen level, Pulse Rate		
Data storage	4 sessions, up to 10 hours for		
Data Storage	each		
Frequency range	2.402-2.480GHz	2	
Max RF power	-10 dBm		

Expected service life	3 years
Mahila Ann fan iOC	iOS 9.0 or above,
Mobile App for iOS	iPhone 4s/ iPad 3 or above
Mobile App for	Android 5.0 or above,
android	with Bluetooth 4.0 BLE
Wavelength/Max	660nm/940nm, 0.8mW/1.2mW
emission power	

## Appendix EMC

The equipment meets the requirements of IEC 60601-1-2:2014.

Table 1

8

Guidance and manufacturer's declaration-electromagnetic emission The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment- guidance	
RF emissions CISPR 11	Group 1	The Pulse Oximeter 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.	
RF emissions	Class B		
CISPR 11			
Harmonic emissions IEC61000-3-2	N/A	The Pulse Oximeter suitable for use in all establishments, including domestic establishments and those directly network that supplies	
Voltage fluctuations/flicker emissions IEC61000-3-3	N/A	buildings used for domestic purposes.	
Table 2			

Guidance and manufacturer's declaration-electromagnetic emission The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of the Pulse Oximeter should assure that it is used in such an environment.

Immunity test	IEC60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge(ESD) IEC61000-4-2	±8 kV contact ±15kV air	±8 kV contact ±15kV air	Floors should be wood, concrete or ceramic tile. if floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/ burst IEC61000-4-4	±2kV for power Supply lines ±1 kV for input/output lines	N/A	N/A
Surge IEC 61000-4-5	±1kV line (s) to line(s) ±2kV line(s) to earth	N/A	N/A
Voltage dips, short interruptions and voltage variations on power supply input lines IEC61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle <40% UT (60% dip in UT) for 5 cycles <70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 s	N/A	N/A
Power frequency (50Hz/60Hz) magnetic field IEC61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE: UT is the level.	a.c. mains voltage	prior to applica	tion of the test
Table 3			

Guidance and manufacturer's declaration – electromagnetic immunity

The Pulse Oximeter is intended for use in the electromagnetic environment specified below. The customer or the user of The Pulse Oximeter should assure that it is used in such an electromagnetic environment.

Immunity	IEC60601 test	Compliance	Electromagnetic
test	level	level	environment -guidance
			Portable and mobile RF
			communications equipment
			should be used no closer to
			any part of the Pulse
			Oximeter, including cables,
			than the recommended
			separation distance
Conducted	3 Vrms		calculated from the equation
RF	150 kHz to 80	N/A	applicable to the frequency
IEC61000-	MHz		of the transmitter.
4-6			Recommended separation
			distance
	3 V/m	3 V/m	d=1.2 $\sqrt{P}$
	80 MHz to 2.5	5 1/11	d=1.2 $\sqrt{P}$ 80MHz to 800MHz
Radiated	GHz		d=2.3 $\sqrt{P}$ 800MHz to 2.5GHz

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection

from structures, objects and people. a: Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, and electromagnetic site survey should be considered. If the measured field strength in the location in which The Pulse Oximeter is used exceeds the applicable RF compliance level above, The Pulse Oximeter should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating The Pulse Oximeter.

b: Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3V/m.

Table 4

IEC

4-3

Recommended separation distances between portable and mobile RF communication the equipment

The Pulse Oximeter is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of The Pulse Oximeter can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Pulse Oximeter as recommended below, according to the maximum output power of the communications equipment

equipment.			
Rated	Separation distance according to frequency of		
maximum	transmitter M(Meters)		
output power	150kHz to	80MHz to	80MHz to
of transmitter	$\frac{80MHz}{d=1.2}\sqrt{P}$	$300MHz_d=1.2\sqrt{P}$	2,5GHz d=2.3 $\sqrt{P}$
W(Watts)	$d=1.2\sqrt{P}$	$d=1.2\sqrt{P}$	$d=2.3\sqrt{P}$
0,01	N/A	0.12	0.23
0,1	N/A	0.38	0.73
1	N/A	1.2	2.3
10	N/A	3.8	7.3
100	N/A	12	23
For transmitter	s rated at a maxim	num output power r	not listed above,
the recommend	ded separation dis	tance in metres (m)	) can be
determined usi	ng the equation a	pplicable to the free	quency of the

determined using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations.

Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

## Copyright

This manual is written by our company and all rights reserved. Without our company's prior written consent, no part of this manual may be reproduced or copied in any form or method.

## Illustration

All illustrations provided in this manual are for reference only, and the settings or data in the illustrations may not be exactly the same as the actual display you see on the product.



#### Shenzhen Viatom Technology Co., Ltd.

4E, Building 3, Tingwei Industrial Park, No.6 Liufang Road, Block 67, Xin'an Street, Baoan District, Shenzhen, 518101, Guangdong, China www.viatomtech.com



EC

Borkstrasse 10, 48163 Muenster, Germany Tel: +49 251 32266-0 Fax: +49 251 32266-22 Email: contact@mednet-ecrep.com

## UK REP MediMap Ltd

2 The Drift, Thurston, Suffolk IP31 3RT, United Kingdom Tel: +49 251 32266-0 Fax: +49 251 32266-22

Email: contact@mednet-ecrep.com

Australia Sponsor: SHARE INFO PTY LTD Add: 4 Allnutt ct, Cheltenham, melbourne, VIC 3192, Austrilia

R	$\left( ((\bullet)) \right)$	X	
			FR We have a second se

Product name: Pulse OximeterModel: PO4Version: EDate: Jan. 10, 2024PN: 255-04061-CE