IMDK only consides itself responsible for any effect on safety. reliability and performance of the equipment if: Assembly national standards, and The instrument is used in accordance with the instructions for use. The equipment compliant with IEC60601-1 requirements of electrical safety and ensure the designated device's voltage and current meet the

□C101B1 □C101B2

To obtain data by electronic circuits and microprocessors, a displayed in OLED Easy to read on, Operation schematic

Responsibility of the Manufacture

equirements of this Manual.

Measuring principle

operations, extensions, re-adjustments, modifications or

repairs are carried out by persons authorized by IMDK, and

Oximeter is based on the measuring principle haemoglobic

absorption characteristics in the region on the basis of the

The instrument works by photoelectric detection of blood

First, the emission wavelength of used fluorescent tubes

irradiation on the nails by photosensor measured signal. T

nformation about wavelength range can be especially usefu

660nm Red and wavelength 940nm Near-infrared light

oxygenation of hemoglobin in the red and infrared light

application "LamnertBeer" Law of data presented

technology, specific process is as follows:

oxygen combined with the pulse volume recording

The electrical installation of the relevant room complies with

1.Infrared / red light emitting tube 2.Light receiving tub arterial catheter or intravascular line



Section1 Safety

anemia or hypothermia

and specifications before using this eximeter

•Do not place the equipment in children, pets and other place

 This device is not intended for treatment it can't be used to assess the accuracy of a pulse oximeter probe or a pulse oximete Do not attempt to service the pulse oximeter. Only qualified.

service personnel should attempt any needed internal servicing •Do not use this device in situations where alarms required Although this eximeter provides alarm function, but the alarm does not meet IFC60601-1-8

CAUTION: The battery must be taken out from the battery temperature: 5°C~40°C, transport and storage temperature: - $10^{\circ}C\sim +40^{\circ}C$). When the ambient temperature is low or high ensure that the product is recovered to room temperature CAUTION:Do not operate the unit if it is damp or wet becaus

*It is not suitable for long-time continuous patient monitoring to a warm humid location Continual measurement must not exceed 2 hours. Do not charge during measurement. Transfer of blood oxygen saturation and pulse rate data value oximetry in 8-10 seconds and data update

high ambient light. Shield the sensor area (with a surgical towel.

The following reasons will cause interference:

■Placement of a sensor on an extremity with a blood presaturation(SpO2) and Pulse rate(PR).

The nationt is in cardiac arrest or is in shoe

waveform. If the signal is too low it will affect the accuracy and function of the pulse oximeter. If your blood oxygen does not give the correct result, check the signal strength is too low.

WARNING: Do not attempt to recharge normal dry-cell batteri they may leak. And may cause a fire or even explode.

CAUTION: Keep the operating environment, free of dust vibrations corrosive of flammable materials and extremes

finger, probe and cavity cone. Please ensure that the instrument compartment if the device will not be used for s inverted during cleaning to prevent the liquid from entering

equipment, immediately after moving it from a cold environment

.Fingernail polish or false fingernails may cause inaccurate Sp

. The SpO2 waveform is disproportionate to pulse. Sp02 measurements may be adversely affected in the presence

3. Do not use this equipment on any limb with arterial cannula intravenous infusion set or inflated blood pressure cu 4. The SpO2 waveform is disproportionate to pulse. Do not

function tester to measure the SpO2 accuracy. ■High-frequency electrosurgical

5. The device was calibrated Display Arterial oxygen

■The patient has hypotension severe vasoconstriction severe

■Fingernail polish or false fingernails may cause inaccurate S

rty sensor or LED light

WARNING: The effects of degraded sensors and electrodes, or loosened electrodes, that can degrade performance or cause other

This Manual is prepared based on the most comple WARNING: Do not use the pulse eximeter in an MRI or CT

> available in your .4.1 Cleaning instruments:

condensation or spills Avoid using the

oxygen accuracy. The measured arterial hemoglobin had a

oxygen saturation, and the measurements were compared wit the determined results of the arterial blood samples analyzed by the co-ovimeter

When plugging your finger into the Oximeter your nail surface

6. If the detected signal is incomplete, the equipment will not display the parameter value but display the waveform as a straight line. The weak signal is represented by the amplitude of the

There are several reasons for a weak signal: WARNING: EXPLOSION HAZARD -Do not use the oximeter in a

anesthetics or other materials may occur

old temperatures and general health can cause low bl

configuration. Some configurations and functions may be

Jse 70% of the alcohol cotton, clean silica gel sleeve, and test

on't put any liquid inside the instrument. instrument does not require the maintenance an

Section 2 Introductionn Ilinical test is a method commonly used to determine t

and pulse rate (PR). The device measures SpO2 and PR with a pO2 senor and displays on the OLED after certain further Measure ten times a day for ten minutes. It could take five years

must be upward.

outpatient measure pulse oxygen saturation and pulse rate of adults .Oximetry is suitable for vascular diseases, respiratory diseases, the elderly over the age of 60, working more than 12 hours a day, extreme sports and alpine hypoxia environment of blood oxygen monitoring population and chronic alcoholism

ne oximeter improper positioning

such as allergy to the our skin) . The pictures and interfaces in this manual are for refer Install two AAA batteries into battery cassette before covering its

> •Plug one finger into rubber hole of the Oximeter (it is best to plug the finger thoroughly) before releasing the clamp with the nail upwards.

inside of the Oximeter adopts medical

before each test and clean the

•Press button on the front nanel:

•Don't tremble your finger when the Oximeter is working. Your hady is not recommended on maying status •Press the button on the front panel, if we want change display

Declaration: Please use the medical alcohol to clean the rubber

tested finger with alcohol before and after the test. (The rubber

rubber, which has no toxin no harm, and brings no side effect

•Read relevant datum from display screen. •If there is no signal input oximeter can shut off automatically.

 Ptease replace new batteries when OLFD indicates the batterie alibration of the schedule except for the replacement are in low nower

2.1 Brief Device Description

concerning medical devices EC REP Authorized representative in the European communi processing , it can be used to measure human Hemoglobin Saturation and heart rate through finger

Follow instructions for u

Type BF Applied Part

The Oximeter intended to be used for home care and medical Refer to use manual before application

3.1.Description of the Front Panel (as figure 3.) I. Type of protection against electric shock: Internally powered

Figure 3.1.1Parts of front&back pane

Table 3.1.1 Part Definition and Description

1 Power Turn on the machine, direction

After switch on the OLED display of the Oximeter is as follow

 Degree of protection against electric shock: Type RF 3 Protection Against Ingress of Liquids: IP22(protected against ingress of water when the water is

SpO_{2%} EXT PRoom dripping vertically and the monitor is tilted up to 15° 4 Mode of operation: Continuous

5 Evnected Service Life:5 years 6.Display Type:OLED display

Measurement range:70%-99%

-10°C-40°C

Accuracy: ±2% on the stage of 70%-99%. Unspecified (≤70%)

Resolution: +1% Measurement range:30RPM-240RPM

oxygen saturation of arterial hemo Accuracy: +1BPM or +1% Power Supply :2AAA 1.5V batteries . Power consumption: less

Operation Temperature

Storage Temperature

Operation Humidity

Srorage Humidity

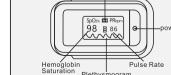
Air Pressure

The symbol indicates that the device should b Battery life: 2 AAA 1.5 V alkaline battery can be used for 30 hour to the special agencies according to loc for separate collection after its useful life Battery voltage:Low battery indicator appears before battery he symbol indicates that the device power is lowered to normal operation with the European Council Directive 93/4: 10 Dimension:60*35*35mm

1.Environmental:

Battery indicator

Item Name



Section 3 Installation, Setup, and Operation

ange and parameter setting

Display the SPO2/PR data

Press the power button (> 0.5S), the oximeter will enter into narameter setting

There are two submenu for choice: When the '*' singal is shown on the "Sounds setup" press the hutton(> 0.5S) and enter into the sounds setting

3.3Parameter setting:

Select or to increase or decrease the number of settings. When the '*' singal is shown on the "Aim setup" , press the button (> 0.5S)and enter into the alarm setting menu(Figure 3.3.2), press the button to set the on/off for the

Settings

Figure3.3.1

Installing two AAA batteries into battery cassette in cor

WARNING:Do not attempt to recharge normal alkaline

batteries, they may leak and may cause a fire or even explo

menu(Figure 3.3.1), you can press the button to change the data

Giochide Sindon

4105 Apre. 450

Figure 3.3.2

alarm and beep.

3.4 Operation

3.4.1 Install battery

polarities and cover it

Acre Sohot in

3.4.3 Read correspondent data from display scre Sathings

SpO_{2 % ||||| PR bpm}

The display interface of "OLED" can rotate four direction

Sings Aire Ht. six different display modes after pressing the power butto Storic Atres has less than 0.5s It is shown as below: Please follow the law of the local government to deal with used

Guidance and manufacture's declaration-electromagnetic radiation for other EQUIPMENTS and SYSTEMS

The Pulse Oximeter is designed to be used in specified electromagne

7 4	readiation rest	compliance	Electromagnetic environme
74 72	RF interference CISPR 11	Group 1	RF signal of Pulse Oximeter is simply cre Internal function. Therefore, its RF interfe Low and is not likely to cause any interfe Electronic equipment
	RF interference CISPR 11	Class B	The Pulse Oximeter applies to all establi domestic establishments and those dire the public low-voltage power supply ne buildings used for domestic purposes

3.4.2 Turn the Pulse Ovimeter on/off

put the finger thoroughly) with nail surface upward, the

Press power button to turn th

will automatically

Clean the surface of fingertip oximeter before it is used to

•It would be better to preserve the product in -10~40 C (14-104 F) and humidity is 10%-80%. 3.4.4 Display Description of OLED

It is recommended that the product should be kept dry

 Two color OLED display, more display modes Low-power consumption, continuously four direction Low voltage indicator

•Automatically power off in 8 seconds when there is no signal

Small in volume, light in weight and convenient to carry

Section 4 maintenance and solution Pulse Oximeter on The oxime 4.1 Maintenance and Preservation

Replace the hatteries timely when low voltage lamp is or

be powered off when no finger in the device for longer than 16 Remove the batteries inside If you will not operate the Oximete

anytime A wet ambience might affect its life time and even

The fault of the probe is one of its own faults, and the other is caused by the external factors of the probe

4.3 Possible problems and effective solutions

2.Finger is trembling or the

The Oximeter might be

detected in 8 seconds

The product automatically

will be detected by the probe. Poor probe. Replace the backup

probe. SPO2 value returned to normal, determine the probe faul

2, the oximeter has no SPO2 value and has red light emission. I

may be that the photocell is insensitive to the light, the

photoelectric tube is aging or the wire is broken Failure

Possible reason leakage. As long as the interference source is found, the probe cleaned and the connecting mouth is properly used, the spot ca SPO2 or PR can 1. Finger is not plugged Section 5. Applicable models can make sure there is no C101H1 C101A2 C101A3 C101B1 C101B2 Note:1. The picture in the manual may be slightly different from the actual instrument. timely for exact diagnosis 2. Technical parameters are subject to change without prior

Section 6. Contact Information If you have any question about maintenance, technical

specifications or malfunctions of devices, contact your local distributor or manufacturer. _

Area, Gongming Street, Guangming District, Shenzhen, China

3. probe external factors mainly in noise, jitter or patient fin

Shenzhen IMDK Medical Technology CO., Ltd CZone 10F. Building 16. Yuanshan Industrial B

Post: 518106 Tel:+86-755-36637905 shuts off when no signal is 2 Replace the batterie

EC REP MedNet FC-RFP GmbH Borkstrasse 10 48163 Münster Germany