



User Manual v2.3
Item 700030

Smart Bluetooth Pulse Oximeter Blood Oxygen Monitor



Thank you for selecting the MOBI® Smart Bluetooth Pulse Oximeter and Blood Oxygen Monitor.

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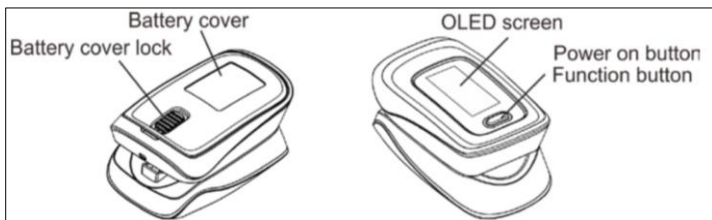
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What's In the Box

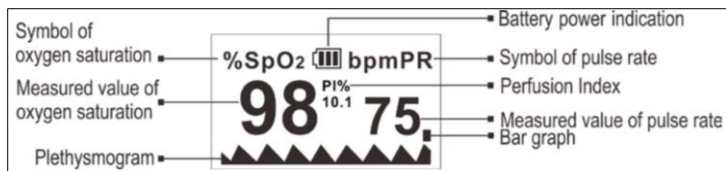
1. 1 x Oximeter
2. 2 x AAA Batteries
3. 1 x Carrying Bag
4. 1 x User Manual
5. 1 x Lanyard

Product Information

The MOBI® Smart Bluetooth Pulse Oximeter is an easy-to-use device that allows you to track and share your blood oxygen saturation, pulse rate, and pulse strength. MOBI® Smart App helps to record, track, and share the results with any family member or healthcare provider.



The following figure shows the information display on the OLED screen of the Oximeter in normal measurement state:



Note: Battery power indication and Bluetooth symbol will alternately display.

The following factors may cause disturbance to or affect the accuracy of examination:

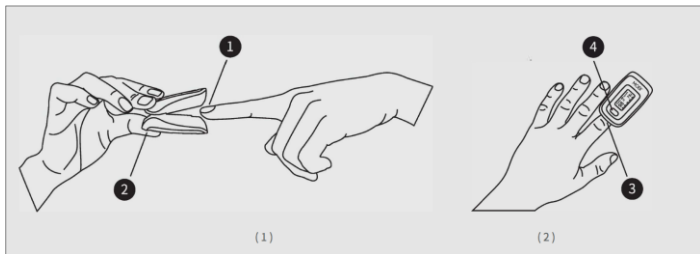
- This product is used in an environment involving high-frequency devices, such as high-frequency electric knives and CT apparatuses.
- The probe of the Oximeter is placed on the same body part or limb as with blood pressure cuff arterial duct or intravenous injection.
- The user suffers from hypotension, severe vascular atrophy, severe anemia, or low oxygen.
- The user is in sudden cardiac arrest or shock state.
- The finger with nail polish or a fake fingernail may cause wrong readings of pulse oxygen saturation

Intended Use

The Fingertip Pulse Oximeter is non-invasive device intended for spot-checking of functional oxygen saturation of arterial hemoglobin (SpO₂) and pulse rate. The portable fingertip device is indicated for adult and pediatric patients at home and hospital environments. Intended user: Professional or lay person.

Use Oximeter (Without the App)

1. Remove the battery cover and install included 2x AAA batteries.
2. Press the power button and insert your finger into the oximeter.
3. The device will automatically begin to read and display your results.



Notice



Insert one finger into the chamber completely.



Keep nails clean no nail polish.



Keep steady Don't shake your fingers or body.



Operating temperature 41 - 104 °F (5 - 40 °C).



Working environment Do not use in MRI or CT environment.



Monitoring time Continuous monitoring is not recommended.



Use Oximeter (With the App)

Download the MOBI® Smart App



App Store

Download the MOBI® Smart App from the App Store or Google Play Store.

For the best experience, please grant the MOBI® Smart App access to the following Permissions:

1. Location Access
2. Local Network Access
3. Bluetooth Access

Connecting Device to App

1. Signup/Login to the MOBI® Smart App.
2. Ensure that Bluetooth is active on your mobile device.

3. Once in the MOBI® Smart App home screen, tap “Add device”, then select Smart Bluetooth Pulse Oximeter.
4. Follow the setup steps outlined in the MOBI® Smart App.
5. After successfully connecting, edit your device name for easier management or edit later.
6. After connecting, you'll be redirected to set up a custom health profile by selecting your gender, date of birth, height, and weight.
7. Insert your finger into the oximeter, and open MOBI® Smart app. The app will begin to track and display your data on screen.
8. To save your data, remove your finger from the oximeter and return to the MOBI® Smart App.
9. After viewing your device results on the app, tap “Save.”
10. The MOBI® Smart Bluetooth Pulse Oximeter saves your readings in its memory when you're not connected to the app. When you reconnect to your phone, it sends all the stored readings to the app so you can see your complete history.

Symbol Conventions

Symbol	Description
	Applied apart of type BF(The applied apart is the probe tip)
	Caution: Please see this manual.
%SpO₂	Symbol of oxygen saturation
bpmPR	Symbol of pulse rate
	NoSPO2 alarms.
	Refer to Operating Instructions
IP22	IP22: The first number 2: Protected against solid foreign objects to 12.5mm and greater. The second number: Protected against
	Bluetooth symbol
	Compliance with WEEE Standard
	Temperature limitation
	Humidity
	Atmospheric Pressure

Device Settings

1. To adjust the oximeter settings, hold down the power button for 2-3 seconds.
2. The currently highlighted setting will display a " * " icon next to it.
3. Press and release the power button to navigate through the other settings.
4. Hold the power button for 2 seconds to select/edit a setting option.
5. To exit settings mode, move the " * " icon next to the "Exit" setting option and then hold the power button for 2 seconds.

Alert Sound Setting

Hold the power-on button while the Oximeter is in powered-on state. Move "*" to the Alert Setup page and then move to corresponding option from below options and hold the functional button to set Alert to on and set Beep to off. When Alert is set to on and the measured values of the blood oxygen saturation and pulse rate go beyond the upper limit or lower limit, the Oximeter gives off an alert sound. When Alert is set to off and the measured values go beyond the limit, the Oximeter will not give any alert sound. When Beep is set to on, a tick will be heard along with pulse beats during pulse rate



measurement. When Beep is set to off, no sound will be output along with pulse beats during pulse rate measurement. While the "*" symbol stays on the Restore option, hold the functional button to restore factory settings.

Brightness Setting

On the Alert Setup Screen, press the power-on button to select the **Brightness** option and then hold the power-on button to set the brightness to a value ranging from 1 to 5. The greater the value, the greater the brightness of the screen.

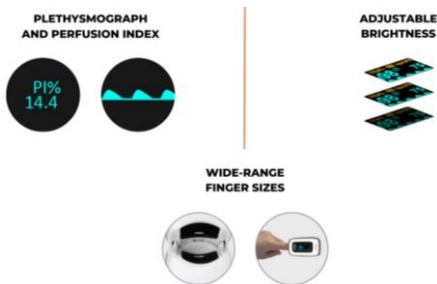
Alert Range Setting

On the Limit Setup Screen, press the power-on button to switch between options. On this screen, you can set the upper limit and lower limit of **SpO2 Alert** and **PR Alert**. While the "*" symbol stays on the +/- option, hold the functional button to set the option to + or -. In + mode, select the corresponding option and hold the power-on button to increment the upper or lower limit; in - mode, hold the power-on button to discrete the upper or lower limit. Move "*" to the **Exit** option and hold the power-on button to return to the monitoring interface.

Features

- Blood Oxygen Saturation, Pulse Rate, and Pulse Strength with waveform.
- Can be used independently or used with MOBI® Smart App for added features.
- App Feature: Wi-Fi connection allows multiple user profiles to track each family member independently
- App feature: Includes ability to save comments with reading, powerful reporting & graphs for Daily, Weekly, Monthly or Yearly trends + Export options.
- Easy to read High-resolution color OLED display.
- Results in 10 seconds.
- Ideal for Pediatric and Adult use.
- Lightweight, portable and fits a wide range of finger sizes.
- Automatic power-off with low battery indicator
- Uses 2 x AAA batteries (included).

The MOBI® Smart Bluetooth Pulse Oximeter adopts Photoelectric Oxyhemoglobin Inspection Technology in conjunction with Capacity Pulse Scanning Recording Technology.



Technical Specifications

1. Dimensions: 2.44 inches (Width) × 1.5 inches (Depth) × 1.3 inches (Height)
Weight: 1.02 Ounces (excluding the two AAA batteries).
2. Peak wavelength range of the light emitted from the probe: red light 660 nm $\pm$ 3, infrared light 905 nm $\pm$ 5.
3. Maximum optical output power of the probe: 1.2 mw for infrared light (905 nm)
4. Bluetooth module: 5.0 (single mode)
5. Manufacturing date: see the label.
6. Normal working conditions.

Working Temperature	41°F to 104°F (5°C to 40°C)
Relative Humidity	15% to 80 %, non-condensing
Atmospheric Pressure	70 kPa to 106 kPa
Rated Voltage	DC 3.0 V

Default values and conditions of alert

Parameter	Value
Oxygen saturation	Upper limit: 100 Lower limit: 94
Pulse rate	Upper limit: 130 Lower limit: 50
Alert condition	When the alert switch is on and the actual measured value goes beyond the preset alert parameter range, the Oximeter gives an alert sound.

Technical parameters

Parameter		Value
Display range	Oxygen saturation	35% to 100%
	Pulse rate	25 bpm to 250 bpm
Resolution	Oxygen saturation	1%
	Pulse rate	1 bpm
Measurement precision	Oxygen saturation	±2% (70% to 100%) No requirement (≤ 69%)
	Pulse rate	±2 bpm
Alert range	Oxygen saturation	Upper limit: 50% to 100% Lower limit: 50% to 100%
	Pulse rate	Upper limit: 25 bpm to 250 bpm Lower limit: 25 bpm to 250 bpm
Alert error	Oxygen saturation	± 1% of the preset value
	Pulse rate	The greater of ±10% of the preset value and ±5 bpm



Battery Safety

Use the batteries recommended.

- Make sure the battery compartment is secure.
- Insert batteries correctly , following proper polarities.
- Store unused batteries in their packaging and keep away from metal objects which could cause a short circuit.
- Remove dead batteries from the Oximeter.
- Remove batteries from the Oximeter if they will not be used for a prolonged period.
- Keep loose batteries away from young children.
- Seek medical advice if a battery has been swallowed.

Warnings:

- Never dispose of batteries in a fire. Never attempt to recharge ordinary batteries.
- Do not mix old and new batteries
- Do not mix alkaline, standard (carbon-zinc) , or rechargeable (ni-cad, ni-mh, etc.) batteries

Maintenance

- Remove the batteries from the battery slot and properly store them if you do not plan to use the oximeter for a long period of time.
- Store the oximeter between 14°F and 122°F (14 °F to + 122°F) and at humidity levels 10%-93%.
- Periodically check the oximeter for damage.
- Avoid using the oximeter in an environment with inflammable gases or using it in an environment where the temperature or humidity is excessively high or low.
- Check the accuracy of the oxygen saturation and pulse rate readings by using an appropriate calibration apparatus.

Storage and Transportation

Packaged products should be stored in well-ventilated rooms without corrosive gas and with an ambient temperature of -10°C to +50°C, a relative humidity 10%- 93% (without condensation), and an atmospheric pressure of 50-106 kPa.

Precautions

- Do not attempt to service the oximeter unless you are professional engineers. Only professionals with maintenance qualifications are allowed to perform interior maintenance as necessary.
- Periodically change the contact position between the oximeter probe and the finger for a measurement that lasts a long time. Adjust the position of the probe before the measurement lasts two hours, and check the integrity of skin, the blood circulation condition of the finger as well as the position of the finger.
- This product is not applicable to the examination of newborn babies.
- Seek medical care in time if the measured value goes beyond the normal range while you are sure that the instrument does not malfunction.
- Do not directly expose your eyes to light-emitting components of the oximeter, as that could cause harm to your eyes.
- For details about clinical limitations and contraindications, please carefully consult relevant medical literature.

Warnings

- Do not use the oximeter in an environment with any inflammable gases, inflammable anesthetic, or other inflammable substances.
- Do not attempt to charge any common dry battery, as that could cause leakage, fire disaster, or even explosion. Dispose of exhaust batteries in accordance with environment protection regulations.
- Do not use the oximeter in an MRI or CT environment. Warning: Do not operate the oximeter when it is damp with overflow or water vapor condensation. Avoid moving the oximeter from an excessively cold environment to a high-temperature moist environment.
- Keep unit and lanyard away from children as the included lanyard may present an entanglement or choking hazard to small children. Adult supervision required; never leave children unattended with unit or lanyard.



EMC Information-Guidance and Manufacture's Declaration

1* WARNING: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.”

2* WARNING: Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.”

3* WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of the ME equipment, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.”

Table 1

declaration - electromagnetic emission	
Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Not applicable
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable

Table 2

declaration - electromagnetic immunity		
Immunity test	IEC 60601 test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	Not applicable
Surge IEC 61000-4-5	± 0.5kV, ± 1 kV line(s) to lines ± 0.5kV, ± 1 kV, ± 2 kV line(s) to earth	Not applicable

Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0° 0 % UT; 250/300 cycles	Not applicable
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m
NOTE: UT is the AC mains voltage prior to application of the test level.		

Table 3

declaration - electromagnetic immunity		
Immunity test	IEC 60601 test level	Compliance level
Conducted RF IEC 61000-4-6	3 V 0.15 MHz to 80 MHz 6 V in ISM bands between 0.15 MHz and 80 MHz	Not applicable
Radiated RF IEC 61000-4-3	10V/m 80 MHz to 2.7 GHz	10V/m

Table 4

declaration - IMMUNITY to proximity fields from RF wireless communications equipment					
Immunity test	IEC60601 test level				Compliance level
	Test frequency	Modulation	Maximum power	Immunity level	
Radiated RF IEC 61000-4-3	385 MHz	**Pulse Modulation: 18Hz	1.8W	27 V/m	27 V/m
	450 MHz	*FM+ 5Hz deviation: 1kHz sine	2 W	28 V/m	28 V/m
	710 MHz 745 MHz 780 MHz	**Pulse Modulation: 217Hz	0.2 W	9 V/m	9 V/m
	810 MHz 870 MHz 930 MHz	**Pulse Modulation: 18Hz	2 W	28 V/m	28 V/m

1720 MHz	**Pulse Modulation: 217Hz	2 W	28 V/m	28 V/m
1845 MHz				
1970 MHz				
2450 MHz	**Pulse Modulation: 217Hz	2 W	28 V/m	28 V/m
5240 MHz	**Pulse Modulation: 217Hz	0.2 W	9 V/m	9 V/m
5500 MHz				
5785 MHz				

Note* - As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be the worst case.

Note** - The carrier shall be modulated using a 50 % duty cycle square wave signal.

FCC Statement

This device complies with Part 15 of the FCC Rules Operation is subject to the following two conditions:

(1) this device may not cause harmful interference.

(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a



particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Limited Product Warranty

MOBI® warrants its products to be free from defects in material and workmanship for period of (90 Days) from the date of purchase. Should the product prove to be defective at any time during the warranty period, we would either replace or repair the product at our option without charge. After the warranty period, a service charge will apply for replacement of parts and labor costs. To obtain warranty service, you must return the product complete with its original parts & accessories along with a copy of the original purchase, gift, or registry receipt to us. This warranty does not cover damage caused by any tampering, accident, misuse, abuse, improper maintenance, unauthorized modification, or connection to an improper power supply. There will be a charge for repair caused for such damage. This warranty becomes void upon purchase from an unauthorized, third-party seller. This warranty excludes all incidental or consequential damages and any liability other than stated above.



Extended Manual

Scan to find the most up-to-date Instruction Manual & Warranty Details.



If you experience issues setting up your device, visit www.mobiusa.com/gethelp.

Email us at **service@getmobi.com**.

You can also reach us on **+1 (323) 904-3000**,
Monday - Friday, 8:30 AM - 5:00 PM PST.



Visit www.mobiusa.com

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