Check mate"

Dear Customer.

Thank you for purchasing the SPO Check Mate. By purchasing this SPO product, you have chosen a high quality device. We are sure you will be fully satisfied with your new Sport Pulse Oximeter. Please take time to read the following instructions before using the unit for the first time. If you still have questions, please contact your local dealer for assistance or you may contact us at m/help www.spomed

Statement of Use: Spot-check pulse oximetry is a useful tool for sports enthusiasts and pilots interested in monitoring blood oxygen saturation (%SpO2) and pulse rate. The Check Mate Pulse Oximeter works by shining both red and infrared light into the skin and detecting the amount of each reflected onto the photodetector. This signal is then analyzed by internal software that determines oxygen saturation and pulse rate. As an example, an oxygen saturation reading of 98 indicates that the 98 percent of the hemoglobin in you blood is saturated with oxygen. The table below shows the values for a healthy individual at various altitudes without supplemental oxygen. These values are approximations and are for reference only. Your actual reading may vary. These levels DO NOT indicate safe levels of blood oxygen saturation, especially as altitude increases

Altitude	Sea Level	3,000 m 10,000 ft	6,000 m 20,000 ft	9,000 m 30,000 ft
Barometric Pressure (mmHg)	760	523	349	226
Partial Pressure of 0 ₂ in air (mmHg)	159	110	73	47
Partial Pressure of 0₂ in Alveoli	104	67	40	30
Arterial Oxygen Saturation	97	94	78	63

Safety:

- Check Mate readings should be regarded as approximate measurements only and are not intended for medical use.
- Seek medical advice if you have a pre-existing medical condition before beginning any physical activity at altitudes higher than where you live.
- Altitude-related illnesses may appear at lower altitudes, but become more likely above 8,000 feet, and are much more frequent above 12,000 feet regardless of physical condition and acclimatization.
- Interpretation of your SpO2 readings at high altitudes
- should be performed only with expert medical advice. The Check Mate Pulse Oximeter is a precision electro-optical device that, with the exception of replacing the battery, has no user serviceable or adjustable components inside. The Check Mate must be serviced by trained SPO Medical personnel only.
- If the Check Mate is severely mechanically damaged or the LCD presentation is blurred, the device must not be used and must be disposed of unless it is under warranty.
- If the thimble changes color or is not elastic enough (the Check Mate falls from the finger) it is recommended not to use the unit.
- Check Mate is not water-proof. Water penetration
- invalidates the warranty. Please note that Check Mate includes a lithium battery that should be disposed of in accordance with the accepted standards for disposal of used batteries
- The device should only be used on intact skin Do not use cellular phones or other radio frequency producing devices near the working unit - it may interfere with proper operation of the unit.

System parts:

- Check Mate unit
- Carrying strap
- Storage case (Optional)
- User instructions

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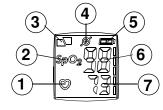
Device components:

- 1. Elastic thimble
- 2 On/off and back-illumination button
- 3. Liquid crystal display (LCD)
- 4 Plastic casing 5. Battery cover
- 6



Liquid Crystal Display indicators and symbols: 1.Pulsing heart indicator

- 2.SpO₂ legend
- 3."Sensor off" indicator
- 4. "Weak signal" indicator 5. "Battery status" indicator
- 6.Saturation rate (%)
- 7. Heart pulse rate (bpm)



Please note before use:

□ All activity should cease prior to initiating recordings (e.g. eating, drinking, smoking, or exercising). Strenuous exercise, such as jumping or sprinting, may temporarily interrupt readings. Unit will recover within 20 seconds when the hand is held relaxed and still. □ Inserting finger into thimble should be easy and comfortable, IF INSERTION IS TOO TIGHT OR DIFFICULT. USE A SMALLER FINGER. Damage caused by forcing will void the warranty.

Using the Check Mate:

Gently place the forefinger in the silicon thimble so that it feels comfortable, do not force; ensure that the display is facing upwards, i.e. on the nail side of the finger.

 For a quick start, hold the hand relaxed and still, put the unit on your finger first and then press the on/off button for one second using the flat of the finger; the display will illuminate and the SPO legend will appear on the display (release the button).

Oxygen Saturation and Pulse Rate will display within 20 seconds - during this time dashes may appear while the system performs a self-check and acquires data for display.

Once a stable reading has appeared in the display, physical activity may be resumed



Turning off the unit:

□ Turn off the unit by pressing the on/off button for 2 seconds, or until the "off" legend appears on the display. Once the finger is removed, the unit will automatically shut off after 60 seconds, providing the unit is stored in a dark, non-lit area like the optional storage case.

Backlight:

A quick touch of the on/off button will turn on the backlight.

- The backlight will automatically turn off after
- 10 seconds to conserve battery power.

Batterv status:

□ The battery indicator displays the approximate power remaining in the battery.

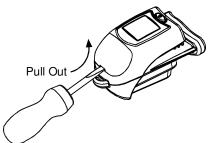
The display of a single battery bar indicates that the battery will soon need replacement.

Battery requirements: 3.6V 1/2 AA Lithium (Tadiran is recommended)

Revision Level: 01

Battery replacement method:

Using a flat screwdriver, snap the battery cover at the front of the unit, as shown below.



- Carefully remove the old battery and discard according to local laws. Install a new battery. Please ensure that the battery
- polarization (+/-) is in accordance with the symbols inside the battery compartment.



Replace the battery cover as shown in the figure.



Installing the battery will automatically turn the system on. Turn the system "off" by holding the power button down for two seconds.

Check Mate cleaning instructions:

- Wipe exposed surfaces with a soft cloth or a pad moistened with a mild detergent solution or isopropyl alcohol solution (70%).
- Clean the inside of the elastic thimble and the two optical elements inside with a cotton swab or equivalent moistened with a mild detergent solution or isopropyl alcohol solution (70%).
- Clean your Check Mate whenever you see any kind of soil, dirt or obstruction in it.
- Please ensure that no dirt or blood is on the optical components inside the finger thimble.

Product specifications:

Effective measuring rang	le		
Saturation	40 to 99%		
Heart pulse rate	40 to 250 bpm		
Resolution	1 digit		
Accuracy (incl. minor mo			
Saturation (70%-99%)	+2% or +2 digits		
Heart pulse rate	<u>+</u> 3% or <u>+</u> 3 digits		
Saturation	2 characters		
Heart pulse rate	3 characters		
Signal indications:	Sensor 'OFF' and		
5	'Weak Signal'		
	Flashing heart icon		
Battery indication	Full power, 1/3 and		
	near empty		
Power requirements	3.6V Lithium battery,		
	1/2 AA size		
Battery continuous life	1,000 Hrs or 40 days		
	of continuous usage		
Mechanical	-		
Overall dimensions	2.91" x 1.57" x 1.61"		
	(74 x 40 x 41 mm)		
Storage temperatures	-40° to 158°F		
Operating temperatures	39º to 107ºF		
Weight	1.8 oz. (50 g). including battery		
(SP° CE			



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Device Catalog number: 903036-00 Design and product specifications are subject to change without notice

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