EC REP **MedPath GmbH**
Mies-van-der-Rohe-Strasse 8, 80807 Munich, Germany

Made in China

Shenzhen Jumper Medical Equipment Co., Ltd
D Building, No. 71, Xintian Road, Fuyong Street,
Baoan, Shenzhen, Guangdong, China 518103

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kinetik
WELLBEING



Finger Pulse Oximeter

Instruction Manual

REF JPD-500G

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Support

Our manual should provide you with all the information you need to set up and use this product.

If you have a question, have a look at our Troubleshooting page!

For further assistance, why not contact our Customer Care team directly? We're here to help!

Our Customer Care team are available from 9am-5pm, Monday to Friday (excluding bank holidays).

We promise to respond to all queries and will ensure to resolve any issue you may be having.

You can reach us by...

Phone:
+44 1483 937967

Live Chat:
Simply visit www.kinetikwellbeing.com and send us a message.

Email:
customercare@kinetikwellbeing.com

Post:
Kinetik Medical Devices Limited
Unit 11, Perrywood Business Park, Honeycrock Lane,
Salfords, Redhill. RH1 5JQ

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.

NOTE:

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.

Warning:

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

Precautions

Do not attempt to maintain the Oximeter unless you are a professional engineer. Only professionals with maintenance qualifications are allowed to perform interior maintenance as necessary.
Change the contact position between the Oximeter probe and the finger periodically if you are monitoring your SpO2 levels and pulse rate for more than 2 hours.
Stop immediately if you have broken skin or the blood circulation of your finger is affected during prolong use.
This product is not applicable to the examination of newborn babies.
Seek medical care if the measured value goes beyond the normal range while you are sure that the instrument is not malfunctioning.
This device needs more than half an hour to warm/cool from the minimum/maximum storage temperature between uses until it is ready for intended use.
Adults or children whose weight is less than 30KG is forbidden to use.
The patient is an intended operator.
Do not directly expose your eyes to light-emitting components of the Oximeter, as that could cause harm to your eyes.
Do not combine old and new batteries or different brands of batteries for use.
Do not expose the device to lint, dust, light (including sunlight), etc.
Do not expose the device to pets or children.
This pulse oximeter is not intended to diagnose or treat any medical condition or disease. People who need SpO2 and pulse rate measurements because of a medical condition should not use the oximeter and should consult with their physician.

Contact Kinetik Wellbeing on the following issues when needed:
Assistance in setting up, using, or maintaining the device.
To report unexpected operation or events.

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.
Ambient light intensity is too bright. Hence, please avoid direct exposure to strong light (such as beams from operating lamps or sunlight) during measurement.
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 hypo-tension, 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.
Please note the effects of degraded sensors that can degrade performance or cause other problems.
Uncomfortable or painful feeling may appear if using the device ceaselessly, especially for the micro-circulation barrier patient. It is recommended that the sensor should not be applied to the same finger for over 2 hours.
The person who is allergic to rubber cannot use this device.
Note: the product has no contraindications.

Warnings

Warning: Do not use the Oximeter in an environment with any inflammable gases, inflammable anesthetic, or other inflammable substances.
Warning: Do not attempt to charge any common dry battery, as that could cause leakage, fire disaster, or even explosion. Dispose of exhausted batteries in accordance with environment protection regulations.
Warning: Do not throw the batteries into fire, as that could cause an explosion.
Warning: 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.
Warning: Do not use accessories and detachable parts not specified or authorized by manufacturer. Otherwise, it may cause damage to the unit or danger to the user or patients.
Warning: Install the batteries properly before powering on the Oximeter for normal use. Please remove the batteries if you are not planning to use the Oximeter for a long time.
Warning: Close the battery cover when the instrument is in use.
Warning: No modification of this equipment is allowed for safety.
Warning: 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.

Symbols

Symbols	Description
	Type BF applied part
	Caution: Please see this manual.
%SpO2	Symbol of oxygen saturation
bpmPR	Symbol of pulse rate
	No SPO2 alarms.
	Read the instructions (actual symbol colours are white on a blue background)
	Temperature limitation
IP22	The degree of protection against harmful ingress of water and particulate matter
	When end users abandon this product, they must send the product to the collection place for recycling.
	Date of Manufacture and Made in China
	Information of manufacturer
CE 0482	This product complies with the MDD93/42/EEC requirements
EC REP	Authorized European Representative
MD	Medical device
	Humidity
	Atmospheric Pressure
	Keep dry
	Upward
LOT	Lot Number
SN	Symbol for "SERIAL NUMBER"

Overview

Oxygen saturation is the percentage of oxyhemoglobin (HbO2) that is combined with oxygen against all combinable hemoglobin (Hb). It is an important physiological parameter involved in respiration and circulation. The oxygen saturation of arterial blood in a normal human body is 98%. Oxygen saturation is an important indicator of the oxygen condition in the human body. In general, the normal values of oxygen saturation shall not be lower than 94%. If the measured value of oxygen saturation is lower than 94%, an insufficient supply of oxygen is considered.

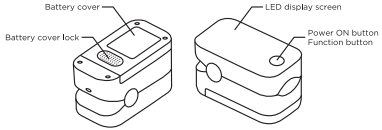
The pulse rate is the number of pulse beats per minute. Normally, the pulse rate is consistent with the heart rate. In general, the pulse rate of every people is 60 to 90 beats per minute.

The Perfusion Index (PI) usually reflects the limb perfusion status of an examined patient, and shows the detection precision of the instrument as well; that is, examination can still be performed even in the low or weak perfusion condition.The PI of a normal human body is 3% or greater.

Working Principles and Usage

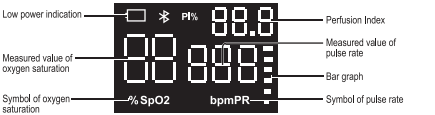
Based on full digital technology, the Finger Pulse Oximeter non-invasively measures the actual content (oxygen saturation) of oxyhemoglobin (HbO2) in arterial blood using the optical transmittance method. The Finger Pulse Oximeter measures the blood oxygen saturation and pulse rate of a human body via finger artery.

Device Diagram



Screen Display

The following figure shows the information display on the LED screen of the Oximeter in normal detection state:



Power-On button/Function Button Operations

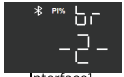
Press the power-on/function button to turn on the oximeter.Once the it is turned on.Simply press or hold the button to perform corresponding operations.

Press: Press the button for less than 0.5 seconds.

Hold: Press the button for more than 0.5 seconds.

Brightness Setting

Hold the power-on button while the oximeter is in powered-on state,then the oximeter shows a brightness setting interface(as "Interface 1" below shows, "br" represents brightness).Hold the button to adjust brightness. There 3 brightness settings(1,2,3). 3 is the brightest.



Interface1

Alert Setting

After setting the brightness,press the power-on button to enter the alert setting interface(as "interface 2" below shows, "AL" represents alert).Then hold the button to set "AL" to on or off.When "AL" 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 will beep to alert.



Interface2

Alert Range Setting

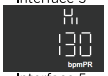
When "AL" is set to on, you can set the upper limit and lower limit of SpO2 Alert and PR Alert. Press it to switch an option(SpO2 upper limit, SpO2 lower limit, PR upper limit and PR lower limit).Hold the power-on button to adjust the limits.(as "Interface 3,4,5,6" below show, "Hi" represents upper limit, "Lo" represents lower limit) .



Interface 3



Interface 4



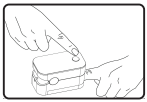
Interface 5



Interface 6

Operation Guide

Stick one finger completely into the finger chamber of the oximeter. The fingernail should be facing upward. Release the clip and press the power-on button to power on the pulse oximeter.



⚠ If you do not insert your finger completely into the chamber, measurement will be inaccurate.

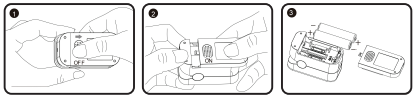
⚠ Do not vibrate your finger during measurement. Ensure that your body does not move. After the readings become stable, read the measured values of oxygen saturation and the pulse rate on the screen values of oxygen saturation and pulse rate on the screen.

NOTE: The oximeter will automatically shut down 10 seconds after you remove your finger.

Connecting the Instrument to a smartphone via Bluetooth

Download the **MedM Health** app from the App store or Google Play.
Install the app and register an account.
Enable Bluetooth and the MedM app on your smart device. Make sure both Bluetooth and app are ON when pair-up is proceeding.
In the app, select the menu in the top left corner of the screen. Then select **My Devices.**
At the bottom of this screen, select **Add New.** The app will automatically start scanning for a new device.
While the scan is underway turn on your pulse oximeter.
Ensure that batteries have been inserted into pulse oximeter before doing so.
When detected select the **KinetikPulseOximeter.**
Once selected you will be asked if you would like to receive data automatically.
To transmit and store each measurement automatically you will need to select **Yes** on this screen. If you select **No** you will need to manually input your results.

Battery Replacement



⚠ Replace the batteries when the batteries run out of power and the symbol

(▭) flickers on the screen.

Install the two AAA dry batteries into the battery slot according to polarity indication, and mount the battery cover.

Cleaning

Power off the instrument and remove the batteries before cleaning. Ensure that the appearance of the instrument is neat, dust-free, and dirt-free. Clean the outer surface of the instrument (including the LED screen) using a piece of dry soft cloth dipped with 75% medical alcohol

Caution: Avoid liquid flowing into the instrument during cleaning.

Caution: Do not immerse any part of the instrument into any liquid.

Disinfection

Before measurement with the instrument, wipe the rubber finger pad using a piece of dry soft cloth dipped with 75% medical alcohol. Clean the finger to be measured using the medical alcohol for disinfection purposes before and after use.

⚠ Do not disinfect the instrument by means of high-temperature/high- pressure or gas disinfection.

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.
- 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 once a year.

Keep the transmitting and receiving windows free of obstructions before and after use.

No service /maintenance while the equipment is in use.

Troubleshooting

Problem	Possible Cause	Solution
The unit fails to power on.	Low battery	Change the batteries.
	Polarities of the batteries are reversed.	Make sure the batteries are installed correctly.
	The unit is damaged.	Contact the manufacturer.
The unit doesn't display any information.	The emitting light doesn't power on.	Contact the manufacturer.

Product Accessories

1x Lanyard, 1x Storage bag, 2x AAA batteries; 1x Instruction manual.

Technical Specifications

1. Dimensions:58 mm (Width) × 32 mm (Depth) × 32.9 mm (Height)
   Weight: 50.4 g (including two AAA dry batteries)
2. Peak wavelength range of the light emitted from the probe: red light 660nm ± 3; infrared light 905 nm ± 5.
3. Maximum optical output power of the probe: 1.2 mW for infrared light (905 nm).
4. Manufacturing date: see the label
   Product service life: 5 years.
5. Bluetooth module: 4.0
6. Normal working condition

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

Technical parameters (software version: V2.12)

Parameter		Value
Display range	Oxygen saturation	35% to 99%
	Pulse rate	25 bpm to 250 bpm
Resolution	Oxygen saturation	1%
	Pulse rate	1 bpm
Measurement precision	Oxygen saturation	±2% (70% to 99%) 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	times	About 685 measurements with new 1200mAh battery.
	Service life	More than 20 hours of continuous use

Safety Type

Anti-electric-shock type: internal power supply device

Anti-electric-shock degree: Type BF applied part

Running mode: continuous working

Waterproof grade: IP22

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.

Statement

Lay responsible organization must contact its local authorities to determine the proper method of disposal of potentially bio hazardous parts and accessories as appliable.

EMC Information-Guidance and Manufactures Declaration

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."

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."

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

EMC Information-Guidance and Manufacture's Declaration TABLE

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 a.c. 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	10 V/m 80 MHz to 2.7 GHz	10 V/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 1845 MH z 1970 MHz	**Pulse Modulation : 217Hz	2 W	28 V/m	28 V/m
	2450 MHz	**Pulse Modulation : 217Hz	2 W	28 V/m	28 V/m
	5240 MHz 5500 MHz 5785 MHz	**Pulse Modulation : 217Hz	0.2 W	9 V/m	9 V/m